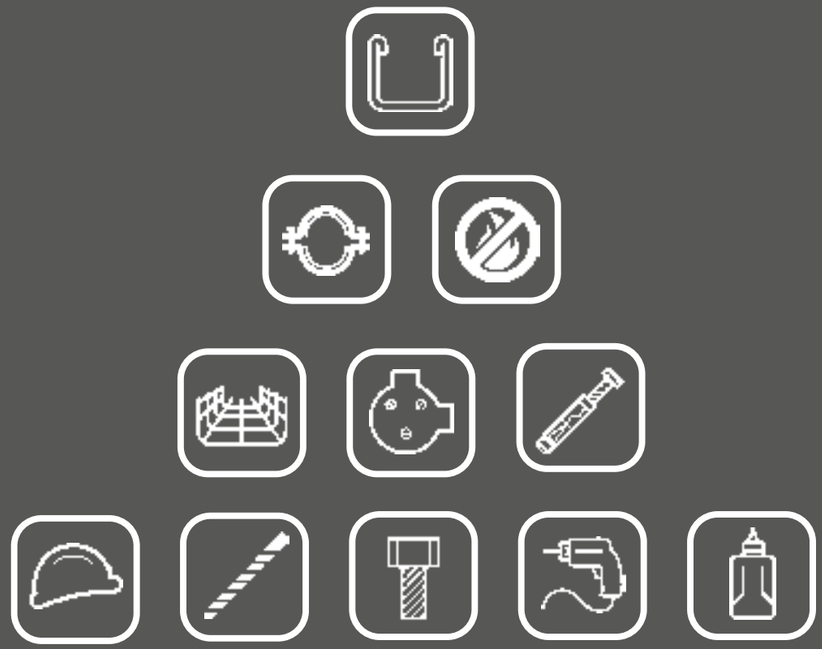
Jack Pennington ltd

Mechanical - Electrical - Fixings - Tooling - Site Services

The Product Guide

edition 22



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About Us

Our Company

Jack Pennington Ltd is proud to be the UK's biggest independent M&E product distributor since 1974. A family owned business, who believes in the long term traditional values of integrity, trust, professionalism and mutual respect. Jack Pennington Ltd is the perfect partner to supply products to the various disciplines within the building services sector, also OEM's, maintenance departments and facilities management. Working closely with our customers and suppliers, we always strive for continuous improvement of the friendly and personal service we pride ourselves on. Whether it's the service offered or products supplied, quality is always paramount and the companies BS EN ISO 9001:2008 standard is testament to that.

Our Products & this Product List

As a dynamic and forward thinking organisation, new products are continuously been investigated and added to the ranges, providing existing and future customers an ever expanding product portfolio. All products that are supplied by Jack Pennington Ltd are of the highest quality, the majority of which are from recognised industry leading brands. The products featured in this guide have been carefully chosen to reflect our most popular products and ranges.

Rather than listing every item stocked the intention of this list is to provide customers with a working tool providing all the necessary data needed for accurate product selection. If a required item isn't listed then please ask, literally thousands of additional items or sizes are available ex stock. Further technical information is available to view on the JPL Direct website and our mobile app.

Our People

Jack Pennington Ltd knows its customers. Appreciating every business is different, it prides itself on the quality of its own people, their experience and knowledge allow them to personally match customers' requirements.

Our dedicated area representatives are available for a variety of onsite services. Onsite problem solving, product selection advice, pull out testing innovation and best practice advice.

The wealth of experience within the Jack Pennington Ltd sales team ensures they are capable of processing orders efficiently and effectively when customers have urgent requirements.

Our Order Process

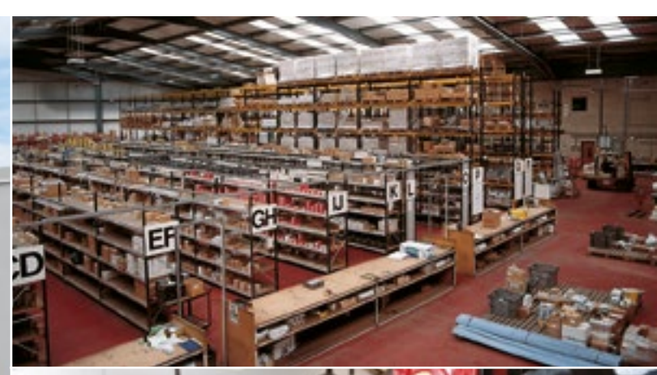
Processing orders couldn't be easier and Jack Pennington Ltd works on a variety of ordering platforms. Stock levels are continuously monitored to ensure that all orders whether received by telephone, fax, email, internet or our mobile app, are delivered complete, the next day from one of our distribution centres. The introduction of online and mobile app ordering enables customers to access their own pricing information, place their ordes receive acknowledgements and view past order history.

Our Delivery Service

A FORS accredited company, Jack Pennington Ltd operates out of distribution centres, in Shipley and Bedford which are both strategically placed to have easy access to major transport routes throughout UK. With its own fleet of vehicles, Jack Pennington Ltd can ensure that any order delivered by us, gets there on time, in full and with the care and attention that is needed.

The understanding of restrictions and difficulties encountered by our customers requires that all delivery locations can be specially taken care of. Our delivery drivers have experience of dealing with the more complex construction industry based deliveries and are all CITB trained and hold CSCS site cards. Should a delivery be outside the normal delivery routes for our own vehicles or if the delivery is need to be timed, same day or out of working hours (available at an extra cost), Jack Pennington Ltd's partner carrier, haulier and courier companies are on hand to ensure these deliveries are fulfilled to our same exacting standards.

A same day collection service is available direct from the Bedford and Shipley distribution centres. This gives the customers that are based locally an opportunity to pick up their orders the same day as placing them. This service is exclusively for our account holding customers and all orders will be confirmed by a member of the sales team who will give an expected time for when the order will be ready.



JPL App

What is the App?

The app is the newest ordering and information platform from Jack Pennington Ltd

Whats new?

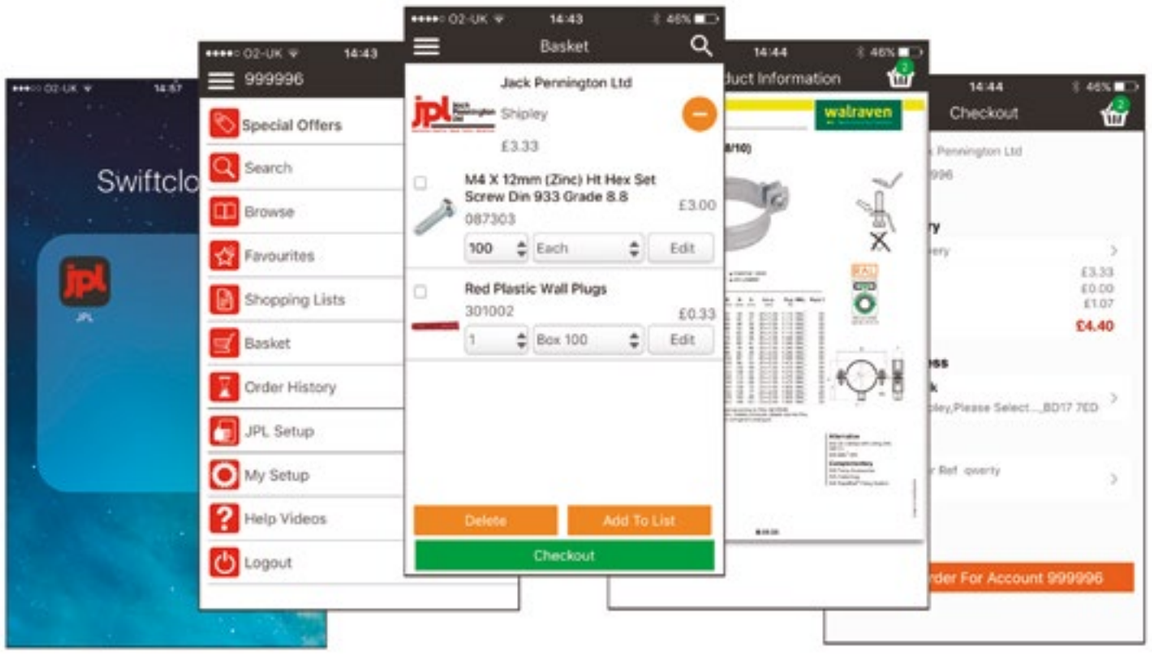
For the first time, customers can access their own personalised account information for their company about stock range, pricing and technical information straight to their desktop, smartphone or tablet, giving the ability to quickly place orders on whatever platform is used. All Platforms are interchagable so orders can be started and completed on more than one platform.

Accessing the App

The app is available to download from The App Store and Google Play. There is also a version for the Desktop.

Login details

In order to use the app you meed to have your accont details authenticated by our sales team. Please speak to a member of the sales team for more infomation regarding the process. Alternatively please email **online@pennington.co.uk** with any questions or queries.



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Metric – Imperial Conversion

	To Convert	Into	Multiply By
Length	Inches	Millimetres	25.4
	Millimetres	Inches	0.03937
Weight	Pounds	Kilograms	0.4536
	Kilograms	Pounds	2.2047
Torque	Pound – Force Foot	Newton Metre	1.35582
	Newton Metre	Pound – Force Foot	0.73756
Stress/ Presure	Pound Force Per sq.in	N/mm2	0.006895
	N/mm2	Pound Force Per Sq.in	145
Capacity	Pints	Litre	0.5682
	Litres	Pints	1.7598
Area	Sq.Feet	Sq. Meters	0.01929
	Sq. Meters	Sq. Feet	10.7639

Screwdriver Bit Sizes

Screwdriver Bit Sizes	Imperial	Metric
N0.1	4,5,6,7	M3, M3.5
N0.2	7,8,10	M3.5,M4,M4.5,M5
N0.3	12,14	M5.5,M6
N0.4	14	M6

Tapping Drill Sizes

Nominal Size Of Tap	Pitch - mm	Drill Size - mm
M3.0	0.50	2.5
M4.0	0.70	3.3
M5.0	0.80	4.2
M6.0	1.00	5.0

Nominal Size Of Tap	Pitch - mm	Drill Size - mm
M8.0	1.25	6.8
M10.0	1.50	8.5
M12.0	1.75	10.2

Pipe Sizes

Nominal Bore Inches:	mm:	Outside Diameter "D"
1/ 2	15	21.3
3/4	20	26.7
1	25	33.4
1.1/4	32	42.2
1.1/2	40	48.3
2	50	60.3

Nominal Bore Inches:	mm:	Outside Diameter "D"
2.1/2	65	76.1
3	80	88.9
3.1/2	90	101.6
4	100	114.3
5	125	139.7
6	150	168.3

Size Guides

Screw Gauge

Woodscrew Gauge	Woodscrew - mm
1	1.78
2	2.06
3	2.39
4	2.74
5	3.10
6	3.45
7	3.81
8	4.17

Woodscrew Gauge	Woodscrew - mm
9	4.52
10	4.86
12	5.59
14	6.30
16	7.01
18	7.72
20	8.43

Metric Coarse Thread & Bolt Head Dimensions

Bolt – Size	Thread Pitch	Head A/F Spanner Size
M3	0.50	5.5mm
M4	0.70	7.0mm
M5	0.80	8.0mm
M6	1.00	10.0mm
M8	1.25	13.0mm
M10	1.50	17.0mm
M12	1.75	19.0mm

Bolt – Size	Thread Pitch	Head A/F Spanner Size
M16	2.00	24.0mm
M20	2.50	30.0mm
M24	3.00	36.0mm
M27	3.00	41.0mm
M30	3.50	48.0mm
M36	4.00	55.0mm

Metric Washer Dimensions

Bolt Size	Form A O/D	Form A Thickness	Form B O/D	Form B Thickness	Form C O/D	Form C Thickness
M3	7.0	0.5				
M3.5	7.0	0.5				
M4	9.0	0.8			10.0	0.8
M5	10.0	1.0			12.5	1.0
M6	12.5	1.6	12.5	0.8	14.0	1.6
M8	17.0	1.6	17.0	1.0	21.0	1.6
M10	21.0	2.0	21.0	1.2	24.0	2.0
M12	24.0	2.5	24.0	1.6	28.0	2.5
M14	28.0	2.5	28.0	1.6	30.0	2.5
M16	30.0	3.0	30.0	2.0	34.0	3.0
M18	34.0	3.0	34.0	2.0	37.0	3.0
M20	37.0	3.0	37.0	2.0	39.0	3.0
M22	39.0	3.0	39.0	2.0	44.0	3.0
M24	44.0	4.0	44.0	2.5	50.0	4.0
M27	50.0	4.0	50.0	2.5	56.0	4.0
M30	56.0	4.0	56.0	2.5	60.0	4.0
M33	60.0	5.0	60.0	3.0	66.0	5.0
M36	66.0	5.0	66.0	3.0	72.0	5.0
M39	72.0	6.0	72.0	3.0	77.0	6.0

Decimal Equivalent Chart

Inches Decimals	Fractions	mm
0.0124		0.315
0.0136		0.346
0.0148		0.376
0.0156	1/64	0.397
0.018		0.458
0.020		0.508
0.024		0.610
0.028		0.712
0.031	1/32	0.794
0.036		0.915
0.039		1.000
0.046	3/64	1.190
0.050		1.282
0.060		1.528
0.062		1.587
0.064		1.627
0.070		1.780
0.072		1.846
0.078	5/64	2.000
0.080		2.051
0.082		2.069
0.092		2.360
0.093	3/32	2.381
0.104		2.644
0.108		2.745
0.109	7.64	2.778
0.116		2.949
0.118		3.000
0.122		3.102
0.125	1/8	3.175
0.128		3.251
0.136		3.454

Inches Decimals	Fractions	mm
0.140	9/64	3.571
0.144		3.673
0.150		3.818
0.156	5/32	3.968
0.157		4.000
0.160		4.076
0.171	11/64	4.365
0.176		4.484
0.178		4.529
0.187	3/16	4.762
0.192		4.867
0.196		5.000
0.203	13/64	5.159
0.212		5.401
0.218	7/32	5.550
0.220		5.598
0.232		5.898
0.234	15/64	5.953
0.236		6.000
0.248		6.305
0.250	1/ 4	6.350
0.252		6.400
0.265	17/64	6.746
0.275		7.000
0.281	9/32	7.143
0.296	19/64	7.540
0.300		7.642
0.304		7.728
0.312	5/16	7.937
0.315		8.000
0.324		8.232
0.328	21/64	8.334

Size Guides

Decimal Equivalent Chart

Inches Decimals	Fractions	mm	Inches Decimals	Fractions	mm
0.332		8.430	0.640	41/64	16.27
0.343	11/32	8.731	0.656	21/32	16.66
0.348		8.858	0.669		17.00
0.354		9.000	0.671	43/64	17.06
0.359	23/64	9.128	0.687	11/16	17.46
0.372		9.458	0.703	45/64	17.85
0.375	3/8	9.525	0.708		18.00
0.390	25/64	9.921	0.718	23/32	18.25
0.393		10.000	0.734	47/64	18.65
0.400		10.178	0.748		19.00
0.406	13/32	10.318	0.750	3/ 4	19.05
0.421	27/64	10.715	0.765	49/64	19.44
0.433		11.000	0.781	25/32	19.84
0.437	7/16	11.112	0.787		20.00
0.453	29/64	11.509	0.796	51/64	20.24
0.464		11.788	0.812	13/16	20.63
0.468	15/32	11.906	0.826		21.00
0.472		12.000	0.828	53/64	21.03
0.484	31/64	12.303	0.843	27/32	21.43
0.500	1/ 2	12.700	0.859	55/64	21.82
0.511		13.000	0.866		22.00
0.515	33/64	13.096	0.875	7/8	22.22
0.531	17/32	13.493	0.890	57/64	22.62
0.546	35/64	13.890	0.905		23.00
0.551		14.000	0.906	29/32	23.01
0.562	9/16	14.287	0.921	59/64	23.41
0.578	37/64	14.649	0.937	15/16	23.81
0.590		15.000	0.944		24.00
0.593	19/32	15.080	0.953	61/64	24.20
0.609	39/64	15.478	0.968	31/32	24.60
0.625	5/8	15.875	0.984	63/64	25.00
0.629		16.000	1.000	1	25.40

CHANNEL & HANGING

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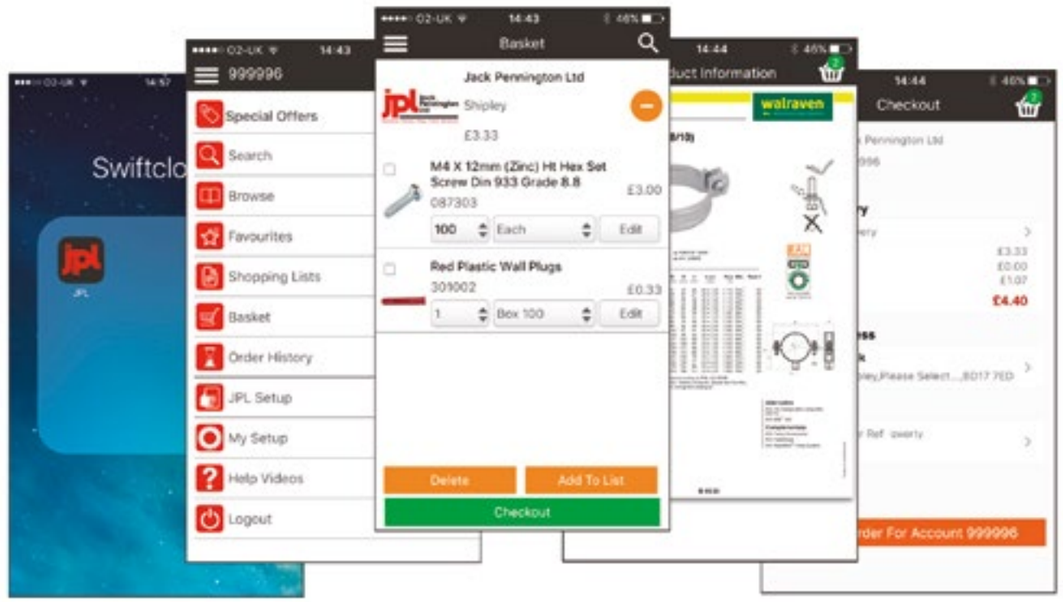
The JPL App

Download the app and log on to get your:

- Bespoke shopping lists
- Latest stock levels
- Accurate pricing
- Technical product data



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Contact a member of Internal Sales for more information

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Unistrut Channel

Unistrut channel allows the creation of frames, to suspend or support a wide variety of electrical and mechanical services. The channel lengths are used in conjunction with the brackets and spring or Kwik Strut channel nuts with studding to form the frames. If you have a large requirement for channel or would like to discuss the option of having frames pre built using our assembly facility then please contact us. **Other channel profiles available**

Unistrut Slotted Channel

Profile (mm)	Unistrut Part Ref	Gauge (mm)	Length (m)	Unistrut Pre-Galv JPL Code	Unistrut H.D.G. JPL Code	Unistrut Stainless Steel JPL Code
41 x 21	P3300T	2.5	3	**304081**	**932038**	**937448**
			6	**304082**	**304103**	**938893**
	P4000T10	1.5	3	**304023**		
			6	**304024**		
41 x 41	P1000T	2.5	3	**304083**	**304109**	**937451**
			6	**304084**	**304107**	**304015**
	P2000T	1.5	3	**304025**		
			6	**304026**		
Back To Back	P1001T	2.5	3	**304085**	**304111**	
			6	**304086**	**304115**	

Unistrut Plain Channel

Profile (mm)	Unistrut Part Ref	Gauge (mm)	Length (m)	Unistrut Pre-Galv JPL Code	Unistrut H.D.G. JPL Code	Unistrut Stainless Steel JPL Code
41 x 21	P3300	2.5	3	**304091**	**932009**	**937444**
			6	**304092**	**304102**	**304119**
41 x 41	P1000	2.5	3	**304093**	**304108**	**932048**
			6	**304094**	**304106**	**304120**
Back To Back	P1001	2.5	3	**304095**	**304110**	**937452**
			6	**304096**	**304105**	

Pre-Galv Channel

Pre-galvanised channel conforming to standard BS6946:1988, the British Standard Specification for metal channel cable support systems for electrical installations. **Gauge 2.5mm for all profiles.**

Slotted Channel

Profile (mm)	Length (m)	JPL Code
41 x 21	3	**304011**
	6	**304012**
41 x 41	3	**304013**
	6	**304014**

Plain Channel

Profile (mm)	Length (m)	JPL Code
41 x 21	3	**304001**
	6	**304002**
41 x 41	3	**304003**
	6	**304004**

Slotted Pre-Galv Channel - Pre Cut Lengths

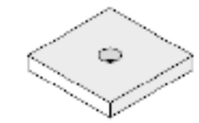
Other Channel Profiles and lengths avalible on request. Please contact **sales@pennington.co.uk** with your requirements.

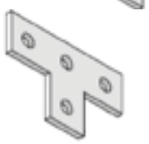
Length (mm)	41mm x 21mm JPL Code	41mm x 41mm JPL Code
200	**304032**	**304122**
300	**304034**	**304124**
400	**304036**	**304126**
500	**304038**	**304128**
600	**304040**	**304130**
700	**304042**	**304132**
800	**304044**	**304134**
900	**304046**	**304136**
1000	**304047**	**304138**
1100	**304049**	**304139**

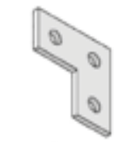
Length (mm)	41mm x 21mm JPL Code	41mm x 41mm JPL Code
1200	**304050**	**304140**
1300	**304051**	**304141**
1400	**936926**	**304142**
1500	**304053**	**304143**
1600	**304055**	**304144**
1700	**937475**	**937510**
1800	**304056**	**304146**
1900	**932015**	**937485**
2000	**304058**	**304148**
2500	**937478**	**304150**

Channel Brackets - Flat Fittings

Type	Unistrut Part Ref	Dimensions mm	Additional Information	Metal Finish	Box Qty	Metal H.D.G. JPL Code	Unistrut Stainless Steel JPL Code	Unistrut Unbranded JPL Code
External Square Plate Washer		40	M6	Zinc	100			**304502**
		40	M8	Zinc	100			**304503**
		40	M10	Zinc	100			**304504**
		40	M12	Zinc	100			**304505**
	P1019	40	M6/M8	HDG	100	**304631**	**304802**	
	P1020	40	M10/M12	HDG	100	**304632**	**304803**	
Internal Square Plate Washer	P1063/06	30 x 32	8mm Clearance Hole for M6 Screw	HDG	100	**937548**		
	P1063/08	30 x 32	10mm Clearance Hole for M8 Screw	HDG	100	**937549**		
	P1063/10	30 x 32	12mm Clearance Hole for M10 Screw	HDG	100	**932115**		
2 Hole Plate	P1065	89		HDG	20	**304641**	**304805**	**304506**
3 Hole Plate	P1066	120		HDG	20	**304642**	**304806**	**304507**
4 Hole Plate	P1067	160		HDG	20	**304643**	**304807**	**304508**
5 Hole Plate	P1941	232		HDG	20	**304666**	**304808**	**304509**
4 Hole Tee Plate	P1031	135 x 90		HDG	10	**304634**	**304810**	**304522**
3 Hole L Plate	P1036	90 x 90		HDG	20	**304636**	**304809**	**304528**
4 Hole Delta Cross Plate	P1580	136 x 90		HDG	10	**304661**		
4 Hole Delta Tee Plate	P1358	136 x 90		HDG	10	**932118**		







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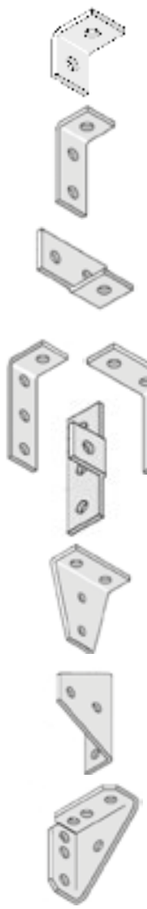
Channel Brackets - Angle Fittings

Type	Unistrut Part Ref	Dimensions mm	Additional Information	Box Qty	Unistrut H.D.G. JPL Code	Unistrut Stainless Steel JPL Code	Unbranded JPL Code
2 Hole Obtuse Angle Bracket (1 Hole / 1 Hole)	P2101	71 x 44	30° Angle Bend	10	**932105**		
	P1546	71 x 44	45° Angle Bend	10	**304660**	**304829**	**304573**
	P2097	71 x 44	60° Angle Bend	10	**936567**		
	P2095	71 x 44	75° Angle Bend	10	**304681**		
4 Hole Obtuse Angle Bracket (2 Hole / 2 Hole)	P1074	78 x 78	45° Angle Bend	10	**932117**		
2 Hole Acute Angle Bracket (1 Hole / 1 Hole)	P1186	70 x 56	45° Angle Bend	10	**304645**	**304828**	**304520**
	P2106	70 x 56	75° Angle Bend	10	**304682**		
Hinged Angle Bracket (2 Hole / 2 Hole)	P1354	102 x 102	Zinc Plated	10	**304576**		

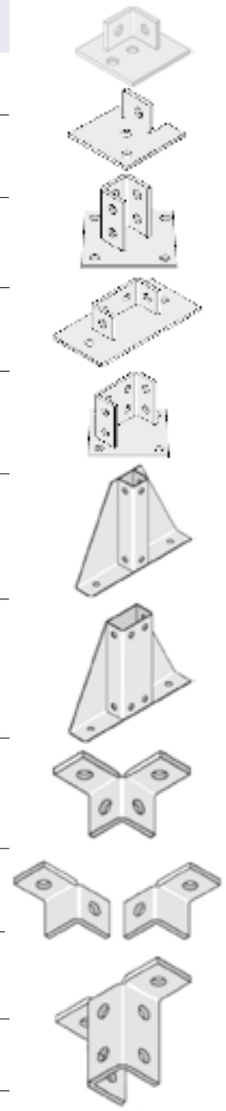
Channel Brackets - 90° Angle Fittings



Type	Unistrut Part Ref	Dimensions mm	Additional Information	Box Qty	Unistrut H.D.G. JPL Code	Unistrut Stainless Steel JPL Code	Unbranded JPL Code
2 Hole Angle Bracket	P1026	47 x 50		20	**304633**	**304813**	**304510**
	P1068	41 x 57		20	**304644**	**304814**	**304512**
3 Hole Angle Bracket	P1326	41 x 104		20	**304652**	**304816**	**304513**
	P1346	47 x 98		20	**304653**	**304815**	**304514**
	P1458	56 x 89		10	**304659**		**304560**
	P1037	90 x 51	Left Hand Multi Angle	10	**304863**	**304820**	
	P1038	90 x 51	Right Hand Multi Angle	10	**304811**	**304821**	
4 Hole Angle Bracket	P1278	137 x 56	1 Hole / 3 Hole	20	**304650**		**304561**
	P1325	104 x 89	2 Hole / 2 Hole	10	**304651**	**304818**	**304515**
	P1033	138 x 51	Tee (1 Hole / 3 Hole)	10	**304635**	**304822**	**304523**
	P1359	104 x 90	Delta (2 Hole / 2 Hole)	10	**304655**	**304864**	**304519**
5 Hole Angle Bracket	P1727	128 x 96	Delta (3 Hole / 2 Hole)	10	**936196**		
7 Hole Angle Bracket	P2484	102 x 102	Welded (3 Hole / 3 Hole/ 1 Hole)	10	**304670**	**304825**	**304516**

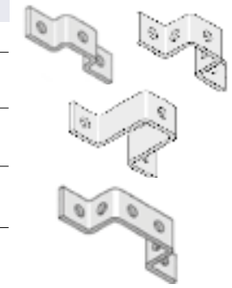
Channel Brackets - Base & Wing Fittings

Type	Unistrut Part Ref	Dimensions mm	Additional Information	Box Qty	Unistrut H.D.G. JPL Code	Unistrut Stainless Steel JPL Code	Unbranded JPL Code
Base Plate	P2072-S1		For Single Channel	10	**304675**	**304856**	**304544**
	P2072-S2		For Single Channel	10	**304668**	**304855**	**304543**
	P2072A		For Single Channel	10	**304679**		
	P2073		For Double Channel	10	**304676**	**304857**	**304545**
	P2073A		For Double Channel	10	**937544**		
Delta Plates	P2348-S1		For Single Channel	1	**304677**	**304858**	**304546**
	P2348-S2		For Double Channel	1	**304678**	**304859**	**304566**
Wing Bracket	P2223	49 x 49		10	**932119**		
	P2341L	49 x 49		10	**932120**		**304524**
	P2341R	49 x 49		10	**932121**		**304526**
	P2346			10	**304669**	**304838**	**304521**



Channel Brackets - U & Z Fittings

Type	Unistrut Part Ref	Dimensions mm	Box Qty	Unistrut H.D.G. JPL Code	Unistrut Stainless Steel JPL Code	Unbranded JPL Code
Top Hat Bracket	P4047	21mm Deep 43mm Wide	10	**304674**	**304833**	**304534**
	P1047	41mm Deep 43mm Wide	10	**304640**	**304834**	**304535**
	P1737	83mm Deep 43mm Wide	10	**304662**	**304835**	**304536**
	P1043	41mm Deep 84mm Wide	20	**304637**	**304836**	**304537**



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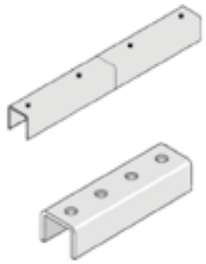
Channel Brackets - U & Z Fittings (continued)

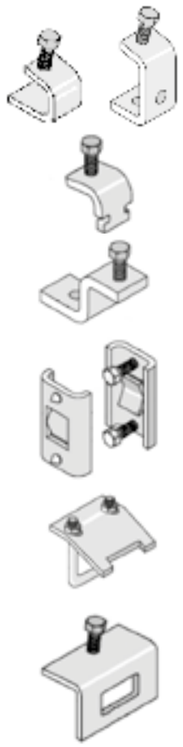
Type	Unistrut Part Ref	Dimensions mm	Box Qty	Unistrut H.D.G. JPL Code	Unistrut Stainless Steel JPL Code	Unbranded JPL Code
Z Type Bracket	P4045	21mm Deep 88mm Wide	50	**304673**	**304830**	**304531**
	P1045	41mm Deep 95mm Wide	25	**304639**	**304831**	**304532**
	P1347	47mm Deep 87mm Wide	25	**304654**		
	P1453	83mm Deep 88mm Wide	25	**304658**	**304832**	**304533**
C Bracket	P1044	96mm Deep 47mm Wide	25	**304638**	**304837**	**304538**

Channel Brackets - Channel Couplers



Type	Unistrut Part Ref	Dimensions mm	Box Qty	Unistrut H.D.G. JPL Code	Unistrut Stainless Steel JPL Code	Unbranded JPL Code
Internal Connector	P1219	41 x 21	10	**304647**	**304842**	**304608**
	P1218	41 x 41	10	**304646**	**304841**	**304609**
External Connector		41 x 21	10			**304571**
	P1377	41 x 41	10	**304656**		**304570**

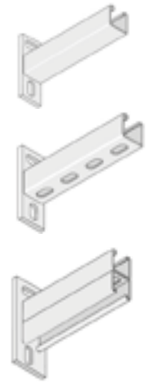
Channel Brackets - Beam Clamps



Type	Unistrut Part Ref	Additional Information	Box Qty	Unistrut H.D.G. JPL Code	Unistrut Stainless Steel JPL Code	Unbranded JPL Code
C Type Beam Clamp	P1272	Internal: C/W Cone Point Screw	50	**304649**	**304847**	**304553**
	P1271	External: C/W Cone Point Screw	10	**304648**	**304846**	**304567**
T Type Beam Clamp	P2489	C/W Cone Point Screw	25	**932122**		**304550**
Z Type Beam Clamp	P1983	C/W Cone Point Screw	10	**304667**		
Internal Beam Clamps	P3087	2 Piece: C/W Cone Point Screw	10	**304580**	**938981**	
Beam Clamp with U Bolt	P2785	Range of U Bolt: 21mm – 41mm	25	**304671**	**304851**	**304558**
(M10 Thread) & Nuts	P2786	Range of U Bolt: 62mm – 83mm	25	**304672**		**304559**
Window Bracket	P1796-A	41mm x 21mm	10	**304664**	**304853**	**304554**
C/W Cone Point Screw	P1796	41mm x 41mm	10	**304663**	**304849**	**304555**
	P1796-B	41mm x 41mm	10	**304665**	**304854**	**304556**

Cantilever Arms

Hot Dipped Galvanised Cantilever Arms in lengths of 150mm to 750mm, 41x41mm profile.



Type	Length (mm)	Unistrut Slotted JPL Code	Unistrut Plain JPL Code	Unbranded Plain JPL Code
41 x 41 2 Hole Back Plate	150	**304745**	**304740**	**304700**
Plain HDG	300	**304746**	**304741**	**304701**
	450	**304747**	**304742**	**304702**
	600	**304748**	**304743**	**304703**
	750	**304749**	**304744**	**304704**
	1000		**304756**	**304705**
Back to Back	600	**304753**		**304733**
2 Hole Back Plate	750	**304754**		**304734**

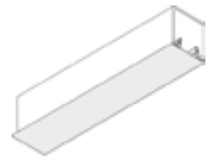
UNISTRUT End Caps

Colour	Size	Box Qty	JPL Code
Black	41mm	100	**304601**
White	41mm	100	**304602**
Black	21mm	100	**304603**
White	21mm	100	**304604**

UNISTRUT Channel Capping

Channel capping suitable for 25mm channel

Unistrut Part Ref	Colour	Length	JPL Code
P1184	White PVC	3 Metre	**304605**
	Black PVC	3 Metre	**932000**
	Galv Steel	3 Metre	**304606**



UNISTRUT Kwik Strut Channel Nuts

QRN Channel Nuts

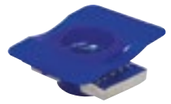
Unistrut QRN nuts replace traditional spring nuts and flat plate washers for hanging threaded rod from channel. It's simple click and turn installation reducing installation time and is particularly suited to overhead working.

Size	Box Qty	JPL Code
M6	50	**304579**
M8	50	**304592**
M10	50	**304593**
M12	50	**304594**

QCN Channel Nuts

Unistrut QCN nuts are an alternative to traditional channel nuts offering faster installation times. With a plastic flush fitting flange it's used for attaching brackets to Unistrut compatible channel.

Size	Box Qty	JPL Code
M6	50	**304596**
M8	50	**304597**
M10	50	**304598**
M12	50	**304599**



QFNH Channel Nuts

An alternative to traditional channel nuts, The QFNH nuts are for use specifically with the Kwikstrut Base fittings, brackets and Cantilever arms.
Zinc Plated

Size	Box Qty	JPL Code
M10	50	**304600**

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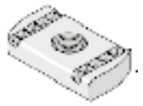
Spring Nuts



Material	Thread Size	Box Qty	No Spring JPL Code	Short Spring JPL Code	Long Spring JPL Code
Unistrut Brand- Zinc Plated	M6	100	**307571**	**307581**	**307591**
	M8	100	**307572**	**307582**	**307592**
	M10	100	**307573**	**307583**	**307953**
	M12	100	**307574**	**307585**	**307596**
Standard- Zinc Plated	M6	100	**307006**	**307106**	**307206**
	M8	100	**307008**	**307108**	**307208**
	M10	100	**307010**	**307110**	**307210**
	M12	100	**307012**	**307112**	**307212**
Standard- Hot Dipped Galv	M6	100	**307576**	**307587**	**307261**
	M8	100	**939736**	**307590**	**307262**
	M10	100	**307578**	**307589**	**307263**
	M12	100			**307264**
Standard- Stainless Steel	M6	100	**307280**		**307252**
	M8	100	**932152**		**307254**
	M10	100	**932153**		**307256**
	M12	100			**307258**

Channel Accessories

Cone Point Set Screws

For use with window brackets and other channel bracketry applications.

Size	Material	JPL Code
M10 x 40	Steel Zinc Plated	**304590**
M10 x 40	Stainless Steel	**304591**
M10 x 40	Hot Dipped Galv	**304595**

Channel Sockets

A 1/2" square drive socket drive especially suited for use within Unistrut 41 x 21mm or 41 x 41mm channel profiles.

Size	To Suit Channel	JPL Code
17mm A/F	21mm Deep	**304303**
17mm A/F	41mm Deep	**304301**
19mm A/F	41mm Deep	**304302**

Jack Pennington ltd

Mechanical - Electrical - Fixings - Tooling - Site Services

OFF SITE SERVICE CENTRE

offsite@pennington.co.uk

Services

- **Cutting** - We now offer a range of pre-cut lengths of channel, ready for next day delivery. Channel, studding, conduit and cable tray are among products that can be pre-cut to any required length.
- **Kits** - We can provide a variety of components individually packed in kit form to your specification, ideal for jobs where there is a lot of repetition.
- **Modules** - 3D Module assembled to your specific requirements, with or without containment.
- **Space** - Make more efficient use of space on site by removing the need to have an area designated for cutting and assembly.
- **Waste** - Eradicate excess off cuts of channel and studs and reduce the amount of packaging to be disposed of, you only need to order what you require.
- **Quality Control and product consistency** - Increase the consistency in the quality of the bracket assemblies by having them assembled in a quality controlled environment where each bracket is thoroughly checked before despatch.
- **Identification** - Identification of our products is made easy, each product is labelled, either by size or with your own specific reference.
- **Health and safety** - Reduce the health and safety risks associated with cutting and having excess waste on site.
- **Cost** - Reduce costs by removing the need for hot work permits,cutting and labour time and by decreasing the amount of waste.

RapidRail - Channel Lengths

BIS RapidRail is a light/medium duty rail fixing system that's ideal for supporting and hanging pipes, with pre-assembled fittings that are easy to slide and adjust the RapidRail system can be a considerable time saver. BIS RapidRail WM15 has the highlighted feature of perforations that allow easy fixing to both sides of the rail. Available in Pre-Galvanised.
Other channel profiles available

Type	Dimensions	Length	JPL Code
WM0	Width 27mm, Height 18mm, Wall Thickness 1.75mm	2m	**304201**
WM15	Width 30mm, Height 20mm, Wall Thickness 1.20mm	2m	**304202**

RapidRail - Brackets

Pre- assembled with BIS RapidRail Slide Nuts

Type		No of Rail Nuts	Box Qty	JPL Code
90° Connector	Long / Long	4	25	**304211**
	Short / Long	3	25	**304222**
	Short / Short	2	25	**304212**
	Long / Long	2	25	**304228**
135° Connector	Long / Long	4	25	**304213**
	Short / Long	3	25	**304219**
	Short / Short	2	25	**304214**
Straight Connector	To connect 2 lengths of Rapid Rail	4	25	**304239**
Type 'T' Connector	To create a T shape with 2 lengths of RapidRail	2	25	**304215**
Type 'X' Connector	To create a X shape with 3 lengths of RapidRail	3	25	**304216**
Top Hat Connector	To cross 2 lengths of RapidRail WM15 together	2	25	**304217**
Beam Clamp	For fixing RapidRail to steel construction without the need for welding or drilling.		50	**304259**

RapidRail - Cantilever Arms

Wall Plate with welded C- profile. Suitable for hanging to the ceiling. UltraProtect Finish on the steel with a high corrosion resistance.

Size	Material	JPL Code
WM15	150mm	**304261**
(30 x 20)	200mm	**304262**
	250mm	**304263**

RapidRail - Slide Nuts

Slide nut with washer and BIS RapidRail spring. Zinc plated.

Type	Dimensions	Box Qty	JPL Code
Slide nut with washer and BIS RapidRail spring. Zinc plated.	M6	50	**304253**
	M8	50	**304254**
	M10	50	**304255**
Plain Slide Nut	M6	100	**304250**
	M10	100	**304252**

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RapidRail - Slide Fixings

walraven BIS – Better Installation Systems

RapidRail Hammerfix Slide Tee Bolt

Slide nut with stud bolt, washer and BIS RapidRail spring. Zinc Plated.

Dimensions of Stud	Box Qty	JPL Code
M8 x 25mm	25	**304237**
M8 x 40mm	25	**304238**
M10 x 25mm	25	**304234**
M10 x 40mm	25	**304235**
M10 x 60mm	25	**304236**
M10 x 100mm	25	**932157**

RapidRail Female Slide Tee Bolt

Slide nut with female thread, washer and BIS RapidRail spring.

Dimensions	Box Qty	JPL Code
M8 x 50mm	25	**304257**
M10 x 50mm	25	**304258**

RapidRail Ball Swivel Rod Hanger

This slide nut with ball swivel hanger is recommended for use on metal pipes up to DN50 and plastic pipes up to DN100.

Dimensions	Box Qty	JPL Code
M8 x 25mm	25	**304230**
M8 x 50mm	25	**304232**
M10 x 25mm	25	**304231**
M10 x 50mm	25	**304233**

RapidRail Accessories

walraven BIS – Better Installation Systems

Type	Box Qty	JPL Code
BIS Basket Retainer Clip: Push on fit for all types of wire basket. It is not a load bearing support.	100	**304266**
End Cap: For clean finishing of the end of rail. Covers all burrs and sharp edges. Can fit WM0 and WM15	50	**304283**
Rail Junction Assembly: Solid fixing to steel construction. Use two clamps per fixing.	50	**304241**

Big Foot Systems - H Frame Support

BIG FOOT SYSTEMS

Big Foot H Frame Support System are designed to support anything that is installed on a flat roof. This creates a safe and secure support for all air conditioning and refrigeration roof plant and associated services.

- **Reduced risk of leaks**

Does not penetrate the roof surface, removing any difficult detailing around concreate structures.

- **Reduces the cost of the roofing Installation**

Removes concreate obstacles, creating a clear roof area therefore reducing complex, timely expensive detailing.

- **No Plant Decommissioning**

No need to remove or decommission roof plant during roof repairs or resurfacing

- **Improved aesthetics**

Need and tidy solution for all roof plant and associated services

Kit Includes:

• 2 x feet • 2 x AV Mats • 2x L-Brackets • 8 x M10 Bolts • 8 x Square channel nuts

KIT DOES NOT INCLUDE UNISTRUT CHANNEL. Bespoke cut lengths can be provided at an additional cost.

Foot Size	Rec Frame Load	Number of Kits	JPL Code
305cm	300kg	1	**305601**
		5	**305608**
450cm	500kg	1	**305602**

Big Foot Systems - Multi Foot

BIG FOOT SYSTEMS

The Multi Foot is designed to be a multi-purpose support for ductwork, pipework and cable trays or any combination of these. This extremely versatile and cost effective one-piece support is available in two sizes.
Designed to accommodate 41mm x 41mm Unistrut vertically, 40mm x 20mm aluminium channel or 41mm x 21mm Unistrut horizontally and 12mm threaded rod vertically.

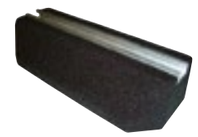
Size	Max Load per Foot	JPL Code
400mm x 180mm	259kg	**305611**
600mm x 220mm	474kg	**305612**

Big Foot Systems - Fix-It Foot

BIG FOOT SYSTEMS

The Fix-it Foots are a neat and tidy roof top support solution from Big Foot. The feet have 40mm x 20mm aluminium channel recessed into the top face to allow for easy fixing of services. Suitable for pipework, duct and cable tray runs. The Fix-it Foot is made of durable, recycled rubber, which offers built-in anti-vibration and makes it both economical and environmentally responsible.

Size	Max Load per Foot	JPL Code
250 x 100mm	82kg	**305603**
400 x 180mm	128kg	**305604**
600 x 220mm	224kg	**305605**
1000 x 180mm	295kg	**305606**



Steel Threaded Rod

Steel studding, also known as threaded rod or screwed rod. The studding is threaded throughout its length and is predominantly used for suspending electrical and mechanical services for indoor applications.
Available in Zinc, HDG and Stainless Steel finishes.

Size	Length	Zinc JPL Code	H.D.G. JPL Code	Stainless JPL Code
M6	1m	**190507**		**190557**
	3m	**190509**		
M8	1m	**190510**	**932239**	**190560**
	2m	**190511**		
	3m	**190512**	**937618**	**190562**
M10	1m	**190513**	**932240**	**190563**
	2m	**190514**		
	3m	**190515**	**937619**	**190565**

Size	Length	Zinc JPL Code	H.D.G. JPL Code	Stainless JPL Code
M12	1m	**190516**	**932241**	**190566**
	2m	**190517**		
	3m	**190518**	**937599**	**190568**
M16	1m	**190519**	**937600**	**190569**
	3m	**190521**	**938779**	**939941**
M20	1m	**190522**		**190572**
	3m	**190524**		**932298**

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Steel Threaded Studs - Zinc

Length	M8 JPL Code	M10 JPL Code
25mm	**190801**	**190851**
30mm	**190802**	**190852**
40mm	**190804**	**190854**
50mm	**190806**	**190856**
60mm	**190808**	**190858**
70mm	**190810**	**190860**
80mm	**190811**	**190862**

Length	M8 JPL Code	M10 JPL Code
90mm	**190814**	**190864**
100mm	**190816**	**190866**
120mm	**190817**	**190871**
150mm	**190826**	**190876**
180mm	**190830**	**190880**
200mm	**190834**	**190884**

Stud Coupler

To connect two pieces of the same Diameter studding.

Size	Length	Box Qty	JPL Code
M6	18mm	200	**190906**
M8	24mm	100	**190908**
M10	30mm	100	**190910**
M12	36mm	100	**190912**
M16	48mm	50	**190916**

Thread Adapters

walraven BIS – Better Installation Systems

Thread adaptors are to enlarge or reduce the thread size in the connection of clamps, etc. Tested for fire safety. Made from zinc plated steel.

Female	Male	Box Qty	JPL Code
M6	M8	100	307901
M8	M10	100	307903
M10	M8	100	307902

Female	Male	Box Qty	JPL Code
M10	M12	50	307905
M12	M10	50	307904
M12	M16	50	307906

Studding caps

Plastic caps to cover the ends of studding, providing protection from any rough cut ends.

Size	Box Qty	Black JPL Code	Clear JPL Code
M6	100	**937621**	**190918**
M8	100	**190924**	**190919**
M10	100	**190925**	**190920**
M12	100	**937620**	**190921**

Erico Caddy Studding Universal 4 Way Block

ERICO

A block to help connect threaded rod (of the same thread size) together and to also alter the direction of the rod.

Erico Ref	Thread Size	Box Qty	JPL Code
UCM8	M8	50	**197198**
UCM10	M10	50	**197199**

Suspension Eyes

To make a suspension point onto threaded Rod. Close design to maximize loading. Steel zinc plated

Thread Size	Box Qty	JPL Code
M8	100	**307934**
M10	100	**307935**
M12	100	**932973**

Gripple Wire Suspension

Gripple Industrial Hangers are a length of wire coming in various gauges (No's 1, 2, 3, 4) to support different ranges of loads up to 225kg, with a 5:1 safety factor, each length has an end fixing and a Gripple. This Gripple allows the wire to be looped through whatever is needed to be supported, cable tray, lighting, signs, etc. and secured and at the correct length. Various end fixings allow Gripple Wire Suspension to be anchored to a wide variety of substrates and building structures. A key allows for adjustment of the drop length after installation.

Gripple Standard Wire Hanger

Looped at one end with a variety of different end fixings at the other. All Standard Hanger kits comes as a ready-to-use with wire Gripple fastener and a key. All Gripple Standard Wire hangers come in packs of 10.

End Fixing	Description	Thread	Length	Box Qty	No1 SWL (0-10kg)	No2 SWL (10-45 Kg)	No3 SWL (45-90 Kg)	No4 SWL (90-255 Kg)
Loop	Loop end is ideal for looping around Purlins, beams, roof trusses and other suitable building features. The loop end is the most versatile end fixing as the wire is able to be looped at both ends.		1m	10	**190601**	**190611**	**190623**	**190635**
			2m	10	**190603**	**190613**	**190625**	**190636**
			3m	10	**190604**	**190615**	**190627**	**190637**
			4m	10	**190605**	**190617**	**190629**	**190638**
			5m	10	**190606**	**190618**	**190630**	**190639**
			10m	10	**190610**	**190622**	**190634**	**190640**
Toggle	Toggle end is ideal for cladding, light fittings, luminaires and other cavities. The toggle end is best when used as a Y-fit to suspend lighting.		1m	10	**190668**	**190672**		
			3m	10	**190666**	**190670**		
			4m	10	**190675**	**936586**		
			5m	10	**936585**	**936587**		
Stud	Ideal for anchoring into concreate ceilings (with drop in anchors), metal decking and channel nuts.	M6	1m	10	**190653**	**190660**	**190665**	
			2m	10	**190652**	**190659**	**190664**	
			3m	10	**190651**	**190658**	**190663**	
			4m	10		**190657**	**190678**	
			5m	10		**190656**	**190662**	
			10m	10	**190676**	**190654**	**190679**	
		M8	1m	10		**190681**	**190771**	
			2m	10		**932327**	**190772**	
			3m	10		**190683**	**190773**	
			4m	10		**190684**	**190774**	
			5m	10		**190685**	**190775**	
			10m	10		**190680**	**190770**	
		M10	1m	10		**190781**	**190791**	**190951**
			2m	10		**190782**	**190792**	**190952**
			3m	10		**190783**	**190793**	**190953**
			4m	10		**190784**	**190794**	**190954**
			5m	10		**190785**	**190795**	**190955**
			10m	10		**190780**	**190790**	**190950**

Gripple Trapeze

Ideal for fast suspension of cable containment, pipework, air conditioning units. A discreet design to fit inside slotted channel. Pre fits onto channel to provide an easier solution to working at height. To suit loop end, stud end kits

Type	Max SWL (Kg)	Box Qty	JPL Code
2	45	10	**190688**
3	90	10	**190692**

Gripple Y Fit

Simple hanger with double hanging points, improves stability and centre of gravity.
Ideal for cable tray, basket or luminaires. One leg of the Y Fit can be detached to allow for side loadings of cables.
Snap hook is easily attached to cable tray or basket.
SWL: 10-45kg

Size	Box Qty	Leg Length	JPL Code
No2 x 1m	10	150mm	**191102**
No2 x 1m	10	300mm	**191101**
No2 x 2m	10	300mm	**937628**
No2 x 3m	10	300mm	**938926**

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Gripple Easylock

The Gripple Easylock system is ideal for anyone with a requirements of different lengths of 2mm diameter wire rope. The wire which is on a 100m drum can be cut to size using a wire cutter. The Easy Lock Housing works like the regular Gripple, housing two lines of wire rope.

Type	Box Qty	JPL Code
2mm Wire Rope Drum (100m Length)		**939775**
Easy Lock Fixing (45kg SWL)	50	**939774**

Gripple Anchors & Adaptors

Type	Description	Size	Max SWL (Kg)	Box Qty	JPL Code
Pigtail	Fast and secure anchor suitable for use with the loop end fixing and ideal to be screwed into a concrete anchor. Allows for the wire to be removed for maintenance.	M6 X 45mm	90	10	**190693**
		M8 x 45mm	150	10	**190699**
Spring Clip	Used for attaching to services such as trunking and lighting. To be used with Standard Hanger	For M6 and M8 holes	30	100	**190696**
Suspension Adaptor	Ideal for fixings to many services such as luminaires. Can be fixed into concrete using the Drop-In Anchors.	M8	225	10	**190694**
Concrete Wire Anchor	To support Gripple wire direct from non-cracked concrete or hard natural stone. Made from Stainless steel.	For M8 holes	45	100	**932326**
Installation Tool	For easy Gripple anchor installation				**936589**

Gripple Wire Cutters

Wire Cutters, hardened durable jaws. Two sizes available, for small 4mm diameter wire rope, or large, providing greater leverage for up to 6mm diameter wire rope.

Cuts	JPL Code
Up to 4mm (No's 1,2,3 & 4)	**190698**
Up to 6mm for use with cantenary wire	**190799**

Gripple Indoor Catenary Kit

Catenary kits secure, overhead spans by running high strength cables horizontally between two fixed points. Ideal for suspending M&E services, HVAC and signage.

Length	Box Qty	3mm (0-30kg) JPL Code	6mm (0-100kg) JPL Code
3m	1	**190961**	**190971**
5m	1	**190962**	**190972**
8m	1	**190963**	**190973**
10m	1	**190964**	**190974**
20m	1	**190965**	**190975**
30m	1	**190966**	**190976**
40m	1	**190967**	**190977**

Gripple C-Clip

An Innovative twist on device for hanging at any point along catenary wires. No tools needed for installation. Locks solidly into place even at angles up to 60°.

Length	Box Qty	3mm (0-30kg) JPL Code	6mm (0-100kg) JPL Code
3m	10	**190981**	**190991**
2m	10	**190982**	**190992**
3m	10	**190983**	**190993**
4mm	10	**190984**	**190994**
5mm	10	**190985**	**190995**
10mm	10	**190987**	**190997**

Wedge Nuts

V Wedge Nuts

V Wedge Nuts suitable for fitting into the slots of a variety of composite floor decking. Easy installation.

Standard V Wedge Nuts

Rod Size	Top Width	Box Qty	JPL Code
M6	25mm	100	**306384**
M8	25mm	100	**306385**
M10	25mm	100	**306386**
M12	25mm	100	**306387**

Mini V Wedge Nuts

Rod Size	Top Width	Box Qty	JPL Code
M6	21mm	100	**306390**
M8	21mm	100	**306391**
M10	21mm	100	**306392**

Mini-Mini V Wedge Nuts

Rod Size	Top Width	Box Qty	JPL Code
M6	18mm	100	**306660**
M8	18mm	100	**306661**

Decking Fixings

Lindapter AW- Alphawedge

The Alpha Wedge is designed to lock quickly and securely into the re-entrant channel of Alphalok or Ribdeck AL decking to enable the suspension of all types of building services using threaded rod. The product consists of two parts, a wedge and a plate. The wedge is tapped to accommodate threaded road sizes M6, M8 or M10, whilst the plate fits over the wedge to lock the assembly securely into the decking.

Lindapter Ref	Size	Box Qty	JPL Code
AW06	M6	50	**305440**
AW08	M8	50	**305441**
AW10	M10	50	**305442**

Lindapter MW2- Mulitwedge 2

The Multiwedge enables quick and easy suspension of building services from Ward Building Components' steel/concreate floor decking. Designed to work in harmony with the deck profile, MW2 eliminates the need for floor decking by avoiding any potential damage. No skilled labour is needed for installation or any special tooling. Once the fixing has been inserted into the re-entrant channel of the decking it can be laterally adjusted before the final tightening. The 'multi-nut' is tapped to accommodate threaded rod size M6, M8 or M10.

Lindapter Ref	Size	Box Qty	JPL Code
MW06	M6	50	**305450**
MW08	M8	50	**305451**
MW09	M10	50	**305452**

Lindapter TR60 Wedge

Ideal for the suspension of building services, the TR60 is designed for specific use with the SMD TR60 and TR80 decking profile. Once the wedge has been inserted into the re-entrant channel of the decking the plate can be locked into position.

Lindapter Ref	Size	Box Qty	JPL Code
TR6006	M6	50	**305456**
TR6008	M8	50	**305457**
TR6010	M10	50	**305458**

Lindapter MF Wedge

The Type MF is designed for Metfloor 60 & Metfloor 80 decking profiles to enable the suspension of all types of building services using threaded rod. The products consists of two parts, the Met-Nut and a plate. The Met-Nut is tapped to accommodate threaded rod sizes M6, M8 or M10, whilst the plate fits over the Met-Nut to lock the assembly securely into the decking.

Lindapter Ref	Size	Box Qty	JPL Code
MF06	M6	50	**305463**
MF08	M8	50	**305464**
MF10	M10	50	**305465**

Lindapter Toggle Clamp

The Toggle Clamp is designed for service suspension from pre-cast hollow core slabs (minimum depth of core 75mm) as well as SHS, steel sheeting or purlin.

Lindapter Ref	Size	Hole Ø	Box Qty	JPL Code
TC08	M8	22mm	100	**305466**
TC10	M10	26mm	100	**305467**

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Decking Fixings

Erico GTD Decking Clip

Erico GTD Dove tail decking clip supports the rod, up to M10 from decking. The spring steel design allows the clip to be easily installed.

Caddy Ref	Width of Tail	Static Load	Box Qty	JPL Code
M10GTD1217	12 – 17mm	900 N	100	**306517**
M10GTD1722	17 – 22mm	900 N	100	**306520**

Erico SCD Decking Clip

Erico SCD Decking Clip is an adaptor to fix up to two 24SC Erico snap clips to a dovetail deck. The spring steel design allows the clip to be easily installed.

Caddy Ref	Width of Tail	Box Qty	JPL Code
SCD1217	12 – 17mm	100	**306530**
SCD1722	17 – 22mm	100	**306531**

Uni-Wedge Decking Wedge

The Uni-Wedge provides a single solution to suspending from the seven most popular deck profiles in the UK. Identifying the decking profile being used is not always easy, this product takes away that problem, a simple grub screw is used to wedge the fixing into place. Three tapped holes are provided, M6, M8 & M10 allowing for suspension of different rod diameters. Suitable for Kingspan - Multi deck 60 & 80, Richard Lees - Rib deck 80, AL & E60 and SMD - TR60 & TR80.

Box Qty	JPL Code
100	**933261**

Flange & Beam Clamps

Lindapter Type FL Beam Clamp

Beam Clamp suitable for use with parallel or tapered flange beams, supplied with the back hole drilled or tapped. The type FL uses a hexagon head grade 8.8 cup point setscrew for secure grip.

Lindapter Ref	Hole Type	Hole Size	Clamping Thickness	SWL kN	Box Qty	JPL Code
FL108D	Plain	Ø 9mm	3 - 17mm	1.1	100	**305401**
FL108T	Tapped	M8	3 - 17mm	1.1	100	**306880**
FL210D	Plain	Ø 11mm	3 – 19mm	2.4	50	**305402**
FL210T	Tapped	M10	3 – 19mm	2.4	50	**306881**
FL312D	Plain	Ø13mm	3 – 23mm	3.1	50	**305403**
FL312T	Tapped	M12	3 – 23mm	3.1	50	**306882**

Lindapter FLS Swivel Beam Clamp

Beam flange clamp with swivel unit. For parallel and sloping flanges. Supplied with grade 8.8 setscrew for secure grip.

Lindapter Ref	Size	SWL (kN) Tensile <25°	SWL (kN) Tensile 25° to 45°	Clamping Thickness	Box Qty	JPL Code
FLS08	M8	2.5	1.5	3 – 17mm	25	**305410**
FLS10	M10	2.5	1.5	3 – 17mm	25	**305411**

Erico EBC Beam Clamp

The EBC Beam Clamp is a spring steel, light duty beam clamp which allows for easy installation.

Rod Size	Flange Thickness	Static Load	Box Qty	JPL Code
Up to M10	16mm Max	450 N	100	**306124**

Purlin Clamps

Z Purlin Clamp

A purlin clip designed to be used with a large range of purlins. Hole for M10 Rod. Safe working load is dependent upon the type of purlin the clip is applied to.

Box Qty	JPL Code
100	**305481**

Lindapter HCW30 Purlin Clip

The Lindapter purlin clip, HCW30 is suitable for horizontal purlins such as the Kingspan Multibeam 3.

Size	JPL Code
M10	**932495**

Erico Purlin Clamps

Erico Ref	Angle	Flange Thickness	Static Load N	Box Qty	JPL Code
D1	Straight	4mm max	600	100	**306118**
D2	Obtuse Angle 15°	4mm max	600	100	**306119**
D3	Reflex Angle 15°	4mm max	600	100	**306120**

Lindapter Steelwork Fixings

Lindapter Steel Work Fixings Type A & B

The Steelwork fixings are designed to be used with a grade 8.8 bolt to form hook bolts which facilitate the connection of steelwork, or to fabricate special clips. Both products feature a skirt, which rests against the flange and prevents the fixing rotating, and a tail, the length of which, long, medium or short must be chosen to suit the thickness of the flange being gripped.

Type A Recessed Clamp

Type A has a recessed top to hold the bolt head captive whilst the nut is tightened. Zinc Plated
Also available in HDG

Size	Short Tail Length	Short Tail JPL Code	Medium Tail Length	Medium Tail JPL Code	Long Tail Length	Long Tail JPL Code	Box Qty
M10	4	**305002**	5	**305010**	7	**305018**	100
M12	4.5	**305003**	6	**305011**	9.5	**305019**	100
M16	5.5	**305004**	8	**305012**	11	**305020**	50
M20	7	**305005**	10	**305013**	12.5	**305021**	50
M24	9	**305006**	12	**305014**	16	**305022**	50

Type B Flat Top Clamp

Type B has a flat top which allows the bolt head or nut to be rotated. Type B is suitable for use with all bolts, studs, tie rods and hook bolts. Zinc Plated

Size	Short Tail Length	Short Tail JPL Code	Medium Tail Length	Medium Tail JPL Code	Long Tail Length	Long Tail JPL Code	Box Qty
M10	4	**305031**	5	**305039**	7	**305047**	100
M12	4.5	**305032**	6	**305040**	9.5	**305048**	100
M16	5.5	**305033**	8	**305041**	11	**305049**	50
M20	7	**305034**	10	**305042**	12.5	**305050**	50
M24	9	**305035**	12	**305043**	16	**305051**	50

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Lindapter Type AF High Friction Clamp

High friction clamp with recessed top to hold the bolt head captive whilst the nut is tightened. Can be combined with type CF. The skirt prevents the clamp rotating during installation. The tail of the AF spans across slotted holes. For flanges up to 10°.
Hot Dipped Galvanized.

Size	Short Tail JPL Code	Medium Tail JPL Code	Box Qty
M12	**305151**	**305152**	100
M16	**305007**	**305008**	50
M20	**305153**	**305154**	50
M24	**305155**	**305156**	50

Lindapter Type LR Self Adjusting Clamp

Self adjusting clamp for various flange thicknesses and slopes up to 15°. The leg of the saddle prevents the clamp rotating during installation. The LR tail spans slotted holes.

Size	JPL Code
M10	**305091**
M12	**305092**
M16	**305093**
M20	**305094**
M24	**305095**

Lindapter Type D2 Adjustable Clamp With Recessed Setscrew Tail

Adjustable clamp incorporating a setscrew tail to accommodate a wide range of flange thicknesses. The type D2 has a recessed head to hold the bolt head captive. The skirt prevents the clamp rotating during installation. Suitable for flanges up to 5°.

Size	JPL Code
M10	**305105**
M12	**305106**
M16	**305107**
M20	**305108**

Lindapter Washers and Packing for Clamps

Clipped washers and Packing used to adjust the tail length of various steelwork clamps (see related components) to meet differing beam flange thicknesses.

CW Clipped Washer For Type A & B Clamps

Zinc Plated

Size	Width	Thickness	JPL Code
M8	19mm	2mm	**305060**
M10	25mm	2mm	**305061**
M12	31mm	2.5mm	**305062**
M16	38mm	3mm	**305063**
M20	44mm	4mm	**305064**
M24	57mm	4mm	**305065**

P1 & P2 Type A & B Clamps

Zinc Plated

Size	Width	Type	Thickness	Short JPL Code	Long JPL Code
M8	21mm	P1	4mm	**305500**	
		P2	8mm	**305520**	
M10	24mm	P1	5mm	**305501**	**305511**
		P2	10mm	**305521**	**305531**
M12	30mm	P1	6mm	**305502**	**305512**
		P2	12mm	**305522**	**305532**
M16	35mm	P1	8mm	**305503**	**305513**
		P2	16mm	**305523**	**305533**
M20	43mm	P1	10mm	**305504**	**305514**
		P2	20mm	**305524**	**305534**
M24	54mm	P1	12mm	**305505**	**305515**
		P2	24mm	**305525**	**305535**

Lindapter Type CF High Friction Clamp

High friction clamp which hooks over flanges of I-beams, angles and channels. Lindapter markings act as a unique anti-rotation device. Can be combined with all Lindapter Girder Clamp products including type AF.
Hot Dipped Galvanized

Size	JPL Code
M12	**305459**
M16	**305460**
M20	**305461**

The original expansion bolt for structural steel. Suitable for hollow sections, tubes and where access is available from one side only. For corrosion protection the Hollo-Bolt® comes with additional JS500 protection as standard or hot dip galvanised. Sizes M16 and M20 have a patented High Clamping Force (HCF) mechanism for optimised clamping force. Speedy installation with standard tools.

Hex Head and Countersunk Hollo-Bolt

Size	Clamping Thickness	Hex Head JPL Code	Countersunk JPL Code
M8	3mm – 22mm	**305111**	**305126**
	22mm – 41mm	**305116**	**305130**
	41mm – 60mm	**305121**	**305134**
M10	3mm – 22mm	**305112**	**305127**
	22mm – 41mm	**305117**	**305131**
	41mm – 60mm	**305122**	**305135**
M12	3mm – 25mm	**305113**	**305128**
	25mm – 47mm	**305118**	**305132**
	47mm – 69mm	**305123**	**305136**
M16	12mm – 29mm	**305114**	**305129**
	29mm – 50mm	**305119**	**305133**
	50mm – 71mm	**305124**	**305137**
M20	12mm – 34mm	**305115**	
	34mm – 60mm	**305120**	
	60mm – 86mm	**305125**	

Flush Fit Hollo-Bolt

Size	Clamping Thickness	JPL Code
M8	10mm – 27mm	**305138**
	27mm – 45mm	**305141**
	45mm – 64mm	**305144**
M10	12mm – 27mm	**305139**
	27mm – 45mm	**305142**
	45mm – 64mm	**305145**
M12	12mm – 30mm	**305140**
	30mm – 52mm	**305143**
	52mm – 74mm	**305146**

Hex Head

Countersunk

Flush Fit

For vertical suspension on angled surface of up to 10° swing either side of the vertical. The hemispherical washer (HW) can be used without the cup. Loads are subject to applications. Zinc Plated

Size	Washer JPL Code	Cup JPL Code
M10	**305192**	**305180**
M12	**305193**	**305181**
M16	**305194**	**932503**
M20	**305195**	**936400**
M24	**305196**	

Erico H Clip

The CADDY H Clip range is designed for suspending or attaching wire, S-hooks, chain, cables etc. to metal beams. Diameter of hole: 7.1mm

Caddy Ref	Beam or Purlin Thickness	Static Load	Box Qty	JPL Code
2H4	2 - 3 mm	700N	100	**306326**
4H24	3 - 8 mm	900N	100	**306328**
4H58	8 - 14 mm	900N	100	**306330**
4H912	14 - 20mm	900N	100	**306332**

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Erico H- TI Clip

The CADDY H-Ti Clip range is a hammer on clip designed for suspending M6, M8 or M10 screwed rod (studding) from metal beams.

Caddy Ref	Flange Thickness mm	Static Load	Hole Size	Box Qty	JPL Code
M6TI4	2 – 3	700N	M6	100	**306587**
M6TI24	3 – 8	900N	M6	100	**306588**
M6TI58	8 – 14	900N	M6	100	**306589**
M6TI912	14 – 20	900N	M6	100	**306590**
M8TI4	2 – 3	700N	M8	100	**306591**
M8TI24	3 – 8	900N	M8	100	**306592**
M8TI58	8 – 14	900N	M8	100	**306593**
M8TI912	14 – 20	900N	M8	100	**306594**
M10TI4	2 – 3	700N	M10	100	**306595**
M10TI24	3 – 8	900N	M10	100	**306596**
M10TI58	8 – 14	900N	M10	100	**306597**
M10TI912	14 – 20	900N	M10	100	**306598**

Erico EM Clip

The CADDY EM Clip range is a hammer on clip designed for horizontal or vertical hanging of M6 screwed rod (studding) from metal beams.

Caddy Ref	Flange Thickness mm	Static Load	Box Qty	JPL Code
EM24	3 – 8	450N	100	**306182**
EM58	8 – 14	450N	100	**306183**
EM912	14 – 20	450N	100	**306184**

Erico EM-M Clip

The CADDY EM-M Clip range is a hammer on clip with an integrated pipe clamp for suspension from metal beams.

Caddy Ref	Flange Thickness mm	OD of Suitable Conduit	Static Load	Box Qty	JPL Code
812EM24	3 – 8	18 – 30mm	330N	100	**306212**
812EM58	8 – 14	18 – 30mm	330N	100	**306213**
812EM912	14 – 20	18 – 30mm	330N	100	**316214**

Erico EM-SM Clip

The CADDY EM-SM clip is a hammer on Clip with a bottom mounted stud. Can be used to support boxes, fixtures or other applications from beam flanges. The captive M6 threaded stud minimizes the need for additional hardware. Assorted attachment points provided including a hanging point for M6 screwed rod to reduce inventory. Requires only a hammer to install.

Caddy Ref	Stud Size	Flange Thickness mm	OD of Suitable Conduit	Box Qty	JPL Code
EM24SM	M6	3 – 8	330N	100	**306188**
EM58SM	M6	8 – 14	330N	100	**306189**
EM912SM	M6	14 – 20	330N	100	**306190**

Erico 112-TI Hanger

The 112-TI Hammer-on hanger clip provides a method for attaching rod direct to purlin.

Erico Ref	Rod Size	Flange Thickness mm	Static Load	Box Qty	JPL Code
122M6TI	M6	2.8mm Max	450N	100	**306599**
122M8TI	M8	2.8mm Max	450N	100	**306600**
122M10TI	M10	2.8mm Max	450N	100	**306601**

Erico J Hanger

The Erico J Hanger provides an attachment for CADDY SPEED LINK assemblies, wire, S-hooks, or chain from purlin and bar joist. Requires only a hammer to install.

Erico Ref	Flange Thickness	Hole Size	Box Qty	JPL Code
J1	1.5 – 4.0mm	6.8mm	100	**306404**
J2	4.0 – 6.5mm	6.8mm	100	**306405**

Erico J-TI Hanger

Attaches to joists and C purlin to support threaded rod. The threaded rod hanger can swivel to provide a vertical dropdown.

Erico Ref	Static Load	Flange Thickness	Hole Size	Box Qty	JPL Code
M6TIJ1	700N	1.5 – 4.0mm	6mm	100	**306605**
M6TIJ2	700N	4.0 – 6.5mm	6mm	100	**306608**
M8TIJ1	700N	1.5 – 4.0mm	8mm	100	**306606**
M8TIJ2	700N	4.0 – 6.5mm	8mm	100	**306609**
M10TIJ1	700N	1.5 – 4.0mm	10mm	100	**306607**
M10TIJ2	700N	4.0 – 6.5mm	10mm	100	**306610**

Erico T Grid Twist Clips

Supports electrical fixtures from acoustical 24mm T-grid. Fast, easy and secure twist-on installation. 6WN Nut sold separately.

Erico 4G16 Twist Clip

Erico Ref	Static Load	Flange Thickness	Screw Diameter	Screw Length	Box Qty	JPL Code
4G16M11	200N	1.5mm	M6	11mm	100	**306307**
4G16M16	220N	1.5mm	M6	16mm	100	**306308**
4G16M25	220N	1.5mm	M6	25mm	100	**306309**
4G16M38	220N	1.5mm	M6	38mm	100	**306310**
4G16M76	220N	1.5mm	M6	76mm	100	**306312**

Erico 4G24 Twist Clip

Erico Ref	Static Load	Flange Thickness	Screw Diameter	Screw Length	Box Qty	JPL Code
4G24M11	220N	1.5mm	M6	11mm	100	**306315**
4G24M16	220N	1.5mm	M6	16mm	100	**306316**
4G24M25	220N	1.5mm	M6	25mm	100	**306317**
4G24M38	220N	1.5mm	M6	38mm	100	**306318**
4G24MWN (wing nut included)	220N	1.5mm	M6	16mm	100	**306325**

Erico 6WN Nut

Large diameter allows the use of knock-outs as mounting points. Combination wing nut and washer.

Erico Ref	Static Load	Hole Size	Box Qty	JPL Code
6WN	450N	M6	100	**306493**

Erico 4Z34 Multifunction Clip

The multifunction 4Z34 clip provides attachment of conduit and boxes onto threaded rod or on to a beam.

Erico Ref	Static Load	Flange Thickness	Rod Size	Box Qty	JPL Code
4Z34	90N	3.0 – 9.0	M4 – M8	100	**306415**
6Z34	90N	9.5 – 11.1	M6 – M10	100	**306449**

Erico 4Z34 CTS Clip

The 4Z34 CTS clip provides attachment of cable tray up to 68mm wide onto threaded rod or on to a beam.

Erico Ref	Static Load	Rod Size	Box Qty	JPL Code
4Z34CTS	110N	M4 – M8	50	**306450**
6Z34CTS	110N	M8 – M12	50	**306451**

Erico 4Z34-M Clip

The 4Z34-M Clip is designed to attach conduit and boxes off threaded rod. Conduit can easily be removed once clip is installed.

Erico Ref	Outer Dia of Conduit	Rod Size	Box Qty	JPL Code
4Z34812M	12.7 – 19.1mm	M10	100	**306453**

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Erico Ceiling Wall Threaded Rod Clips

Erico K Clip

The Erico K Clip supports conduit to rod, wire or flange. It can also be used for flexible metallic tubing, armoured cable, portable cables, control tubes and communications cable. The static load are dependent upon whether the clip is fixed to the screwed rod, vertical or horizontal beam. Available for EMT, rigid, ENT, IMT, MC/AC and aluminium conduit. No installation tools required.

Erico Ref	Outer Diameter	Box Qty	JPL Code
K8	18mm max	100	**306417**
K12	24mm max	100	**306418**
K16	30mm max	100	**306419**
K20	42mm max	100	**306420**

Erico B-TI Clip

The B-TI suspends threaded rod from horizontal structures such as laminated wood or concrete beams, joists, ceilings and walls.

Erico Ref	Rod Size	Static Load	Box Qty	JPL Code
M6TIB	M6	700N	100	**306602**
M8TIB	M8	700N	100	**306603**
M10TIB	M10	700N	100	**306604**

Erico TSGB

The TSGB telescoping screw gun box bracket can mount multiple boxes and pipes off a stud wall. Notched and marked for easy identification and bending. Pilot holes allow easy box attachment with a screwdriver.

Erico Ref	Length	Box Qty	JPL Code
TSGB16	280-458	50	**187190**
TSGB1624	400-635	50	**187199**
TSGB24	432 -660	50	**187191**

Type	Box Qty	JPL Code
Self Drilling wafer head Screw: Suitable for screw gun use and ideal for TSGB system. 4mm x 12mm (8 x ½")	100	**187197**

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Pipe Supports

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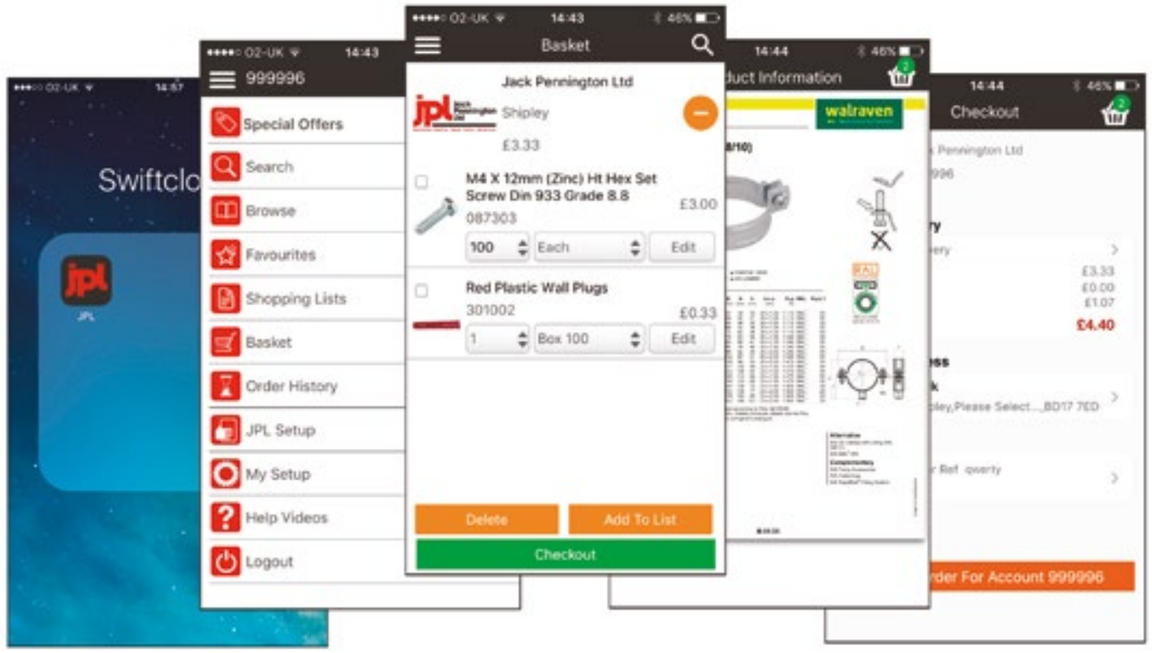

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Bismat Flash Lined Pipe Clamp

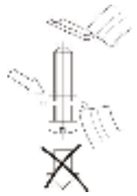
walraven BIS – Better Installation Systems

The Bismat Flash is a single screw pipe clamp with quick locking system to help save time on installation. The locking screw can be secured by one simple thumb push as opposed to the usual screw and screwdriver approach. No tools are required for installation. The Bismat Flash is suitable for fixing all types of metal pipes with a diameter 15mm up to and including 56mm and comes with an EPDM noise insulating lining. Bismat Flash pipe clamps have been independently fire tested and certified RAL-GZ 656. All Bismat Flash are M8/M10 bossed.

Diameter	Bossed	Box Qty	JPL Code
15mm – 18mm	M8/M10	50	**307170**
20mm – 23mm	M8/M10	50	**307171**
25mm – 28mm	M8/M10	50	**307172**
32mm – 35mm	M8/M10	50	**307173**
40mm – 43mm	M8/M10	50	**307174**
48mm – 51mm	M8/M10	50	**307175**
53mm – 56mm	M8/M10	50	**307176**

2S Double Fix Lined Pipe Clamp

walraven BIS – Better Installation Systems



The 2S Double Fix lined pipe clamp is a traditional two screw, lined, zinc plated steel pipe clamp with washers to prevent the loss of the screws. The clamp is lined with noise insulating EPDM lining suitable for metal pipes 15mm-168mm. The dual M8/M10 boss allows connection to M8 or M10 studs/rod.

Diameter	Bossed	Box Qty	JPL Code
15mm – 19mm	M8/M10	50	**307151**
20mm – 23mm	M8/M10	50	**307152**
25mm – 28mm	M8/M10	50	**307153**
32mm – 35mm	M8/M10	50	**307154**
38mm – 43mm	M8/M10	50	**307155**
44mm – 49mm	M8/M10	50	**307156**
50mm – 56mm	M8/M10	50	**307157**
57mm – 63mm	M8/M10	50	**307158**
63mm – 67mm	M8/M10	50	**307159**
70mm – 73mm	M8/M10	50	**307166**

Diameter	Bossed	Box Qty	JPL Code
74mm – 80mm	M8/M10	50	**307160**
81mm – 86mm	M8/M10	50	**939855**
83mm – 91mm	M8/M10	25	**307161**
101mm – 106mm	M8/M10	25	**939856**
108mm – 114mm	M8/M10	25	**307162**
125mm – 132mm	M8/M10	25	**307167**
131mm – 135mm	M8/M10	25	**307163**
136mm – 139mm	M8/M10	25	**307164**
159mm – 168mm	M8/M10	10	**307165**

Bifix 5000 Low Friction Lined Pipe Clamp For Plastic Pipe

walraven BIS – Better Installation Systems

The Bifix 5000 G2 low friction pipe clamp is a noise insulating two screw pipe clamp, with quick locking system. This product is part of the new BIS UltraProtect 1000 system, withstanding 1000 hours salt spray testing and Corrosion resistant C1 – C4. The 5000 G2 is suitable for fixing plastic pipes with diameters ranging from 16mm-160mm. The inner part of the green EPDM rubber lining is smooth to improve the sliding of the pipe in the clamp and the rubber is also formulated not to react or damage the plastic pipe. The zinc plated steel clamp has a M8/M10 boss.

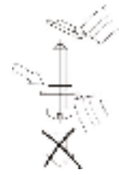
Diameter	Bossed	Box Qty	JPL Code
16mm	M8/M10	50	**307551**
20mm	M8/M10	50	**307552**
25mm	M8/M10	50	**307553**
32mm	M8/M10	50	**307554**
40mm	M8/M10	50	**307555**
50mm	M8/M10	50	**307556**
56mm	M8/M10	50	**307562**

Diameter	Bossed	Box Qty	JPL Code
63mm	M8/M10	50	**307557**
75mm	M8/M10	25	**307558**
90mm	M8/M10	25	**307559**
110mm	M8/M10	25	**307560**
125mm	M8/M10	25	**307563**
135mm	M8/M10	25	**307564**
160mm	M8/M10	10	**307561**

2S Unlined Pipe Clamp

walraven BIS – Better Installation Systems

The 2S unlined pipe clamp is a traditional steel, zinc plated pipe clamp with two screw fastening. The screws have a washer to prevent loss. Suitable for steel pipes with diameters ranging from 15mm to 219mm. The clamp comes with a M8/M10 bossed welded connecting nut.



Diameter	Bossed	Box Qty	JPL Code
15mm – 17mm	M8/M10	50	**307100**
18mm – 23mm	M8/M10	50	**307101**
25mm – 28mm	M8/M10	50	**307102**
31mm – 35mm	M8/M10	50	**307103**
40mm – 43mm	M8/M10	50	**932574**
41mm – 45mm	M8/M10	50	**307105**
44mm – 49mm	M8/M10	50	**307115**
50mm – 56mm	M8/M10	50	**932575**
58mm – 62mm	M8/M10	50	**307107**
62mm – 68mm	M8/M10	50	**307116**
75mm – 76mm	M8/M10	50	**307109**
79mm – 85mm	M8/M10	50	**307117**
85mm – 89mm	M8/M10	50	**307111**
90mm – 94mm	M8/M10	50	**307119**
100mm – 105mm	M8/M10	50	**307120**

Diameter	Bossed	Box Qty	JPL Code
106mm – 111mm	M8/M10	25	**307121**
114mm – 118mm	M8/M10	25	**307118**
118mm – 125mm	M8/M10	25	**307122**
122mm – 127mm	M8/M10	25	**307123**
129mm – 134mm	M8/M10	25	**307124**
139mm – 144mm	M8/M10	25	**307113**
146mm – 151mm	M8/M10	25	**307125**
150mm – 155mm	M8/M10	25	**307126**
157mm – 162mm	M8/M10	25	**307127**
164mm – 169mm	M8/M10	25	**307114**
172mm – 180mm	M8/M10	25	**307128**
180mm – 190mm	M8/M10	25	**939861**
190mm – 200mm	M8/M10	20	**969865**
212mm – 219mm	M8/M10	20	**969866**

HD 500 Heavy Duty Unlined Pipe Clamp

walraven BIS – Better Installation Systems

The 500 HD heavy duty unlined pipe clamp is a two part steel clamp with two locking bolts on each side. Locking nuts on both sides of clamp are captive, hidden in plastic holder which can provide quicker installation and prevents the need to buy replacement nuts which may be lost during installation. The plastic also gives a protective coat to the nut to help prevent corrosion. The bolts are also secured with anti-loss washer. The boss is CO2 welded and zinc plated to support extra pressure exerted from heavier loading. Tested for fire safety.

Diameter	Bossed	Box Qty	JPL Code
19mm – 23mm	M8/M10	25	**307130**
25mm – 30mm	M8/M10	25	**307131**
31mm – 36mm	M8/M10	25	**307132**
40mm – 45mm	M8/M10	25	**307148**
47mm – 52mm	M8/M10	25	**307134**
53mm – 58mm	M8/M10	25	**307146**
59mm – 65mm	M8/M10	25	**307135**
66mm – 71mm	M8/M10	25	**307136**
72mm – 78mm	M10/M12	25	**307137**
79mm – 85mm	M10/M12	25	**307138**

Diameter	Bossed	Box Qty	JPL Code
86mm – 92mm	M10/M12	25	**932589**
98mm – 106mm	M10/M12	25	**307139**
108mm – 116mm	M10/M12	25	**307140**
125mm – 133mm	M10/M12	25	**307141**
148mm – 154mm	M10/M12	15	**307142**
198mm – 202mm	M10/M12	15	**307143**
208mm – 219mm	M10/M12	15	**307144**
217mm – 227mm	M10/M12	2	**307145**
229mm – 241mm	M16	2	**307182**
244mm – 254mm	M16	2	**307183**

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Macrofix 250 Lined Pipe Clamp

The Erico Caddy Macrofix 250 clamp has a EPDM rubber lining for sound insulation compliance with DIN 4109. The two screws have a hexagonal head with additional slotted and crosshead drives, with a washer to prevent loss. The Macrofix 250 has the European tested fire resistance rating EN13501-1. The clamp is M8/M10 bossed.

Diameter	Bossed	Box Qty	JPL Code
12mm – 15mm	M8/M10	100	**306910**
15mm – 19mm	M8/M10	100	**306911**
20mm – 24mm	M8/M10	100	**306912**
25mm – 30mm	M8/M10	100	**306913**
32mm – 37mm	M8/M10	100	**306914**
40mm – 45mm	M8/M10	50	**306915**
48mm – 53mm	M8/M10	50	**306916**
54mm – 58mm	M8/M10	50	**306917**
59mm – 63mm	M8/M10	50	**306918**
62mm – 64mm	M8/M10	50	**306952**
68mm – 73mm	M8/M10	25	**306919**
75mm – 80mm	M8/M10	25	**306920**

Diameter	Bossed	Box Qty	JPL Code
82mm – 86mm	M8/M10	25	**306921**
89mm – 91mm	M8/M10	25	**306922**
95mm – 103mm	M8/M10	25	**306923**
108mm – 116mm	M8/M10	25	**306924**
121mm – 127mm	M8/M10	25	**306925**
129mm – 135mm	M8/M10	25	**306926**
133mm – 141mm	M8/M10	25	**306927**
159mm – 162mm	M8/M10	25	**306928**
165mm – 168mm	M8/M10	25	**306929**
198mm – 202mm	M8/M10	10	**932555**
210mm – 215mm	M8/M10	10	**932556**
216mm – 220mm	M8/M10	10	**932557**

Macrofix Plus LF Lined Pipe Clamp For Plastic Pipe

The Erico Caddy Macrofix Plus LF low-friction clamp includes an easy closing mechanism on one side and a multi-function screw with a hexagonal, slotted and cross head. The EPDM rubber lining for sound insulation is in compliance with DIN 4109. An age resistant lining is designed specifically for plastic pipe applications. The low-friction properties allow for expansion, contraction and easy sliding of plastic pipe. Has fire rating EN13501-1. All clamps are M10 bossed.

Diameter	Bossed	Box Qty	JPL Code
14mm – 19mm	M10	100	**932540**
18mm – 23mm	M10	100	**932541**
23mm – 28mm	M10	100	**932542**
30mm – 35mm	M10	100	**932543**
38mm – 43mm	M10	50	**932544**
48mm – 53mm	M10	50	**932545**
54mm – 59mm	M10	50	**932546**

Diameter	Bossed	Box Qty	JPL Code
60mm – 66mm	M10	50	**932547**
73mm – 78mm	M10	25	**932548**
88mm – 93mm	M10	25	**932549**
108mm – 113mm	M10	25	**932550**
123mm – 128mm	M10	25	**932551**
138mm – 143mm	M10	25	**932552**
158mm – 163mm	M10	20	**932553**

Macrofix 250 Unlined Pipe Clamp

The Erico Caddy Macrofix 250 unlined steel pipe clamp is zinc plated with a standard two screw fastening system with multifunctional hexagonal, slotted and crosshead screws, with washers to prevent loss.
Suitable for pipe Ø 14mm-315mm, has a dual M8/M10 boss

Diameter	Bossed	Box Qty	JPL Code
14mm – 18mm	M8/M10	100	**306930**
20mm – 26mm	M8/M10	100	**306931**
23mm – 30mm	M8/M10	100	**306932**
33mm – 40mm	M8/M10	100	**306934**
41mm – 47mm	M8/M10	100	**306935**
48mm – 54mm	M8/M10	50	**306936**
56mm – 62mm	M8/M10	50	**306937**
62mm – 69mm	M8/M10	50	**306938**
67mm – 71mm	M8/M10	50	**306939**
69mm – 78mm	M8/M10	25	**306940**
76mm – 84mm	M8/M10	25	**932561**
85mm – 91mm	M8/M10	25	**306941**
90mm – 98mm	M8/M10	25	**306942**
97mm – 107mm	M8/M10	25	**306943**
104mm – 110mm	M8/M10	25	**306944**
108mm – 116mm	M8/M10	25	**306945**

Diameter	Bossed	Box Qty	JPL Code
116mm – 126mm	M8/M10	25	**306946**
129mm – 140mm	M8/M10	25	**306947**
133mm – 141mm	M8/M10	25	**306948**
144mm – 154mm	M8/M10	25	**306949**
155mm – 159mm	M8/M10	25	**936697**
159mm – 168mm	M8/M10	25	**306950**
169mm – 176mm	M8/M10	25	**306951**
174mm – 184mm	M8/M10	25	**936698**
184mm – 195mm	M8/M10	25	**938558**
196mm – 207mm	M8/M10	25	**932562**
207mm – 218mm	M8/M10	10	**938559**
217mm – 227mm	M8/M10	10	**938560**
230mm – 240mm	M8/M10	10	**936704**
240mm – 250mm	M8/M10	10	**936702**
274mm – 280mm	M8/M10	10	**936703**
314mm – 316mm	M8/M10	10	**306955**

BIS StarQuick Plastic Pipe Clamp

A one-part clamp that closes by pushing the pipe into the clamp. Suitable for outdoor use and installations in aggressive environments such as swimming pool environments, chemical factories, galvanizing factories, etc. Due to a patented profile it is possible to tack several clamps to each other. Made of plastic (modified PA6 polyamide), it is also recyclable. The clamp is resistant to UV ageing, oil and petrol and is halogen free. Temperature resistance from approx. -40 °C to approx. +90 °C (constant); short to approx. +130 °C. All clamps and accessories are grey in colour.

Ref	Diameter	Box Qty	JPL Code
SQ15	15 – 16mm	100	**303011**
SQ17	16 – 20mm	100	**303012**
SQ20	20 – 23mm	50	**303013**
SQ25	24 – 28mm	50	**303014**
SQ28	28 – 32mm	50	**303015**
SQ32	32 – 35mm	50	**303016**

Ref	Diameter	Box Qty	JPL Code
SQ36	35 – 40mm	25	**303017**
SQ40	40 – 44mm	25	**303018**
SQ47	44 – 50mm	25	**303019**
SQ51	48 – 55mm	15	**303020**
SQ59	59 – 65mm	15	**303021**

BIS StarQuick Duo-Wall Plate

Description	Box Qty	JPL Code
For fixing of two BIS StarQuick Clamps with only one screw. It is suitable for BIS StarQuick Clamps up to SQ-20. The distance between the pipe and the wall is equal to that of a single clip.	100	**303025**
As above plus a M6 x 40mm hammer-in fixing.	50	**303026**

BIS StarQuick Distance Block

Description	Box Qty	JPL Code
To fix a StarQuick fixing at a distance to the structure. Use a screw of at least 55mm. It is suitable for 15mm – 16mm clamps up to 35mm - 40mm clamps. For a larger stand-off, distance blocks can be clicked together.	25	**303027**

BIS StarQuick Fixing Nut

Description	Size	Box Qty	JPL Code
To make a threaded connection into a StarQuick® Clamp.	M6	100	**303028**
Nut fully integrates into clamp with no protrusion.	M8	100	**303029**

BIS StarQuick Strut Adaptor

Description	Box Qty	JPL Code
Suitable for BIS StarQuick Clamps up to 32mm – 35mm. For fixing of a BIS StarQuick Clamp on Strut Rail. The BIS StarQuick Clamp must be fixed to the Strut Adaptor by means of a Rail Adaptor (included).	100	**936998**

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Universal Pipe Clamp

The Gripple pipe clamp is suitable for pipe with nominal diameters 10-65mm (3/8"-2 ½"), wire length is 350mm.
A pad on the base of the clamp stops movement and is supplied with a retractable insulated sleeve to cover the wire.
The universal clamp is a great solution for minimizing pipe clamp storage and waste as it has the ability to replace more than 11 pipe clamp sizes whilst having a S.W.L 1-45kg load and a safety factor of 5:1.No tools required for installation. Dual M8/M10 bossed connector.

Type	Bossed	Box Qty	JPL Code
With Insulating Sleeve	M8/M10	10	**190642**

Channel Pipe Clamp

A two piece, pre galvanized pipe clamp that clamps pipes directly to Unistrut or equivalent channel.

Ref	Clamp Range	Box Qty	JPL Code
M1108	8.7 – 10.3mm	100	**303701**
M1109	10.3 – 12.7mm	100	**303702**
M1110	11.9 – 13.5mm	100	**303703**
M1111	13.5 – 14.3mm	100	**303704**
M1112	14.3 – 16.7mm	100	**303705**
M1113	15.9 – 18.3mm	100	**303706**
M1114	18.3 – 20.6mm	100	**303707**
M1115	19.0 – 21.4mm	100	**303708**
M1116	21.4 – 25.4mm	100	**303709**
M1117	25.4 – 27.8mm	100	**303710**
M1118	27.0 – 30.2mm	100	**303711**
M1119	30.2 – 33.8mm	100	**303712**
M1120	31.8 – 35.9mm	100	**303713**
M1121	34.9 – 39.7mm	100	**303714**
M1122	39.7 – 42.9mm	100	**303715**
M1123	42.9 – 46.8mm	100	**303716**
M1124	46.8 – 50.8mm	50	**303717**
M1125	48.4 – 52.4mm	50	**303718**
M1126	52.4 – 58.7mm	50	**303719**
M1127	58.7 – 63.5mm	50	**303720**
M1128	63.5 – 68.3mm	50	**303721**
M1129	68.3 – 73.0mm	50	**303722**
M1130	73.0 – 79.4mm	50	**303723**

Ref	Clamp Range	Box Qty	JPL Code
M1131	76.2 – 82.6mm	50	**303724**
M1132	82.6 – 88.1mm	50	**303725**
M1133	88.1 – 95.2mm	50	**303726**
M1134	95.2 – 100.0mm	25	**303727**
M1135	100.0 – 106.4mm	25	**303728**
M1136	106.4 – 111.1mm	25	**303729**
M1137	111.1 – 120.7mm	25	**303730**
M1138	120.7 – 129.4mm	25	**303731**
M1139	129.4 – 138.1mm	25	**303732**
M1140	138.1 – 149.2mm	25	**303733**
M1141	149.2 – 161.9mm	25	**303734**
M1142	161.9 – 174.6mm	25	**303735**
M1143	174.6 – 182.6mm	25	**303736**
M1144	182.6 – 190.5mm	10	**303737**
M1145	190.5 – 203.2mm	10	**303738**
M1146	203.2 – 212.7mm	10	**303739**
M1147	212.7 – 225.4mm	10	**303740**
M1148	225.4 – 238.1mm	10	**303741**
M1149	238.1 – 250.8mm	10	**303742**
M1150	250.8 – 263.5mm	10	**303743**
M1151	263.5 – 276.2mm	10	**303744**
M1152	275.2 – 288.9mm	10	**303745**
M1155	314.3 – 327.0mm	10	**303746**

Channel Cushion Pipe Clamp

Erico Caddy cushion pipe clamp fits into open side of strut channel. The rubber like cushion withstands most oils, chemicals and industrial cleaning compounds. The clamp is hinged to spread apart for easy installation. The cushion reduces noise and absorbs vibration by gripping the pipe/tube firmly. The square neck of carriage bolt prevents over-tightening and comes with a nyloc locknut prevents loosening under vibration.

Pipe OD Imperial	Pipe OD Metric	Box Qty	JPL Code
1/4"	6.4mm	25	**932782**
1/2"	12.7mm	25	**932767**
5/8"	15.7mm	25	**932768**
3/4"	19.1mm	25	**932769**
7/8"	22.1mm	25	**932770**
1"	25.4mm	25	**932771**
1.1/8"	28.4mm	25	**932772**

Pipe OD Imperial	Pipe OD Metric	Box Qty	JPL Code
1.1/4"	31.8mm	25	**932773**
1.3/8"	34.8mm	25	**932774**
1.1/2"	38.1mm	25	**932775**
1.5/8"	41.1mm	25	**932776**
1.7/8"	47.5mm	25	**932778**
2.1/8"	53.8mm	25	**932780**
2.5/8"	66.5mm	25	**932783**

Strap Hangers

A pre-galvanised strap hanger to be used with steel and PVC pipe. The strap hanger carries FM approval for use in fire sprinkler installations. Hexagon nuts not included.

Pipe NB	JPL Code
25mm NB (34mm OD)	**305370**
32mm NB (43mm OD)	**305371**
40mm NB (48mm OD)	**305372**
50mm NB (60mm OD)	**305373**
65mm NB (76mm OD)	**305374**

Pipe NB	JPL Code
80mm NB (89mm OD)	**305375**
100mm NB (113mm OD)	**305376**
125mm NB (139mm OD)	**305377**
150mm NB (165mm OD)	**305378**
200mm NB (219mm OD)	**305379**

NB Steel Pipe Split Band Clip

Type IH100: zinc plated, for steel pipe. The split band has a standard fixing of 2 x hexagon bolts and nuts.

Pipe NB Metric	Pipe NB Imperial	Bolt Size	JPL Code
15mm	½"	M6 x 25mm	**307301**
20mm	¾"	M6 x 25mm	**307302**
25mm	1"	M6 x 25mm	**307303**
32mm	1¼"	M10 x 30mm	**307304**
40mm	1½"	M10 x 30mm	**307305**
50mm	2"	M10 x 30mm	**307306**
65mm	2½"	M10 x 30mm	**307307**

Pipe NB Metric	Pipe NB Imperial	Bolt Size	JPL Code
80mm	3"	M10 x 30mm	**307308**
100mm	4"	M12 x 40mm	**307309**
125mm	5"	M12 x 40mm	**307310**
150mm	6"	M12 x 40mm	**307311**
200mm	8"	M16 x 50mm	**307312**
250mm	10"	M16 x 50mm	**307314**
300mm	12"	M20 x 80mm	**307315**

OD Steel Pipe Split Band Clip

Type IH100: zinc plated, for steel pipe. The split band has a standard fixing of 2 x hexagon bolts and nuts.

Pipe OD	Bolt Size	JPL Code
46mm	M10 x 30mm	**932617**
53mm	M10 x 30mm	**932618**
56mm	M10 x 30mm	**932619**
63mm	M10 x 30mm	**932620**
66mm	M10 x 30mm	**932621**
70mm	M10 x 30mm	**932623**
73mm	M10 x 30mm	**932624**
77mm	M10 x 30mm	**932625**
81mm	M10 x 30mm	**934626**
83mm	M10 x 30mm	**932627**
85mm	M10 x 30mm	**932628**
89mm	M10 x 30mm	**932629**
92mm	M10 x 30mm	**932630**
96mm	M10 x 30mm	**932631**
100mm	M10 x 30mm	**932632**
103mm	M10 x 30mm	**932633**
106mm	M10 x 30mm	**932634**
109mm	M10 x 30mm	**932635**
114mm	M10 x 30mm	**932636**
117mm	M10 x 30mm	**932637**
122mm	M10 x 30mm	**932638**
127mm	M10 x 30mm	**932639**
132mm	M10 x 30mm	**932641**
139mm	M10 x 30mm	**932642**
143mm	M10 x 30mm	**932643**
148mm	M10 x 30mm	**932644**
152mm	M10 x 30mm	**932645**
155mm	M12 x 40mm	**932646**

Pipe OD	Bolt Size	JPL Code
159mm	M12 x 40mm	**932648**
163mm	M12 x 40mm	**932649**
168mm	M12 x 40mm	**932650**
172mm	M12 x 40mm	**932651**
176mm	M12 x 40mm	**932652**
180mm	M12 x 40mm	**932653**
183mm	M12 x 40mm	**932654**
190mm	M12 x 40mm	**932655**
193mm	M12 x 40mm	**932656**
196mm	M12 x 40mm	**932657**
202mm	M12 x 40mm	**932658**
212mm	M12 x 40mm	**932659**
216mm	M12 x 40mm	**932660**
220mm	M12 x 40mm	**932661**
225mm	M12 x 40mm	**932662**
232mm	M12 x 40mm	**932663**
236mm	M12 x 40mm	**932664**
240mm	M12 x 40mm	**932666**
250mm	M12 x 40mm	**932667**
254mm	M12 x 40mm	**932669**
260mm	M12 x 40mm	**932670**
265mm	M12 x 40mm	**932688**
270mm	M12 x 40mm	**932671**
280mm	M16 x 50mm	**932672**
302mm	M16 x 50mm	**932673**
305mm	M16 x 50mm	**932674**
315mm	M16 x 50mm	**932685**
320mm	M16 x 50mm	**932675**

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Phenolic Blocks

Walraven load bearing phenolic insulation blocks provide thermal insulation between the steel, copper or plastic pipe and the pipe clamp. Manufactured from high density, CFC and HFC free phenolic foam they are foil covered and come with a metal spreader plate for blocks above 50NB. The temperature resistance of the block ranges from -180°C to +120°C, with 5% smoke emissions to BS5111. Best suited to be used with unlined pipe clamps.
Wooden insulating blocks are also available; please contact our customer service team for prices and availability.

Pipe Size		Product	Phenolic Block Thickness					
		Type	15mm	20mm	25mm	30mm	40mm	50mm
NB	MM		JPL Code	JPL Code	JPL Code	JPL Code	JPL Code	JPL Code
		Phenolic Block	307401	307412	307418	307427	307435	307440
	15	Unlined M8/M10 Clamp	307105	932575	307116	307109	307119	307118
		Split Band Clips	932617	932619	932621	932625	932631	932637
		Phenolic Block	307405	307413	307419	307428	307436	307441
15	22	Unlined Pipe Clamp	307115	307107	307109	307117	307120	307122
		Split Band Clips	932618	932620	932624	932626	932632	932638
		Phenolic Block	307407	307414	307421	307429	307437	307442
20	28	Unlined Pipe Clamp	932575	307116	307117	307111	307121	307123
		Split Band Clips	932620	932623	932625	932629	932635	932639
		Phenolic Block	307409	307416	307423	307431	307438	307443
25	35	Unlined Pipe Clamp	307116	307109	307117	307119	307118	307124
		Split Band Clips	932621	932625	932628	932631	932637	932642
		Phenolic Block	307411	307417	307425	307433	307439	307444
32	42	Unlined Pipe Clamp	307109	307117	307119	307120	307122	307113
		Split Band Clips	932624	932627	932630	932633	932638	932643
		Phenolic Block	307445	307452	307466	307478	307492	307502
40	48	Unlined Pipe Clamp	307109	307111	307120	307121	307124	307125
		Split Band Clips	932626	932629	932632	932635	932641	932645
		Phenolic Block	307446	307454	307467	307479	307493	307503
	54	Unlined Pipe Clamp	307111	307119	307120	307118	307124	307126
		Split Band Clips	932629	932631	932634	932636	932642	932646
		Phenolic Block	307447	307455	307469	307480	307495	307504
50	60	Unlined Pipe Clamp	307111	307120	307121	307122	307113	307127
		Split Band Clips	932630	932633	932636	932638	932643	932649
		Phenolic Block	307448	307458	307470	307481	307496	307505
	66	Unlined Pipe Clamp	307119	307120	307118	307123	307125	307114
		Split Band Clips	932631	932635	932637	932639	932644	932650
		Phenolic Block	307449	307459	307471	307482	307497	307506
65	76	Unlined Pipe Clamp	307121	307118	307123	307113	307126	307128
		Split Band Clips	932634	932637	932639	932642	932648	932652
		Phenolic Block	307450	307460	307472	307483	307498	307507
80	89	Unlined Pipe Clamp	307122	307124	307113	307125	307114	939861
		Split Band Clips	932638	932641	932642	932645	932651	932655
		Phenolic Block	307451	307461	307473	307484	307499	
	108	Unlined Pipe Clamp	307113	307125	307127	307114	939861	
		Split Band Clips	932642	932644	932648	932650	932655	
		Phenolic Block	932905	307462	307474	307485	307500	307508
100		Unlined Pipe Clamp	307113	307126	307114	307128	939861	939866
		Split Band Clips	932643	932646	932650	932652	932657	932660
		Phenolic Block		307463	307475	307486		
	133	Unlined Pipe Clamp		307128	307128	939861		
		Split Band Clips		932651	932654	932656		
		Phenolic Block	932906	307464	307476	307487	307501	307509
125		Unlined Pipe Clamp	307114	307128	939861	969865	969866	
		Split Band Clips	932651	932653	932655	932658	932660	932666
		Phenolic Block		307465	307477	307488	932913	
	159	Unlined Pipe Clamp		969865	969866	969866		
		Split Band Clips		932658	932659	932661	932667	

Malleable Pipe Ring

Produced in accordance with BS1494, available in self colour or galvanized. To suit BS1387 steel tube in sizes 1/4" - 6" NB.

Pipe NB			Self-Colour	Galv
Metric	Imperial	Boss Size	JPL Code	JPL Code
6mm	1/4"	M10	200001	200101
10mm	3/8"	M10	200002	200102
13mm	1/2"	M10	200003	200103
19mm	3/4"	M10	200004	200104
25mm	1"	M10	200005	200105
32mm	1.1/4"	M10	200006	200106
38mm	1.1/2"	M10	200007	200107

Pipe NB			Self-Colour	Galv
Metric	Imperial	Boss Size	JPL Code	JPL Code
50mm	2"	M10	200008	200108
64mm	2.1/2"	M12	200009	200109
75mm	3"	M12	200010	200110
100mm	4"	M12	200011	200111
125mm	5"	M12	200012	200112
150mm	6"	M12	200013	200113

Self Colour

Galvanised

Brass Pipe Ring

Single pipe ring to suit copper tube to EN 1057 (formerly BS2871 part 1: 1971).
Size range 15 – 159mm (outside diameter). Polished finish.

Single Pipe Ring

Pipe OD	Boss Size	JPL Code
15mm	M10	200021
22mm	M10	200022
28mm	M10	200023
35mm	M10	200024
42mm	M10	200025
54mm	M10	200026
76mm	M10	200028
108mm	M10	200029
133mm	M10	200030
159mm	M10	200031

Pressed Brass Screw On Brackets

Pipe OD	JPL Code
15mm	200041
22mm	200042
28mm	200043
34mm	200044
42mm	200045
54mm	200046

Single Pipe Ring

Pressed Brass
Screw On Bracket

Chrome Pipe Ring

Available in single or dual purpose fixings. Dual purpose allows the fixing to be either threaded onto a male back plate plate or can be directly fixed to the fixture with a screw. To suit copper tube to EN 1057. Size range 15 – 28mm (outside diameter). Brass with a chrome finish.

Pipe OD	Type & Boss Size	JPL Code
15mm	Single M10	932946
22mm	Single M10	932947
28mm	Single M10	932948

Pipe OD	Type & Boss Size	JPL Code
15mm	Dual Purpose M10	936403
22mm	Dual Purpose M10	936404
28mm	Dual Purpose M10	937020

Backplates

Back Plates can be fixed onto wall or ceiling. Female back plates are used with threaded studs, male plates have a built in thread.

	Steel	Malleable Iron		Brass	
Size and Type	Zinc Plated	Self Colour	Galv	Polished	Chrome
M8 Female	307931				
M8/M10 Female	307932				
M10 Female	307933	200014	200114	200033	200053
M12 Female		200015	200115		
M10 Male	933068			200032	200052

Zinc Plated

Galvanised

Self Coloured

Brass

Chrome

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Saddle Clamps for Steel Pipe

walraven BIS – Better Installation Systems

Zinc Plated for steel pipe. Tight fit with pull down.

Pipe NB Metric	Pipe NB Imperial	Pipe OD Metric	JPL Code
15mm	1/2"	21mm	**307351**
20mm	3/4"	27mm	**307352**
25mm	1"	34mm	**307353**
32mm	1 1/4"	42mm	**307354**
40mm	1 1/2"	48mm	**307355**
50mm	2"	60mm	**307356**
65mm	2 1/2"	76mm	**307357**
80mm	3"	89mm	**307358**

Pipe NB Metric	Pipe NB Imperial	Pipe OD Metric	JPL Code
100mm	4"	114mm	**307359**
125mm	5"	140mm	**307360**
150mm	6"	168mm	**307361**
200mm	8"	219mm	**307362**
225mm	9"	245mm	**307363**
250mm	10"	273mm	**307364**
300mm	12"	324mm	**307365**

Saddle Clamps for Copper Pipe

walraven BIS – Better Installation Systems

Nylon coated saddle clamps for copper pipe. Tight fit with pull down.

Pipe Size	JPL Code
15mm	**932754**
22mm	**932755**
28mm	**932756**
35mm	**932757**
42mm	**932759**

Pipe Size	JPL Code
54mm	**932760**
66mm	**932761**
76mm	**932762**
108mm	**932763**
133mm	**932765**

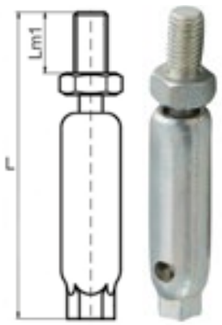
'U' Bolts

Steel zinc plated for steel pipe. Supplied with two zinc nuts.

Pipe Nominal Bore Metric	Pipe Nominal Bore Imperial	Thread Dia	Thread length	Inside Diameter	Inside Leg	JPL Code
15mm	1/2"	M6	30mm	21mm	48mm	**307971**
20mm	3/4"	M6	30mm	27mm	53mm	**307972**
25mm	1"	M6	30mm	34mm	60mm	**307973**
32mm	1.1/4"	M10	40mm	45mm	70mm	**307974**
40mm	1.1/2"	M10	40mm	51mm	75mm	**307975**
50mm	2"	M10	40mm	60mm	85mm	**307976**
65mm	2.1/2"	M10	40mm	76mm	100mm	**307977**
80mm	3"	M12	40mm	90mm	115mm	**307978**
100mm	4"	M12	40mm	114mm	140mm	**307979**
150mm	6"	M12	40mm	172mm	200mm	**307980**

Swivel Rod Hangers

walraven BIS – Better Installation Systems



Allows for movement/expansion in the pipes. Recommended for pipe size up to DN 50 and plastic pipes up to DN 100. The hangers should be installed in pairs and fixed onto slide nut or clamps. Comes with an inspection hole to check screw-in depth (when the threaded rod is screwed-in too deep, the ball swivel is blocked). Made from zinc plated steel.

Description	L	LM1	Box Qty	JPL Code
M8 Short	49mm	15mm	50	**307921**
M10 Short	49mm	15mm	50	**307922**
M8 Long	74mm	15mm	25	**307923**
M10 Long	74mm	15mm	25	**307324**
M10 Extended Thread	64mm	30mm	50	**307925**

Expansion Joints

walraven BIS – Better Installation Systems

Expansion joints are for guiding linear expansion or contraction of the pipes allowing a maximum sliding travel of 35mm. The bolt and nut are CO2 welded. The recessed nut is M8/M10 bossed. Made from zinc plated steel.

Bolt Thread Size	JPL Code
M8	**932965**
M10	**307926**

Roller Chair and Guide for Steel Pipe

walraven BIS – Better Installation Systems

A roller chair and guide supports steel pipework from 65mm to 200mm NB. It supports the pipe where horizontal movement due to expansion and contraction will occur.

Pipe NB Metric	JPL Code
65mm	**307341**
80mm	**307342**
100mm	**307343**

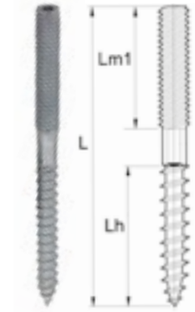
Pipe NB Metric	JPL Code
125mm	**307344**
150mm	**307345**
200mm	**307346**

Hanger Bolt

walraven BIS – Better Installation Systems

Provides an M8 or M10 threaded stud in wood, ceiling or walls when used with plastic plugs. Half the fixing has a woodscrew thread which screws into the fixture, the other half is a standard metric thread that can take the pipe clamp. Can be driven into the fixture with a T25 torx bit or use the hexagon to fine adjust the depth of the fixing.

Thread Size	Overall Length (L)	Thread Length (Lm1)	Woodscrew Length (Lh)	Box Qty	JPL Code
M8	50mm	15mm	35mm	100	**188221**
M8	80mm	35mm	35mm	100	**188223**
M8	100mm	40mm	50mm	100	**188224**
M8	120mm	40mm	50mm	100	**188225**
M8	180mm	40mm	60mm	50	**188230**
M10	80mm	35mm	35mm	50	**188226**
M10	100mm	40mm	50mm	50	**188227**
M10	110mm	40mm	50mm	50	**188331**
M10	120mm	40mm	50mm	50	**188228**
M10	140mm	40mm	50mm	50	**188229**



Link Eyes

walraven BIS – Better Installation Systems

Used to provide a hanging point for slit band clips, the bolt connecting the two holes of the split band clip is passed through the eye.

Size	Finish	JPL Code
M6	Pre Galv	**307961**
M10	Pre Galv	**307962**
M12	Pre Galv	**307963**
M16	Zinc Plated	**307964**

Thread Adaptors

walraven BIS – Better Installation Systems

Thread adaptors are to enlarge or reduce the thread size in the connection of clamps, etc. Tested for fire safety. Made from zinc plated steel.

Female	Male	Box Qty	JPL Code
M6	M8	100	307901
M8	M10	100	307903
M10	M8	100	307902

Female	Male	Box Qty	JPL Code
M10	M12	50	307905
M12	M10	50	307904
M12	M16	50	307906

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Jubilee Hose Clips

A Jubilee® Clip is designed to hold a soft, pliable hose or a rigid circular pipe of a smaller diameter. Rotating the screw has the effect of changing the diameter of the circle formed by the band. The clip can be tightened with a regular slotted screwdriver or the Jubilee Flexidriver®. The band and fastener are made from mild steel.

Name	Size Range	Box Qty	JPL Code
JUB000	9.5mm – 12mm	10	**206002**
JUBM00	11mm – 16mm	10	**206016**
JUB00	13mm – 20mm	10	**206001**
JUB0	16mm – 20mm	10	**206003**
JUB0X	18mm – 25mm	10	**206004**
JUB1A	22mm – 30mm	10	**206006**
JUB1	25mm – 35mm	10	**206005**
JUB1X	27mm – 40mm	10	**206007**
JUB2A	35mm – 50mm	10	**206009**
JUB2	40mm – 55mm	10	**206008**

Name	Size Range	Box Qty	JPL Code
JUB2X	45mm – 60mm	10	**206010**
JUB3	55mm – 70mm	10	**206011**
JUB3X	60mm – 80mm	1	**206012**
JUB4	70mm – 90mm	1	**206013**
JUB4X	85mm – 100mm	1	**206017**
JUB5	90mm – 120mm	1	**206014**
JUB6	110mm – 140mm	1	**206015**
JUB6X	130mm – 150mm	1	**206018**
JUB7	135mm – 165mm	1	**206019**

Jubilee Multiband Handy Pack (10m coil)

Quick, versatile and handy, the 10m Multiband band is simply cut to length, then add the housing, insert a screw and tighten to size. Included in the pack is 25 housing/screws fasteners. The banding and fasteners are made from mild steel.

Jubilee® Multiband Handy Pack	JPL Code
10m	**206021**

Jubilee Flexidriver

A high quality precision product incorporating a 7mm A/F socket head specifically designed for Jubilee hose clips and has a flexible shaft to enable the user to reach into all those awkwardly placed Jubilee Clips.

Jubilee Flexidriver®	JPL Code
7mm A/F	**934799**

Valves

Compression Ended In-Line Ball Valve

Compression Ended In-Line Ball Valves

Light pattern for general purpose. The valve is Operated by the screwdriver slot. Compression ends to BS EN1254-2. Brass/chrome plated.

Size	JPL Code
15mm	**307981**
22mm	**307982**
28mm	**307983**

Brass Double Check Valves

Brass Double Check Valves

The double check valve prevents the back flow of water. The max working temperature for valve is 100^{0}c. Working pressure is 10 -16bar. Compression ends to BS EN1254-2.

Size	JPL Code
15mm	**307984**
22mm	**307985**

email: sales@pennington.co.uk

Fire Stop

Fire Collar P51
Pipe Wrap P51
Intumescent Pillow P51
Putty Pads P51
Fire Socket Cover & Inserts P52
Fischer Fire Stop P52
Pacifyres P53

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Fischer - Fire Collar

Fire Collar

The Fischer fire stop collars consist of a powder coated streel sleeve containing a flexible graphite based intumescent liner to suite non metallic pipework. The collar should be secured to the structure by means of fire resistant fixings. Any gaps of up to 10m around the pipework should be filled in with an intumescent acoustic mastic or graphite mastic. Correct Installation is required. 2 hour fire rating.
Approvals: British Standard BS 476-20 BS EN1366-3

Outside Dia of Pipe	Box Qty	JPL Code
30mm – 32mm	32	**308501**
38mm – 40mm	32	**308502**
55mm	100	**308503**
63mm	50	**308504**
75mm	50	**308505**
82mm	50	**308506**

Outside Dia of Pipe	Box Qty	JPL Code
90mm	40	**308507**
110mm	40	**308508**
125mm	25	**308509**
160mm	10	**308510**
200mm	10	**308511**

- **4 hour fire rated versions available on request.**

Fischer - Pipe Wrap

The Fischer pipe wraps comprise of layers of graphite based intumescent sheets encapsulated in a polythene sheath. The wrap is positioned within the compartment wall or floor so that the edge of the product is left exposed at the fire side wall or soffit. The wrap is sealed into the structure with a fire stop compound. For walls it will be necessary to fit two wraps either side. 2 hour fire rating.
Approvals: British Standard BS476-20 BS EN1366-3

Outside Dia of Pipe	Box Qty	JPL Code
30mm – 32mm	150	**308551**
38mm – 40mm	100	**308552**
55mm	100	**308553**
63mm	50	**308554**
75mm	150	**308555**

Outside Dia of Pipe	Box Qty	JPL Code
82mm	150	**308556**
110mm	80	**308557**
125mm	35	**308558**
160mm	10	**308559**
200mm	1	**308560**

- **4 hour fire rated versions available on request.**

Fischer - Intumescent Pillows

Size	Dimensions	Box Qty	JPL Code
S	300 x 50 x 30mm	100	**936531**
M	300 x 100 x 30mm	50	**936532**
L	300 x 150 x 30mm	40	**936533**
XL	300 x 200 x 30mm	25	**936534**

The Fischer Intumescent pillows is a graphite based product that is contained within a woven fiberglass bag. The pillows are packed together between penetrating services and the wall. The pillows expand to form an effective seal around service penetrations.
Approvals: British Standard BS 476-20 BS EN 1366-3

Fischer - Putty Pads

Fischer Ref	Size	Box Qty	JPL Code
FIPP I-S	170 x 170	20	**936744**
FIPP I-D	230 x 170	20	**936743**
FIPP E-S	155 x 155	20	**936742**
FIPP E-D	210 x 280	20	**936741**

Fischer Intumescent Putty Pads are manufactured from a red, non-setting, silicone based intumescent polymer.
The putty pads have been developed to maintain the fire resistance and insulation requirements of flexible wall partitions, where they are penetrated by plastic or metal electrical outlets and cables. Ideal for socket boxes.
Suitable to upgrade the acoustic performance of flexible partitions.
Tested in accordance with BS EN 1366-3.
2 hour fire and insulation rating.
Available in internal and external options.

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Fire Socket Box Covers & Inserts

A pre-formed socket / switch box 'egg box' to provide fire and acoustic protection as an easy fit alternative to conventional putty pads. A one-piece socket box cover or insert is to suit most common single & double electrical switch and socket boxes and restores and maintain fire insulation and integrity in plasterboard walls for up to 120 minutes. It also provides an effective acoustic barrier to both impact and airborne sounds.
In a fire the cover or insert expands, filling all of the available space with a fire resistant highly insulating char. The fire is unable to penetrate the aperture and the socket cover is able to give additional insulation protection to the wall void by reducing the chance of heat build up leading to the ignition of flammable structural members.
The Cover fits around the switch and socket box and the Insert fits inside the box.

Size			Box Qty	JPL Code
Cover	1 Gang		10	**938803**
	2 Gang		10	**938805**
Insert	1 Gang	35mm Deep	10	**519123**
	2 Gang	35mm Deep	10	**519122**
	1 Gang	47mm Deep	10	**938806**
	2 Gang	47mm Deep	10	**938804**

Fischer - FIAM Intumescent Acoustic Mastic

Type	Description	Size	JPL Code
FiAM	Fischer FiAM is a one part water based acrylic emulsion that can provide up to 5 hours fire resistance when used in construction joints and services in both vertical and horizontal applications. When exposed to fire, it reacts to form a highly insulative char that slows down heat transfer, and provides a barrier to fire seal. Formulated to be halogen and solvent free the FiAM exhibits excellent slump characteristics and has been designed to maintain the sound reduction index of a structure. Suitable compatibility in a variety of materials, such as timber, steel, concrete, drywall and brick/block work, and is utilised within the fischer FCPS Coated Panel System, which is design to seal large openings in fire rated floors & walls. Tested to both BS476 & BS EN1366-3/4. ETA approved and CE Marked.	310ml 600ml	**936745** **936746**

Fischer - FIGM Intumescent Graphite Mastic

Type	Description	Size	JPL Code
FiGM	Fischer FiGM is a one part water based flexible acrylic emulsion containing a high pressure intumescent graphite which is used to seal service penetrations in both vertical and horizontal applications. Suitable for a wide range of applications such as, non metallic pipes, metallic and insulated pipes, cables and cable bunches, as well as construction joints. The fischer FiGM can expand up to 20 times its own volume and cures to form a resilient flexible fire seal, it exhibits excellent slump properties and is formulated to be halogen and solvent free. Tested to both BS476 & BS EN1366-3/4. ETA approved and CE Marked.	310ml	**936747**

Walraven - Pacifyres

The Walraven BIS Pacifyre MK II Fire Sleeve is a single part fire sleeve which seals a pipe lead-through with a grommet type seal making it fire resistant and smoke tight. Only one BIS Pacifyre MK II Fire Sleeve is required to seal off the aperture between the pipe and the wall or ceiling making it fire resistant and smoke proof. For plastic lead throughs or metal pipes.

Metal Pipes

Pipe Size NB	Steel mm	Copper mm	Non-Insulated Pipe JPL Code	Insulation Thickness (mm) 15mm JPL Code	20mm JPL Code	25mm JPL Code	30mm JPL Code	40mm JPL Code	50mm JPL Code
10	17.2	15	**933144**	**933154**	**933157**	**933160**	**933165**	**933174**	**933183**
-	-	18	**933145**	**933155**	**933158**	**933161**	**933166**	**933174**	**936407**
15	21.3	22	**933146**	**933156**	**933159**	**933162**	**933167**	**933178**	**936408**
20	26.9	28	**933148**	**933158**	**933161**	**933165**	**933169**	**933179**	**933185**
25	33.7	35	**933150**	**933160**	**933163**	**933168**	**933173**	**933183**	**940067**
32	42.4	42	**933153**	**933163**	**933167**	**933171**	**933178**	**936408**	**940068**
40	48.3	-	**933155**	**933166**	**933169**	**933174**	**933181**	**933185**	**940069**
-	-	54	**933157**	**933168**	**933173**	**933178**	**933183**	**940067**	**940070**
50	60.3	-	**933159**	**933171**	**933176**	**933181**	**936408**	**933273**	**940072**
-	64	-	**933160**	**933173**	**933178**	**933182**	**933184**	**940071**	**940073**
-	-	66	**933161**	**933174**	**933179**	**933183**	**933185**	**940071**	**933186**
65	76.1	76	**933165**	**933179**	**933183**	**933185**	**933269**	**933274**	**940074**
80	88.9	89	**933169**	**936407**	**940066**	**933273**	**940069**	**933187**	**933188**
-	-	108	**933181**	**933273**	**940069**	**933274**	**933187**	**940075**	**933190**
100	114.3	-	**933183**	**940071**	**940070**	**940073**	**940076**	**940077**	**940084**
125	139.7	-	**933273**	**933187**	**940078**	**933188**	**933189**	**933191**	**940092**
150	168.3	-	**933187**	**933189**	**933190**	**933191**	**940088**	**940095**	**940101**
200	219.1	-	**933191**	**940095**	**940098**	**940102**	**940104**		**940106**
250	273	-	**940103**		**940105**	**933192**			**933194**

Plastic Pipes

Pipe size mm	JPL Code	Pipe size mm	JPL Code
15 - 17	**933196**	61 - 67	**933208**
18 - 20	**933197**	70 - 79	**933210**
23 - 28	**933200**	86 - 94	**933211**
29 - 36	**933202**	95 - 103	**938782**
38 - 44	**933204**	104 - 113	**933212**
46 - 52	**933206**	155 - 164	**933213**
52 - 58	**933207**		

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JPL App

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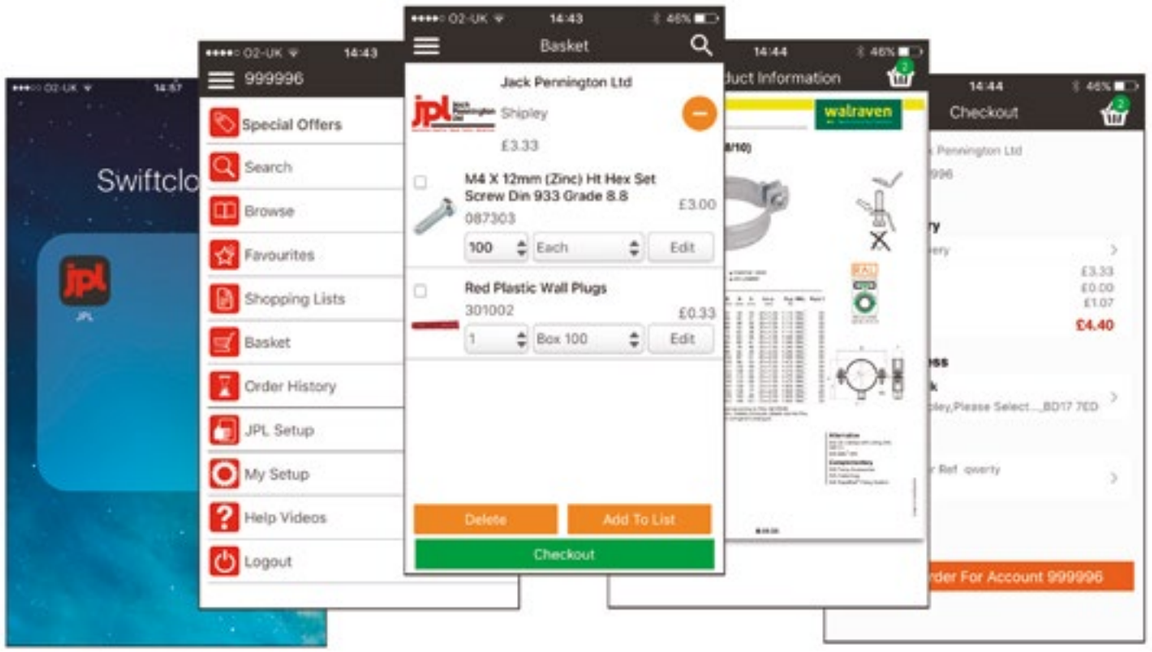

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Cable Containment

Basket Tray P57
Connectors & Clamps P58
Cable Tray P61
Cable Ladder P63
Cable Truncking P65
Lighting Truncking P66

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Basket Tray

Basket cable tray has a number of advantages over traditional cable tray:
- It's a lighter in weight, using 30% less material, so is easier for installers to carry and puts less stress on the support points.
- Bends and risers are not needed, simply cut the wire basket with a basket tray cutter and fabricate as required, reducing purchasing costs and time planning.
- Open design allows maximum ventilation to enable cooler running of cables.
- Tested and Certificated E90 Fire Resistance.
- Easier identification of cabling from below.

The Bycro coating option gives it distinctive gold coloured appearance and class 4 corrosion resistance compared to pre-galvanised class 2, it's also compliant with current RoHS legislation and RAEE directives.
The Silver Zinc coating option is Electrogalvanised EN ISO 2081. Basket is available in 3m lengths.

Height	Width	Bycro JPL Code	Silver Zinc JPL Code
35mm	60mm	**304359**	**304921**
	100mm	**304371**	**304922**
	150mm	**304397**	**304923**
	200mm	**304372**	**304924**
	300mm	**304373**	**304925**
	400mm	**304374**	**304926**
60mm	60mm	**304381**	**304931**
	100mm	**304382**	**304932**
	150mm	**304383**	**304933**
	200mm	**304384**	**304934**
	300mm	**304385**	**304935**

Height	Width	Bycro JPL Code	Silver Zinc JPL Code
60mm	400mm	**304386**	**304936**
	450mm	**304387**	**304937**
	500mm	**304388**	**304938**
	600mm	**304389**	**304939**
106mm	100mm	**938786**	
	150mm	**937946**	
	200mm	**937012**	
	300mm	**937013**	
	400mm	**937014**	
	500mm	**937947**	

Also available in Stainless Steel and Hot Dip Galvanised.

Click System Basket Tray

The same features and benefits as the regular Pemsa tray but with the additional benefit of a quick join attachment.
Available in Bycro finish only.

Height	Width	JPL Code
60mm	60mm	**304331**
	100mm	**304332**
	150mm	**304333**
	200mm	**304334**
	300mm	**304335**

Height	Width	JPL Code
60mm	400mm	**304336**
	450mm	**304337**
	500mm	**304338**
	600mm	**304339**

Basket Supports

Description	Finish	Size	Box Qty	JPL Code
Central Hanging Plate: To support the basket with threaded rod.	Bycro	M8-M10	20	**304358**
	Zinc	M6	20	**937957**
	Zinc	M8-M10	20	**304953**
Click Central Suspension: For quicker installation to support the basket with threaded rod	Bycro	M6	20	**304394**
	Bycro	M8/M10	20	**304395**
	Zinc	M6	20	**304325**
	Zinc	M8/M10	20	**304326**
Light Duty Celling Support: Clips on to the side of basket to suspend via M8 threaded rod to ceiling.	Bycro		36	**937950**
	Zinc		36	**304928**

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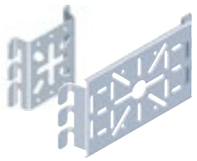
Basket Supports (continued)

Description	Finish	Box Qty	JPL Code
Light Duty Wall Support: Clips to the side of the basket to hang from wall.	Bycro	25	**937955**
	Zinc	25	**940121**

Side Support 60: For fixing basket to the wall or suspending on a M8 rod.	Bycro	25	**937951**
	Zinc	25	**304927**

Base support: To fixes to bottom of basket to fix into underneath substrate.	Bycro	25	**938788**
	Zinc	25	**939948**

Universal Bracket



Description	Size	Box Qty	JPL Code
Universal Bracket: For installing boxes or attaching accessories to basket. M5 bolts required. Pre Galvanised finish	65mm x 87mm	10	**937954**
	170mm x 109mm	10	**938787**

Basket Tray Divider

To create a divide within a singular length of cable basket. Pre-galvanised.

Length	Width	JPL Code
3m	30mm	**937961**
	50mm	**304392**
	80mm	**937962**

Channel Strut Clip

Description	Box Qty	JPL Code
Allows for quick installation of basket to 41 x 41 or 21 x 41 channel. Stainless steel.	100	**304391**

Connectors & Clamps

Description	Finish	Box Qty	JPL Code
Reinforced Joint Clamp: A three piece clamp for attaching two pieces of basket together. Captive bolt.	Bycro	50	**304390**
	Zinc	50	**304952**
Part Clamp: As above minus bottom part of clamp	Bycro	50	**304377**
	Zinc	50	**939985**
Click Connector: Quick fitting Coupler for basket	Bycro	25	**304376**
	Zinc	25	**304951**
Fast Click Side Joint: To attach two pieces of basket together.	Bycro	50	**937948**
	Zinc	25	**940052**
Fast Click Base Joint: To support a connection from base of the basket. To be used in conjunction with Fast Click Side Joint.	Bycro	10	**937949**
	Zinc	25	**939983**

Connectors & Clamps (continued)

Description	Finish	Box Qty	JPL Code
Side Joint Plate: To attach basket to SPLUS support bracket	Bycro	50	**304379**
	Zinc	50	**304324**

Connector Plate	Bycro	50	**304378**
	Zinc	50	**940123**

Fast Clip: To connect two pieces of basket together at an angle	Bycro	50	**304357**
	Zinc	50	**939984**

Conduit Gland Bracket: To attach flexible or rigid conduit to basket. Fits 20mm and 25mm Conduit.	Bycro	10	**937958**
	Zinc	10	**940007**

Splice Plate: To help facilitate the making of curves.	Bycro	10	**304375**
	Zinc	10	**940122**

Brass Earth Terminal: Facilitates earthing of all basket tray. 16-35 mm²		20	**304380**

SPLUS Support Brackets

SPLUS Omega system of brackets and channel allow for the quick installation of any medium load tray on the market. All brackets come with protective caps and omega plug for easy installation and extra protection. Pre galvanised finish.

Type	Size	JPL Code
Omega SPLUS Channel	100mm	**304341**
	150mm	**304342**
	200mm	**304343**
	300mm	**304344**
	400mm	**304345**
	500mm	**304346**
	600mm	**304347**
	1000mm	**304348**
	2000mm	**304349**
	3000mm	**304350**

Type	Size	JPL Code
Omega SPLUS Universal Bracket Includes protective cap and omega plug for easy installation.	100mm	**937952**
	150mm	**304310**
	200mm	**304311**
	300mm	**304312**
	400mm	**304313**
Omega SPLUS Ceiling Bracket: Includes protective cap and omega plug for easy installation.	100mm	**304353**
	150mm	**304354**
	200mm	**304355**
	300mm	**304356**
	400mm	**937953**

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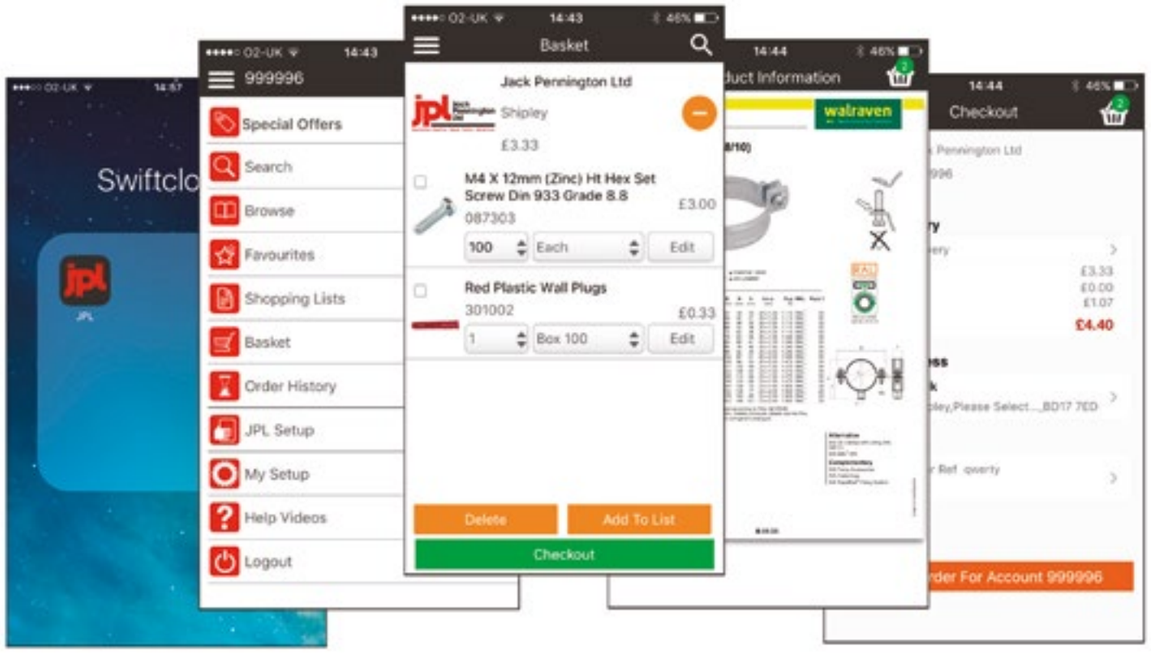

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UNISTRUT — Cable Tray Lengths

Cable Tray with return flange sides manufactured from pre galvanised steel for indoor applications or hot dipped galvanized steel, suitable for outdoor use. Various widths available from 50mm to 600mm all in 3 metre lengths. In order to pick the correct return flange please see Unistrut website.

Medium Duty: 25mm Return Flange

Width		Thicknes Guage	Pre Galv JPL Code	HDG JPL Code
50mm	2"	0.8mm	**303821**	**303871**
75mm	3"	0.8mm	**303822**	**303872**
100mm	4"	0.8mm	**303823**	**303873**
150mm	6"	0.8mm	**303824**	**303874**
225mm	9"	0.8mm	**303825**	**303875**
300mm	12"	1.2mm	**303826**	**303876**
450mm	18"	1.2mm	**303827**	**303877**
600mm	24"	1.2mm	**303828**	**303878**

Heavy Duty: 50mm Return Flange

Width		Thicknes Guage	Pre Galv JPL Code	HDG JPL Code
75mm	3"	0.8mm	**303911**	**303951**
100mm	4"	0.8mm	**303912**	**303952**
150mm	6"	0.8mm	**303913**	**303953**
225mm	9"	1.2mm	**303914**	**303954**
300mm	12"	1.2mm	**303915**	**303955**
450mm	18"	2.0mm	**303916**	**303956**
600mm	24"	2.0mm	**303917**	**303957**

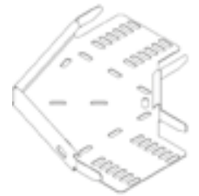
UNISTRUT — Cable Tray 90° Bends

Medium Duty: 25mm Return Flange

Width		Thicknes Guage	Pre Galv JPL Code	HDG JPL Code
50mm	2"	0.8mm	**303851**	**303891**
75mm	3"	0.8mm	**303852**	**303892**
100mm	4"	0.8mm	**303853**	**303893**
150mm	6"	0.8mm	**303854**	**303894**
225mm	9"	0.8mm	**303855**	**303895**
300mm	12"	1.2mm	**303856**	**303896**
450mm	18"	1.2mm	**303857**	**303897**
600mm	24"	1.2mm	**303858**	**303898**

Heavy Duty: 50mm Return Flange

Width		Thicknes Guage	Pre Galv JPL Code	HDG JPL Code
75mm	3"	0.8mm	**303931**	**303971**
100mm	4"	0.8mm	**303932**	**303972**
150mm	6"	0.8mm	**303933**	**303973**
225mm	9"	1.2mm	**303934**	**303974**
300mm	12"	1.2mm	**303935**	**303975**
450mm	18"	2.0mm	**303936**	**303976**
600mm	24"	2.0mm	**303937**	**303977**



UNISTRUT — Unistrut - Cable Tray Adjustable Risers

Medium Duty: 25mm Return Flange

Width		Thicknes Guage	Pre Galv JPL Code	HDG JPL Code
50mm	2"	0.8mm	**303861**	**303901**
75mm	3"	0.8mm	**303862**	**303902**
100mm	4"	0.8mm	**303863**	**303903**
150mm	6"	0.8mm	**303864**	**303904**
225mm	9"	0.8mm	**303865**	**303905**
300mm	12"	1.2mm	**303866**	**303906**
450mm	18"	1.2mm	**936772**	**303907**
600mm	24"	1.2mm	**936773**	**303908**

Heavy Duty: 50mm Return Flange

Width		Thicknes Guage	Pre Galv JPL Code	HDG JPL Code
75mm	3"	0.8mm	**303941**	**303981**
100mm	4"	0.8mm	**303942**	**303982**
150mm	6"	0.8mm	**303943**	**303983**
225mm	9"	1.2mm	**303944**	**303984**
300mm	12"	1.2mm	**303945**	**303985**
450mm	18"	2.0mm	**303946**	**303986**
600mm	24"	2.0mm	**303947**	**303987**

UNISTRUT — Unistrut - Cable Tray Tees

Medium Duty: 25mm Return Flange

Width		Thicknes Guage	Pre Galv JPL Code	HDG JPL Code
50mm	2"	0.8mm	**303841**	**303881**
75mm	3"	0.8mm	**303842**	**303882**
100mm	4"	0.8mm	**303843**	**303883**
150mm	6"	0.8mm	**303844**	**303884**
225mm	9"	0.8mm	**303845**	**303885**
300mm	12"	1.2mm	**303846**	**303886**
450mm	18"	1.2mm	**303847**	**303887**
600mm	24"	1.2mm	**303848**	**303888**

Heavy Duty: 50mm Return Flange

Width		Thicknes Guage	Pre Galv JPL Code	HDG JPL Code
75mm	3"	0.8mm	**303921**	**303961**
100mm	4"	0.8mm	**303922**	**303962**
150mm	6"	0.8mm	**303923**	**303963**
225mm	9"	1.2mm	**303924**	**303964**
300mm	12"	1.2mm	**303925**	**303965**
450mm	18"	2.0mm	**303926**	**303966**
600mm	24"	2.0mm	**303927**	**303967**

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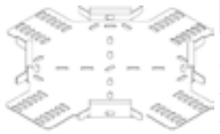
Cable Tray Crosspieces

UNISTRUT

Medium Duty: 25mm Return Flange



Width mm	Width Inches	Thicknes Guage	Pre Galv JPL Code	HDG JPL Code
50mm	2"	0.8mm	**303871**	**303281**
75mm	3"	0.8mm	**303272**	**303282**
100mm	4"	0.8mm	**303273**	**303283**
150mm	6"	0.8mm	**303274**	**303284**

Width mm	Width Inches	Thicknes Guage	Pre Galv JPL Code	HDG JPL Code
225mm	9"	0.8mm	**303275**	**303285**
300mm	12"	1.2mm	**303276**	**303286**
450mm	18"	1.2mm	**303277**	**303287**
600mm	24"	1.2mm	**303278**	**303288**

Cable Tray Reducers

UNISTRUT

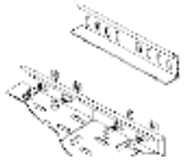
Medium Duty: 25mm Return Flange

Width (mm)		Pre Galv JPL Code	HDG JPL Code
100mm	50mm	**938621**	
	75mm	**303831**	
150mm	50mm	**936411**	
	75mm	**303833**	
	100mm	**303834**	**936774**
225mm	75mm	**303835**	
	100mm	**303836**	**303259**
	150mm	**303837**	**936775**

Width (mm)		Pre Galv JPL Code	HDG JPL Code
300mm	100mm	**936412**	**936776**
	150mm	**303839**	**303262**
	225mm	**303838**	**303263**
450mm	100mm	**937916**	
	150mm	**936777**	
	225mm	**936778**	
	300mm	**938622**	**936779**
600mm	150mm	**936782**	
	300mm	**936780**	
	450mm	**936781**	

Cable Tray Wrap Around Coupler Connectors

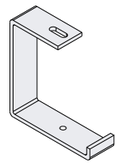
UNISTRUT



Suitable for all widths of tray.

Return Flange	Pre Galv JPL Code	HDG JPL Code
Medium Duty: 25mm	**303832**	**303880**
Heavy Duty: 50mm	**303918**	**303958**

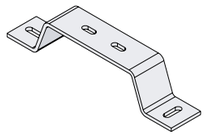
Cable Tray Overhead hangers



To support Cable tray from ceiling with threaded rod. Hot dipped galvanised finish

Return Flange	Pre Calv JPL Code	HDG JPL Code
75mm		**303201**
100mm	**303996**	**303202**
150mm	**303997**	**303203**
225mm	**303998**	**303204**
300mm	**303999**	**303205**

Cable Tray Stand Off Bracket



Stand off brackets used to support and secure either cable tray installations.

Return Flange	Pre Calv JPL Code	HDG JPL Code
50mm	**303231**	**303221**
75mm	**303232**	**303222**
100mm	**303233**	**303223**
150mm	**303234**	**303224**
225mm	**303235**	**303225**
300mm	**303236**	**303226**
450mm		**303227**
600mm		**303228**

Cable Ladder Lengths

UNISTRUT

Unistrut cable ladder is used to route and protect cables with the abilty to carry larger heavier duty power cables. Ladder is best used where cable support is needed to have more space between supports. All ladder lengths and fixings are hot dipped galvanised.

Height	Width	Unistrut Part Ref	Length	Unistrut HDG JPL Code
100mm	150mm	U10L315HG	3m	**933960**
100mm	300mm	U10L330HG	3m	**933961**
100mm	450mm	U10L345HG	3m	**933962**
100mm	600mm	U10L360HG	3m	**933963**
100mm	750mm	U10L375HG	3m	**933964**
100mm	900mm	U10L390HG	3m	**933965**
125mm	150mm	U12L315HG	3m	**933993**

Height	Width	Unistrut Part Ref	Length	Unistrut HDG JPL Code
125mm	150mm	U12L315HG	3m	**933993**
125mm	300mm	U12L330HG	3m	**933994**
125mm	450mm	U12L345HG	3m	**933995**
125mm	450mm	U12L645HG	6m	**933996**
125mm	600mm	U12L360HG	3m	**933997**
125mm	750mm	U12L375HG	3m	**933999**
125mm	900mm	U12L390HG	3m	**934000**

Cable Tray 90° Bends

UNISTRUT

Height	Width	Unistrut Part Ref	Unistrut HDG JPL Code
100mm	150mm	U10FB15/90/30HG	**933943**
100mm	300mm	U10FB30/90/30HG	**933944**
100mm	450mm	U10FB45/90/30HG	**933945**
100mm	600mm	U10FB60/90/30HG	**933946**
100mm	750mm	U10FB75/90/30HG	**933947**
100mm	900mm	U10FB90/90/30HG	**933948**

Height	Width	Unistrut Part Ref	Unistrut HDG JPL Code
125mm	150mm	U12FB15/90/30HG	**933981**
125mm	300mm	U12FB30/90/30HG	**933982**
125mm	450mm	U12FB45/90/30HG	**933983**
125mm	600mm	U12FB60/90/30HG	**933984**
125mm	750mm	U12FB75/90/30HG	**933985**
125mm	900mm	U12FB90/90/30HG	**933986**

Cable Ladder 90° Outside Riser

UNISTRUT

	Height	Width	Unistrut Part Ref	Unistrut HDG JPL Code
Outside Riser 300mm radius	100mm	150mm	U10OR15/90/30HG	**933928**
		300mm	U10OR30/90/30HG	**933929**
		450mm	U10OR45/90/30HG	**933930**
		600mm	U10OR60/90/30HG	**933931**
		750mm	U10OR75/90/30HG	**933932**
		900mm	U10OR90/90/30HG	**933933**
	125mm	150mm	U12OR15/90/30HG	**933972**
		300mm	U12OR30/90/30HG	**933973**
		450mm	U12OR45/90/30HG	**933974**
		600mm	U12OR60/90/30HG	**933934**
		750mm	U12OR75/90/30HG	**933935**

Cable Ladder 90° Inside Riser

UNISTRUT

	Height	Width	Unistrut Part Ref	Unistrut HDG JPL Code
Inside Riser 300mm radius	100mm	150mm	U10IR15/90/30HG	**933952**
		300mm	U10IR30/90/30HG	**933953**
		450mm	U10IR45/90/30HG	**933954**
		600mm	U10IR60/90/30HG	**933955**
		750mm	U10IR75/90/30HG	**933956**
		900mm	U10IR90/90/30HG	**933955**
	125mm	150mm	U12IR15/90/30HG	**933989**
		300mm	U12IR30/90/30HG	**933990**
		450mm	U12IR45/90/30HG	**933991**
		600mm	U12IR60/90/30HG	**933958**
		750mm	U12IR75/90/30HG	**933959**

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Cable Ladder Tees

UNISTRUT

Height	Width	Unistrut Part Ref	Unistrut HDG JPL Code
100mm	150mm	U10LT15/15/30HG	**933937**
100mm	300mm	U10LT30/30/30HG	**933938**
100mm	450mm	U10LT45/45/30HG	**937935**
100mm	600mm	U10LT60/60/30HG	**933940**
100mm	750mm	U10LT75/75/30HG	**933941**
100mm	900mm	U10LT90/90/30HG	**933942**

Height	Width	Unistrut Part Ref	Unistrut HDG JPL Code
125mm	300mm	U12LT30/30/30HG	**933976**
125mm	450mm	U12LT45/45/30HG	**933977**
125mm	600mm	U12LT60/60/30HG	**933978**
125mm	750mm	U12LT75/75/30HG	**933979**
125mm	900mm	U12LT90/90/30HG	**933980**

Cable Ladder Cross Over

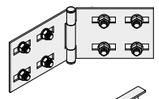
UNISTRUT

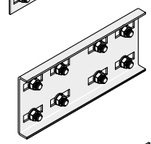
Height	Width	Unistrut Part Ref	Unistrut HDG JPL Code
100mm	150mm	U10EC15/15/30HG	**933920**
100mm	300mm	U10EC30/30/30HG	**933921**
100mm	450mm	U10EC45/45/30HG	**933922**

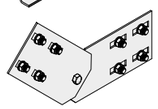
Height	Width	Unistrut Part Ref	Unistrut HDG JPL Code
100mm	600mm	U10EC60/60/30HG	**933923**
100mm	750mm	U10EC75/75/30HG	**933924**
100mm	900mm	U10EC90/90/30HG	**933925**

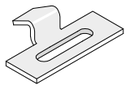
Cable Ladder Fixings and Accessories

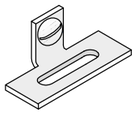
UNISTRUT











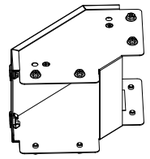
Description	Height	Unistrut Part Ref	Unistrut HDG JPL Code
Hinged Splice Plate	100mm	U10/HSPHG	**933951**
	125mm	U12/HSPHG	**933988**
Side Rail Splice Plate	100mm	U10/SPHG	**933967**
	125mm	U12/SPHG	**934001**
Vertical Splice Plate	100mm	U10/VSPHG	**933968**
	125mm	U12/VSPHG	**934002**
Hold Down Bracket	100mm	U10/HDBHG	**936212**
	125mm	U12/HDBHG	**933987**
Cable Earth Strap	100mm	U/ES100	**933970**
	300mm	U/ES300	**933971**
U Clip	All	U/CLIPHG	**933949**
Bolted Down Clamp	All	U/CLAMPHG	**933950**
U Fix (pack of 16)	All	U/FIX16M10	**939840**

Cable Trunking Lengths

Size (mm)	Thickness (mm)	JPL Code
50 x 50	0.9	**303601**
75 x 75	1.2	**303621**
100 x 100	1.2	**303641**
150 x 150	1.4	**303661**

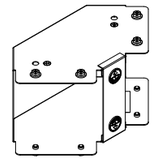
The single compartment trunking is pre-galvanised. The lengths are 3 metres long, complete with cover, connector and fixings. Other sizes and multi compartment trunking are available on request.

Cable Trunking 90° Bends

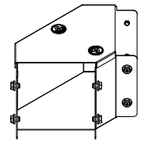


Type	Size	JPL Code
90° External Lid Bend	50 x 50	**303608**
	75 x 75	**303628**
	100 x 100	**303648**
	150 x 150	**303668**

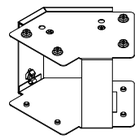
Type	Size	JPL Code
90° Internal Lid Bend	50 x 50	**303605**
	75 x 75	**303625**
	100 x 100	**303645**
	150 x 150	**303665**



Type	Size	JPL Code
90° Top Lid Bend	50 x 50	**303613**
	75 x 75	**303633**
	100 x 100	**303653**
	150 x 150	**303673**

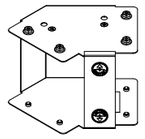


Cable Trunking 45° Bends

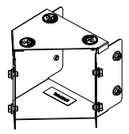


Type	Size	JPL Code
45° External Cover Bend	50 x 50	**303607**
	75 x 75	**303627**
	100 x 100	**303647**
	150 x 150	**303667**

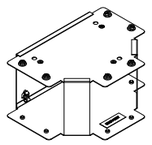
Type	Size	JPL Code
45° Internal Cover Bend	50 x 50	**303604**
	75 x 75	**303624**
	100 x 100	**303644**
	150 x 150	**303664**



Type	Size	JPL Code
45° Top Cover Bend	50 x 50	**303612**
	75 x 75	**303632**
	100 x 100	**303652**
	150 x 150	**303672**

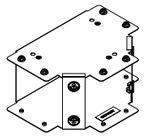


Cable Trunking Tees

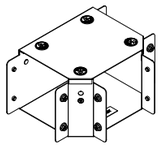


Type	Size	JPL Code
Tee External Lid	50 x 50	**303629**
	75 x 75	**303629**
	100 x 100	**303649**
	150 x 150	**303669**

Type	Size	JPL Code
Tee Internal Lid	50 x 50	**303606**
	75 x 75	**303626**
	100 x 100	**303646**
	150 x 150	**303669**

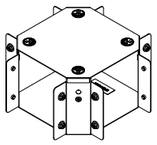


Type	Size	JPL Code
Tee Top Lid	50 x 50	**303614**
	75 x 75	**303634**
	100 x 100	**303654**
	150 x 150	**303674**



Cable Trunking Crossway

Type	Size	JPL Code
Crossway Section	50 x 50	**934137**
	75 x 75	**934142**
	100 x 100	**934080**
	150 x 150	**934107**



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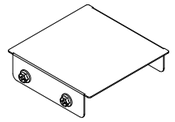
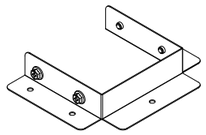
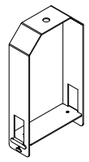
Cable Trunking Accessories



Type	Size	JPL Code
Stop End	50 x 50	**303602**
	75 x 75	**303622**
	100 x 100	**303642**
	150 x 150	**303662**

Type	Size	JPL Code
Flange	50 x 50	**303603**
	75 x 75	**303623**
	100 x 100	**303643**
	150 x 150	**303663**
Stirrup Hanger	50 x 50	**303610**
	75 x 75	**303630**
	100 x 100	**303650**
	150 x 150	**303670**





Lighting Trunking

Pre Galvanised lighting trunking 50mm x 50mm

Length	JPL Code
3m	**338441**
4.5m	**338442**

Lighting Trunking Accessories

Description	JPL Code
Plastic Lid X 2m	**338452**
Metal Lid x 2m	**338453**
Long Coupler	**338443**
90° Flat Bend	**338446**
90° External Bend	**338448**
90° Internal Bend	**338447**
45° Flat Bend	**338457**
45° External Bend	**338456**

Description	JPL Code
45° Internal Bend	**338456**
Flat Tee	**338449**
4 Way Intersection	**338450**
Suspension Bracket (10mm hole)	**338444**
Lighting Supension Unit (Pack of 10)	**338445**
Outlet Flange	**338454**
Stop End	**338451**

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Galvanised Boxes P74
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JPL App

What is the App?

The app is the newest ordering and information platform from Jack Pennington Ltd

Whats new?

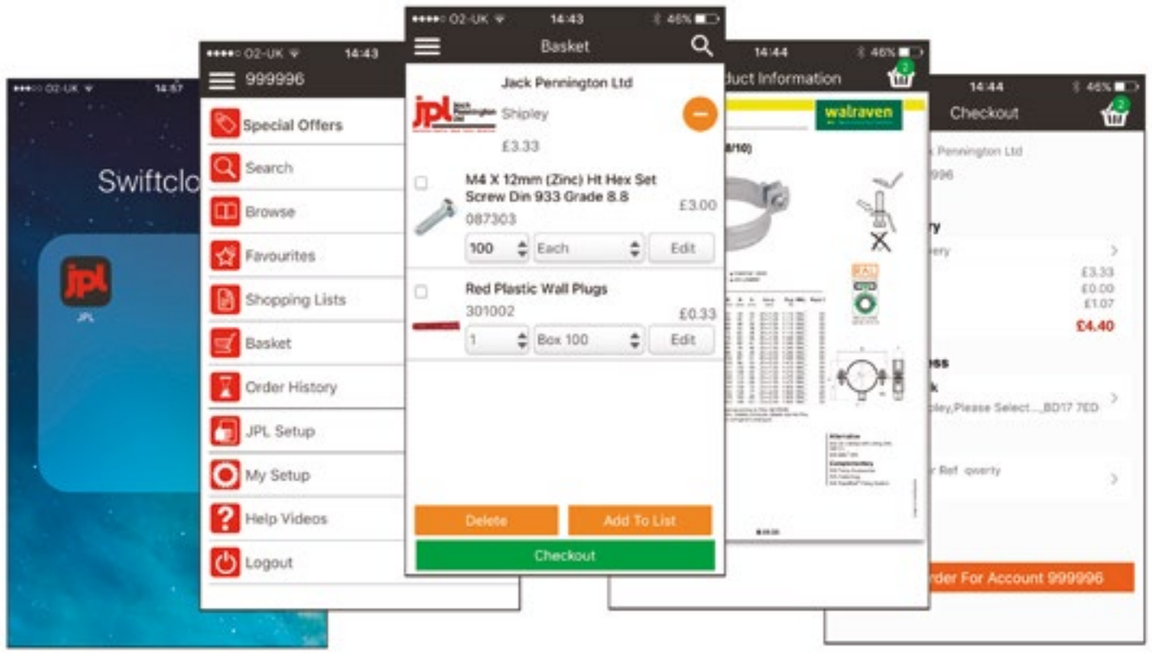
For the first time, customers can access their own personalised account information for their company about stock range, pricing and technical information straight to their desktop, smartphone or tablet, giving the ability to quickly place orders on whatever platform is used. All Platforms are interchagable so orders can be started and completed on more than one platform.

Accessing the App

The app is available to download from The App Store and Google Play. There is also a version for the Desktop.

Login details

In order to use the app you meed to have your accont details authenticated by our sales team. Please speak to a member of the sales team for more infomation regarding the process. Alternatively please email **online@pennington.co.uk** with any questions or queries.



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Adaptalok - Type PA Standard Weight Flexible Conduit

Adaptaflex Type PA standard weight plastic conduits have advantages for light duty applications, they do not corrode, lighter in weight, quicker to install due to ease of cutting (see Adaptaflex flexible conduit cutter) and assembly of fittings, wide variety of easy to asemble conduit fittings. Adaptaflex standard Polymide (Nylon) 6 conduit is suitable for machine tools, public buildings and rail. IP ratings: IP40, IP65, IP66, IP67, IP68, IP69k.
Features:
• Very high UV resistance • High flexibility • High fatigue life • Self extinguishing • Halogen free • High abrasion resistance

Ref	Conduit Size	10m Reel JPL Code	25m Reel JPL Code	50m Reel JPL Code
PAFS16	16mm		**337704**	**337705**
PAFS21	21mm	**337706**	**337707**	**337708**
PAFS28	28mm	**337709**	**337710**	**337711**
PAFS34	34mm	**337712**	**337713**	**337714**

Adaptalok Flexible Conduit Fittings

A range of fittings and glands for the Adaptaflex Adaptalok plastic flexible conduit range.

Type	Ref	Conduit Size	Thread Size	Box Qty	JPL Code
Type A Straight Fitting- Fixed External Male Thread	AL16/M16/A	16mm (M16)	M16	10	**337721**
	AL21/M20/A	21mm (M20)	M20	10	**337723**
	AL28/M25/A	28mm (M25)	M25	10	**337724**
	AL34/M32/A	34mm (M32)	M32	10	**337725**
Type 45 45° Elbow Fitting- Fixed External Male Thread	AL16/M16/45	16mm (M16)	M16	10	**933371**
	AL16/M20/45	16mm (M16)	M20	10	**933373**
	AL21/M20/45	21mm (M20)	M20	10	**933378**
	AL28/M25/45	28mm (M25)	M25	10	**933381**
Type 90 90° Elbow Fitting- Fixed External Male Thread	AL16/M16/C90	16mm (M16)	M16	10	**933372**
	AL16/M20/C90	16mm (M16)	M20	10	**933375**
	AL21/M20/C90	21mm (M20)	M20	10	**933379**
	AL28/M25/C90	28mm (M25)	M25	10	**933382**
Push In Straight Fitting into 20mm Knockout Box	AL16/KM20/A	16mm (M16)		10	**933370**
	AL20/KM20/A	21mm (M20)		10	**933371**

Adaptalok Removal Tool

A tool to provide easy removal of Adaptalok fixings

Ref	Fitting Size	JPL Code
AL16RT	16mm	**933293**
AL21RT	21mm	**933294**
AL28RT	28mm	**933295**

Adaptaflex Contractor Packs

Adapataflex contractor's packs offer an excellent value kit of 10m reel of conduit and 10 straight fittings to suit the conduit in one convenient pack. Available in both the approved PA Adaptalok medium weight conduit or a budget version, PP Polypropylene medium weight conduit.

Type	Size	JPL Code
Black Adaptalok LFH Nylon 6 IP66	M20	**933392**
	M25	**933393**
Polypropylene PP IP54	M20	**933296**
	M25	**933298**

Adptaflex - Korfit Flexible Conduit

Adaptaflex Type KF white Korifit PVC flexible conduit for retail and office installations. Easy to cut with a flexible conduit cutter and with a range of fittings available.
IP ratings: IP40, IP65.

Ref	Reel Length	Conduit Size	JPL Code
KFS20	50m	M20	**337731**
KFS25	50m	M25	**337732**

KFA Korifit Straight Adaptor

For insertion into threaded entries &knockouts. Locknuts supplied.

Ref	Conduit Size	Box Qty	JPL Code
KFS20/M20/A	M20	10	**337733**
KFS25/M20/A	M25	10	**337734**

Adaptaflex - Uncoated Metal Flexible Conduit

Inherent low fire hazard galvanised steel conduit. High flexibilty and high fatigue life.

Ref	Conduit Size	10m Reel JPL Code	25m Reel JPL Code	50m Reel JPL Code
S20	M20	**933302**	**933303**	**933304**
S25	M25	**933305**	**933306**	**933307**

Adaptaflex Uncoated Conduit Fittings

A range of fittings for uncoated flexible conduit. Nickle plated brass

Ref	Conduit Size	Ref	Thread Size	Box Qty	JPL Code
Type A Straight Fitting- Fixed External Male Thread	20mm	S20/M20/A	M20	10	**933399**
	25mm	S25/M25/A	M25	10	**933403**
Type B Swivel Fitting- Fixed External Male Thread	20mm	S20/M20/B	M20	10	**933400**
	25mm	S25/M25/B	M25	10	**933404**
Type C Smooth Entry Bush	20mm	S20/M20/C	M20	10	**933401**
	25mm	S25/M25/C	M25	10	**939738**

Adaptaflex - Coated Liquid Resistant Flexible Conduit

Type SP PVC coated galvanised steel flexible conduit.

Ref	Conduit Size	10m Reel JPL Code	25m Reel JPL Code	50m Reel JPL Code
SP16	M16	**337748**	**337749**	**337750**
SP20	M20	**337751**	**337752**	**337753**
SP25	M25	**337754**	**337755**	**337756**
SP32	M32	**337757**	**337758**	
SP40	M40	**337759**	**337760**	
SP50	M50	**337761**	**337762**	

Adaptaflex Liquid Resistant Fittings

Fittings to be used with Adaptaflex Liquid Resistant flexible conduit. Nickle plated brass

Type	Conduit Size	Ref	Thread Size	Box	JPL Code
Type A Straight Fitting- Fixed External Male Thread	16mm	SP16/M16/A	M16	10	**337771**
	20mm	SP20/M20/A	M20	10	**337773**
	25mm	SP25/M25/A	M25	10	**337774**
	32mm	SP32/M32/A	M32	2	**337775**
	40mm	SP40/M40/A	M40	2	**337776**
	50mm	SP50/M50/A	M50	2	**337777**
Type B Swivel Fitting- Fixed External Male Thread	16mm	SP16/M16/B	M16	10	**337782**
	20mm	SP20/M20/B	M20	10	**337784**
	25mm	SP25/M25/B	M25	10	**337785**
	32mm	SP32/M32/B	M32	2	**337786**
	40mm	SP40/M40/B	M40	2	**337787**
	50mm	SP50/M50/B	M50	2	**337788**
Type C90 90°Elbow Fitting	20mm	SP20/M20/C90	M20	10	**933410**
	25mm	SP25/M25/C90	M25	10	**933411**
	32mm	SP32/M32/C90	M32	2	**933412**

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Adaptaflex - Liquid Tight Flexible Conduit

PVC covered galvanised steel flexible conduit which is liquid tight and oil resistant. Specially designed for use on marine applications.

Ref	Conduit Size	10m Reel JPL Code	25m Reel JPL Code	50m Reel JPL Code
SPL16	M16	**337796**	**337797**	**337798**
SPL20	M20	**337799**	**337800**	**337801**
SPL25	M25	**337802**	**337803**	**337804**
SPL32	M32	**337805**	**337806**	

Adaptaflex Liquid Tight Fittings

Fittings for SPL Liquid Tight flexible Conduit.

Type	Conduit Size	Adaptaflex Ref	Thread Size	Box Qty	JPL Code
Type M Straight Swivel Fitting- External Male Thread	16mm	SPL16/M16/M	M16	10	**337842**
	20mm	SPL20/M20/M	M20	10	**337844**
	25mm	SPL25/M25/M	M25	10	**337845**
	32mm	SPL32/M32/M	M32	2	**337846**
Type A Straight Fitting- Fixed External Male Thread	20mm	SPL20/M20/A	M20	10	**337825**
	25mm	SPL25/M25/A	M25	10	**337826**
Type B Swivel Fitting- Fixed External Male Thread	20mm	SPL20/M20/B	M20	10	**337833**
	25mm	SPL25/M25/B	M25	10	**337834**
Type C90 90° Elbow Fitting	20mm	SPL20/M20/C90	M20	10	**337828**
	25mm	SPL25/M25/C90	M25	10	**337829**

Jack Pennington ltd

Mechanical - Electrical - Fixings - Tooling - Site Services

OFF SITE SERVICE CENTRE

offsite@pennington.co.uk

Services

- **Cutting** - We now offer a range of pre-cut lengths of channel, ready for next day delivery. Channel, studding, conduit and cable tray are among products that can be pre-cut to any required length.
- **Kits** - We can provide a variety of components individually packed in kit form to your specification, ideal for jobs where there is a lot of repetition.
- **Modules** - 3D Module assembled to your specific requirements, with or without containment.
- **Space** - Make more efficient use of space on site by removing the need to have an area designated for cutting and assembly.
- **Waste** - Eradicate excess off cuts of channel and studs and reduce the amount of packaging to be disposed of, you only need to order what you require.
- **Quality Control and product consistency** - Increase the consistency in the quality of the bracket assemblies by having them assembled in a quality controlled environment where each bracket is thoroughly checked before despatch.
- **Identification** - Identification of our products is made easy, each product is labelled, either by size or with your own specific reference.
- **Health and safety** - Reduce the health and safety risks associated with cutting and having excess waste on site.
- **Cost** - Reduce costs by removing the need for hot work permits,cutting and labour time and by decreasing the amount of waste.

Galvanised Conduit

Conduit Tube - Galvanised

Class 4 heavy gauge conduit hot dipped galvanised inside and out to BS4568/BS EN50086 part 1 gives a high level of corrosion resistance. Each length is 3.75m long and are sold in bundles of either 8 or 4 depending on the diameter.

Size	Length	Bundle Qty	JPL Code
20mm	3.75m	8	**336102**
25mm	3.75m	8	**336103**
32mm	3.75m	4	**336104**

Conlok Conduit Box System

The Conlok system is a quick fit unthreaded conduit system designed to dramatically reduce labour and increase installation time. Standard galvanized conduit tube is still used and the accessories are replaced with the Conlok boxes, couplings and adaptors. The boxes and fittings remove the need to thread a cut length of conduit.

Type	Box Qty	Size	JPL Code
Terminal	10	M20	**335201**
	10	M25	**335202**
Through	10	M20	**335203**
	10	M25	**335204**
Angle	10	M20	**335205**
	10	M25	**335206**
Tee	10	M20	**335217**
	10	M25	**335218**

Type	Box Qty	Size	JPL Code
Back Outlet	10	M20	**335223**
	10	M25	**335226**
Branch 3 Way (Y)	10	M20	**335213**
	10	M25	**335214**
Intersection (4 way)	10	M20	**335221**
	10	M25	**335222**
Twin Terminal 'U'	10	M20	**335215**
	10	M25	**335216**

Conlok Conduit Fittings

Type	Box Qty	Size	JPL Code
Bend	10	M20	**335245**
	10	M25	**335246**
Coupler	40	M20	**335241**
	40	M25	**335242**

Type	Box Qty	Size	JPL Code
Flange Coupler	50	M20	**335247**
	50	M25	**335248**
Male Adapter	40	M20	**335243**
	40	M25	**335244**

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Circular Galvanised Boxes

A full range of conduit circular boxes manufactured from malleable iron and hot dipped galvanised. Available with tapped 20mm or 25mm spouts the conduit boxes have an M4 tapped hole in the base for an earthing screw.

Type	Box Qty	Size	JPL Code
Terminal	10	M20	**335101**
	10	M25	**335102**

Type	Box Qty	Size	JPL Code
Through	10	M20	**335103**
	10	M25	**335104**

Type	Box Qty	Size	JPL Code
Angle	10	M20	**335105**
	10	M25	**335106**

Type	Box Qty	Size	JPL Code
Twin Terminal 'U'	10	M20	**335115**
	10	M25	**335116**

Type	Box Qty	Size	JPL Code
Twin Through 'H'	10	M20	**335119**
	10	M25	**335120**

Type	Box Qty	Size	JPL Code
Branch 3-Way 'Y'	10	M20	**335113**
	10	M25	**335114**

Type	Box Qty	Size	JPL Code
Tee	10	M20	**335117**
	10	M25	**335118**

Type	Box Qty	Size	JPL Code
Intersection	10	M20	**335121**
	10	M25	**335122**

Type	Box Qty	Size	JPL Code
Back Outlet	10	M20	**335123**
	10	M25	**335124**

Type	Box Qty	Size	JPL Code
Terminal Back Outlet	10	M20	**335125**
	10	M25	**224126**

M20 Looping Boxes

Material	No of Holes	JPL Code
Pressed Steel	1	**335651**
	2	**335652**
	3	**335653**
	4	**335654**
Galv Malleable Iron	1	**335671**

Extension Rings

Exention rings to increase the depth of galvanised circular boxes, manufactured from pressed steel.

Depth	Box Qty	JPL Code
6mm	50	**335511**
10mm	50	**335512**
13mm	50	**335513**
16mm	50	**335514**
20mm	20	**335515**

Depth	Box Qty	JPL Code
25mm	20	**335516**
32mm	20	**335517**
38mm	10	**335518**
50mm	10	**335519**

Circular Galvanised Box Accessories

Type		Box Qty	JPL Code
Galv Circular Box Lid	Light	100	**335556**
	Heavy	50	**335555**
Rubber Gasket for circular Box		50	**335560**
Brass Earth Terminals		100	**335999**

Switch and Socket Boxes

Galvanised switch and socket boxes used to secure switch or socket face plates. Available as single or doubles from 16mm to 47mm deep. To BS4662

Depth	Gang	Box Qty	JPL Code
16mm	1	20	**326015**
25mm	1	10	**326016**
	2	5	**326021**
35mm	1	10	**326017**
	2	5	**326022**
47mm	1	10	**326018**
	2	5	**326023**

Switch and Socket Box Extentions

Extentions for switch and socket boxes. To BS4662

Depth	Gang	Box Qty	JPL Code
16mm	1	20	**326001**
25mm	1	10	**326002**
	2	5	**326005**
35mm	1	10	**326003**
	2	5	**326006**

Electrical Box Fasteners

Nickle Raised Head Machine Screws

Size	Box Qty	JPL Code
M3.5 x 12mm	100	**160639**
M3.5 x 25mm	100	**160642**
M3.5 x 35mm	100	**160645**
M3.5 x 40mm	100	**160647**
M3.5 x 50mm	100	**160650**
M3.5 x 75mm	100	**160654**

Extension Studs

Size	Box Qty	JPL Code
M3.5	100	**160999**

Adaptable Boxes Galvanised

Pressed Steel boxes, available with or without knockouts.

Metric	Imperial	Knockout JPL Code	Plain JPL Code
75 x 75 x 50mm	3 x 3 x 2"	**325103**	**325153**
75 x 75 x 75mm	3 x 3 x 3"	**325104**	**325154**
100 x 100 x 50mm	4 x 4 x 2"	**325107**	**325157**
100 x 100 x 75mm	4 x 4 x 3"	**325108**	**325158**
100 x 100 x 100mm	4 x 4 x 4"	**325109**	**325159**
150 x 100 x 50mm	6 x 4 x 2"	**325114**	**325164**

Metric	Imperial	Knockout JPL Code	Plain JPL Code
150 x 100 x 75mm	6 x 4 x 3"	**325115**	**325165**
150 x 100 x 100mm	6 x 4 x 4"	**325116**	**325166**
150 x 150 x 50mm	6 x 6 x 2"	**325118**	**325168**
150 x 150 x 75mm	6 x 6 x 3"	**325119**	**325169**
150 x 150 x 100mm	6 x 6 x 4"	**325120**	**325170**

Adaptable Boxes Rubber Gaskets

Metric	Imperial	JPL Code
75 x 75mm	3 x 3"	**320401**
100 x 100mm	4 x 4"	**320402**

Metric	Imperial	JPL Code
150 x 150mm	6 x 6"	**320403**
300 x 300mm	12 x 12"	**320404**

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	Type	Size	Box Qty	JPL Code
	Coupler	M20	100	**317008**
		M25	50	**317009**
	Flange Coupler	M20	50	**317025**
		M25	50	**317026**
	Earthing Coupler	M20	50	**317043**
		M25	50	**317044**
	Distance Saddle	M20	50	**317055**
		M25	25	**317056**
	Spacer Bar Saddle	M20	100	**317065**
		M25	100	**317066**
	Hospital Saddle	M20	50	**317075**
		M25	25	**317076**
	Half Saddle	M20	100	**317163**
		M25	100	**317164**
	Plain Saddle	M20	100	**317085**
		M25	100	**317086**
	Crampet	M20	100	**317095**
		M25	100	**317096**
	Hook Plates	M20	25	**317121**
	Dome Cover	M20	50	**317133**
		M25	50	**317134**
		M20	50	**317127**
		M25	50	**317128**
	Male Hooks	M20	50	**317143**

	Type	Size	Box Qty	JPL Code
	Hexagon Stopping Plug	M20	100	**317181**
		M25	100	**317182**
	Inspection Conduit Bend	M20	25	**317195**
		M25	10	**317196**
	Normal Conduit Bend	M20	25	**317215**
		M25	10	**317216**
	Inspection Conduit Elbow	M20	25	**317235**
		M25	25	**317236**
	Normal Conduit Elbow	M20	50	**317255**
		M25	25	**317256**
	Locknut Light	M20	100	**316012**
		M25	100	**316013**
		M32	100	**316014**
		M40	50	**316015**
		M50	50	**301016**
		M63		**316017**
		M75		**316018**
		1 ½"	50	**316019**
		2"	50	**316018**
	Lock Rings Milled Edge	M20	100	**316112**
		M25	100	**316113**
		M32	100	**316114**
		1 ½"	100	**316070**
		2"	100	**316116**
	Hexagonal Reducers	M25-M20	50	**317342**
		M32-M20	25	**317343**
		M32-M25	25	**317344**
	Adaptors	20mm Male x 3/4 Female	100	**317315**
		20mm Female x 3/4 Male	100	**316316**
	Conduit Nipples	M20	100	**317101**
		M25	100	**317102**
	Washers	M20	100	**320101**
		M25	100	**320102**

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Brass Bushes

Type	Size	Box Qty	JPL Code
Male Bush Short	M20	100	**312002**
	M25	100	**312003**
	M32	50	**312004**
	1 ½"	25	**312005**
	2"	10	**312006**
Male Bush Long	M20	100	**312008**
	M25	50	**312009**
	M32	50	**312010**
	1 ½"	25	**312011**
	2"	25	**312012**

Type	Size	Box Qty	JPL Code
Female Bush	M20	100	**312014**
	M25	100	**312015**
	M32	50	**312016**
	1 ½"	50	**312017**
	2"	50	**312018**

PVC Conduit

A quality high impact, heavy gauge PVC Conduit

Size	Length	Bundle Qty	White JPL Code	Black JPL Code
M20	3m	25	**337011**	**337001**
M25	3m	25	**337012**	**337002**

PVC Circular Boxes

A range of PVC circular conduit boxes. Lids and screws sold separately.

Type	Size	Box Qty	White JPL Code	Black JPL Code
Terminal	M20	20	**337201**	**337101**
	M25	20	**337202**	**337102**
Through	M20	20	**337203**	**337103**
	M25	20	**337204**	**337104**
Angle	M20	20	**337205**	**337105**
	M25	20	**337206**	**337106**
Tee	M20	20	**337217**	**337117**
	M25	20	**337218**	**337118**
Intersection	M20	20	**337221**	**337121**
	M25	20	**337222**	**337122**

PVC Circular Boxes (continued)

Type	Size	Box Qty	White JPL Code	Black JPL Code
Twin Terminal 'U'	M20	20	**337215**	**337115**
	M25	20	**337216**	**337116**

PVC Looping Boxes

Type	Size	Box Qty	White JPL Code	Black JPL Code
4 Way Looping	M20	20	**337280**	**337180**
2 Way Looping	M25	20	**337281**	

PVC Box Accessories

Type	Size	Box Qty	White JPL Code	Black JPL Code
Box Lids	Standard	100	**337290**	**337140**
Blanking Plate for Box Lids		50	**337291**	
Box Lid Brass Screws	M4 x 12mm	100	**160056**	

PVC Conduit Fittings

Type	Size	Box Qty	White JPL Code	Black JPL Code
Heavy Gauge Coupler	M20	200	**337606**	**337506**
	M25	200	**337607**	**337507**
Male Adaptor with Lock Ring	M20	200	**337601**	**337501**
	M25	100	**337602**	**337502**
Female Adaptor with Lock Ring	M20	200	**337603**	**337503**
	M25	100	**337604**	**337504**
Male Bush	M20	100	**337650**	**337550**
	M25	100	**337651**	**337551**
Lockrings	M20	200	**337605**	**337505**
	M25	200	**337621**	
Circular Reducer	M25-M20	100	**337661**	**337660**
Inspection Bends	M20	20	**337608**	**337508**
	M25	20	**337609**	**337509**

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PVC Conduit Fittings

Type	Size	Box Qty	White JPL Code	Black JPL Code
Inspection Tees	M20	20	**337610**	**337510**
	M25	20	**337611**	**337511**

Inspection Elbows	M20	20	**337612**	**337512**
	M25	20	**933347**	

Solid Bends	M20	20	**337614**	**337514**
	M25	20	**337615**	**337515**

Spacer Bar Saddles	M20	100	**337616**	**337516**
	M25	50	**337617**	**337517**

Spring Clips	M20	100	**337663**	**337662**
	M25	100	**337664**	**337665**

Bending Springs for PVC Conduit

Used to bend conduit lengths

Size	JPL Code
M20	**337921**
M25	**337922**

PVC Conduit Adhesive

Solvent cement cans for PVC conduit with applicator.

Size	JPL Code
250ml	**337901**

PVC Dry Lining Box

PVC dry lining switch and socket box.

Type	Depth	JPL Code
1 Gang	35mm	**326101**
2 Gang	35mm	**326102**
1 Gang	47mm	**326103**
2 Gang	47mm	**326104**

PVC Surface Boxes

32mm deep white PVC surface box with 20mm knockout entries.

Type	JPL Code
1 Gang	**933329**
2 Gang	**933330**

PVC Adaptable Boxes

Dimensions	JPL Code
75 x 75 x 56	**326115**
100 x 100 x 75	**326116**
150 x 110 x 75	**326117**
150 x 150 x 75	**326118**

White PVC adaptable boxes.IP56

PVC Junction Boxes

Wiska COMBI Junction boxes

Type	Colour	JPL Code
108/5	Grey	**937705**
24 AMP	White	**937706**
(76 x 76 x 51mm)	Black	**937704**
308/5	Grey	**937708**
32 AMP	White	**937709**
(85 x 85 x 51mm)	Black	**937707**
407/5	Grey	**940110**
32 AMP	White	**940111**
(95 x 95 x 60mm)	Black	**940112**

Type	Colour	JPL Code
607/5	Grey	**937711**
41AMP	White	**937712**
(110 x 110 x 66mm)	Black	**937710**
1010/5	Grey	**937702**
57 AMP	White	**937703**
(140 x 140 x 82mm)	Black	**937701**

BW Brass Cable Gland Pack

BW type brass indoor cable gland for use with all types of single wire armour cable providing mechanical cable retention and electrical continuity via armour wire termination. The BW range of industrial cable glands is designed and tested to BD6121:2005, and is produced from brass grade CuZn39Pb3 (CW614N) to EN12168.
Included in a pack: 2 x Brass Glands, 2 x Steel Lock Nuts, 2 Brass Earth Tags and 2 PVC Shrouds.
For sizes M40 and above each kit contains 1 of each component.

Size	JPL Code
M20S	**313001**
M20	**313002**
M25	**313003**
M32	**313004**
M40	**313005**
M50S	**313006**

Size	JPL Code
M50	**313007**
M63S	**313008**
M63	**313009**
M75S	**313010**
M75	**313011**

CW Brass Cable Gland Pack

CW type brass indoor and outdoor cable gland for use with all types of single wire armour cable providing environmental seal on the cables outer sheath. The cable gland also provides mechanical cable retention and electrical continuity via armour wire termination. A detachable armour cone and universal clamping ring arrangement allows the cable to be easily disconnected from the equipment, for maintenance and change out etc. It also facilitates remote make off procedures when the termination is to be conducted in confined spaces or in areas of restricted access. Designed and tested to BS6121:Part 1: 1989, meets or surpasses the requirements of EN50262:1999, and is produced from Brass grade CuZn39Pb3 (CW614N) to En12168. Other materials including aluminium are also available in this standard design.
Included in a pack: 2 x Brass Glands, 2 x Steel Lock Nuts, 2 Brass Earth Tags and 2 PVC Shrouds.
For sizes M40 and above each kit contains 1 of each component

Size	JPL Code
M20S	**313037**
M20	**313038**
M25	**313039**
M32	**313041**
M40	**313042**
M50S	**313043**

Size	JPL Code
M50	**313044**
M63S	**313045**
M63	**313046**
M75S	**313047**
M75	**313048**

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LSF Industrial Cable Gland Pack

Gland pack includes a low-smoke LSF Shroud for use in areas that are considered to be potentially at risk in situations of fire hazard. Included in a pack: 2x Brass Glands, 2 x Steel Lock Nuts, 2 Brass earth tags and 2 PVC Shrouds.
For sizes M40 and above each kit contains 1 of each component.

BW LSF Gland Pack	
Size	JPL Code
M20S	**313401**
M20	**313402**
M25	**313403**
M32	**313404**
M40	**313405**
M50S	**313406**
M50	**313407**
M63S	**313408**
M63	**313409**

CW LSF Gland Pack	
Size	JPL Code
M20S	**313413**
M20	**313414**
M25	**313417**
M32	**313418**
M40	**313419**
M50S	**313420**
M50	**313421**
M63S	**313422**
M63	**313423**

SWA Taurus Fast Fit Gland Packs

Taurus gland packs include everything needed to terminate the gland in one convenient kit.
Kit includes earthing nuts, the quickest way to simplify the way a gland is terminated and earthed.
Included in a pack: 2x Brass Glands, 2 PVC Shrouds, 2 earthing nuts, Crimp Connectors
For sizes M40 and above each kit contains 1 of each component.

BW Indoor LSF Gland Pack	
Size	JPL Code
M20S	**313251**
M20	**313252**
M25	**313253**
M32	**313254**
M40	**313255**
M50	**313256**
M63	**313257**

CW Indoor/Outdoor LSF Gland Pack	
Size	JPL Code
M20S	**313261**
M20	**313262**
M25	**313263**
M32	**313264**
M40	**313265**
M50	**313266**
M63	**313267**

Cable Gland Accessories

Brass Earth Nuts

Earthing Nuts simplify the way you terminate and earth metal cable glands. Saving up to 60% on fitting time over conventional methods, replacing the traditional earth tag and locknut, with no drilling or surface preparation required, and no compromise of the enclosure IP rating. Unique cutting teeth bite into the box wall meaning the gland can be fitted with only one tool from the outside. The grub screw secures the nut to the gland ensuring continuity, even if the enclosure becomes damaged.

Size	Box Qty	JPL Code
M20	10	**933488**
M25	10	**933489**
M32	2	**936365**

Earth Tags and Brass Locknuts

Gland Size	Pack Size	Earth Tag Brass JPL Code	Locknut Brass JPL Code
M20	100	**314002**	**316052**
M25	100	**314003**	**316053**
M32	50	**314004**	**316054**
M40		**314005**	**316055**

Gland Size	Pack Size	Earth Tag Brass JPL Code	Locknut Brass JPL Code
M50		**314006**	**316056**
M63		**314007**	**316057**
M75		**314008**	**316058**

Nylon Smartfit Cable Glands

Replacing the standard traditional glands, SmartFit glands can be fitted in seconds using a simple push-and-twist action — and working solely from the outside of enclosures. No locknuts are used and there is no need for the enclosure hole to be threaded. The SmartFit Gland is pushed through the hole from the outside, the locking teeth spring out to engage against the inside wall of the enclosure: with pressure from the spring-loaded collar on the outside of the enclosure, the gland just snaps into place.

Size	Cable Dia	Box Qty	Black JPL Code	White JPL Code	Red JPL Code	Grey JPL Code
M20	7.0 – 13.0mm	10	**321062**	**321059**	**321053**	**321054**
M20S	6.0 – 12.0mm	10	**321061**	**321058**	**321051**	**321052**
M25	11.0 – 17.0mm	10	**321063**	**321060**	**321055**	**321056**

Smartfit Cable Gland Removal Tool

Type	JPL Code
Pack of 2 (1x 20mm & 1 x 25mm)	**321070**

Nylon Cable Glands

IP68 Nylon cable glands sold in packs complete with locknut. Glands comply with glow wire test to EN 60695-2-11.

Size	Cable Dia	Box Qty	Black JPL Code	White JPL Code	Red JPL Code
M16	5-10mm	10	**321015**	**321014**	
M20	6-14mm	10	**321017**	**321019**	**321028**
M20	4-14mm	10	**321020**	**321021**	
M25	7-13mm	10	**321022**		
M25	9-17mm	10	**321023**	**321027**	
M32	13-21mm	10	**321024**		
M40	16-28mm	5	**321025**		
M50	21-35mm	5	**321026**		
M63	34-48mm	5	**321029**		

Size	Box Qty	Black JPL Code	White JPL Code	Red JPL Code
M16	100	**321002**		
M20	100	**321003**	**321009**	**321011**
M25	100	**321004**	**321010**	
M32	100	**321005**		

Nylon Lock Nuts

For use with Nylon cable glands

IP Entry Thread Washers

To maintain the IP rating of the equipment and gland it may be necessary to fit an entry thread washer to the gland interface.

Gland Size	Red Fibre JPL Code	Nylon JPL Code
M16	**312200**	**320201**
M20	**312201**	**314300**
M25	**312202**	**314301**
M32	**312203**	**314302**

Gland Size	Red Fibre JPL Code	Nylon JPL Code
M40	**937751**	**314303**
M50	**937746**	**314304**
M63		**314305**
M75		**314306**

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EExd Reducers

EExd explosion proof, brass reducers allow the safe reduction of thread diameter into an enclosure allowing a smaller gland or fitting to be used, no more than one reducer should be used at any one time. Both the external and internal threads on these reducers are metric, however, reducers allowing conversion to other thread types such as NPT and PG are available.

Male	Female	JPL Code
M16	M20	**312060**
M20	M16	**312061**
M20	M25	**312062**
M25	M20	**312064**
M32	M20	**312066**
M32	M25	**312067**
M32	M40	**312068**
M40	M20	**312070**

Male	Female	JPL Code
M40	M25	**312071**
M40	M32	**312072**
M40	M50	**312073**
M50	M20	**312075**
M50	M25	**312076**
M50	M32	**312077**
M50	M40	**312078**

Blanking Plugs

Socket Type

Socket type EExd brass blanking plugs are used to close unused entries into electrical equipment without affecting their certification. These are secured with an allen key (6mm for M16 thread, 10mm for all other sizes).

Size	JPL Code
M16	**312031**
M20	**312032**
M25	**212033**
M32	**312034**

Size	JPL Code
M40	**312035**
M50	**312036**
M63	**312037**

Hex Faced

A hexagon faced EExe stopping plug to seal electrical equipment and conduit fittings.

Size	JPL Code
M16	**312050**
M20	**312051**
M25	**212052**
M32	**312053**

PVC Insulated Terminals

Cembre

Insulated Pin Crimp Terminal

Cembre PVC insulated Ring, Fork, Pin and Blade crimp terminals have a unique funnel shape to the PVC sleeve guaranteeing total insertion of the conductor strands, creating a secure and reliable electrical and mechanical connection. The internal surface of the barrel is rifled to improve contact with the conductor strands when crimped.

Cable Size mm	Pin Length	Box Qty	Cembre Ref No	JPL Code
Red	8.0mm	100	RF-P8	**309017**
0.25 - 1.5mm	10.0mm	100	RF-P10	**309018**
	12.0mm	100	RF-P12	**309019**
Blue	8.0mm	100	BF-P8	**309066**
1.5 - 2.5mm	10.0mm	100	BF-P10	**309067**
	12.0mm	100	BF-P12	**309068**
Yellow	10.0mm	100	GF-P10	**309119**
4 - 6mm	26.8mm	100	GF-P12	**309120**
	28.8mm	100	GF-P14	**309121**

Insulated Blade Crimp Terminal

Cable Size mm	Blade W X L (mm)	Box Qty	Cembre Ref No	JPL Code
Red	3.0 x 12.8	100	RF-PP12	**309020**
0.25 - 1.5mm	2.3 x 13.2	100	RF-PP12/23	**309021**
	3.0 x 14.8	100	RF-PP14	**309022**
	2.3 x 17.2	100	RF-PP16/23	**309023**
Blue	3.5 x 12.8	100	BF-PP12	**309069**
1.5 - 2.5mm	2.5 x 13.3	100	BF-P12/25	**309070**
	2.5 x 17.2	100	BF-P16/25	**309071**
Yellow	4.0 x 13.3	100	GF-PP12	**309122**
4 - 6mm	2.9 x 19.2	100	GF-PP17	**309123**

Insulated Hook Blade Crimp Terminal

Cable Size mm	Blade W X L (mm)	Box Qty	Cembre Ref No	JPL Code
Red	3.0 x 17.5	100	RF-PPL 30	**309088**
0.25 - 1.5mm	4.6 X 17.5	100	RF-PPL 46	**309089**
Blue	3.0 x 17.5	100	BF-PPL 30	**309087**
1.5 - 2.5mm	4.6 x 17.5	100	BF-PPL 46	**309086**
Yellow	4.6 x 17.5	100	GF-PPL 46	**309090**
4 - 6mm				

Insulated Ring Crimp Terminal

Cable Size mm	Hole Ø	Box Qty	Cembre Ref No	JPL Code
Red	M3	100	RF-M3	**309001**
0.25 - 1.5mm	M3.5	100	RF-M3.5	**309002**
	M4	100	RF-M4	**309003**
	M5	100	RF-M5	**309004**
	M6	100	RF-M6	**309005**
	M8	100	RF-M8	**309006**
	M10	100	RF-M10	**309007**
	M12	100	RF-M12	**309008**
Blue	M3	100	BF-M3	**309050**
1.5 - 2.5mm	M3.5	100	BF-M3.5	**309051**
	M4	100	BF-M4	**309052**
	M5	100	BF-M5	**309053**
	M6	100	BF-M6	**309054**
	M8	100	BF-M8	**309055**
	M10	100	BF-M10	**309056**
	M12	100	BF-M12	**309057**
Yellow	M3	100	GF-M3	**309100**
4 - 6mm	M3.5	100	GF-M3.5	**309101**
	M4	100	GF-M4	**309102**
	M5	100	GF-M5	**309103**
	M6	100	GF-M6	**309104**
	M8	100	GF-M8	**309105**
	M10	100	GF-M10	**309106**
	M12	100	GF-M12	**309107**

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Insulated Fork/Spade Terminal

Cable Size mm	Stud Bolt	Box Qty	Cembre Ref No	JPL Code
Red 0.25 - 1.5mm	M3	100	RF-U3	**309009**
	M3.5	100	RF-U3.5	**309010**
	M4	100	RF-U4	**309011**
	M5	100	RF-U5	**309012**
	M6	100	RF-U6	**309013**
	M8	100	RF-U8	**309014**
	M10	100	RF-U10	**309015**
	M12	100	RF-U12	**309016**
Blue 1.5 - 2.5mm	M3	100	BF-U3	**309058**
	M3.5	100	BF-U3.5	**309059**
	M4	100	BF-U4	**309060**
	M5	100	BF-U5	**309061**
	M6	100	BF-U6	**309062**
	M8	100	BF-U8	**309063**
	M10	100	BF-U10	**309064**
Yellow 4 - 6mm	M4	100	GF-U4	**309111**
	M5	100	GF-U5	**309112**
	M6	100	GF-U6	**309113**
	M8	100	GF-U8	**309114**
	M10	100	GF-U10	**309115**

Insulated Through Connector

The barrels of Cembre PVC insulated Butt or Through connectors are manufactured from tin plated copper tube with a PVC outer sleeve insulator. Used to create secure connections between joining cables. Crimp with Cembre HP3 ratchet crimper.

Cable Size mm	W x L mm	Box Qty	Cembre Ref No	JPL Code
Red 0.25 - 1.5mm	4.0 x 25	100	PL03-M	**309150**
Blue 1.5 - 2.5mm	5.0 x 25	100	PL06-M	**309151**
Yellow 4 - 6 mm	6.5 x 32	100	PL1-M	**309152**

Cembre PKE polypropylene insulated end sleeves were developed to reinforce the fine wire strands when terminating a cable into a connector block.

Cable Size mm	Insulation Colour	W X L (mm)	Box Qty	Cembre Ref No	JPL Code
0.1 - 0.3	Yellow	1.3 X 8.0	500	PKE308	**309200**
0.3 - 0.5	White	1.3 X 8.0	500	PKE508	**309201**
0.7	Blue	1.6 X 8.2	500	PKE7508	**309202**
1.0	Red	1.8 X 8.2	500	PKE108	**309203**
1.5	Black	2.1 X 8.2	500	PKE1508	**309204**
	Black	2.1 X 18.0	500	PKE1518	**933763**
2.5	Grey	2.6 X 8.2	500	PKE2508	**309205**
	Grey	2.6 X 18.0	500	PKE2518	**933768**
4.0	Orange	3.2 X 9.0	500	PKE409	**309206**
	Orange	3.2 X 18.0	100	PKE418	**933771**
6.0	Green	3.9 X 12.0	100	PKE612	**933772**
	Green	3.9 X 18.0	100	PKE618	**933773**
10.0	Brown	4.8 X 12.0	100	PKE1012	**933761**
	Brown	4.8 X 18.0	100	PKE1018	**933762**
16.0	Ivory	5.9 X 12.0	100	PKE1612	**933764**
	Ivory	5.9 X 18.0	100	PKE1618	**933765**
25.0	Black	7.9 X 16.0	50	PKE25016	**933766**
	Black	7.9 X 22.0	50	PKE25022	**933767**

Contained Palm Copper Tube Ring Terminals

These terminals feature contained palm width and has been specifically developed for application on L.V circuit breakers with reduced space terminal blocks.

Cable Size mm	Palm Width mm	Hole Ø	Box Qty	Cembre Ref No	JPL Code
35	11.5	6mm	100	A7 B-M 6/11.5	**310295**
50	11.5	6mm	50	A10 B-M 6/11.5	**310296**
70	11.5	6mm	50	A14 B-M 6/11.5	**310297**
95	15.5	6mm	25	A19 B-M 8/15.5	**310298**
120	19.0	8mm	25	A24 B-M 8/19	**310299**
		10mm	25	A24 B-M 10/19	**310300**
150	19.0	8mm	25	A30 B-M 8/19	**310302**
		10mm	25	A30 B-M 10/19	**310303**
185	24.5	10mm	25	A37 B-M 10/24.5	**310304**
240	31.0	10mm	15	A48-M 10/31	**310305**
		12mm	15	A48-M 12/31	**310306**
		16mm	15	A48-M 16/31	**310307**
300	12.0	12mm	10	A60 B-M 12/31	**310308**

Copper Tube Ring Terminal

Cembre copper tube crimping lugs have a much high copper content than many of its competitors. The cross section of the lug has the same copper content as the conductors it's attached to, allowing the joint to carry the same current as the conductor without the risk of burning out. They are annealed (slowly cooled) which plays a vital role in avoiding cracking or breaks between the barrel and palm, particularly if the application subjects them to vibration. The lugs are electrolytically tin plated to avoid oxidation and the presence of an inspection hole facilitates full insertion of the conductor. Each lug is stamped with the manufacturer and lug size for confidence in fitting and traceability.

Cable Size mm	Hole Ø	Box Qty	Cembre Ref No	JPL Code
4 – 6mm	6mm	100	A1-M6	**310009**
	8mm	100	A1-M8	**310010**
	10mm	100	A1-M10	**310011**
10mm	4mm	100	A2-M4	**310012**
	5mm	100	A2-M5	**310013**
	6mm	100	A2-M6	**310014**
	8mm	100	A2-M8	**310015**
	10mm	100	A2-M10	**310016**
	12mm	100	A2-M12	**310017**
16mm	4mm	100	A3-M4	**310018**
	5mm	100	A3-M5	**310019**
	6mm	100	A3-M6	**310020**
	8mm	100	A3-M8	**310021**
	10mm	100	A3-M10	**310022**
	12mm	100	A3-M12	**310023**
25mm	5mm	100	A5-M5	**310024**
	6mm	100	A5-M6	**310025**
	8mm	100	A5-M8	**310026**
	10mm	100	A5-M10	**310027**
	12mm	100	A5-M12	**310028**
35mm	6mm	100	A7-M6	**310029**
	8mm	100	A7-M8	**310030**
	10mm	100	A7-M10	**310031**
	12mm	100	A7-M12	**310032**
50mm	6mm	50	A10-M6	**310037**
	8mm	50	A10-M8	**310038**
	10mm	50	A10-M10	**310039**
	12mm	50	A10-M12	**310040**
	16mm	50	A10-M16	**310042**

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Copper Tube Ring Terminal (continued)

Cable Size mm	Hole Ø	Box Qty	Cembre Ref No	JPL Code
70mm	6mm	50	A14-M6	**310047**
	8mm	50	A14-M8	**310048**
	10mm	50	A14-M10	**310049**
	12mm	50	A14-M12	**310050**
	14mm	50	A14-M14	**310051**
	16mm	50	A14-M16	**310052**
95mm	8mm	25	A19-M8	**310062**
	10mm	25	A19-M10	**310063**
	12mm	25	A19-M12	**310064**
	14mm	25	A19-M14	**310065**
	16mm	25	A19-M16	**310066**
	20mm	25	A19-M20	**310067**
120mm	8mm	25	A24-M8	**310074**
	10mm	25	A24-M10	**310075**
	12mm	25	A24-M12	**310076**
	14mm	25	A24-M14	**310077**
	16mm	25	A24-M16	**310078**
	20mm	25	A24-M20	**310079**
150mm	8mm	25	A30-M8	**310086**
	10mm	25	A30-M10	**310087**
	12mm	25	A30-M12	**310088**
	14mm	25	A30-M14	**933800**
	16mm	25	A30-M16	**310090**
	20mm	25	A30-M20	**310091**
185mm	10mm	25	A37-M10	**310096**
	12mm	25	A37-M12	**310097**
	14mm	25	A37-M14	**310098**
	16mm	15	A37-M16	**310099**
	20mm	15	A37-M20	**310100**
240mm	10mm	15	A48-M10	**310105**
	12mm	10	A48-M12	**310106**
	14mm	10	A48-M14	**310107**
	16mm	10	A48-M16	**310108**
	20mm	10	48-M20	**310109**
300mm	10mm	10	A60-M10	**310111**
	12mm	10	A60-M12	**310112**
	16mm	10	A60-M16	**310114**
	20mm	10	A60-M20	**310115**
400mm	12mm	5	A80-M12	**310118**
	16mm	5	A80-M16	**310119**
	20mm	5	A80-M20	**310120**
500mm	12mm		A100-M12	**310133**
	16mm		A100-M16	**310123**
	20mm		A100-M20	**310124**

Uninsulated Pin Cable Terminals

A-P series pin connectors are designed to terminate conductors into contact blocks. They are manufactured from copper strip, rolled, brazed and tin plated.

Cable Size	Pin Size W x Lmm	Box Qty	Cembre Ref No	JPL Code
10mm²	4.3 x 14.5	100	A2 - P12	**310141**
16mm²	5.5 x 18.0	100	A3 - P14	**310142**
25mm²	7.0 x 20.3	100	A5 - P16	**310146**
35mm²	8.0 x 24.5	100	A7 - P20	**310143**
50mm²	9.5 x 26.0	50	A10 - P25	**310144**
70mm²	11.0 x 31.0	50	A14 - P30	**310145**

Uninsulated Copper Though Connectors

Connectors for jointing low voltage conductors. Made of electrolytic copper tube having the same dimension as A-M series lugs. They feature an internal taper at both ends to ease the introduction of the conductor and a central stop to ensure correct positioning.

Cable Size	Dia x Lengthmm	Box Qty	Cembre Ref No	JPL Code
4-6mm²	3.6 x 22	100	L1-M	**310277**
10mm²	4.6 x 25	100	L2-M	**310278**
16mm²	5.8 x 27	100	L3-M	**310279**
25mm²	7.0 x 29	100	L5-M	**310280**
35mm²	8.9 x 33	100	L7-M	**310281**
50mm²	10.0 x 37	50	L10-M	**310282**
70mm²	11.3 x 39	50	L14-M	**310283**
95mm²	13.5 x 43	25	L19-M	**310284**
120mm²	15.2 x 47	25	L24-M	**310285**
150mm²	16.7 x 58	25	L30-M	**310286**
185mm²	19.2 x 64	25	L37-M	**310287**
240mm²	21.1 x 75	15	L48-M	**310288**
300mm²	23.7 x 90	10	L60-M	**310289**

Transformer Lugs

A-4ESI series Cembre transformer lugs are made from high purity electrolytic copper tube, annealed and tin plated. The four hole stud fixing in accordance with E.A. specifications ensure compatibility with most transformer fixing arrangements. The high copper content of the lugs ensures they can carry the same current as the conductor and each terminal is marked with the manufacturer and lug size for confidence in traceability.

Cable Size	Box Qty	Cembre Ref No	JPL Code
185mm²	10	A37-4ESI	**310102**
240mm²	10	A48-4ESI	**310103**
300mm²	10	A60-4ESI	**310117**
400mm²	5	A80-4ESI	**310122**
500mm²	5	A100-4ESI	**310126**
630mm²	5	A120-4ESI	**310130**
800mm²	4	A160-4ESI	**933795**

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Manual Ratchet Crimpers

Cembre Crimpstar Ratchet Range

Compact, lightweight and easy to use. High precision cast jaws. Ratchet controlled to ensure precise and consistent crimping.

HP3

HN1

HN5

To Crimp	Cembre Ref No	Range	JPL Code
Insulated terminals and connectors	HP3	0.25-6mm^2	**311017**
Un-Insulated terminals and connectors	HN1	0.25-10mm^2	**311015**
	HN5	10-16mm^2	**311016**

Cembre ND Ratchet Range

A new generation of ratchet tool, with a unique mechanism to reduce operator effort. Small and compact, with ergonomically design and manufacturing technology, produce a reliable tool with a guaranteed consistent, crimping action. Able to crimp both insulated and uninsulated end sleeves.

To Crimp	Cembre Ref No	Range	JPL Code
Un-Insulate and Insulated end sleeves	ND1	0.3 - 1.5mm^2	**311026**
	ND2	1 - 6mm^2	**311027**
	ND3	6 - 16mm^2	**311028**
	ND4	0.5 - 4mm^2	**311029**

Mechanical Crimpers

Manual tool with and increased size capacity for un-insulated terminals and connectors

Cembre Ref No	Range	JPL Code
TN70SE	6 - 70mm^2	**311001**
TN120SE	10-120mm^2	**311003**

B500E 18V Cembre Hydraulic Cordless Crimping Tool

The new B 500E cordless hydraulic crimping tool is suitable for a wide range of connectors up to 240mm^2 using die sets common to the Cembre 50kN tooling range. New Li-Ion 18 V 4 Ah batteries enable the tool to offer a greater crimping speed and powerful crimping. A maximum pressure sensor and pressure release valve assures greater precision and repeatability of the pressure cycle and gives greater operator safety.
The display provides essential real time tool operating information data including:

- Crimping pressure and force being generated, for confirmation of adherence to norms and best practice.
- Battery power availability
- Tool identification, LED work light state, reset, number of operational and service crimping cycles

It is recommended that the tool is serviced to maintain optimum condition.
Additional convenience and safety are provided by LED lighting of the working area. Crimping cycle data (up to 200,000 events) is automatically stored on a memory card for transfer to PC by USB interface.
Tool is supplied with:

- 2x 18 V 4 Ah batteries and charger
- Shoulder strap
- Plastic carry case suitable for storing the tool and 20 die sets (dies are not included with the tool)

Max selection for main applications mm^2: L.V lugs and splices: 240mm^2 insulated Terminals: 120mm^2 end sleeves: 120mm^2

Nominal Compression Force	Dimesions of tool Length	Height	Width	Battery	Weight (with battery)	JPL Code
63kN	300mm	343mm	83mm	18V 4.0Ah	4.2 kg	**311092**

Hydraulic Crimper

HT51

Two speed hydraulic tool, lightweight and compact, this tool is ideal for working in confined spaces. Having the benefit of spring loaded handles, the dies can be advanced using only one hand; therefore leaving the other hand free to position the connector.
For ease of operation and comfort of the operator, the tool head can be fully roatated through 180 degrees. The built in safety valve will by-pass the oil supply when the maximum pressure is reached, and a pressure release system can easily be operated at any stage of the compression.

Max Selection for Main Applications mm^2
L.V lugs and Splices: 240 mm^2
Insulated Terminals: 120 mm^2
End Sleeves: 120 mm^2
"C" Sleeve Connectors: 70 mm^2

Nominal Compression Force	Dimesions of tool Length	Width	Weight	JPL Code
50kN	380mm	130mm	2.7kg	**311030**

HT131-C

This new model, self-contained, robust and sturdy, will accept all semi-circular slotted dies, common to most 130kN tools. The tool features a fast advancing speed for rapid approach of the dies to the connector and a slower more powerful speed for crimping.
For ease of operation and comfort of the operator the tool head can be fully rotated through 180 degrees.

Max Selection for Main Applications mm^2
L.V lugs: 400 mm^2
L.V Splices: 240 mm^2
Insulated Terminals: 240 mm^2
End Sleeves: 120 mm^2
"C" Sleeve Connectors: 185 mm^2
H.V lugs: 400 mm^2
H.V Splices: 240 mm^2

Nominal Compression Force	Dimesions of tool Length	Width	Jaw Opening	Weight	JPL Code
130kN	473mm	144mm	25mm	5.5kg	**311050**

HT-TC0851

A fast advancing speed action: a fast advancing approach of the blades to the cable and a slower more powerful speed for cutting. The blades are manufactured from high strength special steel, heat treated to ensure a long service life. The head can easily be opened at allow the cutting of running cables, and can rotate through 180 degrees, to enable the operator to work in the most comfortable position. HT-TC0851 features an automatic safety valve to bypass oil when reaching maximum pressure; a pressure release device can also be operated at any stage of the operation.

Max Cutting	Dimesions of tool Length	Width	Weight	JPL Code
85mm	652.5mm	175mm	6.6kg	**311143**

Hydraulic crimping tools, dies and cutting tools are available for hire. Please contact a member of Customer Service for details.

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Critchley Z Type Cable Markers- Straight Cut

Push on marking labelling system for cable.

Ref	Cable Dia	Cable Size mm²	Marker Size	Reel Qty	Colour	Category	JPL Code
0580	1.5 – 2.0mm		5	1000	Black/White	Numbers	**33101x**
					Black/White	Letters/Symbols	**33102x**
					Colour Coded	Numbers	**33139x**
0581	2.5 – 3.2mm	1.0mm²	7	1000	Black/White	Numbers	**33105x**
					Black/White	Letters/Symbols	**33106x**
					Colour Coded	Numbers	**33142x**
0615	2.5 – 4.0mm	1.5mm²	9	1000	Black/White	Numbers	**33109x**
					Black/White	Letters/Symbols	**33110x**
					Colour Coded	Numbers	**33145x**
0616	2.9 – 4.7mm	2.5mm²	11	1000	Black/White	Numbers	**33113x**
					Black/White	Letters/Symbols	**33114x**
					Colour Coded	Numbers	**33148x**
0617	3.4 – 5.7mm	4.0mm²	13	1000	Black/White	Numbers	**33117x**
					Black/White	Letters/Symbols	**33118x**
					Colour Coded	Numbers	**33151x**
0618	3.8 – 6.3mm	6.0mm²	15	1000	Black/White	Numbers	**33121x**
					Black/White	Letters/Symbols	**33122x**
					Colour Coded	Numbers	**33154x**
0620	4.3 – 6.9mm	10.0mm²	18	500	Black/White	Numbers	**33125x**
					Black/White	Letters/Symbols	**33126x**
					Colour Coded	Numbers	**33157x**
0622	5.5 – 8.9mm	16.0mm²	23	500	Black/White	Numbers	**33129x**
					Black/White	Letters/Symbols	**33130x**
0624	7.9 – 12.7mm	25.0mm²	35	250	Black/White	Numbers	**33133x**
					Black/White	Letters/Symbols	**33134x**

JPL Code Key

The 'x' at the end of the JPL Code should be replaced by the number, letter or symbol of the marker required, e.g 33135Y

Colour Coded markers are packed in boxes, and are only available in numbers, all others are packed in reels.

*Nominal conductor size applies to cables BICC ref no. 6491X

Critchley Z Type Applicators

A complete range of Teflon coated applicators are available to reduce installation time and increase efficiency of the Critchley marker system.

Reference	Marker Size	JPL Code
1251	7	**331691**
1252	9	**331692**
1253	11	**331693**
1254	13	**331694**
1255	15	**331695**
1256	18	**331696**

Critchley K Type Cable Markers

Used to identify cables with a carrier strip.

Ref	Cable Dia	Reel Qty	Colour	Category	JPL Code
1361	4.2 – 7.0mm	500	Black/White	Numbers	**33164x**
			Black/White	Letters/Symbols	**33165x**
			Black/Yellow	Numbers	**33166x**
			Black/Yellow	Letters/Symbols	**33167x**
			Colour Coded	Numbers	**33168x**

JPL Code Key

The 'x' at the end of the JPL Code should be replaced by the number, letter or symbol of the marker required, e.g 33135Y

Colour Coded markers are packed in boxes, and are only available in numbers, all others are packed in reels.

Ref	No. Tags per Strip	Box Qty	JPL Code
1132	7 digit	500	**331702**
1131	12 digit	500	**331701**
1130	18 digit	250	**331700**

Critchley K Type Cable Markers Carrier Strips

Strips to hold K type cable markers.

Cable Ties

Black and Natural LSF branded nylon cable ties. Flammability rating: UL94V-2 (self extinguishing within 30 seconds).
UV resistant for outdoor use (black ties only). Black ties are halogen free.
Available in packs of 100.

L x W	Natural JPL Code	Black JPL Code
100 x 2.5mm	**323211**	**323161**
135 x 2.5mm	**323233**	**323234**
140 x 3.6mm	**323214**	**323164**
160 x 2.5mm	**323212**	**323162**
160 x 4.8mm	**323218**	**323168**
200 x 2.5mm	**323213**	**323163**
200 x 3.6mm	**323215**	**323165**
200 x 4.8mm	**323219**	**323169**
240 x 7.8mm	**323224**	**323174**
250 x 4.8mm	**323220**	**323170**

L x W	Natural JPL Code	Black JPL Code
300 x 3.6mm	**323216**	**323166**
300 x 4.8mm	**323221**	**323171**
300 x 7.8mm	**323225**	**323175**
370 x 4.8mm	**323222**	**323172**
370 x 7.8mm	**323226**	**323176**
430 x 4.8mm	**323223**	**323173**
450 x 8.0mm	**323227**	**323177**
500 x 12.6mm	**323231**	**323181**
540 x 8.0mm	**323228**	**323178**

Coloured Cable Ties

Coloured LSF Cables ties. Available in packs of 100.

Size L x W	Blue JPL Code	Green JPL Code	Red JPL Code	Yellow JPL Code
100 x 2.5mm	**323142**	**323143**	**323141**	**323144**
200 x 4.8mm	**323147**	**323148**	**323146**	**323149**
300 x 4.8mm	**323152**	**323153**	**323151**	**323154**

Cable Tie Tensioner for Nylon Cable Ties

Description	JPL Code
Light Duty: Moulded cable tie tensioning tool complete with cut off facility for nylon ties 2.2mm - 4.8mm width.	**323158**
Heavy Duty: as above except Metal Body	**323159**

Description	Cable Width	Box Qty	Natural JPL Cod	Black JPL Code
Two Way	3.6mm	100	**323204**	**323304**
	4.8mm	100	**323205**	**323305**
Cradles	4.8mm	100	**323210**	**323310**

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Stainless Steel Cable Ties

BAND-IT

Bandit stainless steel cable ties provide exceptional corrosion resistance, where weathering, corrosion, temperature and radiation are a concern. Manufactured from grade 316 stainless steel the cable ties are available either uncoated or coated. The coating is Plascoat PPA571 which provides the ultimate in corrosion resistance, stress cracking, weather, detergents and salt spray. All the stainless steel cable ties are reusable and capable of double wrapping for special strength applications and reliable installation.

Size L x W mm	Box Qty	Uncoated JPL Code	Black PPA Coated JPL Code
152 x 6.4	100	**214101**	**214111**
229 x 6.4	100	**214102**	**214112**
305 x 6.4	100	**214103**	**214113**
457 x 6.4	100	**214104**	**214114**
610 x 6.4	100	**214105**	**214115**

Type	JPL Code
AE200 Hand tool for tensioning BAND-IT stainless steel cable ties.	**317204**

SWA Roller-Ball Lock Ties

Stainless steel (AISI 316) with a unique locking ball mechanism that allows the tie to be quickly and easily installed. The tie is ideal for use in environmentally harsh conditions where subjected to various chemicals, acids, salts, and high temperatures. Black epoxy coated LSZH (low smoke, zero halogen) version is also available providing additional insulation and protection to the bundle materials.
Min. Operating Temp: -35C
Max. Operating Temp: +180C

Size L x W mm	Box Qty	Uncoated JPL Code	Black PPA Coated JPL Code
201 x 4.6	100	**214141**	**214173**
266 x 4.6	100	**214142**	**214174**
300 x 4.6	100	**214143**	
362 x 4.6	100	**214145**	**214175**
521 x 7.9	100	**214146**	**214176**

Caddy Cable & Conduit Clips

ERICO

Erico Caddy LR Clip

Supports single run of cable. The clip attaches easily to a beam or joist.

Caddy Ref	Flange Thickness	Outer Dia	Box Qty	JPL Code
LR1	3 – 6mm	8 -15mm	100	**306443**
LR2	6 -12mm	8 -15mm	100	**306444**

Erico Caddy SC Clip

The CADDY SC Clip range is a hammer on clip designed for installing cables or tubes with diameters 6-32mm onto steel beams with a profile up to 12mm thick.

Caddy Ref	Flange Thickness	Suitable Dia	Box Qty	JPL Code
24SC67	2 - 4mm	6 - 7mm	100	**306723**
24SC78	2 - 4mm	7 - 8mm	100	**306721**
24SC89	2 - 4mm	8 - 9mm	100	**306724**
24SC910	2 - 4mm	9 - 10mm	100	**306722**
24SC1011	2 - 4mm	10 - 11mm	100	**306725**
24SC1214	2 - 4mm	12 - 14mm	100	**306726**
24SC1518	2 - 4mm	15 - 18mm	100	**306727**
24SC1924	2 - 4mm	19 - 24mm	100	**306728**
24SC2530	2 - 4mm	25 - 32mm	100	**306729**
47SC67	4 - 7mm	6 - 7mm	100	**306730**
47SC78	4 - 7mm	7 - 8mm	100	**306750**
47SC89	4 - 7mm	8 - 9mm	100	**306731**
47SC910	4 - 7mm	9 - 10mm	100	**306751**
47SC1011	4 - 7mm	10 - 11mm	100	**306732**
47SC1214	4 - 7mm	12 - 14mm	100	**306733**
47SC1518	4 - 7mm	15 - 18mm	100	**306734**
47SC1924	4 - 7mm	19 - 24mm	100	**306735**
47SC2530	4 - 7mm	25 - 32mm	100	**306736**

Erico Caddy SC Clip (continued)

Caddy Ref	Flange Thickness	Suitable Dia	Box Qty	JPL Code
812SC67	8 - 12mm	6 - 7mm	100	**306737**
812SC78	8 - 12mm	7 - 8mm	100	**306752**
812SC89	8 - 12mm	8 - 9mm	100	**306738**
812SC910	8 - 12mm	9 - 10mm	100	**306753**
812SC1011	8 - 12mm	10 - 11mm	100	**306739**
812SC1214	8 - 12mm	12 - 14mm	100	**306740**
812SC1518	8 - 12mm	15 - 18mm	100	**306741**
812SC1924	8 - 12mm	19 - 24mm	100	**306742**
812SC2530	8 - 12mm	25 - 32mm	100	**306743**

Erico Caddy SCA/SCB Clip

The CADDY SCA/SCB Clip range is a hammer on clip designed for installing cables or tubes onto thick steel beams. It requires up to three 24SC clips to hold the cable or tubes as desired.

Caddy Ref	Flange Thickness	Box Qty	JPL Code
SCA	13 - 20	100	**306744**
SCB	3 - 12	100	**306745**
SCB	12 - 20	100	**306746**

Erico Caddy H-MSM Clip

The CADDY H-MSM Clip range is a hammer on clip for securing conduit and tubes to the side of metal beams.

Caddy Ref	Flange Thickness	Diameter	Box Qty	JPL Code
812M4SM	2 - 3mm	18 - 30mm	100	**306550**
812M24SM	3 - 8mm	18 - 30mm	100	**306551**
812M58SM	8 - 14mm	18 - 30mm	100	**306552**
812M912SM	14 - 20mm	18 - 30mm	100	**306553**

Erico Caddy H-CT Clip

The CADDY H-CT Clip range is a hammer on clip designed for attaching cable ties up 9mm wide to metal beams.

Caddy Ref	Flange Thicknes	Box Qty	JPL Code
4H24CT	3 - 8mm	100	**306339**
4H58CT	8 - 14mm	100	**306340**
4H912CT	14 - 20mm	100	**306341**

Erico Caddy LI Clip

Easily fixes fire-resistant cables to brickwork, concrete, masonry, wood studs and wood beams. Pre drilled hole required for installation. Clip has a corrosion-resistant coating. Installs up to 70% faster than saddle clips

Caddy Ref	Clip Colour	Outer Dia	Drill Bit Dia	Drill Hole Depth	Static Load	Box Qty	JPL Code
LI1	Red	6 - 8mm	6mm	40mm	107 N	100	**932466**
LI1B	Black	6 - 8mm	6mm	40mm	107 N	100	**179057**
LI1W	White	6 - 8mm	6mm	40mm	107 N	100	**179059**
LI2	Red	9 - 11mm	6mm	40mm	107 N	100	**932467**
LI2B	Black	9 - 11mm	6mm	40mm	107 N	100	**179058**
LI2W	White	9 - 11mm	6mm	40mm	107 N	100	**179061**

Erico Caddy LF Clip

The LF Clip supports up to two runs of cables and is easily attached to a beam or joist.

Clip	Flange Thickness	Length	Box Qty	JPL Code
LF2	5 - 12mm	45mm	100	**306424**
LF3	12 - 20mm	63mm	100	**306425**
LF4	3 - 6mm	42mm	100	**306427**
LF5	6 - 12mm	49mm	100	**306426**

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Fischer E-Fix Cable Clips & Clamps

The complete clip combines anchor, screw and clamp. This saves materials, allows for one-handed installation, and reduces assembly time. The three different sizes of each of the cable strap LS, twin clamp ZS and single clamp ES cover a range of cable diameters. The long-lasting nylon material is flame resistant, halogen and silicone-free, can be used all year round, including during a frost. All clips require a 6mm drill bit for installation.

Type		Clamping Range	Drill Depth	Box Qty	JPL Code
Cable Strap	LS3/13	3 - 13mm	35mm	100	**330859**
	LS8/25	8 - 28mm	50mm	100	**330860**
	LS20/40	20 - 40mm	50mm	100	**330861**
Single Strap	ES10	3 - 12mm	40mm	100	**933736**
	ES18	10 - 25mm	40mm	100	**933737**
Twin Clamp	ZS10	3 - 12mm	35mm	100	**330862**
	ZS18	10 - 25mm	40mm	100	**330863**
	ZS28	15 - 31mm	40mm	75	**330864**

Fischer Cable Clasp KB Plus SF

The clamp ideal for the fixing of several individual cables. The cables are clamped under the clasps and any additional cables can be easily laid even after installation. The clip can either come plain or with a combined anchor and screw. Temperature resistance once installed from -20°C to +80°C.

Type	Dimensions	Drill Hole Dia	Box Qty	JPL Code
KB8	15 x 133mm		50	**330850**
KB16	15 x 230mm		50	**330851**
KB8 with SF Plus	15 x 133mm	6mm	50	**330857**
KB16 with SF Plus	15 x 230mm	6mm	25	**330858**

Fischer Cable Harness SHA

The SHA cable harness is designed for the fixing of loose or bundled electrical cables. The seal of the cable harness SHA makes it easy to add or remove cables at a later stage. Multiple SHA cable harnesses can be mounted together to allow for a cost-effective fixing of cables to just one MS installation base. The MS installation base allows for various fixing options, and allows for great flexibility for the installation. Made from a long-lasting nylon material that is halogen and silicone-free.

Type	Dimensions a x b (mm)	Max Number of Ducts	Box Qty	JPL Code
SHA 15	93 x 49	15 ducts NYM 3 x 1.5	50	**330852**
SHA 30	128 x 59	30 ducts NYM 3 x 1.5	25	**330853**
SHA MS	Installation base		50	**330854**
SHA KP	Connection piece		50	**330855**

A series of individual cable clips with pins.

Description	Size	Box Qty	Black JPL Code	Grey JPL Code	White JPL Code
Round	2.75mm	100			**301171**
	3.5mm	100	**301172**		**301173**
	4.0mm	100	**301174**		**301175**
	5.0mm	100	**301176**		**301177**
	6.0mm	100	**301178**		**301179**
	7.0mm	100	**301180**		**301181**
	8.0mm	100	**301182**		**301183**
	9.0mm	100	**301184**		**301185**
	10.0mm	100			**301187**
	11.0mm	100	**301188**		**301189**
	12.0mm	100	**301190**		**301191**
	14.0mm	50	**301192**		**301193**
	16.0mm	50			**301195**
Flat Twin & Earth	1.0mm	100		**301121**	
	1.5mm	100		**301124**	
	2.5mm	100		**301127**	
	4.0mm	100		**301130**	
	6.0mm	100		**301133**	
	10.0mm	100		**301136**	
Three Core and Earth	1.5mm	100		**301161**	

Cable Cleat Selection Chart

Number of Cores PVC/XLPE	1	2	3	4	7	12	19	27
Cable mm^2								
1- 5		5	5	6	6	8	9	10
2 - 5		6	6	6	7	9	10	12
4		6	7	7	8	11		
6		7	8	8				
10		8	9	9				
16		9	10	11				
25		10	11	12				
35		12	12	14				
50	7	11	12	14				
70	8	12	14	16				
95	9	14	16	18				
120	10	16	16	20				
150	11	16	18					
185	12	18	20					
240	14	20						
300	16							
400	16							
500	18							
630	20							

Cable Cleats

Cable cleats to help and secure and protect cables.

Type	Box Qty	PVC JPL Code	LSF JPL Code
No.3	100	**318003**	
No.4	100	**318004**	
No.5	100	**318005**	**318025**
No.6	100	**318006**	**318026**
No.7	100	**318007**	**318027**
No.8	100	**318008**	**318028**
No.9	100	**318009**	**318029**
No.10	100	**318010**	**318030**
No.11	50	**318011**	**318031**
No.12	50	**318012**	**318032**
No.14	50	**318014**	**318033**
No.16	50	**318016**	**318034**
No.18	50	**318018**	**318035**
No.20	50	**318020**	**318036**
2"-3" Clamp	1	**318023**	

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Earth Clamps

Type	Size inches	Cat Code	Box Qty	JPL Code
ECB14- Brass body,	½ - 1 ¼	ECB14	20	**320001**
Phosphor bronze strap.	1 ¼ - 2	ECB14-2	20	**320002**
Dry Conditions	2 – 3	ECB14-3	20	**320003**
PB15- Phosphor Bronze body	½ - 1 ¼	ECPB15	20	**320011**
and strap. All Conditions	1 ¼ - 2	ECPB15-2	20	**320012**
	2 – 3	ECPB15-3	20	**320013**
PB16- Phosphor bronze body	½ - 1 ¼	ECPB16	20	**320021**
and strap.	1 ¼ - 2	ECPB16-2	20	**320022**
All conditions, heavy duty.	2 – 3	ECPB16-3	20	**320023**
Safety Label		ECL	100	**320030**

Insulation Tape

33m Roll of Insulation tape Available in a range of sizes and colours. Manufactured from flame retardant self extinguishing PVC to BS EN 60454.

Colour	19mm width JPL Code	50mm width JPL Code
Black	**333201**	**333601**
Blue	**333202**	
Brown	**333203**	
Grey	**333204**	
Green	**333206**	
Green/Yellow	**333207**	
Red	**333209**	
White	**333211**	**333611**
Yellow	**333212**	**333612**

All Round Band

10m Reel.

Coat Colour	12mm wide Galv Steel (5mm hole) JPL Code	17mm wide Galv Steel (7mm hole) JPL Code
Black	**214001**	**214011**
Copper	**214002**	**214012**
Galv (uncoated)	**214003**	**214013**
Grey	**214004**	**214014**
Orange	**214005**	**214015**
Red	**214006**	**214016**
Stainless (uncoated)	**214007**	**214017**
White	**214008**	**214018**

Grommets & Grommet Strips

Grommets

Traditional grommets to protect cabling from damage from metal containment units.

Size	Box Qty	Blind JPL Code	Open JPL Code
M20	100	**334020**	**334120**
M25	100	**334025**	**334125**
M32	100	**334032**	**334132**
M40	50	**334040**	**334140**
M50	25	**334050**	**334150**

Rapid Grommets

Works like a traditional grommet except it is tapered on one end, for faster installation.

Size	Box Qty	Blind JPL Code	Open JPL Code
M20	100	**334021**	**334121**
M25	100	**334026**	**334126**
M32	50	**334033**	

Grommets & Grommet Strips

Grommet Strip

Edging protection for metal. Comes in coils designed to be cut to length.

Length	Size	JPL Code
25m	1.0 – 1.2mm	**334201**
	1.2 – 1.6mm	**334202**
	1.6 – 2.0mm	**334203**
	2.0 – 2.4mm	**334204**
	2.4 – 3.2mm	**334205**
	4.5 – 5.5mm	**334206**
50m	1.5 – 2.8mm	**334200**

Cable Sleeving

PVC and LSF Cable Sleeving

For the bundling and protection of cables. LSF sleeving is a halogen free, low smoke cable sleeving, designed to meet the current requirements. The compound meets the requirements of DIN/VDE 0207 and BS6724 and should be used where normal PVC sleeving is considered unsuitable. Length of sleeving is 100m

Type	Size	Green/Yellow JPL Code	Brown JPL Code	Grey JPL Code	Blue JPL Code	Black JPL Code	Green JPL Code
PVC	1.5mm	**334251**					
	2.0mm	**334252**	**334292**	**334272**	**334282**	**334262**	**334242**
	3.0mm	**334253**	**334293**	**334273**	**334283**	**334263**	**334243**
	4.0mm	**334254**	**334294**	**334274**	**334284**	**334264**	**334244**
	5.0mm	**334255**	**334295**	**334275**	**334285**	**334265**	**334245**
	6.0mm	**334256**	**334296**	**334276**	**334286**	**334266**	**334246**
	8.0mm	**933728**	**933726**	**334277**	**933724**	**334278**	
	10.0mm	**334259**	**934246**	**933727**	**933725**	**934247**	
LSF	2.0mm	**334222**					
	3.0mm	**334323**	**334333**		**334353**		
	4.0mm	**334324**	**334334**		**334354**		
	5.0mm	**334325**	**334335**		**334355**		
	6.0mm	**334326**	**334336**		**334356**		
	10.0mm	**334329**					

Draw Tapes

Draw Tapes

For routing new wiring through walls and conduit.

Type	JPL Code
10 Metre Nylon	**337915**
30 Metre Nylon	**337916**

CK Nylon Draw Tapes

Low friction and high strength during cable pulling applications. Flexible head attachment for navigating conduit with multiple bends. Red coloured tape for improved visibility in conduit with existing cables. Robust plastic casing for convenience during tape rewind, storage and transportation. Non-conductive properties for safe working practices.

Type	JPL Code
10m	**495050**
15m	**495051**
20m	**495052**
25m	**495053**
30m	**495054**

CK Mighty Rod Cable Rod Set

Triple bonded, zinc plated steel connectors for extreme torsion and tensile strength – threaded, crimped & glued. Slimline connectors reduce snagging and provide accessibility through smaller holes. 5mm diameter rods offer the optimal balance of rigidity and flexibility for the majority of cable routing requirements. High sheen fibreglass and resin composite rods minimise snagging and splintering.

Set Contents	JPL Code
10 x 1m rods, cable hook, 190mm coiled steel flexi lead, mini eye & ring, 5mm adapter.	**934251**

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Connector Strips

12 Way terminal connector strips

Made from Natural Polyethylene.

Amp	Box Qty	JPL Code
3	10	**319101**
5	10	**319102**
10	10	**319106**
15	10	**319103**
30	10	**319104**
60	10	**319105**

Porcelain Connector Strip

Amp	No of Poles	JPL Code
5	1	**319402**
	2	**319502**
	3	**319702**
15	1	**319403**
	2	**319503**
	3	**319703**
30	1	**319404**
	2	**319504**
	3	**319704**

Helacon Connectors

Helacon connectors offer a tool free alternative to traditional connector strips and are particularly suited to jobs where access is restricted, when working overhead or at height.

Connections	Colour	Box Qty	JPL Code
2	Yellow	100	**319801**
3	Orange	100	**319802**
4	Clear	75	**319803**
5	Blue	50	**319804**
6	Violet	50	**319805**
8	Grey	40	**319806**

ChocBox Connectors

The ChocBox is a plastic box to insulate connector blocks, used as a junction box for fixed wiring and an inline connector when used with cord grips supplied. Dimensions: 90 x 50 x 30mm.

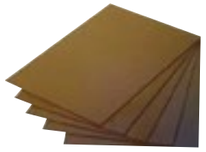
Type	JPL Code
Terminal enclosure with 30a 3 way connector strip	**319809**

Rotary Isolators

4 pole (weather proof) rotary isolator with a padlock facility to prevent unauthorised switching, 2 x 20mm knockouts, 125x100x102mm.

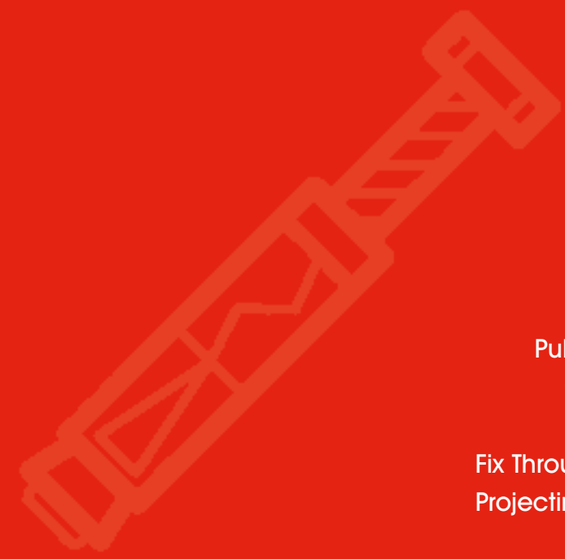
Type	JPL Code
25A 11KW 415v	**934258**
32A 15KW 415v	**934259**

Paxolin Sheet



Paxolin sheets are a paper based laminate that offers good mechanical and electrical insulation properties in low voltage applications.

Type	JPL Code
1200 X 1200 x 6mm	**429401**



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Jack Pennington ltd
Mechanical - Electrical - Fixings - Tooling - Site Services

Pulsa 800E Tool & Accessories

Spit's Pulsa 800E is their new cordless gas nailer ideally suited to the Mechanical & Electrical (M&E) contractor market. A range of pins are suitable for fixing into steel, standard concrete (C25) and hard concrete (>C25).

Applications
- Skirting & dado trunking systems
- Mini trunking • Metal trunking • Fire resistant cabling systems (Prysmian FireFix) • Conduit boxes, metal and PVC
- Conduit tube, steel, PVC and flexible

It allows rapid installation, 2 pins per second with each battery charge lasting a minimum of 1500 pins up to 3000, with a 90 minute recharge cycle. The fuel cells lock in place and can be easily ejected, a battery 'OFF' puts the machine in a safe mode without the need to remove pins or gas. A selector allows simple embedment depth choice, allowing the versatility to fire into different substrates. Comes with a 2 year warranty.

SUBSTRATES: • Concrete • Steel

Pulsa 800E

Product	JPL Code
Spit Pulsa 800E Cordless Gas Nailer	**900106**

Pulsa Battery

Flat Magnetic Pin Guide

Accessories

Product	JPL Code
3.7v 2.2Ah Li-Ion Battery	**900107**
Magnetic Pin guide (for use with 25mm washers 011204)	**014641**

Pulsa Pins for Hardened Concrete & Steel

Length	Box Qty	JPL Code
15mm	500	**900141**
17mm	500	**900142**
22mm	500	**900143**
27mm	500	**900144**
32mm	500	**900145**

Pulsa Standard Pins Hardened Concrete and Steel

For use in harder substrates with higher aggregate content. Collation stays intact when fixed.

50 x 10 Pin Strips and 1 fuel cell per box.
Only suitable for the Pulsa 800E gas nail gun.

Length	Box Qty	JPL Code
15mm	500	**900146**
17mm	500	**900147**
22mm	500	**900148**
27mm	500	**900149**

Pulsa Flush Head Pins Hardened Concrete and Steel

Collation fragments on impact to leave pin 'flush' to the fixed article.

50 x 10 Pin Strips and 1 fuel cell per box.
Only suitable for the Pulsa 800E gas nail gun.

Pulsa Pins for Standard Concrete

Length	Box Qty	JPL Code
20mm	500	**900171**
25mm	500	**900172**
30mm	500	**900173**
35mm	500	**900174**
40mm (Flush Head)	500	**900175**

Pulsa Standard Pins Standard Concrete

All-purpose collated pins for fixing into concrete. Pins designed for use in standard applications. Collation remains intact when fixed.

50 x 10 Pin Strips and 1 fuel cell per box.
Only suitable for the Pulsa 800E gas nail gun.

Length	Box Qty	JPL Code
20mm	500	**900176**
25mm	500	**900177**
30mm	500	**900178**
35mm	500	**900179**

Pulsa Soft Washered Pins Standard Concrete

Pins for fixing brittle articles into concrete e.g. Electrical back boxes. The collation cushions the head of the pin to reduce impact. Single shot only and cannot be used in magazine.

50 x 10 Pin Strips and 1 fuel cell per box.
Only suitable for the Pulsa 800E gas nail gun.

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Pulsa Prysmian FireFix Clip

Unique cable fixing from Prysmian, used to fix fire performance cables up to ten times quicker than conventional methods. Both Single and double clips are available. The double clip requires an adaptor, which is included in a box of clips. Available in Red and White.

Type	Size	Cable Diameter Suitability	Box Qty	JPL Code Red	JPL Code White
Single	1	8.0mm - 8.2mm	500	**900161**	**900164**
Double	2	8.0mm - 8.5mm	200	**900162**	**900165**
Double	4	8.0mm - 9.5mm	200	**900163**	**900166**

Pulsa Extras

Pulsa Threaded Rod Hanger

Holds threaded rod up to 600mm long, chain or suspension cables can be hung from the clip - Unique design enables the quality of the fixing to be tested as it is bent into place. Maximum Load 10kg. Static loads only - Unsuitable for dynamic loads. Please note - Do not use Pulsa with rod exceeding 600mm or rod diameter greater than 8mm.

Bossed	Box Qty	JPL Code
M6/8	100	**900158**

Pulsa Cable Bows

Designed for use with cables, replacing the need for cable and basket trays - Both single and double cable bows are available. Single holding 8 cables per fixing and double holding 16 per fixing.

Type	Box Qty	JPL Code
Single (8 Cables)	50	**900151**
Single (8 Cables) Fire Retardant	50	**931921**
Double (16 Cables)	25	**931920**
Double (16 Cables) Fire Retardant	25	**931922**

Pulsa Polypropylene P Clips

Designed to fasten conduit and pipework, primarily to floors and walls. Made from impact resistant polypropylene, it offers a lower cost option to metal clips, will not corrode, and will allow pipes to expand and contract.
Single and Double P clips are available.

Type	Size	Box Qty	JPL Code
Single	16mm	150	**565080**
Single	20mm	100	**565082**
Single	22mm	100	**565083**
Single	25mm	50	**565084**
Double	16mm	50	**565085**
Double	20mm	50	**565086**
Double	22mm	50	**565087**

Pulsa Steel P Clip

Designed to fix pipework and conduit, primarily to the floors and walls - Clips available in diameter 8mm to 28mm

Size	Box Qty	JPL Code
8mm	300	**016984**
10mm	300	**016985**
16mm	150	**016988**
20mm	150	**016990**
25mm	100	**016993**
28mm	100	**016994**
32mm	50	**016995**

Pulsa All Purpose Cable Tie Clip

Used for cable, conduit and pipework -
For use with cable ties (not included)

Colour	Box Qty	JPL Code
Black	100	**900153**

Pulsa CT Clip

The CT Clip is moulded with a cable tie. Suitable to hold pipes, cable and conduit up to 32mm in diameter.
Can be used in temperatures down to -5°C.

Colour	Box Qty	JPL Code
Grey	100	**900154**

Pulsa E Clip Conduit Clip

For fast installation of pipework and conduit - The E clip is designed to clip easily onto the Pulsa 800E pin guide from the side, allowing one handed operation.
Available in both black (certain sizes) and grey.

Length	Box Qty	JPL Code Grey	JPL Code Black
20mm	100	**565032**	**565532**
25mm	100	**565033**	**565533**
32mm	50	**565034**	
40mm	50	**931918**	

Pulsa Washers

25mm Steel Washer. For the Pulsa 800 Gas Nailer.
To be used with a Magnetic Pin Guide.

Product	Box Qty	JPL Code
25mm Steel Washer	1000	**931944**

Tapcon Concrete Screws

Countersunk

Thread Diameter	Anchor Length	Fixture Thickness	Pilot Hole Size	Drive Size	Box Qty	JPL Code
5mm	32mm	0-7mm	4mm	P2	100	**921507**
5mm	45mm	5-20mm	4mm	P2	100	**921508**
5mm	70mm	30-45mm	4mm	P2	100	**921510**
5mm	82mm	42-57mm	4mm	P2	100	**921511**
6mm	45mm	5-20mm	5mm	P3	100	**921514**
6mm	57mm	17-32mm	5mm	P3	100	**921515**
6mm	70mm	30-45mm	5mm	P3	100	**921516**
6mm	100mm	60-75mm	5mm	P3	100	**921518**
6mm	125mm	85-100mm	5mm	P3	100	**921519**

A Tapcon concrete screw that cuts its own thread into concrete, brick and hollow block. It replaces small diameter expansion anchors, plugs and screws in light to medium duty applications. The Blue Climaseal coating provides the Tapcons with excellent rust resistance. Removeable, adjustable and can be installed close to edges.

Slotted Hex

Thread Diameter	Anchor Length	Fixture Thickness	Pilot Hole Size	Drive Size	Box Qty	JPL Code
5mm	32mm	0-7mm	4mm	6.5mm Hex	100	**921498**
5mm	45mm	5-20mm	4mm	6.5mm Hex	100	**921499**
5mm	57mm	17-32mm	4mm	6.5mm Hex	100	**921500**
6mm	32mm	0-7mm	5mm	8mm Hex	100	**921501**
6mm	45mm	5-20mm	5mm	8mm Hex	100	**921502**
6mm	57mm	17-32mm	5mm	8mm Hex	100	**921503**
6mm	70mm	30-45mm	5mm	8mm Hex	100	**921504**
6mm	82mm	42-57mm	5mm	8mm Hex	100	**921505**
6mm	100mm	60-75mm	5mm	8mm Hex	100	**921506**

Installation Accessories	Suitable for Countersunk	Suitable for Hex Head	JPL Code
Condrive Tool Set a complete kit of the accessories required to install the full range of Blue Tapcon concrete screws. The kit contains: Condrive Sleeve, Drill Drive Adaptor, No.2 and No.3 Phillips bits, 6.5mm & 8mm magnetic nut setters, drive adaptor for Phillips bits, 4 x 100mm and 5 x 110mm drill bits.	✓	✓	**921159**
4mm x 180mm SDS Drill Bit with Hex Shoulder (for use with Condrive sleeve)	✓	✓	**921137**
5mm x 180mm SDS Drill Bit with Hex Shoulder (for use with Condrive sleeve)	✓	✓	**921154**
6.5mm Magnetic Nut Setter (1/4" Hex Drive)		✓	**921557**
8.0mm Magnetic Nut Setter (1/4" Hex Drive)		✓	**931378**

Tapcon Rod Hangers

Designed for overhead threaded rod applications, Rod Hangers replace traditional drop in anchors, only requiring a small diameter pilot hole to be drilled. The rod hanger is dual threaded and the washer and M8/M10 bossed nut are removable leaving the stud open. A nut setter or Impact socket is needed for installation. Fire resistance up to 2hrs. Finish- Zinc Plated ETA Option 1 approved for cracked and non-cracked concrete.

Thread Size	Length	Pilot Hole Size	Socket Size	Box Qty	JPL Code
M8/M10	35mm	6mm	13mm	100	**058785**
M8/M10	55mm	6mm	13mm	100	**058786**

Option 1 for Cracked Concrete

Installation Accessories	JPL Code
13mm Magnetic Nut Setter 1/4" Hex Drive	**931387**
13mm Hex Impact Socket 1/2" Square Drive	**931368**

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Tapcon- HFL Concrete Screw

Option 1 for Cracked Concrete

The Tapcon HFL concrete screws are a self- cutting anchor screw for cracked and non cracked concrete. High performance anchor suitable for safety critical applications. Designed with the latest technology for the best performance in every condition. The HFL allows for small drilling diameters, high values and spacing distances.
Finish- Zinc Flake:
500 hrs Salt Spray Test
ETA Option 1 approved for cracked and non-cracked concrete.

Thread Diameter	Anchor Length	Max Fixture Thickness	Pilot Hole Size	Socket Drive Size	Box Qty	JPL Code
6mm	40mm	5mm	6mm	13mm	100	**058729**
6mm	50mm	15mm	6mm	13mm	100	**058730**
6mm	80mm	25mm	6mm	13mm	100	**058731**
6mm	100mm	5mm	6mm	13mm	50	**058732**
8mm	50mm	5mm	8mm	13mm	50	**058733**
8mm	60mm	15mm	8mm	13mm	50	**058734**
8mm	70mm	25mm	8mm	13mm	50	**058735**
8mm	80mm	35mm	8mm	13mm	50	**058736**
8mm	100mm	55mm	8mm	13mm	50	**058737**
8mm	120mm	75mm	8mm	13mm	50	**058738**
8mm	140mm	95mm	8mm	13mm	50	**058739**
10mm	60mm	5mm	10mm	15mm	50	**058740**
10mm	70mm	15mm	10mm	15mm	50	**058741**
10mm	90mm	35mm	10mm	15mm	50	**058742**
10mm	100mm	45mm	10mm	15mm	50	**058743**
10mm	120mm	65mm	10mm	15mm	50	**058744**
10mm	140mm	85mm	10mm	15mm	50	**058745**
10mm	160mm	105mm	10mm	15mm	50	**058746**
12mm	80mm	15mm	12mm	17mm	25	**058747**
12mm	110mm	45mm	12mm	17mm	25	**058748**

Installation Accessories	Suitable for HFL 6mm	HFL 8mm	HFL 10mm	HFL 12mm	JPL Code
10mm Magnetic Nut Setter (1/4" Hex Drive)	✓	✓			**931987**
13mm Hex Impact Socket ½" Square Drive	✓	✓			**931388**
15mm Hex Impact Socket ½" Square Drive			✓		**940006**
17mm Hex Impact Socket ½" Square Drive				✓	**938174**

Tapcon Dome Concrete Screw

Option 1 for Cracked Concrete

The ideal concrete screw for fixing both deep and shallow channel to cracked and non cracked concrete. The low profile dome allows for channel nuts to be moved in the channel profile, no matter the depth. Torx TX30 drive is needed for installation. Fire resistance up to 2hrs.
Finish- Zinc Plated ETA Option 1 approved for cracked and non-cracked concrete.

Anchor length	Head Dia	Max Fixture Thickness	Pilot Hole Size	Box Qty	JPL Code
40mm	17.5mm	5mm	6mm	100	**058783**
60mm	17.5mm	25mm	6mm	100	**058784**

Spit Fix3 Through Bolts

Diameter	Anchor Length	Fixture Thickness	Drilling Depth	Hole Diameter	Box Qty	JPL Code
M6*	45mm	5mm	40-50mm	6mm	100	**300001**
M6*	55mm	20mm	40-50mm	6mm	100	**300002**
M6*	85mm	50mm	40-50mm	6mm	100	**300004**
M8	55mm	5mm	50-60mm	8mm	100	**300005**
M8	70mm	20mm	50-60mm	8mm	100	**300006**
M8	90mm	40mm	50-60mm	8mm	50	**300007**
M8	130mm	80mm	50-60mm	8mm	50	**300041**
M10	65mm	5mm	60-70mm	10mm	50	**300010**
M10	75mm	15mm	60-70mm	10mm	50	**300011**
M10	95mm	36mm	60-70mm	10mm	25	**300012**
M10	125mm	65mm	60-70mm	10mm	25	**300013**
M10	140mm	80mm	60-70mm	10mm	25	**300014**
M12	80mm	5mm	75-90mm	12mm	25	**300015**
M12	100mm	25mm	75-90mm	12mm	25	**300016**
M12	115mm	40mm	75-90mm	12mm	25	**300017**
M12	140mm	65mm	75-90mm	12mm	25	**300018**
M12	160mm	85mm	75-90mm	12mm	25	**300019**
M16	100mm	5mm	95-110mm	16mm	20	**300020**
M16	125mm	30mm	95-110mm	16mm	20	**300040**
M16	150mm	55mm	95-110mm	16mm	10	**300021**
M16	185mm	90mm	95-110mm	16mm	10	**300022**
M20	125mm	10mm	110-135mm	20mm	10	**300024**
M20	165mm	50mm	110-135mm	20mm	10	**300025**
M20	220mm	105mm	110-135mm	20mm	10	**300026**

*M6 Fix3 Anchors are non-approved

Fast and convenient, Spit FIX3 heavy duty through bolts, allows the hole to be drilled into the substrate whilst the fixture is in place, the fixing is then hammered through the fixture. Tightening the anchor pulls into the expansion sleeve expanding the clip, securing the fixture against the substrate. Anchor can be used for columns, beams, brackets and plates in concrete. The Spit Fix3 offers one of the highest loads of any ETA Option 7 approved anchor. The anchor is suitable for non-cracked concrete. Clear sleeve and head marking - offering pre-installation and post-installation guidance. European manufactured. All M6 Fix3 Anchors are non-approved.

ETA Option 7

Loose Bolts

Diameter	Fixture Thickness	Min Hole Depth	Hole Diameter	Box Qty	JPL Code
M6	10mm	45mm	12mm	25	**299101**
M6	25mm	45mm	12mm	25	**299102**
M6	40mm	45mm	12mm	25	**299103**
M8	10mm	55mm	14mm	25	**299104**
M8	25mm	55mm	14mm	25	**299105**
M8	40mm	55mm	14mm	25	**299106**
M10	10mm	65mm	16mm	25	**299107**
M10	25mm	65mm	16mm	25	**299108**
M10	50mm	65mm	16mm	25	**299109**
M10	75mm	65mm	16mm	25	**299110**
M12	10mm	90mm	20mm	25	**299111**
M12	25mm	90mm	20mm	25	**299112**
M12	40mm	90mm	20mm	25	**299113**
M12	60mm	90mm	20mm	25	**299114**
M16	30mm	130mm	25mm	10	**299116**
M16	60mm	130mm	25mm	10	**299117**

Fischer FWB Loose Bolts are a quality expansion shield anchor; this is the traditional method of securing flush fitting metal work to concrete, stone and good quality masonry. The hole must be drilled and the anchor inserted, leaving a projecting stud on to which the fixture is aligned. The anchor is secured by tightening the nut against the fixture. The fixings are zinc plated and passivated to protect against corrosion. The hole must be drilled and the anchor inserted before the fixture is in place.
Suitable for Non- Cracked Concrete

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Projecting Bolts

Fischer FWB Projecting Bolts are a quality expansion shield anchor; this is the traditional method of securing flush fitting metal work to concrete, stone and good quality masonry. The fixings are zinc plated and passivated to protect against corrosion.
Suitable for non-cracked concrete

Diameter	Fixture Thickness	Min Hole Depth	Hole Diameter	Box Qty	JPL Code
M6	10mm	50mm	12mm	25	**299201**
M6	25mm	50mm	12mm	25	**299202**
M8	10mm	55mm	14mm	25	**299204**
M8	25mm	55mm	14mm	25	**299205**
M8	60mm	55mm	14mm	25	**299206**
M10	15mm	65mm	16mm	25	**299207**
M10	30mm	65mm	16mm	25	**299208**
M10	60mm	65mm	16mm	25	**299209**
M12	15mm	90mm	20mm	25	**299210**
M12	30mm	90mm	20mm	25	**299211**
M12	75mm	90mm	20mm	25	**299212**
M16	35mm	130mm	25mm	10	**299214**

Shields

Expanding shield anchor. Easy to use with good load carrying capacity. Ideal general purpose anchor shield. Suitable for use in concrete, brickwork and stone.
Suitable for non-cracked concrete

Diameter	Hole Diameter	Min Hole Depth	Box Qty	JPL Code
M6	12mm	50mm	25	**299001**
M8	14mm	55mm	25	**299002**
M10	16mm	65mm	25	**299003**
M12	20mm	90mm	25	**299004**
M16	25mm	130mm	10	**299005**
M20	32mm	150mm	10	**299006**

Sleeve Anchors

ITW's Dynabolt is a through sleeve anchor fixing. It eliminates the need to mark out and reposition. Fully assembled its unique sleeve design collapses during tightening to provide pull down onto fixture. The bolt can be easily removed from the anchor. Upon tightening, the Dynabolt pulls down and shortens in length. This dynamic action exerts clamping pressure on the fixture. To be used with hand help blow out pump to remove debris from hole by blowing before fixing. An ideal fixing for general purpose applications in a wide variety of substrates including concrete, brickwork and block work.

ITW Dynabolt

Diameter	Anchor Length	Fixture Thickness	Hole Diameter	Anchor Depth	Box Qty	JPL Code
M8	55mm	8mm	10mm	50mm	50	**300106**
M8	80mm	35mm	10mm	50mm	25	**300107**
M8	105mm	62mm	10mm	50mm	25	**300108**
M10	59mm	12mm	12mm	55mm	25	**300109**
M10	75mm	18mm	12mm	65mm	25	**300110**
M10	105mm	46mm	12mm	65mm	20	**300111**
M12	110mm	49mm	16mm	65mm	10	**300114**

Spit Lok is a fully assembled, white zinc plated though sleeve anchor with increased capacity. Comes with threaded stud, integral nut and washer. Suitable for fixing into concrete, brickwork and block work.

ITW Spit Lok

Diameter	Anchor Length	Fixture Thickness	Hole Diameter	Anchor Depth	Box Qty	JPL Code
M8	50mm	10mm	10mm	34mm	50	**922757**
M8	77mm	37mm	10mm	34mm	50	**922758**
M10	75mm	25mm	12mm	44mm	25	**922760**
M10	99mm	49mm	12mm	44mm	20	**922761**
M10	129mm	79mm	12mm	44mm	20	**922762**
M12	65mm	10mm	16mm	46mm	20	**922763**
M12	111mm	56mm	16mm	46mm	10	**922764**
M12	147mm	92mm	16mm	46mm	10	**922765**

Wire Hanger Suspension Anchor

Size	Diameter of Eye	Hole Diameter	Minimum Hole Depth	Box Qty	JPL Code
M6 x 60mm	6.2mm	6mm	43mm	100	**300307**

Gravity assisted, self-expanding suspension anchor. After inserting the anchor into the hole, a swift tug sets the anchor in place. Under loading, the expansion cone draws into the expansion sleeve ensuring an even more secure fix. Improved fire resistance compared with traditional plastic plugs. For use in concrete and stone.

Steel Drop In Wedge Anchors

Zinc Plated

Thread Size	Anchor Length	Hole Diameter	Drilling Depth	Box Qty	JPL Code
M6	30mm	8mm	32mm	100	**300050**
M8	30mm	10mm	32mm	100	**300051**
M10	40mm	12mm	42mm	100	**300052**
M12	50mm	15mm	53mm	50	**300053**
M16	60mm	20mm	70mm	20	**300054**

Stainless Steel

Thread Size	Anchor Length	Hole Diameter	Drilling Depth	Box Qty	JPL Code
M6	30mm	8mm	32mm	100	**300060**
M8	30mm	10mm	32mm	100	**300061**
M10	40mm	12mm	42mm	100	**300062**
M12	50mm	15mm	53mm	50	**300063**

A standard wedge anchor suitable for fixing mechanical and electrical services in concrete and solid stone. The anchor is female, internally threaded and is hammer set. It is pre-set by inserting into the drilled hole and hammering the internal expansion cone inside the body of the anchor using the setting tool. Requires an appropriate setting tool and corresponding drill bit for installation. Available in zinc plated and stainless steel.

Zinc Plated

Stainless Steel

Setting Tool

Size	JPL Code
M6	**300070**
M8	**300071**
M10	**300072**
M12	**300073**
M16	**300074**

To be used in the installation of wedge anchors. Using a hammer, the tool pushes up the plug within the anchor to wedge the anchor into the pre drilled hole.

Wedge Anchors – Lipped

Thread Size	Anchor Length	Hole Diameter	Drilling Depth	Box Qty	JPL Code
M6	25mm	8mm	27mm	100	**300820**
M8	30mm	10mm	32mm	100	**300821**
M10	30mm	12mm	33mm	50	**300882**

Fischer FDA-R lipped wedge anchors have the same primary function as a straight Drop in Anchor, with the exception that the flush fix design with additional lip feature ensures the anchor remains flush with the surface at all times and allows installation into hollow materials. Requires an EAW setting tool and corresponding drill bit for installation.

Fischer Setting Tool

To Suit Anchor Size	JPL Code
M6	**300077**
M8	**300078**
M10	**300079**

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EA II Hammerset Anchor and Setting Tool

The wedge anchor that is approved for cracked and non-cracked concreate.

- There is no required depth of hole as the embossed rim of the anchor prevents the sleeve from slipping, thus ensuring a trouble-free hammerset installation.
- All sizes of the EAII Hammerset anchor require the specific corresponding setting tool from the EAW H Plus range which offers a simple control of the anchoring and provides increased hand protection via the rubber grip.

Thread Size	Anchor Length	Hole Diameter	Drilling Depth	Box Qty	JPL Code
M6	30mm	8mm	32mm	100	**300831**
M8	30mm	10mm	33mm	100	**300832**
M8	40mm	10mm	43mm	50	**300833**
M10	30mm	12mm	33mm	50	**300835**
M10	40mm	12mm	43mm	50	**300834**
M12	50mm	15mm	54mm	25	**300836**
M16	65mm	20mm	70mm	20	**300838**
M20	80mm	25mm	85mm	10	**300839**

EAW H Plus Setting Tool

To Suit Anchor Size	JPL Code
M6 x 30mm	**300091**
M8 x 30mm	**300092**
M8 x 40mm	**300098**
M10 x 30mm	**300079**
M10 x 40mm	**300093**
M12 x 50mm	**300094**
M16 x 65mm	**300095**
M20 x 80mm	**300096**

Fischer FNA II Nail Anchors

The FNA II nail anchors are set using a hammer, providing fast installation times. The extremely short anchor depth prevents reinforcement hits. The unique anchor end ensures that it is able to be held in the drill hole, preventing it falling out during overhead installations.

Threaded Ceiling Anchor

Hole Diameter	Thread Diameter	Max Fixing Length	Min Anchoring Depth	Box Qty	JPL Code
6mm	M6	5mm	25mm	100	**936536**
6mm	M6	5mm	30mm	100	**936537**
6mm	M6	10mm	30mm	100	**936538**

Nail Head Anchor

Hole Diameter	Max Fixing Length	Min Anchoring Depth	Box Qty	JPL Code
6mm	5mm	25mm	100	**936545**
6mm	5mm	30mm	100	**936539**
6mm	30mm	30mm	50	**936540**
6mm	50mm	30mm	50	**936541**
6mm	75mm	30mm	50	**936542**
6mm	100mm	30mm	50	**936543**
6mm	120mm	30mm	50	**936544**

Hook and Eye FNA II Anchors

Type	Hole Dia	Anchor Length	Min Anchor Depth	Inner Dia of Hook or Eye	Clearance of Hook	Box Qty	JPL Code
Hook	6mm	54mm	25mm	10	6.5mm	50	**936546**
Eye	6mm	54mm	25mm	10	-	50	**936547**

Setting Tool for FNA II Nail Anchors

Size	JPL Code
SDS	**300100**
Straight	**300099**

Fischer R Eurobond Resin Anchor Capsule & Studs

Resin Anchors

Size	Hole Diameter	Box Quantity	JPL Code
M8	10mm	10	**300650**
M10	12mm	10	**300651**
M12	14mm	10	**300652**
M16	18mm	10	**300652**
M20	25mm	10	**300654**
M24	28mm	10	**300655**

Vinylester resin (styrene-free), quartz sand and hardener. ETA approved when used with Fischer RGM studs.

Threaded Studs

Size	RGM Threaded Stud Box Qty	RGM Threaded Stud JPL Code	45° Chisel Point Box Qty	45° Chisel Point JPL Code
M8 x 110mm	10	**300660**	10	**300610**
M10 x 130mm	10	**300661**	10	**300611**
M10 x 165mm	10	**300667**		
M12 x 160mm	10	**300662**	10	**300612**
M12 x 220mm	10	**300668**		
M16 x 165mm	10	**300669**		
M16 x 190mm	10	**300663**	10	**300613**
M20 x 260mm	10	**300664**	5	**300614**
M24 x 300mm	10	**300665**	5	**300615**

RGM Threaded Stud, for use with resin capsules. Can be used in non-cracked concrete and dense natural stone. Hex head, external drive. Zinc-plated steel. 45° Chisel Point, for use with chemical resins. Zinc plated, yellow passivated. 45° chisel point. Grade 5.8 carbon steel. Includes nuts and washers.

Pump in Resin

Product Name	Box Quantity	JPL Code
FIS EM 390S Styrene Free Epoxy Resin	6	**297011**

Optimum solution for concrete (anchor rods and reinforcement bars). Resin and hardener are stored in two separate chambers and are not mixed and activated until pushed through the static mixer. It is suitable for non-cracked concrete and reinforcement bars. Styrene free epoxy resin and 2 mixer nozzles.

Product Name	Box Quantity	JPL Code
FIS VT 380 C Vinylester Resin	12	**297012**

This resin is approved for use in masonry and non-cracked concrete. It maintains a high load bearing capacity in a wide range of temperatures. -40°C to +120°C.

Product Name	Box Quantity	JPL Code
FIS V 360 S Styrene Free Vinylester Resin and Nozzles	6	**297013**

The FIS V System has numerous system approvals for non-cracked concrete, masonry and for rebar connections. FIS V is a universal injection resin with guaranteed reliability for practically all areas of application. The cement generates a high temperature resistance of up to +120°C meaning it can be used within a wide range of temperature environments.

Product Name	Box Quantity	JPL Code
FIS VW 360 S Winter Resin	6	**297014**

With the same benefits as the FIS V 360 S, this Vinylester resin has been specially designed for colder temperatures. The FIS VW 360 S Winter Resin has been specially formulated for use in base material temperatures of -15°C to +20°C. A shorter curing time means quicker installation at the lowest temperatures.

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Chemical Anchor Installation Accessories

The ABG Hand operated blow up pump is an essential piece of equipment for cleaning out holes when they have been drilled into such material as brick. This is vital to ensure that the fixing are fastened securely.

A BS cleaning brush for cleaning holes drilled into concrete. These brushes will ensure the best finishing result when using a resin application.

The sleeve prevents resin from leaking when securing into perforated, hollow or porous substrate.

360ml FIS AM Fischer Resin Applicator Gun. For use with FIS V 360S. It is a heavy duty metal resin applicator. It is now compatible with more Fischer hybrid resin cartridges.

FIS DM S is also a heavy duty. It is a plastic gun which is suitable for the injection of resins.

Hand operated blow out pump

Item	JPL Code
Hand operated blow out pump	**297018**

Fischer BS Cleaning Brush

Dimensions	JPL Code
9mm for 8mm holes	**300637**
11mm for 10mm holes	**300638**
13mm for 12mm holes	**938655**
16mm for 14mm holes	**300641**
20mm for 16/18mm holes	**300642**

Injection Anchor Sleeve

Drill hole diameter x Anchorage depth	JPL Code
16mm x 85mm	**297021**
18mm x 85mm	**297022**
20mm x 85mm	**297023**

AM Fischer Resin Applicator Gun

Item	JPL Code
AM Fischer Resin Applicator Gun	**297016**

DM S Fischer applicator gun

Item	JPL Code
DM S Fischer applicator gun	**297017**

Plasterboard Fixings

One piece self-drilling anchor designed for fastening light / medium loads to plasterboard. Simply screw using a normal or power screwdriver, no need for pre drilling. The point drills a pilot hole followed by a coarse, specifically designed helical thread biting into the plasterboard substrate making the fix. The separate screw is then used to mount the fixture. The anchors have a positive tightening of the anchor and the point breaks away if an overlong screw is used. The thread of the screw is specially designed for efficient cutting and to ensure a positive lock with the fixing.

Type	Screw Length	Max Fixture Thickness	Box Qty	JPL Code
Metal	35mm	12mm	100	**300200**
Metal	50mm	27mm	100	**300202**
Nylon Plastic	35mm	12mm	100	**300201**
Mini- Ideal for mini trunking, Skirting boards and beading.	-	5mm	200	**300203**

Walraven BIS Plasterboard Fixings

A steel zinc plated hammer-in plug for medium duty applications. Working like a plastic plug but with better fire resistance the fixing is easier and quicker to use with no pre drilling required. The Gold's serrated point aids in an easier hammer in application. It plug anchors itself when tightening the screw and does not rotate on screwing and is also removable with very low damage given to the wall. Suitable to be used with woodscrews with widths 3.5mm to 5mm and a maximum length of 30mm. The BIS Gold has a pull out load of 15kg and a shear load of 30kg.

Bis Gold

Description	Box Qty	JPL Code
Fixing Only	200	**300205**
Fixing c/w 4mm x 30mm CSK Screw	200	**300206**

A polyamide, black fixing suitable for light applications such as fixing of cable ducts, etc. with fixing hole of 6 mm. Easy and quick to use, the fixing screws in without pre-drilling due to the sharp drilling point. The Rayvis is also suitable for aerated concrete plaster block, etc. Safe to use for electrical fixings as there is no interferences with wires

BIS Rayvis

Description	Box Qty	JPL Code
6mm Screw	200	**300208**

Wall-Dog Fixings

The Wall Dog is the industry's first all-in-one steel screw and anchor. Fastening into wood and plasterboard is now easier than ever: no need to pre-drill, the Wall Dog saves you time by allowing you to install screw and anchor in a one-step application. Other materials such as brick or block require a 4.5mm pre-drilled hole, and the Wall Dog saves you money by eliminating the need for a plug or anchor. The patented design gives you a high quality fix, whilst doing less damage to the material: on removal, the Wall Dog leaves a noticeably smaller cavity than other screws. This makes 'making good' easier than ever.

Type	Size	Drive Size	Box Qty	JPL Code
White Pan head	4mm x 32mm	PH2	100	**936394**
Chrome Pan head	4mm x 32mm	PH2	100	**235129**

Interset Cavity Fixings

Diameter	Length	Fixture Thickness	Hole Diameter	Box Qty	JPL Code
M4	40mm	20mm	8mm	100	**300301**
M5	40mm	20mm	8mm	100	**300302**
M5	65mm	25mm	8mm	100	**300303**
M6	70mm	25mm	10mm	100	**300304**
Setting Tool				1	**300305**

Spit Hollow Wall Anchor Pre-assembled Cavity Fixing, uses the setting tool to lock the fixing into the base material, typically plasterboard. The setting tool ensures that the legs of the fixing have collapsed fully, so that the load is spread over a wide area.
The anti-rotation barbs prevent the anchor from spinning in the hole. This allows the fixture to be removed and refit with the removal of the screw. The fixing comes preassembled with the screw. Zinc plated.

Spring Toggles

For fixing to cavity walls and ceilings of a low structural strength. Ideal for overhead fixings in plasterboard such as light fittings, smoke alarms etc. and installing electrical fixtures to cavity walls. Spreads load over wide area for extra load capacity. Machine screw included, unless indicated for easier tightening and to prevent thread stripping under load.

Size	Hole Size	Box Qty	JPL Code
M5 Toggle Only	14mm	100	**300501**
M6 Toggle Only	18mm	50	**300502**
M8 Toggle Only	22mm	50	**300508**
M10 Toggle Only	25mm	50	**931810**

Size	Hole Size	Box Qty	JPL Code
M3 x 50mm	11mm	100	**300503**
M5 x 50mm	14mm	100	**300504**
M5 x 80mm	14mm	100	**300505**
M6 x 60mm	18mm	50	**300506**
M6 x 75mm	18mm	50	**300507**

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Rawl Nuts

Size	Grip Range	Hole Size	Box Qty	JPL Code
M4	6 - 14mm	8mm	50	**300550**
M5	8 - 16mm	10mm	50	**300551**
M6	0 - 3mm	13mm	50	**300552**
M6	11- 23mm	13mm	50	**300554**
M8	15 - 39mm	18mm	50	**300555**
M10	20 - 36mm	20mm	25	**300557**
M12	30 - 50mm	24mm	20	**300558**

Rawlnut Flexi-Plugs allow a fixing in virtually any material, solid or hollow, typical materials include; sheet metal, plasterboard, plywood, glass and plastic. Made from synthetic rubber with a bonded brass insert it's ideal for irregular or oversized holes. It's vibration and corrosion resistant.

Hammer In Fixings

Size	Max Fixture Thickness	Box Qty	JPL Code
M5 x 27mm	5mm	200	**931819**
M5 x 37mm	15mm	200	**931820**
M6 x 32mm	5mm	200	**050118**
M6 x 39mm	12mm	100	**050119**
M6 x 52mm	25mm	100	**050121**
M6 x 67mm	40mm	100	**050122**
M8 x 62mm	30mm	100	**050134**
M8 x 92mm	60mm	100	**050135**

The innovative design of the Hit M ensures the product can be hammered all the way into the hole without expansion. The countersunk sleeve protects the item being fixed. The Hit M is demountable. The wide collar ensures a tight fixing and saw tooth thread makes it easy to drive in and unscrew. Screw is zinc plated.

Wafer Head Self Drill Screws

For fixing steel to steel applications typically attaching cladding to steel frame. Made from C10-18 steel to ensure consistent quality. Zinc plated to withstand over 50 hours salt spray test.

Metric	Imperial	Box Qty	JPL Code
4.2mm x 13.5mm	8" x 9/16	1000	**931303**
4.2mm x 25mm	8" x 1"	1000	**931305**

Hex Head Self Drill Screws

Hexagon head self-drill screws zinc plated suitable for light duty indoor applications. The screws drill directly into light section steel.

Metric	Imperial	A/F	Box Qty	JPL Code
4.2 x 13	8 x 1/2"	1/4"	1000	**235117**
4.8 x 13	10 x 1/2"	5/16"	1000	**235118**
4.8 x 19	10 x 3/4"	5/16"	1000	**235115**
5.5 x 19	12 x 3/4"	5/16"	500	**235119**
5.5 x 25	12 x 1"	5/16"	500	**235101**

Hex Head Self Drill Screws

Light Duty

Hexagon head self-drill screws for use outdoors and for light duty steel sections with a corrosion resistant coating. Ruspert is a reliable and durable corrosion resistant coating which resists over 500 hours salt-spray test to BSEN ISO 9227 2006 (UKAS Accredited).Comes with or without Ruspert 16mm washer.

Size	A/F	Box Qty	Screw Only JPL Code	c/w 16mm Washer JPL Code
5.5 x 25mm	5/16"	100	**235104**	**235102**
5.5 x 32mm	5/16"	100	**235105**	**325103**
5.5 x 38mm	5/16"	100	**235106**	**235120**
5.5 x 50mm	5/16"	100	**235112**	**235121**
5.5 x 70mm	5/16"	100	**235113**	
6.3 x 25mm	5/16"	100		**235125**

Heavy Duty

Hexagon head self drill screws for heavy duty steel sections with a Ruspert silver plated corrosion resistant coating providing a reliable and durable fixing.

Size	A/F	Box Qty	Screw Only JPL Code	c/w 16mm Washer JPL Code
5.5 x 38mm	5/16"	100	**235110**	**235111**
5.5 x 55mm	5/16"	100	**235122**	**325123**

Dry Wall Screws

Twin threaded Philips head, drywall screws for securing plasterboard to timber partitions, either black phosphate coated or zinc plated. With a super sharp point, the screws are designed to pierce and drill into 0.9mm of metal channel, for the larger gauge channel self drilling drywall screws are recommended. Each box contains a Philips No. 2 driver bit (25mm long) Once inserted the screw should be sealed and taped to avoid any contact with wet plaster or plaster board lime. CE Marked in compliance with the construction products regulations (European Regulation No.305/2011)

Size	Box Qty	Black JPL Code	Zinc Plated JPL Code	Self Drilling Zinc JPL Code
3.5 x 25mm	1000	**300751**	**300901**	**300911**
3.5 x 32mm	1000	**300752**	**300902**	
3.5 x 38mm	1000	**300753**	**300903**	**900912**
3.5 x 42mm	1000	**300754**	**300904**	**300913**
3.5 x 45mm	1000	**300755**		
3.5 x 50mm	1000	**300756**		
3.5 x 55mm	500			**300914**
3.5 x 60mm	500		**300905**	
4.2 x 65mm	500		**300906**	
4.2 x 75mm	500	**300757**	**300907**	

Cover Caps

Type	Size	Colour	Box Qty	JPL Code
2 part	3.5mm – 4mm	Black	100	**301101**
c/w Internal washer	3.5mm – 4mm	White	100	**301102**
c/w Internal washer	3.5mm – 4mm	Chrome	100	**301103**
1 part Hinged	5mm – 8mm	White	50	**937021**

Cover Caps are a secure way to cover and protect screws, fixings and fasteners. They can protect against injury from damaged and burred fixings and encase the screw head helping prevent corrosion.

Plastic Wall Plugs

Economy

Colour	Screw Size	Length of Plug	Hole Size	Min Drill Depth	Box Qty	JPL Code
Yellow	3.5mm - 4.2mm	23mm	5mm - 5.5mm	25mm	100	**301001**
Red	3.5mm - 4.8mm	32mm	5.5mm - 6mm	40mm	100	**301002**
Brown	4.8mm - 5.5mm	38mm	7mm - 8mm	45mm	100	**301003**

Economy plastic plugs for woodscrews Available in boxes of 100.

Thorsman

Colour	Screw Size	Length of Plug	Hole Size	Min Drill Depth	Box Qty	JPL Code
Yellow	3.5mm - 5mm	23mm	5mm - 5.5mm	25mm	100	**301010**
Red	3.5mm - 5mm	32mm	5mm – 5.5mm	40mm	100	**301011**
Brown	5mm – 6mm	38mm	7mm - 8mm	45mm	100	**301012**
Blue	5mm - 7mm	45mm	9mm – 10mm	50mm	100	**301013**
Green	8mm – 10mm	60mm	10mm - 12mm	65mm	100	**301014**

A plastic plug that has a duel expansion for heavier loads.

fischer Plastic Wall Plugs

Type	Hole Size	Screw Size	Box Qty	JPL Code
S6	6mm	4mm - 5mm	100	**301020**
S8	8mm	4.5mm - 6mm	100	**301021**
S10	10mm	6 mm - 8mm	50	**301022**
S12	12mm	8mm - 10mm	25	**301023**
S14	14mm	10mm - 12mm	20	**301024**

The Fischer S Plug's rimless plug sleeve allows for the plug to be set as deep as required below the plaster to the bearing substrate to achieve the maximum load-bearing capacity. The slimline plug geometry makes it easy to push the plug into the drill hole for a faster and simpler installation.
The anti-rotation lock prevents the plug rotating in the drill hole, thus guaranteeing a high level of installation safety.

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Timco Classic Multipurpose Pozi Woodscrews

The exceptional reliability and strength of the Timco Multi-Purpose Classic Screw enables the user to rely on one product for a variety of applications. Specifically designed as a multi-purpose product, the 25° sharp point, special thread design, lubrication and corrosion resistant plating ensures the screw will consistently perform efficiently in hardwood, chipboard, MDF, plastic and thin sheet metal, while offering exceptional holding power. Available in zinc yellow passivated and Stainless Steel

Sold in Box Quantities of 200

Size Metric	Imperial	Pozi Driver Bit Size	Zinc Yellow Passivated Pozi Csk JPL Code	Stainless Steel Pozi Csk JPL Code
3.5 x 12mm	6 x 1/2"	2		**239071**
3.5 x 16mm	6 x 5/8"	2	**244016**	
3.5 x 20mm	6 x 3/4"	2	**244018**	**239072**
3.5 x 25mm	6 x 1"	2	**244019**	**239073**
3.5 x 30mm	6 x 1 1/4"	2	**244020**	**239074**
3.5 x 35mm	6 x 1 3/8"	2	**244021**	
3.5 x 40mm	6 x 1 1/2"	2	**344022**	**239075**
3.5 x 45mm	6 x 1 3/4"	2	**244023**	
3.5 x 50mm	6 x 2"	2	**244024**	**239077**
4.0 x 16mm	8 x 5/8"	2	**244026**	
4.0 x 20mm	8 x 3/4"	2	**244028**	
4.0 x 25mm	8 x 1"	2	**244030**	**239078**
4.0 x 30mm	8 x 1 1/4"	2	**244032**	**239079**
4.0 x 35mm	8 x 1 3/8"	2	**244033**	
4.0 x 40mm	8 x 1 1/2"	2	**244034**	**239080**
4.0 x 45mm	8 x 1 3/4"	2	**344035**	**239081**
4.0 x 50mm	8 x 2"	2	**244036**	**239082**
4.0 x 60mm	8 x 2 1/2"	2	**244038**	**239083**
4.0 x 70mm	8 x 2 3/4"	2	**244039**	**239084**
5.0 x 20mm	10 x 3/4"	2	**244052**	
5.0 x 25mm	10 x 1"	2	**244053**	**239086**
5.0 x 30mm	10 x 1 1/4"	2	**244054**	**239087**
5.0 x 35mm	10 x 1 3/8"	2	**244055**	
5.0 x 40mm	10 x 1 1/2"	2	**244056**	**239088**
5.0 x 45mm	10 x 1 3/4"	2	**244057**	
5.0 x 50mm	10 x 2"	2	**244058**	**239090**
5.0 x 60mm	10 x 2 1/2"	2	**244060**	**239092**
5.0 x 70mm	10 x 2 3/4"	2	**244061**	**239093**
5.0 x 80mm	10 x 3"	2	**244062**	**239094**
5.0 x 90mm	10 x 3 1/2"	2	**244063**	**239096**
5.0 x 100mm	10 x 4"	2	**244064**	**239097**
6.0 x 40mm	12 x 1 1/2"	3	**244068**	**239099**
6.0 x 50mm	12 x 2"	3	**244070**	**239101**
6.0 x 60mm	12 x 2 1/2"	3	**244072**	**239102**
6.0 x 70mm	12 x 2 3/4"	3	**244073**	**239103**
6.0 x 80mm	12 x 3"	3	**244074**	**239104**
6.0 x 90mm	12 x 3 1/2"	3	**244075**	
6.0 x 100mm	12 x 4"	3	**244076**	**239106**
6.0 x 130mm	12 x 5 1/8"	3	**244079**	
6.0 x 150mm	12 x 6"	3	**244081**	

Timco Solo Woodscrews: Pozi Countesunk

The Timco Solo woodscrew has a 25° sharp point for easy penetration into wood and chipboard. The 40° deep single thread provides a secure fixing with high pull-out resistance. They are made from C10-18 steel and are plated in zinc 3 microns. Full batch-traceability is available.

Size Metric	Imperial	Pozi Drive Size	Box Qty	JPL Code
3.0 x 12mm	4 x 1/2"	1	200	**239001**
3.0 x 15mm	4 x 5/8"	1	200	**239002**
3.5 x 15mm	6 x 5/8"	2	200	**239006**
3.5 x 20mm	6 x 3/4"	2	200	**239007**
3.5 x 25mm	6 x 1"	2	200	**239008**
3.5 x 30mm	6 x 1 1/4"	2	200	**239009**
3.5 x 40mm	6 x 1 1/2"	2	200	**239010**
3.5 x 50mm	6 x 2"	2	200	**239012**
4.0 x 15mm	8 x 5/8"	2	200	**239019**
4.0 x 20mm	8 x 3/4"	2	200	**239020**
4.0 x 25mm	8 x 1"	2	200	**239022**
4.0 x 30mm	8 x 1 1/4"	2	200	**239023**
4.0 x 40mm	8 x 1 1/2"	2	200	**239024**
4.0 x 45mm	8 x 1 3/4"	2	200	**239025**
4.0 x 50mm	8 x 2"	2	200	**239026**

Size Metric	Imperial	Pozi Drive Size	Box Qty	JPL Code
4.0 x 60mm	8 x 2 1/2"	2	200	**239028**
4.0 x 70mm	8 x 2 3/4"	2	200	**239030**
5.0 x 25mm	10 x 1"	2	200	**239032**
5.0 x 30mm	10 x 1 1/4"	2	200	**239033**
5.0 x 40mm	10 x 1 1/2"	2	200	**239034**
5.0 x 45mm	10 x 1 3/4"	2	200	**239035**
5.0 x 50mm	10 x 2"	2	200	**239036**
5.0 x 60mm	10 x 2 1/2"	2	200	**239038**
5.0 x 80mm	10 x 3"	2	200	**239040**
5.0 x 90mm	10 x 3 1/2"	2	100	**239041**
5.0 x 100mm	10 x 4"	2	100	**239042**
6.0 x 50mm	12 x 2"	3	200	**239046**
6.0 x 60mm	12 x 2 1/2"	3	200	**239048**
6.0 x 80mm	12 x 3"	3	200	**239049**

Timco Pozi Pan Head Twin thread Woodscrews

Pozi Pan head, twin thread woodscrews zinc plated for general applications into softwoods and some hardwoods. The twin thread allows for faster driving and greater pull out resistance.

Size Metric	Imperial	Pozi Drive Size	Box Qty	JPL Code
3.0 x 12mm	4 x 1/2"	1	200	**239501**
3.5 x 12mm	6 x 1/2"	2	200	**239505**
3.5 x 16mm	6 x 5/8"	2	200	**239506**
3.5 x 20mm	6 x 3/4"	2	200	**239507**
3.5 x 25mm	6 x 1"	2	200	**239508**
3.5 x 30mm	6 x 1 1/4"	2	200	**239509**
4.0 x 12mm	8 x 1/2"	2	200	**239510**
4.0 x 16mm	8 x 5/8"	2	200	**239511**
4.0 x 20mm	8 x 3/4"	2	200	**239512**
4.0 x 25mm	8 x 1"	2	200	**239513**

Size Metric	Imperial	Pozi Drive Size	Box Qty	JPL Code
4.0 x 30mm	8 x 1 1/4"	2	200	**239514**
4.0 x 40mm	8 x 1 1/2"	2	200	**239515**
4.0 x 50mm	8 x 2"	2	200	**239517**
5.0 x 25mm	10 x 1"	2	200	**239519**
5.0 x 30mm	10 x 1 1/4"	2	200	**239520**
5.0 x 40mm	10 x 1 1/2"	2	200	**239521**
5.0 x 50mm	10 x 2"	2	200	**239522**
5.0 x 60mm	10 x 2 1/2"	2	200	**239523**
5.0 x 75mm	10 x 3"	2	200	**239524**

Hex Head Coach Screws

Coach screws are heavy duty screws designed for metal to timber connections, or to join heavy timbers. Coach screws have an hexagonal head engineered to be used with a wrench, spanner, or pliers. Zinc plated.

Size	A/F	Box Qty	JPL Code
M6 x 25mm	10mm	200	**188200**
M6 x 30mm	10mm	200	**931524**
M6 x 40mm	10mm	200	**188201**
M6 x 50mm	10mm	200	**188202**
M6 x 60mm	10mm	200	**188203**
M6 x 70mm	10mm	100	**931525**
M6 x 80mm	10mm	100	**188211**
M6 x 100mm	10mm	100	**188212**
M8 x 40mm	13mm	100	**188213**
M8 x 50mm	13mm	100	**188204**
M8 x 60mm	13mm	100	**188205**
M8 x 70mm	13mm	100	**188214**

Size	A/F	Box Qty	JPL Code
M8 x 75mm	13mm	100	**188206**
M8 x 80mm	13mm	100	**188217**
M8 x 100mm	13mm	100	**188218**
M10 x 30mm	17mm	100	**931527**
M10 x 40mm	17mm	100	**931528**
M10 x 50mm	17mm	100	**188207**
M10 x 70mm	17mm	100	**188208**
M10 x 75mm	17mm	100	**188215**
M10 x 80mm	17mm	100	**931529**
M10 x 100mm	17mm	50	**188216**
M12 x 60mm	19mm	50	**188209**
M12 x 80mm	19mm	50	**188210**

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Pozi Self Tapping Screws

Self tapping screws have a 60° self-tapping thread for ease of insertion. The case is hardened to prevent both shearing under load and resistance to excess torque pressure.
Designed and manufactured to the BS 4174. Zinc plated.

Size Metric	Imperial	Pozi Drive Size	Box Qty	Pozi Countersunk JPL Code	Pozi Pan Head JPL Code
2.9mm x 9.5mm	4 x 3/8"	1	1000	**260007**	**259007**
2.9mm x 13mm	4 x 1/2"	1	1000	**260008**	**259008**
2.9mm x 19mm	4 x 3/4"	1	1000	**260010**	**259010**
3.5mm x 6.5mm	6 x 1/4"	2	1000		**259012**
3.5mm x 13mm	6 x 1/2"	2	1000	**260015**	**259015**
3.5mm x 19mm	6 x 3/4"	2	1000	**260017**	**259017**
3.5mm x 25mm	6 x 1"	2	1000	**260019**	**259019**
4.2mm x 13mm	8 x 1/2"	2	1000	**260023**	**259023**
4.2mm x 16mm	8 x 5/8"	2	1000	**260024**	**259016**
4.2mm x 19mm	8 x 3/4"	2	1000	**260025**	**259025**
4.2mm x 25mm	8 x 1"	2	1000	**260026**	**259026**
4.2mm x 32mm	8 x 1 1/4"	2	1000	**260027**	**259027**
4.2mm x 38mm	8 x 1 1/2"	2	1000	**260028**	**259023**
4.2mm x 50mm	8 x 2"	2	500	**260029**	**259030**
4.8mm x 13mm	10 x 1/2"	2	1000		**259032**
4.8mm x 19mm	10 x 3/4"	2	1000	**260034**	
4.8mm x 25mm	10 x 1"	2	1000	**260035**	**259035**
4.8mm x 32mm	10 x 1 1/4"	2	1000	**260036**	**259036**
4.8mm x 38mm	10 x 1 1/2"	2	500	**260037**	**259037**
4.8mm x 50mm	10 x 2"	2	500	**260039**	**259039**

Concrete Screws – Mulitfix

A Multi-Fix screw, ideal for fitting windows and door frames. A rapid light duty fixing that cuts its own thread in concrete, brick, stone, concrete block and wood, replacing traditional frame fixing systems that required nylon plugs or a hammer in fixing. Drill a 6.00mm hole in the substrate deep enough to take the fixing and using a power tool to screw the Multi-Fix screw through the fixture. The screws are zinc plated and yellow passivated for increased corrosion resistance and each box of screws includes a T30 torx driver bit (suitable for all lengths) to drive the screw with a power tool.

Diameter	Length	Box Qty	JPL Code
7.5mm	40mm	100	**244201**
7.5mm	50mm	100	**244202**
7.5mm	60mm	100	**244203**
7.5mm	70mm	100	**244204**
7.5mm	80mm	100	**244205**
7.5mm	100mm	100	**244206**

Diameter	Length	Box Qty	JPL Code
7.5mm	120mm	100	**244207**
7.5mm	130mm	100	**244211**
7.5mm	150mm	100	**244208**
7.5mm	180mm	100	**244209**
7.5mm	200mm	100	**244210**

Threaded Fasteners

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Hex Bolts P123
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Washers P125
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Jack Pennington ltd
Mechanical - Electrical - Fixings - Tooling - Site Services

JPL App

What is the App?

The app is the newest ordering and information platform from Jack Pennington Ltd

Whats new?

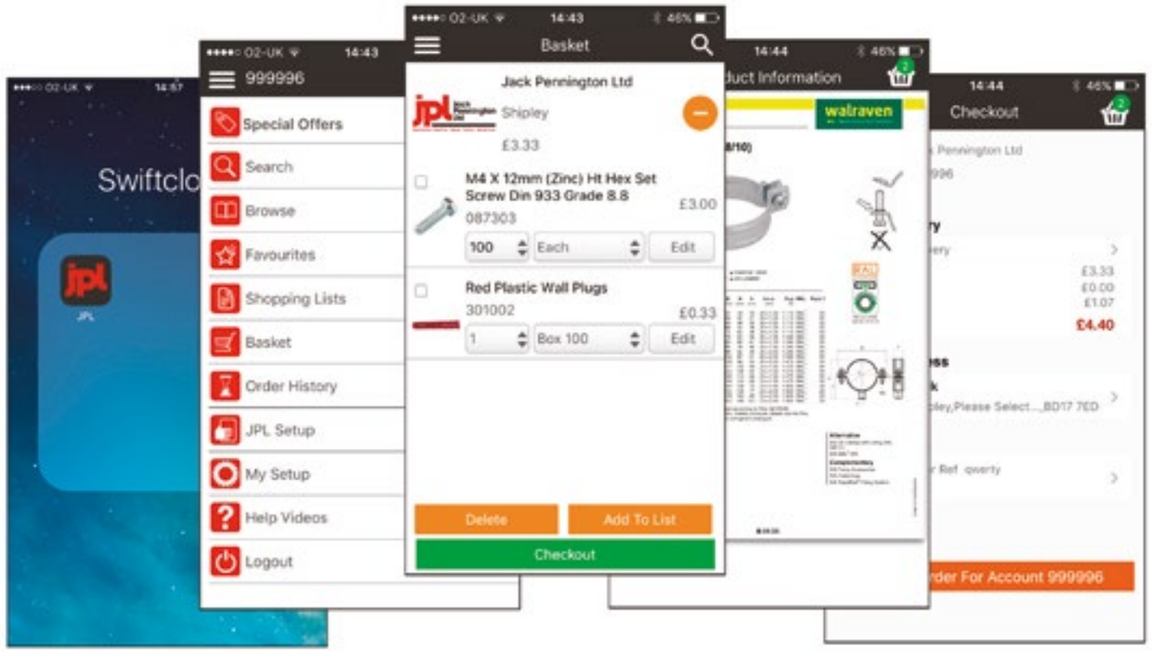
For the first time, customers can access their own personalised account information for their company about stock range, pricing and technical information straight to their desktop, smartphone or tablet, giving the ability to quickly place orders on whatever platform is used. All Platforms are interchagable so orders can be started and completed on more than one platform.

Accessing the App

The app is available to download from The App Store and Google Play. There is also a version for the Desktop.

Login details

In order to use the app you meed to have your accont details authenticated by our sales team. Please speak to a member of the sales team for more infomation regarding the process. Alternatively please email **online@pennington.co.uk** with any questions or queries.



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High Tensile Hex Set Screws

Set screws are threaded right up to the head as opposed to bolts where part of the shank is unthreaded. High Tensile Set Screws (HT sets) are manufactured from 8.8 grade steel and then zinc plated providing corrosion resistance. Sizes are shank diameter x length to base of head. DIN 933

Zinc

Galvanised

Size	A/F	Box Qty	Zinc JPL Code	Galvanised JPL Code
M5 x 10mm		500	**087311**	
M5 x 12mm		500	**087312**	
M5 x 16mm	8mm	500	**087313**	
M5 x 20mm		500	**087314**	
M5 x 25mm		500	**087315**	
M5 x 30mm		500	**087316**	
M6 x 10mm		500	**087323**	
M6 x 12mm		500	**087324**	
M6 x 16mm		500	**087325**	
M6 x 20mm		500	**087326**	
M6 x 25mm	10mm	500	**087327**	**087470**
M6 x 30mm		500	**087328**	**087489**
M6 x 35mm		200	**087329**	
M6 x 40mm		200	**087330**	**087471**
M6 x 50mm		200	**087332**	
M6 x 60mm		200	**087334**	
M8 x 10mm		200	**097340**	
M8 x 12mm		200	**087341**	
M8 x 16mm		200	**087342**	
M8 x 20mm		200	**087343**	**930446**
M8 x 25mm		200	**087344**	**087472**
M8 x 30mm	13mm	200	**087345**	**930447**
M8 x 35mm		200	**087346**	**087473**
M8 x 40mm		200	**087347**	**087474**
M8 x 50mm		200	**087349**	**087475**
M8 x 60mm		200	**087351**	**930448**
M8 x 80mm		100	**087355**	
M8 x 100mm		100	**087357**	
M10 x 16mm		200	**087359**	
M10 x 20mm		200	**087360**	**930452**
M10 x 25mm		200	**087361**	**087476**
M10 x 30mm		200	**087362**	**087477**
M10 x 35mm		100	**087363**	**087478**
M10 x 40mm	17mm	100	**087364**	**087479**
M10 x 45mm		100	**087365**	
M10 x 50mm		100	**087366**	**087480**
M10 x 60mm		100	**087368**	
M10 x 70mm		100	**087370**	**087481**
M10 x 80mm		50	**087372**	**937076**
M10 x 100mm		50	**087374**	
M10 x 120mm		50	**087376**	

Size	A/F	Box Qty	Zinc JPL Code	Galvanised JPL Code
M12 x 20mm		100	**087380**	
M12 x 25mm		100	**087381**	**930460**
M12 x 30mm		100	**087382**	
M12 x 35mm		100	**087383**	**087482**
M12 x 40mm		100	**087384**	**087483**
M12 x 45mm		100	**087385**	**087484**
M12 x 50mm	19mm	50	**087386**	**937077**
M12 x 55mm		50	**087387**	
M12 x 60mm		50	**087388**	
M12 x 70mm		50	**087390**	
M12 x 80mm		50	**087392**	**937079**
M12 x 90mm		50	**930462**	
M16 x 25mm		50	**087414**	
M16 x 30mm		50	**087415**	**936881**
M16 x 35mm		50	**087416**	**930474**
M16 x 40mm		50	**087417**	**087485**
M16 x 45mm		50	**087418**	**937080**
M16 x 50mm	24mm	50	**087419**	**087486**
M16 x 55mm		50	**087420**	
M16 x 60mm		50	**087421**	
M16 x 65mm		25	**087426**	**930475**
M16 x 70mm		25	**087427**	
M16 x 80mm		25	**087429**	
M16 x 90mm		25	**087430**	**087487**
M16 x 100mm		25	**087431**	
M16 x 120mm		25	**087432**	
M20 x 40mm		25	**087438**	**937083**
M20 x 45mm		25	**087439**	**930488**
M20 x 50mm		25	**087440**	**930489**
M20 x 55mm		25	**087441**	**930490**
M20 x 60mm	30mm	25	**087442**	**930491**
M20 x 70mm		25	**087444**	
M20 x 80mm		20	**087446**	
M20 x 90mm		20	**087447**	**937084**
M20 x 100mm		20	**087448**	**937082**

Zinc High Tensile Hex Bolts

High tensile bolts are manufactured from 8.8 grade steel, they are then zinc plated to provide a level of corrosion resistance. Bolts are only part threaded up their shank, the length of the threading is dependent on the overall length of the fastener. DIN 931

Size	A/F	Thread	Box Qty	JPL Code
M8 x 35mm			200	**092219**
M8 x 40mm			200	**092220**
M8 x 45mm			200	**092221**
M8 x 50mm			200	**092222**
M8 x 55mm	13mm	22mm	100	**092223**
M8 x 60mm			100	**092224**
M8 x 65mm			100	**930580**
M8 x 70mm			100	**092226**
M8 x 75mm			100	**930581**
M8 x 80mm			100	**092228**
M10 x 35mm			100	**092234**
M10 x 40mm			100	**092235**
M10 x 45mm			100	**092236**
M10 x 50mm			100	**092237**
M10 x 55mm			100	**092238**
M10 x 60mm			100	**092239**
M10 x 65mm	17mm	26mm	50	**092240**
M10 x 70mm			50	**092241**
M10 x 75mm			50	**091142**
M10 x 80mm			50	**092243**
M10 x 90mm			50	**092244**
M10 x 100mm			50	**092245**
M10 x 110mm			50	**092246**
M10 x 120mm			50	**092247**
M10 x 130mm			50	**092248**
M10 x 140mm	17mm	32mm	50	**930588**
M10 x 150mm			50	**092250**
M12 x 40mm			100	**092254**
M12 x 45mm			100	**092255**
M12 x 50mm			100	**092256**
M12 x 55mm			50	**092257**
M12 x 60mm			50	**092258**
M12 x 65mm	19mm	30mm	50	**092259**
M12 x 70mm			50	**092260**
M12 x 75mm			50	**930597**
M12 x 80mm			50	**092262**
M12 x 90mm			50	**092263**
M12 x 100mm			50	**092264**

Size	A/F	Thread	Box Qty	JPL Code
M16 x 45mm			25	**092274**
M16 x 50mm			25	**092275**
M16 x 55mm			25	**092276**
M16 x 60mm			25	**092277**
M16 x 65mm			25	**092278**
M16 x 70mm			25	**092279**
M16 x 75mm	24mm	38mm	25	**092280**
M16 x 80mm			25	**092281**
M16 x 90mm			25	**092282**
M16 x 100mm			25	**092283**
M16 x 110mm			25	**092284**
M16 x 120mm			25	**092285**
M16 x 130mm			25	**092286**
M16 x 140mm			25	**092287**
M16 x 150mm	24mm	44mm	20	**092288**
M16 x 160mm			20	**092289**
M16 x 180mm			20	**930613**
M16 x 200mm			10	**092293**
M20 x 55mm			25	**930615**
M20 x 60mm			25	**092297**
M20 x 65mm			25	**092298**
M20 x 70mm			25	**092299**
M20 x 75mm	30mm	46mm	20	**092300**
M20 x 80mm			20	**092301**
M20 x 90mm			10	**092302**
M20 x 100mm			10	**092303**
M20 x 140mm			10	**092307**
M20 x 150mm			10	**092308**
M24 x 70mm			10	**092318**
M24 x 75mm			10	**092319**
M24 x 80mm			10	**092320**
M24 x 90mm	36mm	54mm	10	**092321**
M24 x 100mm			10	**092322**
M24 x 110mm			10	**092323**
M24 x 120mm			10	**092324**
M24 x 140mm			10	**930638**

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Steel Hex Full Nut

Hexagon full nut manufactured from grade 8 steel and zinc plated to provide a level of corrosion resistance. Din 934

Size	A/F	Depth	Zinc		Galvanised	
			Box Qty	JPL Code	Box Qty	JPL Code
M3	5.5mm	2.4mm	500	**105103**		
M3.5	6mm	2.8mm	500	**105104**		
M4	7mm	3.2mm	500	**105105**		
M5	8mm	4mm	500	**105106**		
M6	10mm	5mm	500	**105107**	500	**105207**
M8	13mm	6.5mm	100	**105108**	200	**105208**
M10	17mm	8mm	100	**105109**	100	**930796**
M12	19mm	10mm	100	**105110**	100	**105210**
M16	24mm	13mm	100	**105112**	100	**105212**
M20	30mm	16mm	50	**105114**	50	**105214**
M24	36mm	19mm	50	**105116**		

Nylon Insert Self Locking Nut

Zinc plated steel nylon insert self-locking nuts. Type P nylon insert grips the thread of the fixing stopping it becoming loose. Din 982

Size	A/F	Depth	Box Qty	JPL Code
M4	7mm	5mm	500	**117003**
M5	8mm	6.3mm	500	**117006**
M6	10mm	8mm	500	**117008**
M8	13mm	9.5mm	200	**117010**

Size	A/F	Depth	Box Qty	JPL Code
M10	17	11.5	100	**117012**
M12	19	14	100	**117014**
M16	24	18	100	**117018**
M20	30	22	50	**117022**

Serrated Flange Nut

The flange acts as a non-spinning washer, distributing the pressure of the nut. The serrations in the flange help lock the nut, reducing the chance of loosening, particularly if subject to vibration. Din 6923. Zinc plated.

Size	A/F	Box Qty	JPL Code
M6	10mm	200	**117116**
M8	13mm	200	**117117**

Size	A/F	Box Qty	JPL Code
M10	17mm	100	**117118**
M12	19mm	100	**117119**

Steel Flat Washers – Zinc Plated

Standard steel washer with a high corrosion resistance.

Size	OD x Thk	Form A Box Qty	JPL Code	OD x Thk	Form B Box Qty	JPL Code	OD x Thk	Form C Box Qty	JPL Code
M3	7.0 x 0.5mm	500	**139102**						
M4	9.0 x 0.8mm	500	**139104**				10.0 x 0.8mm	500	**139504**
M5	10.0 x 1.0mm	500	**139105**				12.5 x 1.0mm	500	**139505**
M6	12.0 x 1.6mm	500	**139106**	12.5 x 0.8mm	500	**139306**	14.0 x 1.6mm	500	**139506**
M8	16.0 x 1.6mm	200	**139108**	17.0 x 1.0mm	200	**139308**	21.0 x 1.6mm	200	**139508**
M10	20.0 x 20mm	100	**139110**	21.0 x 1.2mm	100	**139310**	24.0 x 2.0mm	100	**139510**
M12	24.0 x 2.5mm	100	**139112**	24.0 x 1.6mm	100	**139312**	28.0 x 2.5mm	100	**139512**
M16	30.0 x 3.0mm	100	**139116**	30.0 x 2.0mm	100	**139316**	34.0 x 3.0mm	100	**139516**
M20	37.0 x 3.0mm	50	**139120**	37.0 x 2.0mm	50	**139320**	39.0 x 3.0mm	50	**139520**
M24	44.0 x 4.0mm	20	**139124**	44.0 x 2.5mm	20	**139324**	50.0 x 4.0mm	20	**139524**

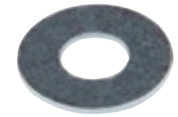
Galvanised Flat Washers

Size	Box Qty	JPL Code
M6	500	**139530**
M8	200	**930936**
M10	100	**139531**
M12	100	**139532**

Size	Box Qty	JPL Code
M16	100	**139533**
M20	50	**139534**
M24	20	**930931**

Mudguard Repair Washers

Mudguard Repair Washer, all 1.5mm thick. Dimensions refer to inside and outside diameter.



Size	Box Qty	Zinc JPL Code	Galvanised JPL Code
M5 x 20mm	200	**146004**	
M5 x 25mm	100	**146005**	
M6 x 20mm	200	**146007**	
M6 x 25mm	100	**146008**	**146030**
M6 x 30mm	100	**146009**	
M6 x 40mm	100	**146010**	
M6 x 50mm	100	**146011**	

Size	Box Qty	Zinc JPL Code	Galvanised JPL Code
M8 x 25mm	100	**146013**	**937188**
M8 x 30mm	100	**146014**	
M8 x 40mm	100	**146015**	
M10 x 25mm	100	**146016**	
M10 x 30mm	100	**146017**	**146031**
M10 x 40mm	100	**146018**	
M10 x 50mm	100	**146019**	
M12 x 40mm	100	**146021**	

Square Section Spring Washers

Size	Box Qty	Zinc JPL Code	Galvanised JPL Code	Phosphor Bronze JPL Code
M4	500	**141053**		**141073**
M5	500	**141054**		**141074**
M6	500	**141055**	**930969**	**141075**
M8	200	**141056**	**937201**	**141076**
M10	100	**141057**	**930970**	**141077**

Size	Box Qty	Zinc JPL Code	Galvanised JPL Code	Phosphor Bronze JPL Code
M12	100	**141058**	**930971**	**141078**
M16	100	**141060**	**930973**	
M20	50	**141062**	**930974**	
M24	20	**141063**	**930975**	

Internal Shake Proof Washer

Internal Shake Proof Washer Zinc Plated, used to prevent loosening where vibration may be a problem.

Size	Box Qty	JPL Code
M4	500	**144056**
M5	500	**144057**
M6	500	**144058**
M8	200	**144059**
M10	100	**144060**

Size	Box Qty	JPL Code
M12	100	**144061**
M16	100	**144063**
M20	50	**144065**
M24	20	**144067**

Roofing Bolts

Our standard roofing bolts and nuts are pan head bolts with a double slotted head and come complete with square nuts.

Size	Box Qty	Zinc JPL Code	Galvanised JPL Code
M5 x 12mm	200	**188001**	
M5 x 16mm	200	**188002**	
M5 x 20mm	200	**188003**	
M5 x 25mm	200	**188004**	
M5 x 30mm	200	**188005**	
M6 x 8mm	200	**188010**	
M6 x 12mm	200	**188011**	**931551**
M6 x 16mm	200	**188012**	**931552**
M6 x 20mm	200	**188013**	**931553**
M6 x 25mm	200	**188014**	**931554**
M6 x 30mm	200	**188015**	**931555**
M6 x 35mm	100	**188016**	
M6 x 40mm	100	**188017**	**931556**
M6 x 50mm	100	**188018**	**931557**

Size	Box Qty	Zinc JPL Code
M6 x 60mm	100	**188019**
M6 x 70mm	100	**188020**
M6 x 80mm	100	**188021**
M6 x 100mm	100	**188022**
M8 x 16mm	200	**188024**
M8 x 20mm	200	**188025**
M8 x 30mm	100	**188026**
M8 x 40mm	100	**188028**
M8 x 50mm	100	**188029**
M8 x 60mm	100	**188030**
M8 x 70mm	100	**188031**
M8 x 80mm	100	**188032**
M8 x 100mm	50	**188033**

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Pozi Machine Screws – Zinc Plated

Metric machines screws with a pozi drive on a pan or countersunk head, zinc plated mild steel.

Pozi Pan

Pozi Countersunk

Size	Pozi Drive	Pozi Pan		Pozi Countersunk	
		Box Qty	JPL Code	Box Qty	JPL Code
M4 x 10mm	2	1000	**272260**	1000	**271108**
M4 x 12mm	2	1000	**272261**	1000	**271109**
M4 x 16mm	2	1000	**272262**	1000	**271110**
M4 x 20mm	2	1000	**272263**	1000	**271111**
M5 x 8mm	2	1000	**272275**	1000	**271112**
M5 x 10mm	2	1000	**931160**	1000	**271113**
M5 x 12mm	2	1000	**931161**	1000	**271114**
M5 x 16mm	2	500	**931162**	500	**271115**
M5 x 20mm	2	500	**931163**	500	**271116**
M5 x 25mm	2	500	**931164**	500	**271117**
M5 x 30mm	2	250	**931165**	250	**271118**
M5 x 40mm	2	250	**931166**	250	**271120**
M6 x 12mm	3	250	**272292**	250	**271124**
M6 x 16mm	3	250	**272293**	250	**271125**
M6 x 20mm	3	250	**272294**	250	**271126**
M6 x 25mm	3	250	**931168**	250	**271127**
M6 x 30mm	3	200	**272296**	200	**271128**
M6 x 35mm	3	200	**931169**	200	**271129**
M6 x 40mm	3	200	**272298**	200	**271130**

Slotted Machine Screws – Zinc Plated

Slotted Pan

Slotted Countersunk

Size	Slotted Pan		Slotted Countersunk	
	Box Qty	JPL Code	Box Qty	JPL Code
M4 x 6mm	1000	**272058**	1000	**273058**
M4 x 8mm	1000	**272059**	1000	**273059**
M4 x 10mm	1000	**272060**	1000	**273060**
M4 x 12mm	1000	**272061**	1000	**273061**
M4 x 16mm	1000	**272062**	1000	**273062**
M4 x 20mm	1000	**272063**	1000	**273063**
M4 x 25mm	500	**272064**	500	**273064**
M4 x 30mm	500	**272065**	500	**273065**
M4 x 35mm	250	**272066**	500	**273066**
M4 x 40mm	250	**272067**	250	**273067**
M5 x 8mm	1000	**272075**	1000	**273075**
M5 x 10mm	1000	**272076**	1000	**273076**
M5 x 12mm	1000	**272077**	1000	**273077**
M5 x 16mm	500	**272078**	500	**273078**
M5 x 20mm	500	**272079**	500	**273079**
M5 x 25mm	500	**272080**	500	**273080**
M5 x 30mm	250	**272081**	250	**273081**
M5 x 40mm	250	**272083**	250	**273082**
M5 x 50mm	100	**272085**	100	**273083**
M6 x 10mm	500	**272091**	500	**273091**
M6 x 12mm	250	**272092**	250	**273092**
M6 x 16mm	250	**272093**	250	**273093**
M6 x 20mm	250	**272094**	250	**273094**
M6 x 25mm	250	**272095**	250	**273095**
M6 x 30mm	200	**272096**	200	**273096**
M6 x 40mm	200	**931147**	200	**273098**
M6 x 50mm	100	**272101**	100	**273100**

Stainless Steel - Hex Set Screws

Stainless Steel setscrews are threaded right up to the head as opposed to bolts where part of the shank is unthreaded. They are manufactured from A2 - 18/8 grade stainless steel and offer excellent corrosion resistance. Sizes are shank diameter x length to base of head. DIN 933, ISO:4017.

Size	A/F	Box Qty	JPL Code
M6 x 10mm		500	**159023**
M6 x 12mm		500	**159024**
M6 x 16mm		200	**159025**
M6 x 20mm		200	**159026**
M6 x 25mm	10mm	200	**159027**
M6 x 30mm		200	**159028**
M6 x 35mm		200	**159029**
M6 x 40mm		200	**159030**
M6 x 50mm		100	**159032**
M8 x 12mm		500	**159041**
M8 x 16mm		200	**159042**
M8 x 20mm		200	**159043**
M8 x 25mm	13mm	100	**159044**
M8 x 30mm		100	**159045**
M8 x 35mm		100	**159046**
M8 x 40mm		100	**159047**
M8 x 50mm		100	**159049**
M8 x 60mm		100	**159051**
M10 x 16mm		100	**159059**
M10 x 20mm	17mm	100	**159060**
M10 x 25mm		100	**159061**
M10 x 30mm		100	**159062**

Size	A/F	Box Qty	JPL Code
M10 x 35mm		100	**159063**
M10 x 40mm	17mm	100	**159064**
M10 x 50mm		50	**159066**
M10 x 60mm		50	**159068**
M12 x 20mm		50	**159080**
M12 x 25mm		50	**159081**
M12 x 30mm		50	**159082**
M12 x 35mm	19mm	50	**159083**
M12 x 40mm		50	**159084**
M12 x 50mm		50	**159086**
M12 x 60mm		50	**159088**
M16 x 25mm		25	**930556**
M16 x 30mm		25	**159115**
M16 x 35mm		25	**159116**
M16 x 40mm		25	**159117**
M16 x 45mm		25	**159118**
M16 x 50mm	24mm	25	**159119**
M16 x 60mm		25	**159121**
M16 x 65mm		25	**159126**
M16 x 70mm		25	**159127**
M16 x 75mm		25	**930558**
M16 x 80mm		25	**159129**

Stainless Steel - Hex Full Nuts

Hexagon full nut manufactured from stainless steel to provide a high level of corrosion resistance.

Size	A/F	Box Qty	JPL Code
M4	7mm	1000	**117204**
M5	8mm	1000	**117205**
M6	10mm	1000	**117206**
M8	13mm	500	**117208**
M10	17mm	200	**117210**

Size	A/F	Box Qty	JPL Code
M12	19mm	200	**117212**
M16	24mm	100	**117216**
M20	30mm	50	**117220**
M24	36mm	25	**117224**

Stainless Steel - Nyloc Nuts

Stainless steel nylon insert self-locking nuts for a high level of corrosion resistance. The nylon insert grips the thread of the fixing it's been screwed onto stopping it becoming loose.

Size	A/F	Box Qty	JPL Code
M4	7mm	500	**117304**
M5	8mm	500	**117305**
M6	10mm	500	**117306**
M8	13mm	500	**117308**

Size	A/F	Box Qty	JPL Code
M10	17mm	200	**117310**
M12	19mm	200	**117312**
M16	24mm	100	**117316**
M20	30mm	50	**771320**

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Stainless Steel - Washers

The standard size of A2 stainless steel washers with a high corrosion resistance. BS4320

Size	Form A OD x Thk	Box Qty	JPL Code	Size	Form B OD x Thk	Box Qty	JPL Code
M4	9.0 x 0.8mm	1000	**159204**	M5	10.0 x 0.8mm	1000	**159255**
M5	10.0 x 1.0mm	1000	**159205**	M6	12.5 x 0.8mm	1000	**159256**
M6	12.5 x 1.6mm	1000	**159206**	M8	17.0 x 1.0mm	500	**159258**
M8	17.0 x 1.6mm	500	**159208**	M10	21.0 x 1.2mm	500	**159260**
M10	21.0 x 2.0mm	500	**159210**	M12	24.0 x 1.6mm	200	**159262**
M12	24.0 x 2.5mm	200	**159212**	M16	28.0 x 1.6mm	200	**159266**
M16	30.0 x 3.0mm	200	**159216**	M20	37.0 x 2.0mm	200	**159270**

Stainless Steel - Mudguard Repair Washers

Stainless steel mudguard or repair washers as they're also know are suitable for outdoor use. The dimensions refer to the inside diameter and the outside diameter. A2 Grade Stainless Steel.

Size	Box Qty	JPL Code	Size	Box Qty	JPL Code
M5 x 25mm	200	**159301**	M8 x 30mm	200	**159303**
M6 x 20mm	200	**937183**	M10 x 35mm	200	**930962**
M6 x 25mm	200	**159302**	M12 x 35mm	200	**930963**

Stainless Steel - Square Section Spring Washers

Grade A2 Stainless Steel.

Size	Box Qty	JPL Code	Size	Box Qty	JPL Code
M4	1000	**159404**	M12	500	**159412**
M5	1000	**159405**	M16	200	**159416**
M6	1000	**159406**	M20	100	**159420**
M8	1000	**159408**	M24	100	**159424**
M10	500	**159410**			

Stainless Steel - Slotted Machine Screws

Grade A2 Stainless Steel.

Size	Countersunk Box Qty	Countersunk JPL Code	Pan Head Box Qty	Pan Head JPL Code
M4 x 8mm			500	**159759**
M4 x 10mm	500	**159560**	500	**159760**
M4 x 12mm	500	**159561**	500	**159761**
M4 x 20mm	500	**159563**	500	**159563**
M4 x 25mm			500	**159764**
M4 x 30mm			500	**931206**
M4 x 40mm			500	**159767**
M5 x 10mm			500	**159776**
M5 x 12mm	500	**159577**	500	**159777**
M5 x 16mm	500	**159578**	500	**159778**
M5 x 20mm	500	**159579**	500	**159779**

Size	Countersunk Code	Countersunk Box Qty	Pan Head Code	Pan Head Box Qty
M5 x 25mm	500	**159580**	500	**159780**
M5 x 30mm	500	**937326**	500	**931207**
M5 x 40mm			500	**159783**
M6 x 12mm	500	**159592**	500	**159792**
M6 x 16mm	500	**159593**	500	**159793**
M6 x 20mm	500	**159594**	500	**159794**
M6 x 25mm	200	**159595**	200	**159795**
M6 x 30mm	200	**159596**	200	**159796**
M6 x 35mm			200	**931213**
M6 x 40mm			200	**931214**

Grade A4 Stainless Steel sizes also available.

Brass - Hex Setscrews

Brass setscrews are threaded right up to the head as opposed to bolts where part of the shank is unthreaded. Sizes are shank diameter x length to base of head. DIN 933, ISO:4017.

Size	Box Qty	JPL Code	Size	Box Qty	JPL Code
M6 x 10mm	100	**158062**	M8 x 50mm	100	**158102**
M6 x 12mm	100	**158063**	M10 x 16mm	50	**937089**
M6 x 16mm	100	**158065**	M10 x 20mm	50	**158120**
M6 x 20mm	100	**158067**	M10 x 25mm	50	**158124**
M6 x 25mm	100	**158069**	M10 x 30mm	50	**158125**
M6 x 30mm	100	**158070**	M10 x 35mm	50	**158126**
M6 x 40mm	100	**158072**	M10 x 40mm	50	**158127**
M6 x 50mm	100	**158074**	M10 x 50mm	50	**158129**
M8 x 16mm	100	**158093**	M12 x 25mm	50	**158149**
M8 x 20mm	100	**158095**	M12 x 30mm	50	**158150**
M8 x 25mm	100	**158097**	M12 x 35mm	50	**158151**
M8 x 30mm	100	**158098**	M12 x 40mm	25	**158152**
M8 x 35mm	100	**158099**	M12 x 45mm	25	**930512**
M8 x 40mm	100	**158100**	M12 x 50mm	25	**158154**

Brass - Hex Full Nuts

Hexagon full nut manufactured from brass for use with brass fasteners. Din 934.

Size	Box Qty	JPL Code	Size	Box Qty	JPL Code
M3.5	100	**154002**	M8	50	**154008**
M4	100	**154004**	M10	50	**154010**
M5	100	**154005**	M12	25	**154012**
M6	100	**154006**			

Brass - Washers

Form A & B brass washers for use with brass nuts, setscrews and machine screws, whether it's for their appearance, corrosion resistance or electrical properties.

Size	Form A OD x Thk	Box Qty	JPL Code	Size	Form B OD x Thk	Box Qty	JPL Code
M3.5	7.0 x 0.5	1000	**156003**	M6	12.5 x 0.8	1000	**156106**
M4	9.0 x 0.8	1000	**156004**	M8	17.0 x 1.0	500	**156108**
M5	10.0 x 1.0	1000	**156005**	M10	21.0 x 1.2	500	**156110**
M6	12.5 x 1.6	500	**156006**	M12	24.0 x 1.6	200	**156112**
M8	17.0 x 1.6	500	**156008**	M16	28.0 x 1.6	100	**156116**

Brass - Slotted Machine Screws

Size	Countersunk JPL Code	Pan Head JPL Code	Size	Countersunk JPL Code	Pan Head JPL Code
M3 x 12mm	**931177**		M5 x 20mm	**160283**	**160073**
M3 x 25mm	**160229**		M5 x 25mm	**160284**	**160074**
M4 x 6mm		**160053**	M5 x 30mm	**160285**	**160075**
M4 x 8mm		**160054**	M5 x 40mm		**931182**
M4 x 10mm	**160265**	**160055**	M5 x 50mm	**160289**	
M4 x 12mm	**160266**	**160056**	M6 x 12mm	**160295**	**160085**
M4 x 16mm	**160267**	**160057**	M6 x 16mm	**160296**	**160086**
M4 x 25mm	**160269**	**160058**	M6 x 20mm	**160297**	**160087**
M4 x 30mm	**160270**	**160060**	M6 x 25mm	**160298**	**160088**
M4 x 40mm		**160062**	M6 x 30mm	**931178**	**931183**
M4 x 50mm	**160274**	**160064**	M6 x 50mm	**160303**	
M5 x 10mm	**160280**		M10 x 40mm	**160323**	
M5 x 12mm	**160281**	**160071**			

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Nut Cover Caps

Size	Box Qty	Black JPL Code	White JPL Code
M6 (10mm AF)	100	**190936**	**190931**
M8 (13mm AF)	100	**190937**	**190932**
M10 (17mm AF)	100	**190938**	**190933**

Size	Box Qty	Black JPL Code	White JPL Code
M12 (19mm AF)	50	**190939**	**190934**
M16 (24mm AF)	50	**190940**	**190935**

Nylon Washers

Size	Box Qty	JPL Code
M5	1000	**144071**
M6	500	**144080**
M8	500	**144072**
M10	500	**144073**

Size	Box Qty	JPL Code
M12	200	**144074**
M16	100	**937218**
M20	100	**144075**

Fibre Washers

Size	Box Qty	JPL Code
M4	100	**931021**
M6	100	**931022**
M8	100	**931023**

Size	Box Qty	JPL Code
M10	100	**931025**
M12	100	**931026**

Hex Security Machine Screws

Pin hex security machine screws are manufactured with an internal pin within the standard socket aperture preventing removal with a standard hexagon key. If the fixture is countersunk then the security fastener tightens down so the head is flush with the fixture. Manufactured in A2 stainless steel, suitable for outdoor use.

Size	Key	Box Qty	Countersunk JPL Code	Button Head JPL Code
M4 x 12	H40	100	**272350**	**272371**
M4 x 16	H40	100		**272372**
M4 x 20	H40	100	**272351**	**272373**
M4 x 25	H40	100	**272352**	**272374**
M5 x 12	H40	100	**272353**	**272375**
M5 x 20	H40	100	**272354**	**272376**

Size	Key	Box Qty	Countersunk JPL Code	Button Head JPL Code
M5 x 25	H40	100	**272355**	
M6 x 20	H40	100	**272356**	
M6 x 25	H40	100	**272357**	
M6 x 30	H40	100	**272358**	
M6 x 40	H40	100	**272359**	

Raised Hex Security Machine Screws

Ideal for securing electrical sockets and switches to their backing boxes as a direct replacement for standard M3.5 raised head countersunk machine screws. The pin hex head has an internal pin in the standard hexagon socket apature to prevent removal with a standard allen key. The machines screws are manufactured in A2 stainless and are suitable for outdoor use.

Size	Key	Box Qty	JPL Code
M3.5 x 25	H30	100	**272391**
M3.5 x 40	H30	100	**272392**
M3.5 x 50	H30	100	**272393**

Resistorx Security Machine Screws

Security machine screw with a central pin within Resitorx drive to prevent removal with a standard torx bit and are suitable for higher torque applications. Resistorx may also be known as 6 lobe pin, Star Drive Pin or Pin Torx. The machine screws are manufactured in A2 stainless steel and are suitable for outdoor applications.

Size	Key	Box Qty	Countersunk JPL Code	Button Head JPL Code
M4 x 12	T20	100	**272450**	**272471**
M4 x 16	T20	100	**272461**	**272472**
M4 x 20	T20	100	**272451**	**272473**
M4 x 25	T20	100	**272452**	**272474**
M5 x 12	T25	100	**272453**	**272475**
M5 x 20	T25	100	**272454**	**272476**

Size	Key	Box Qty	Countersunk JPL Code
M5 x 25	T25	100	**272455**
M6 x 20	T30	100	**272456**
M6 x 25	T30	100	**272457**
M6 x 30	T30	100	**272458**
M6 x 40	T30	100	**272459**

Pin Hex Self Tapping Screws

Pin hex security self-tapping screws are manufactured with an internal pin within the standard socket aperture, preventing their removal with a normal hexagon key. As well as being able to screw into sheet metal self-tappers also make an ideal security woodscrew. They are manufactured from A2 stainless steel and are suitable for outdoor use.

Size (imp)	Key	Box Qty	Countersunk JPL Code	Button Head JPL Code
6 x 3/8	H30	100		**272320**
6 x 1/2	H30	100	**272301**	**272321**
6 x 3/4	H30	100	**272302**	**272322**

Size (imp)	Key	Box Qty	Countersunk JPL Code	Button Head JPL Code
8 x 1/2	H40	100	**272303**	**272323**
8 x 3/4	H40	100	**272304**	**272324**
8 x 1	H40	100	**272305**	**272325**
8 x 1.1/2	H40	100	**272306**	**272326**

Resistorx Self Tapping Screws

Resistorx or as they are sometimes known, 6 Lobe Pin, Star Drive Pin or Pin Torx, self-tapping screws have a pin in the centre of the head recess preventing removal with a standard torx tool. Self-tapping screws can also be used as an alternative to woodscrews proving a secure fixing. Manufactured in A2 stainless steel.

Size (imp)	Key	Box Qty	CSK JPL Code	Button Head JPL Code
6 x 1/2	T10	100	**272401**	**272421**
6 x 3/4	T10	100	**272402**	**272422**
8 x 1/2	T15	100	**272403**	**272423**

Size (imp)	Key	Box Qty	CSK JPL Code	Button Head JPL Code
8 x 3/4	T15	100	**272404**	**272424**
8 x 1	T15	100	**272405**	**272425**
8 x 1.1/2	T15	100	**272406**	**272426**

Security Hex Insert Bits

Size	JPL Code
H30	**272501**
H40	**272502**

Resistorx Security Hex Bits

Size	JPL Code
T10	**272511**
T15	**272512**
T20	**272513**

Size	JPL Code
T25	**272514**
T30	**272515**

Hook Bolt Nuts

Size	Box Qty	JPL Code
M8 x 60mm	100	**930785**
M8 x 80mm	100	**070503**
M8 x 100mm	100	**070504**

Folded Eye Bolts

Size	JPL Code
M6 x 80mm	**307941**
M6 x 100mm	**307942**
M6 x 150mm	**307944**
M8 x 50mm	**307946**
M8 x 80mm	**307947**
M8 x 100mm	**307948**
M8 x 150mm	**307950**

Size	JPL Code
M10 x 80mm	**307951**
M10 x 100mm	**307952**
M10 x 150mm	**307954**
M12 x 80mm	**307956**
M12 x 100mm	**307957**
M12 x 150mm	**307959**

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Collared Eye Bolts

Size	JPL Code	Size	JPL Code
M6	**932991**	M12	**932993**
M8	**932992**	M16	**428011**
M10	**320451**	M24	**932995**

Bow Nuts Zinc Plated

Size	JPL Code	Size	JPL Code
M10	**932981**	M16	**932983**
M12	**932982**	M20	**932984**

Jack Pennington ltd

Mechanical - Electrical - Fixings - Tooling - Site Services

OFF SITE SERVICE CENTRE

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Services

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• **Kits** - We can provide a variety of components individually packed in kit form to your specification, ideal for jobs where there is a lot of repetition.

• **Modules** - 3D Module assembled to your specific requirements, with or without containment.

• **Space** - Make more efficient use of space on site by removing the need to have an area designated for cutting and assembly.

• **Waste** - Eradicate excess off cuts of channel and studs and reduce the amount of packaging to be disposed of, you only need to order what you require.

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• **Identification** - Identification of our products is made easy, each product is labelled, either by size or with your own specific reference.

• **Health and safety** - Reduce the health and safety risks associated with cutting and having excess waste on site.

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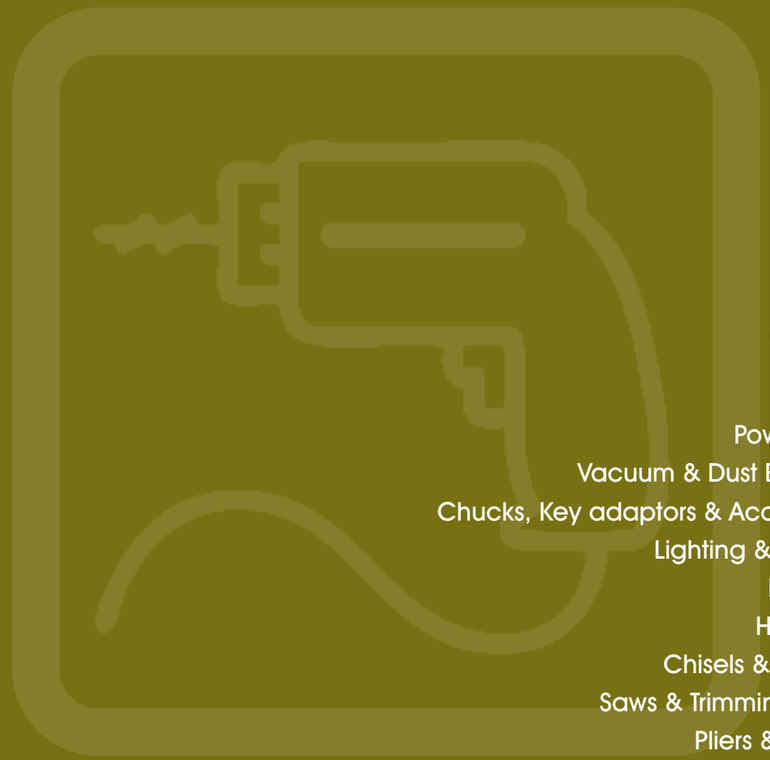

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36V Series

Item	Description	JPL Code
GBH 36V-LI Plus SDS Hammer Drill	• c/w 2 x 4 OAh Lion batteries and charger • Endless power and absolute control • 3 functions: drilling, hammering, chiselling • Up to 240 holes in concrete with one battery chargeGBH 36V-LI Plus SDS	**452014**
	As above but comes complete with a keyless chuck, making it also suitable for straight-shank drill bits in wood and metal.	**452018**
GSB 36VE- 2LI Combi Drill	• c/w 2 x 2 OAh Lion batteries and charger and L-Boxx storage box • Makes short work of tough applications – with impact drilling function • Extremely powerful: 100 Nm for the toughest screw driving and drilling applications in wood and metal, and impact drilling applications in masonry up to 20 mm	**452015**
	As above but c/w 2 x 4 OAh Lion batteries	**452016**

18V Series

Item	Description	JPL Code
GBH-18V-EC Cordless SDS+ Hammer Drill	• c/w 2 x 4.0 Ah Li-Ion batteries AL 1860 CV quick charger and L-BOXX Storage box, Auxiliary handle • Unsurpassed combination of power and weight • Long runtime (153 holes, 6 x 40 mm in concrete) with one battery charge (4.0 Ah) • Low weight (only 2.6 kg) and compact design for more comfortable work • Brushless Bosch EC motor: compact, dust-protected, lightweight and absolutely maintenance-free	**452038**
GSB-18VE- 2LIRS Robust Series Combi Drill	• c/w 2 x 4.0 Ah Li-Ion batteries AL 1860 CV quick charger and L-BOXX Storage box, Auxiliary handle • Extremely robust. Virtually indestructible – with impact drilling function • Powerful: 85 Nm for the toughest screw driving applications in masonry up to 16 mm	**452023**
GSB18VLI 2 Speed DS combi Drill	• c/w 2 x 4.0 Ah Li-Ion batteries AL 1860 CV quick charger L-BOXX Storage box • The compact 18 volt endurance runner with impact drilling function. Powerful 67 Nm for up to 75 holes (6 x 50 mm) in masonry (test concrete in accordance with EN 60745-2-1-) with only one battery charge (18 V – 4.0 Ah) • 13-mm Auto-Lock drill chuck	**452021**
GSB18-2LI Combi Drill	• c/w 2 x 1.5 Ah Li-Ion batteries AL 1820 CV quick charger and L-BOXX Storage box. Screwdriver bit • The lightest and most compact cordless drill/driver in it's class • For powerfulscrewdriving and drillingapplications in wood (30mm) and metal (10mm) and impact drilling in masonary (10mm) • Professional quality 10 mm Auto-Lock drill chuck	**452025**

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BOSCH Invented for life

10.8V Series

	Item	Description	JPL Code
	GSR 10.8V EC Drill/Driver	• c/w 2 x 2.0Ah Batteries, AL1130 CV quick charger • Lasts longer, runs longer • Professional quality 20mm Auto-Lock drill chuck • Optimum torque adjustment for precise screwdriving due to 20 + 1 torque settings	**452004**
	GSR 10.8V LI Drill/Driver	• c/w 2 x 2.0Ah Batteries and L-Boxx Storage Box • The handy powerhouse • Lockable 1/4" universal hex bit holder locks all conventional drill bits and screwdriver bits	**452002**
	GDR 10.8V LI Impact Driver	• c/w 2 x 2.0Ah Batteries and L-Boxx Storage Box • The shortest cordless impact driver in it's class • Powerful 105 Nm torque for 80% of all conventional cordless impact driver applications in metal and concrete	**452003**
	GWI 10.8VLI Angle Driver	• c/w 2 x 2.0Ah Batteries and L-Boxx Storage Box • The most compact lithium-ion cordless angle driver • Extremely versatile, above all in tight spaces and hard-to-reach areas, thanks to the 5 head position settings: 0°/22.5°/45°/67.5°/90° • Very compact: 9.5 cm adjustable head, the smallest on the market • 7-stage electronic torque adjustment + drill setting	**452028**
	GOP 10.8VLI Multi-Cutter	• c/w 2 x 2.0Ah Batteries and L-Boxx Storage Box • Perfect for trimming, adjusting and repairing • Wide range of applications such as plunge cuts, flush sawing and sanding due to comprehensive range of accessories • Adjustable speed control of 5,000 – 20,000 oscillations per minute	**452012**
	GSA 10.8VLI Mini Recip Saw	• c/w 2 x 2.0Ah Batteries and L-Boxx Storage Box • The most compact design in its class for perfect handling and versatile applications in wood, metal and plastic • Excellent ergonomics: small grip circumference and light weight (only 1.2 kg) for maximum comfort • Bosch SDS system for fast and convenient saw blade changes	**452008**
	GOS10.8V LI Inspection Camera	• c/w 1 x 1.3AH battery and L-Boxx Storage Box • Quick problem analysis in hard-to-reach areas • Realistic image rendering on 2.7" LCD display with high resolution • Bright Power LED for optimum illumination in dark areas	**452009**

BOSCH Invented for life

Item	Description	JPL Code	
GBH 2-20 D SDS-plus rotary Hammer Drill 110v	• 2Kg 650w • Top performance in the compact class • Forward/reverse rotation • Continuously variable speed control for clean drilling starts	**452056**	
GBH 2-24 D SDS-plus rotary Hammer Drill 110v	• 2Kg 790w • The powerful all-rounder • Rotation stop for chiselling work • Forward/reverse rotation • Continuously variable speed control for clean drilling starts	**452057**	
GBH 2-28 DV SDS-plus rotary	• 2kg 850w c/w L-Boxx Storage Box • The most powerful tool in its class • Rotation stop for chiselling work • Forward/reverse rotation • Continuously variable speed control for clean drilling starts	**452073**	
GSB 13 RE Rotary Impact Drill 110v	• 600W • The fastest and most versatile tool in its class • Powerful 2-speed impact drill (850 W) for the fastest work progress • Single-sleeve keyless chuck with auto-lock for qiuck accessory changes with one hand	**452066**	
GSB 19-2 RE Two Speed Impact Drill 110v	• 850W • The handiest tool in its class • Electronic control for exact pilot drilling • Forward/reverse rotation	**452043**	

BOSCH Invented for life

Item	Description	JPL Code	
GWS 7-115 Mini Grinder 110V	• 115mm (4.1/2") disc diameter • Smallest grip circumference • Powerful 720-watt motor	**452123**	
GWS 9-115 Mini Grinder 110V	• 115mm (4.1/2") disc diameter • The most durable tool in it's class • Powerful 900-watt motor for fast work progress	**452125**	
GWS 11-125 Mini Grinder 110V	• 125mm (5") disc diameter • The most durable tool in it's class • Powerful 1100-watt motor for fast work progress	**452127**	

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Grinders

Item	Description	JPL Code
GWS 22-230 Angle Grinder 110V	• 230mm (9") disc diameter • Compact powerful tool for the toughest jobs • Powerful 2200 Watt champion motor for fast work progress	**452144**

GWS 22-230 LVI	• 230mm (9") disc diameter • Powerful 2200 Watt champion motor • Vibration reduced by 50% with vibration control handle	**452146**

Jigsaws

Item	Description	Voltage	JPL Code
GST 90 BE Jigsaw	• Top-class convenience in the entry level class • Powerful 650 watt motor for fast work progress	110V 240V	**452217** **452221**

GST 150 BEC Jigsaw	• The most powerful tool in its price class • 780-watt motor • Electronic speed preselection	110V 240V	**452219** **452224**

Cut Off Saws

Item	Description	Voltage	JPL Code
GCO 2000 Abrasive Cut Off Saw	• 355mm (14") Disc Diameter • The robust tool for the toughest applications • Powerful 2000 W motor • User-friendly quick clamping mechanism with continuously variable mitre angle setting up to 45°	110v	**452302**

Item	Description	Size	JPL Code
Raptor TCT Dry Cut Off Saw 110V	• Heavy duty, industrial cut off saw. Ideal for use with metal. • Ideal for cutting steel plate, square tube, angle iron, pipe, tube and metal roofing • When cutting steel, the material has a workable finish. virtually no heat burrs or sparks are created, unlike inherently dangerous abrasive saws • Fast action swivel clamp with solid steel jaws enables cuts to be made from 0 - 45° • c/w steel blade; designed to cut steel • 1800W	355mm	**452309**

Rage TCT Multipurpose Saw 110V	• Cuts Steel, Aluminium, Wood (even wood with nails) and Plastic, using just one blade • When cutting Steel, it leaves an instantly workable finish, producing no heat, no burr and virtually no sparks • Fast action swivel clamp with solid steel jaws enables cuts to be made from 0 - 45° • c/w Multipurpose Blade: Designed to cut mild steel, aluminium, plastics and wood • 1600W	185mm 355mm	**934293** **934292**

Vacuum & Dust Extractors

Item	Description	Voltage	JPL Code
Bosch GAS 20 L SFC	• The mobile wet/dry dust extractor with semi-automatic filter cleaning system (SFC) • High suction force due to powerful 1200 watt suction turbine – for versatile applications in wet and dry operation • Easy filter cleaning due to semi-automatic filter cleaning system (SFC) • Certified safety dust extractor that meets dust class "L" in accordance with the EU standard to provide good user protection	240V	**429229**
Numatic 'Henry' Vacuum	• Henry brings professional cleaning to all and is packed full of innovative features. • Cable and storage rewind system is trouble free and spring free and it keeps everything neat and tidy. Professional specification brings a 10m power cable, 9L drum capacity and a 2 Speed Performance System - Hi / Lo selection with a flick of a switch.	110V 240V	**429228** **429225**
Spare Henry Bags	• Pack of 10		**429226**
Numatic 'Charles' Vacuum	• A vacuum cleaner for wet or dry use. • Big filters and HepaFlo dust bags for dry use and a safety float valve for wet pick-up.	110V	**429227**

Chucks, Keys and Adaptors

Keyless Chucks

Item	Chuck Capacity	Mount Range	JPL Code
Chuck with SDS plus adaptor	1.5mm – 13mm		**452503**
UNF (fem) keyless chuck	2mm – 13mm	1/2" UNF - 20	**452504**

Keyed Chucks

Item	Chuck Capacity	Mount Range	JPL Code
UNF (fem) chuck	1mm – 10mm	3/8" UNF - 24	**452505**
UNF (fem) chuck	1.5mm – 13mm	1/2" UNF - 20	**452506**
Chuck with SDS plus adaptor	1.5mm – 13mm		**452502**

Spare Chuck Keys

Item	JPL Code
S2 1/2" chuck key	**452518**

SDS Adaptors

Item	JPL Code
Adaptor for SDS Plus to Standard UNF 13mm Chuck	**452501**
Adaptor for SDS Plus to ½" Square Drive	**452507**

Grinder Accessories & Backing Pads

Item	Description	JPL Code
SDS Clic Quick Locking Nut	Appropriate for all angle grinders with M14 thread	**452525**

Item	Description	Size	JPL Code
Two Hole Pin Spanner	for clamping all discs	Small for one handed grinders	**452527**
Two Hole Pin Spanner	for clamping all discs	Large for two handed grinders	**452528**
Two Hole Pin Spanner	for clamping all discs	Bent for diamond and tungsten carbide grinding heads	**452529**

Bosch Backing Pads For use with fibre sanding discs, flange included

Size		Flange Thread	Max RPM	JPL Code
4"	102mm	M10	13,200	**452521**
4.5"	114mm	M14	15,200	**452522**
5"	125mm	M14	12,500	**452526**
7"	180mm	M14	8,500	**452523**

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Chisels for Hammer Drills

SDS Plus Chisels for Rotary Hammers.
Overall Length 250mm

Type	Blade Width	JPL Code
Pointed		**452602**
Flat	20mm	**452601**
Spade	40mm	**452603**
Set of 3 (pointed, flat and spade)		**452607**

Transformers

Item	Description	JPL Code
Twin Outlet 16 Amp Transformer	16 Amp 3.3KVA twin outlet transformer, ideal for site use. It has a heavy-duty GRP fully weatherproof case which is rated to IP44. It has a re-settable thermal overload protection and is fitted with BS approved 13 amp plug. It is also includes a unique blue LED 'Power On' indicator, which provides the user with an 'at a glance' confirmation that the unit is live. This model has 2 x 110V 16 amp sockets. Not suitable for use on 110v heaters where a continuous load is required.	
Power Pod 3.3KVA Transformer	Defender E205100 Power Pod is the ultimate 3.3kVA transformer with it's revolutionary advancement in transformer design, the Power Pod reduces 240v input electricity to 110v for safe site use and is designed to be used with industrial 110v power tools. A tough rubberised DuPont casing protects against the rigours of site use and transportation, recessed outlets prevent them from being sheared off in harsh environments. The E205100 has power on indicators for each socket showing when tools are powered up.	**458007**

Leads & Extension Reels

Extension Lead

Double Socket

4 Way

Splitter

Spider Ball

5m

25m

10m

15m

50m

Leads & Extension Reels 110V

Type	Length	JPL Code
110V Extension Lead 16 Amp	14m	**458001**
	25m	**458002**
110V PVC/Steel frame Extension	25m	**458004**
Reel Double Socket	50m	**458003**
110v 4 way extension outlet assemblies with cable & plug		**458005**
110V 16A 3 way splitter adapter		**934328**
110v Spider Ball 16A 4 way splitter		**458006**

Leads & Extension Reels 240V

Type	No of Gangs	Length	JPL Code
240V Extension Reels 13amp	2	5m	**938148**
		25m	**934329**
	4	10m	**938146**
		15m	**938147**
		50m	**934330**

LED Site Lighting

Item	Description	JPL Code
LED Hand Lamp Rechargeable	A low energy, hand held rechargeable lamp, containing 26 ultra-bright LED's in a shatterproof body. Comes with a base to allow it to be stood and a hanging hook. A charger is included and the lamp offers 3 hours of battery life on full power and 6 hours on half power.	**339018**
LED Site Light 38W 110V (IP44 RATED)	A low energy, robust lighting solution that's ideal for site, industrial and domestic use. The light runs cool eliminating burn risk due to the 64 low energy LED's that provide a significant energy saving over the units lifetime. Manufactured from 100% recyclable materials the unit offers excellent environmental benefits. The unit is protected with a rubber anti shock base and is IP44 rated.	**339016**
LED Festoon Lighting 110V	A festoon string with light fittings each containing 21 high quality LED's delivering glare free light. These are a low energy lights, generating no heat, maximising user safety, with 100,000 hour life. Size 22m (10 lights)	**339026**
	Size 50m (25 lights)	**339027**

Site Lighting

Item	Description	JPL Code
Task Light 110V	38w floor standing fluorescent task light, IP44 rated. 2D	**339010**
	Spare Bulb for Task Light	**339011**
Portable carrylite 110V	Lamp is constructed from a die-cast body and is equipped with a metal grille to prevent accidental contact with the hot lens and to protect it against damage. All lamps fitted with an approved BS plug. Conforms to IP54 for water and dust ingress protection. These Faithfull Lights are free standing, portable and come in 110 Volt and with 500 watt lamp versions. Mounted on a strong tubular steel frame for added stability. A 'tilt and lock' facility, this allows the head to be adjusted to a variety of positions to optimise the powerful light output. Supplied with C class energy saving halogen tubes.	**339004**
Eco Uplight 110v	Low energy fluorescent light stick on a detachable tripod. Multiple hanging, standing and laying points extend usability across many applications. Impact-resistant polycarbonate lens protects the high output, low energy Philips tube.	**339012**
Tripod Floodlight 500W 110V	Lamp is constructed from a die-cast body and is equipped with a metal grille to prevent accidental contact with the hot lens and to protect it against damage. Both lamps fitted with an approved BS plug. Conforms to IP54 for water and dust ingress protection. — Single head	**339001**
	Excellent illumination from lamps and mounted on a sturdy telescopic stand that enables the lamp height to be adjusted between 78 cm and 183 cm. The spread of the tripod feet are independently adjustable to suit uneven terrain. Supplied with C class energy saving halogen tubes. — Double head	**339007**
2ft Twin Fluorescent Tripod Light 110V	2 x 2 ft 18w fluorescent tubes on fixed leg tripod. Has 2 x 16A sockets built in.	**339008**
Low Level Fluorescent Light 110V	The plasterers light is made from a sturdy steel construction and polycarbonate lens cover making it tough and durable. Fitted with 2 x 610mm (2ft) 18 watt fluorescent tubes, the light is ideal for all interior or site work, as it give a cool bright light without shadowing. Two built-in power outlets for in-series linking and the integral suspension hook make these lights truly versatile when in use. The leg stand can be fully folded for transportation or space saving storage. Conforms to IP44 for water and dust ingress protection.	**339009**

LED Side Light

Hand Held

LED Festoon

Eco Uplighter

Task Light

Portable carrylite

Low Level Fluorescent Lights

Bulbs

Type		JPL Code
110v/38W	For 2D Worklite	**339011**
110v/400W	For Halogen Floodlight	**339006**

Replacement Bulbs for Halogen Floodlight

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Head Torches

LED Lenser - Head Lamps

Item	Description	JPL Code
H5	The H5 Head Lamp incorporates the new advanced focus system. The lens and reflector are combined to provide a stage less transition from spot to flood beam. A red LED in the battery box provides a great back light for Joggers and walkers at night. • Fully Adjustable Straps • Innovative High Intensity 0.5 Watt LED • Lamp head can be swivelled within an angle of 90 Degrees • 25 Lumens • Burn time up to 20 hours • Requires 3 x AAA Batteries	**320665**
H7.2	The H7.2 has a CREE LED light chip which generates 250 Lumens of light. Other features include the new advanced focus system and integrated dimmer switch. All of which make the H7.2 the best all round head torch. • Advanced Focus System - Spot to Flood Beam • Fully Adjustable Straps • Multi-function Dynamic 'wheel' switch at back • IPX54 water and dust resistant • Lamp head can be swivelled within an angle of 90 Degree • Burn time up to 60 hours • Requires 4 x AAA Batteries	**320766**
H7R.2	The H7R.2 is a Rechargeable version of the H7.2 Head lamp, ideal for Professionals who require the use of a head torch every day. • Up to 300 lumens light output • 'Low Battery' indicator • Rechargeable up to 500 Times	**320668**

Key Ring Torches

Item	Description	Lumens	Max Beam Distance	Weight	Length	Burn Time	Battery	JPL Code
K2	The most powerful key-ring LED Lenser delivering a stunning 25 lumens. The light from this torch has to be seen to be believed. Ideal on key-rings, in handbags and in car glove boxes. • Tough aircraft-grade aluminium casing • Supplied with handy key-ring attachment • Simple on-off twist switch	25	20m	20g	145 mm	6hr	4x AG3	**320669**
P3	The P3 is under four inches long and about as big around as a pen, making it perfect for a pocket. • Tough aircraft-grade aluminium casing • Supplied with wrist-strap, belt pouch and batteries • Easy-slide Speed Focus • Blue Moon Technology • Robust end-cap switch • Pocket clip and key-ring attachment included	16	31m	36g	32mm	7hr	1 x AAA	**320673**

Professional Torches

Item	Description	Lumens	Max Beam Distance	Weight	Length	Burn Time	Battery	JPL Code
P6.2	• Slim profile to get into tight spaces. • Easy-slide speed focus ring • Exceptional light quality, indoors or out • Shock-resistant aluminium body, corrosion-resistant gold battery contacts, simple end cap switch and metal clip for strap or cord • Includes belt pouch and wrist strap.	200	120m	116g	26mm	40hr	2x AA	**320675**

Professional Torches (continued)

LED Lenser - Professional Torches

Item	Description	Lumens	Max Beam Distance	Weight	Length	Burn Time	Battery	JPL Code
P7.2	• Brilliant all-rounder • Lumen output is a stunning 320 on the 'Boost' light whilst both the spot and flood beams shine over a wider angle • Larger switch size – easier to operate withgloves on • IPX54 – water and dust resistant • Supplied with Duracell® batteries, belt pouch, wrist-strap	320	260m	175g	130mm	50hr	4x AAA	**320676**
P14.2	• Reassuringly sturdy hand-held torch • Fantastic build quality and outstanding performance • Three different light settings – Power, Low Power and Boost • Lightweight aircraft-grade aluminium housing with a smart, anti-slip matt black finish • Corrosion resistant gold plated contacts for better conductivity • Water and dust resistant. IPX54 • Includes belt pouch and hand cord	350	270m	357g	198mm	40hr	4 x AA	**320677**

High Visibility Torches

Item	Description	Lumens	Weight	Dimensions	Battery	JPL Code
PS-H2	• CREE LED • Rubberised head for greater protection • 3M Reflective Strap for greater visibility • Collimator lens • Emergency flash function • Push button micro switch • Rubberised Non-Slip headbands • Impact Resistant to 1M • Water Resistant	80	80g	Headlight: 50mmx 50mm x 60mm Battery Pack: 72mm x 39mmx 25mm	1x AA	**320621**
PS - L3	• 160 Lumen White CREE LED • Industrial strength copolymer housing • Push button micro switch • Beamaster lens • Swivel head rotation 135° • Easy screw battery replacement • Side charging point • Impact Resistant to 1M • Water Resistant • Pocket clip and key-ring attachment included	160	420g	250mm x 110mm	1×6v PJ996 Lantern battery	**320660**
Atex-FL4	• High Powered White Cree XP-E LED • ATEX Zone 0 compliant • Anti-explosive, safe around sparks • Safety release valve to release gases • Fastener prevents from opening in hazardous places • IP67 3m submersible and dust proof • Temperature code T4: +60°C to -20°C • Chemical and corrosion resistant • Industrial strength polycarbonate housing • Rubberised head for greater durability • Easy push button micro switch • Detachable pocket clip included • Rubberised handle for extra grip • Impact resistant to 1 metre • Beam Distance – 135 metres • Runtime – 6½ hours at 130 lumens, 27½ hours at 47 lumens	130	115g	47 x 174mm	4 x AA	**320633**

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High Visibility Torches (continued)

LED Lenser - High Visibility Torches

Item	Description	Lumens	Weight	Dimensions	Battery	JPL Code
HV-L2R	• White Seoul LED • Industrial strength copolymer housing • Beamaster lens • Silent switch operation • Side charging point • Easy screw end cap operation • Carry strap, battery & charger included • Impact Resistant to 1M • Water Resistant	140	650g	135mm x 225mm	1×4.8v 2000 mAh rechargeable battery	**320654**

Batteries

Description	Standard Quantity per Pack	JPL Code	Industrial Quantity per Pack	JPL Code
Type AAA (RO3A/ LR0) 1.5V	4	**320601**	10	**320610**
Type AA (HP7/ LR6) 1.5V	4	**320602**	10	**320611**
Type C (HP11/LR14) 1.5V	2	**320603**	10	**320612**
Type D (HP2/LR20) 1.5V	2	**320604**	10	**320613**
Type PP3 (6LR61) 9V	1	**320605**	10	**320614**
Type PJ996 spring top 6V	1	**320606**		

Hammers

Drop forged high carbon steel head - hardened and tempered for strength and durability. Black painted head with polished and lacquered striking faces, cheeks and pein. Natural straight grained hickory shaft, sanded and lacquered for protection

Engineers Hammer

Size	JPL Code
227g (8oz)	**510200**
454g (16oz)	**510202**
682g (24oz)	**510203**
908g (32oz)	**510204**

Drop forged high carbon steel head - hardened and tempered for strength and durability. Thick walled high strength steel shaft fitted with high visibility coloured grip. Black painted head and shaft with polished and lacquered striking face, bell and claw for protection

Lacquered Head All Steel Claw Hammer

Size	JPL Code
227g (8oz)	**510215**
454g (16oz)	**510212**
568g (20oz)	**510213**

Drop forged high carbon steel head - hardened and tempered for strength and durability. Strong fibreglass shaft strength and performance. Balanced weight design with energy saving claw geometry. Contoured anti-vibe shock absorbing grip system for comfort and control. Polished and lacquered for protection.

Anti Vibration Fibreglass Shaft Claw Hammer

Size	JPL Code
454g (16oz)	**510216**
568g (20oz)	**510217**

Hammers (continued)

Club Hammer

Size	JPL Code
1135g (2.1/2lb)	**510228**
1816g (4lb)	**510229**

Size	JPL Code
1361g (3lb)	**357005**

Both striking faces are precision ground, hardened and tempered for strength and durability. Natural straight grained hickory shaft, sanded and lacquered for protection.

Contoured anti-vibe shock absorbing grip system to protect against injury from transmitted shock. Polished and lacquered to protect against corrosion.

Rubber Mallet

Size	Colour	JPL Code
1135g (2.1/2lb)	Black	**510246**

One-piece rubber head with self-locking handle. The rubber head enables a gentle but firm blow with little rebound. Thor rubber mallets create a softer blow than metal mallets.

Nylon Hammer

Size	Roundhead Dia	Weight	Length	JPL Code
712	38mm (1 ½")	650g (1.1/2lb)	305mm (12")	**436010**
Replacement Inserts for 712				**510941**

Thor nylon hammer. Faces are replaceable.

Chisels

Bolster Chisel

Descriptions	JPL Code
55mm (2.1/4") Electricians Bolster Chisel	**510237**
55mm (2.1/4") Electricians Bolster Chisel with Rubber Grip	**510238**
75mm (3") Brick Bolster Chisel	**510247**
100mm (4") Brick Bolster Chisel	**510239**

Cold Chisel

Dimensions	JPL Code
150mm x 12mm (6" x 1/2")	**510230**
180mm x 16mm (7" x 5/8")	**510231**
200mm x 19mm (8" x 3/4")	**510232**
250mm x 19mm (10" x 3/4")	**510233**
250mm x 25mm (10" x 1")	**510234**
300mm x 25mm (12" x 1")	**510235**

Designed for cutting small section steel, can also be used on brick and concrete. Powder coated for corrosion protection.

Plugging Chisel

Dimensions	JPL Code
25mm x 250mm (1" x 10")	**510241**

Angled and fluted blade specifically designed for the fast and effective removal of mortar and cement from between bricks and block work. Powder coated for corrosion protection.

Pry Bars

Prybar & Nail Puller

Size	JPL Code
380mm (15")	**936277**

Specially contoured and notched for efficient nail pulling and prying. The sharp angle ground ends are designed to offer very effective chiselling or scraping edges.

Wrecking Bars

Wrecking Bar / Crow Bar

Size	JPL Code
455mm (18")	**938219**
610mm (24")	**938220**

Chisel end & goose neck end with nail pulling notch ideal for heavy duty levering and dismantling work.

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Saws

Hacksaws

Frame	Description	JPL Code
300mm (12") C.K Quick Change Comfort Grip Hacksaw Frame & Blade	Heavy duty premium quality hacksaw with rubber grips for comfort and control. Featuring: Quick release blade change mechanism for convenience. 45° and 90° blade positions. Spare blade storage in back frame for convenience. Complete with top quality cekaflex HSS Bi Metal 24tpi blade.	**510269**
300mm (12") C.K Heavy Duty Hacksaw Frame & Blade	Heavy duty hacksaw with aluminium handle and strong box section steel frame. Featuring: high leverage blade tensioning system with 45° and 90° blade positions. Spare blade storage in back of frame for convenience. Complete with top quality cekaflex HSS Bi Metal 24tpi blade.	**510274**
150mm (6") Junior Hacksaw Frame with 2 Blades	High quality tensioned steel frame junior hacksaw, epoxy coated for protection. Non protruding blade fixing for safety. Complete with two 32tpi high quality blades.	**510273**

General Wood Saw

Item	Description	JPL Code
560mm (22") Sabretooth First Fix Hand Saw – 7tpi	Triple edge, hard point precision ground teeth designed to offer an easy start and outstanding cutting performance on both the push and pull stroke.	**510271**

Plasterboard Saw

Item	Description	JPL Code
150mm (6") Plasterboard Saw	Induction hardened coarse ground cutting teeth and pointed blade - Designed for fast cutting of holes in plasterboard for sockets and conduits. (Also known as a dry wall saw).	**510278**

Padsaw

Item	Description	JPL Code
70-130R Padsaw	70-130R Padsaw for making cuts in confined spaces, ideal for cutting out holes such as letter boxes. Complete with two blades, one for wood and one for metal.	**510301**
71-230R Padsaw Blades 1 Wood / 1 Metal	71-230R Padsaw Blades 1 Wood / 1 Metal replacement Padsaw blades suitable for the Eclipse 70-130R Padsaw. Pack contains 2 blades, 1 suitable for wood, the other metal.	**510302**

Trimming Knives

CK Retractable Knives

Item	Description	JPL Code
Retractable Knife	Robust, die cast aluminium housing both strong and lightweight. Safety interlocking joint to prevent the blade slipping through the body joint. Magnetic blade retainer & captive body screw for quick & easy blade changes. Retractable blade for safe storage. String/wire cutting notch for convenience. Internal 5 blade storage compartment.	**510906**
Soft Grip Retractable Knife	Same as above but extra grip ensures more comfort and control	**510905**
Pack of 5 Type 92 Knife Blades	Suitable for all trimming knives	**510276**
Pack of 100 Type 92 Knife Blades	Suitable for all trimming knives	**510903**

Item	Description	JPL Code
Folding Utility Knife	Ergonomic, anodised aluminium handle, strong, lightweight & comfortable in use. Precision engineered, stainless steel blade holder reduces blade wobble during straight line cuts. Quick release, push button locking mechanism for single handed operation. Easy fit blade holder mechanism enables blade changes in less than 3 seconds. Thumb ledge for greater control and firmer cutting action.	**510909**

Starrett SO11 Hidden Edge Safety Knife

Description	JPL Code
The ultimate in safety knives, Starrett Hidden Edge knife keeps the blade safely tucked away when not in use, yet instantly available by simply releasing the safety lock and squeezing the lever to the knife body. The cutting depth is easily and accurately adjusted with a thumbwheel. With quick release blade change and storage for spare blades in the lever, blade changes are fast and tool free - there is no need to take the knife apart to change the blade.	**934911**

Pliers

Type	Item	Description	JPL Code
Combination Pliers	160mm (6") 180mm (7") 200mm (8")	Extra-long cutting edges. Induction hardened for use on hard wire, round and flat cable.	**934645** **934646** **934647**
Redline VDE Combination Pliers	180mm (7") 200mm (8")	VDE certified and individually tested to 10,000v for complete safety when working on live equipment up to 1000v. Ergonomic dual component handles offering the perfect balance of grip and comfort. Certified to VDE 0682/201:2005 01 & IEC 60900:2004. GS approved. DIN ISO 5746.	**934653** **510201**
Uninsulated Combination Pliers	160mm (6") 180mm (7") 200mm (8")	Drop forged chrome vanadium steel for strength and durability. Extra-long induction hardened and precision ground cutting edges for high cutting performance. Mat chrome plated for corrosion resistance. Ergonomic dual component handles offering the perfect balance of grip and comfort.	**510150** **510151** **510152**
Long Snipe Nose Pliers	140mm (5") 200mm (8")	Induction hardened and precision ground cutting edges for high cutting performance. Serrated inside jaws for secure gripping. Ergonomic dual component handles offering the perfect balance of grip and comfort.	**510153** **510154**
VDE Snipe Nose Pliers	175mm (6.1/2") 200mm (8")	VDE certified and individually tested to 10,000v. Induction hardened and precision ground cutting edges for high cutting performance. Serrated inside jaws for secure gripping. Ergonomic dual component handles offering the perfect balance of grip and comfort. Certified to VDE 0682/201:2005 01	**501204** **501203**
VDE Snipe Nose Pliers	200mm (8")	Bent Nose.	**501205**

Water Pump Pliers

Description	Size	Capacity	JPL Code
Boxed jointed construction give accuracy and long life. Slim head design for use in confined spaces. Shaped jaw grips well on smooth and irregular surfaces. 7 position adjustment, built in stop prevents finger nipping.	240mm (9.1/2")	(32mm/1.1/4" OD Max)	**510184**
	300mm (12")	(45mm/1.3/4" OD Max)	**510183**
11 Position Adjustment	400mm (16")	(110mm/4" OD Max)	**510193**

Riveting Pliers

Type	Description	JPL Code
Hand Riveting Plier	Colour coded interchangeable nose bushes for convenience (Nose spanner included). 3 jaw mechanism for increased grip and outstanding long term performance – 50% greater gripping strength than a standard 2 jaw riveter. Ergonomic anti-slip handles for increased comfort.	**426243**

Pincers

Size	Description	JPL Code
180mm (7")	Pincers to DIN 5241 T4108A 07 heavy duty drop forged high alloy steel construction to DIN ISO 9243 with induction hardened cutting edges offering efficient long term cutting performance. Specially profiled top cutting blades for cutting and gripping metal rod and wire. PVC coated handle for comfort and grip.	**510182**

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Side Cutters

VDE Side Cutter

Description	Size	JPL Code
VDE certified and individually tested to 10,000v. Ergonomic dual component handles offering the perfect balance of grip and comfort. Certified to VDE 0682/201:2005 01 & IEC 60900:2004. GS approved. DIN ISO 5749.	180mm (7")	**510210**

Uninsulated Side Cutter

Description	Size	JPL Code
Drop forged chrome vanadium steel for strength and durability. Induction hardened and precision ground cutting edges for high cutting performance. Mat chrome plated for corrosion resistance. Ergonomic dual component handles offering the perfect balance of grip and comfort. DIN ISO 5749	140mm (5.1/2")	**510160**
	160mm (6")	**510161**
	180mm (7")	**510162**

VDE Heavy Duty Side Cutter

Description	Size	JPL Code
VDE certified and individually tested to 10,000v. High leverage design with induction hardened and precision ground cutting edges for unsurpassed cutting performance. Ergonomic dual component handles offering the perfect balance of grip and comfort. Certified to VDE 0682/201:2005 01 & IEC 60900:2004. GS approved. DIN ISO 5749.	165mm (6.1/2")	**510236**
	200mm (8")	**510208**

VDE Combicutters

Description	Extra Features	Size	JPL Code
Wire stripping notches for effortless and damage free stripping of 1.5 and 2.5mm2 wire. Patress screw shear for damage free cutting of 3.5mm patress screws. VDE certified and individually tested to 10,000v. Ergonomic dual component handles offering the perfect balance of grip and comfort. Certified to VDE 0682/201:2005 01 & IEC 60900:2004. GS approved. DIN ISO 5749.	Wire bending anvil for quick damage free doubling back of copper wire.	160mm (6")	**510165**

Bolt Cutters

Description	Size	Diameter	JPL Code
Hot drop forged chrome vanadium steel jaws with induction hardened cutting edges for strength and durability. Ideal for cutting round material and hard wire up to 40HRC.	340mm (13")	5mm	**510170**
	400mm (16")	6mm	**510171**
	450mm (18")	7mm	**510172**
	600mm (24")	9mm	**510173**
	800mm (31")	11mm	**510174**
	900mm (35")	13mm	**510175**

Rod Cutters

Description	JPL Code
A threaded rod/studding cutter that produces a clean cut without damaging the threads allowing the threading of the nut without the need to deburr. The rod cutter is supplied with a cutter for M10 rod, other sizes are available to order separately.	**321105**
Replacement M6 Blade	**321106**
Replacement M8 Blade	**321108**
Replacement M10 Blade	**321110**

Pipe Cutters

Adjustable Pipe Cutter

Description	Item	Cutting Capacity	JPL Code
Monument adjustable pipe cutters suitable for cutting copper, brass, aluminium and polythene pipe. Supplied with spare cutting wheel.	264Y	3-22mm	**510407**
	266E	12-43mm	**510408**
	TC3	25-82mm	**510406**

Autocut Pipe Cutter

Description	Size	JPL Code
Monument Autocut Copper Pipe Cutter are ideal for cutting copper pipe in awkward places. These cutters will only cut the exact size of copper pipe and are not suitable for use on stainless steel.	15mm	**510402**
	22mm	**510404**
	28mm	**510410**

Cutter Spares

Description	JPL Code
Monument 269 Cutter Wheel For Auto Cut Pipe Cutter	**420036**
Monument 273A Cutter Wheel For Adjustable Pipe Cutter	**510403**

PVC Pipe Cutter

Description	Size	JPL Code
Glass fibre reinforced polycarbonate body - Strong & light. Razor sharp stainless steel blade for efficient cutting of: PVC conduit, blue water mains, plastic pipe, rubber hose, pneumatic pipe, electrical sleeving, etc.	28mm Capacity PVC	**420023**
Heavy duty aluminium body - Strong & light. Ratchet action razor sharp stainless steel blade for effortless cutting of; PVC conduit, blue water mains, plastic pipe, rubber hose, pneumatic pipe, electrical sleeving, etc. Complete with special adaptor for straight or mitre cutting of small rectangular cross-section trunking.	32mm Capacity Ratchet PVC	**420024**

Cable Cutters

VDE Cable Cutters

Description	Cutting Diameter	Size	JPL Code
VDE certified and individually tested to 10,000v for complete safety when working on live equipment up to 1000v. Shearing action cuts through cables cleanly and effortlessly. Ergonomic dual component handles offering the perfect balance of grip and comfort. Suitable for copper and aluminium wire only.	16mm	165mm	**510207**
	20mm	210mm	**510206**

Uninsulated Cable Cutters

Description	Cutting Diameter	Size	JPL Code
Drop forged high alloy steel construction with razor sharp, induction hardened cutting edges offering efficient long term cutting performance. The specially profiled blades are designed for stripping and cutting a wide range of cables including aluminium, copper and plastic sheathed.	11mm	210mm	**510179**
	13mm	240mm	**510186**

Ratchet Cable Cutters

Description	Cutting Diameter	Size	JPL Code
A compact heavy duty cutter with ratchet mechanism for effortlessly cutting cable. Featuring high quality chrome molybdenum profiled steel blade for easy cutting of hard drawn copper, aluminium cable or 200 pair communications cable. Full ratching cycle for easy use. Integral locking mechanism and anti-slip handles for safety. (Not for use on steel armoured cable)	32mm	190mm	**510180**

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Wire Strippers

VDE Wire Strippers

Description	Size	JPL Code
VDE certified and individually tested to 10,000v for complete safety when working on live equipment up to 1000v. Wire stripping notches for effortless and damage free stripping of 1.5 and 2.5mm 2 wire. Patress screw shear for damage free cutting of 3.5mm patress screws. Ergonomic dual component handles offering the perfect balance of grip and comfort.	160mm (6")	**510209**

Uninsulated Wire Strippers

Description	Size	JPL Code
C.K. Automatic Wire Stripper strips wire in a fraction of the time of traditional tools. Automatically adjusts to give damage free stripping of flat and round wires. Featuring hardened steel blades for a longer life the wire strippers are also equipped with a micro adjustment knob.		**510163**

Description	Size	JPL Code
Ceka Redline Wire Stripping Plier. Micro adjustment for damage free repeatable results. Spring assisted opening for convenience. Mat chrome plated for corrosion resistance. Ergonomic dual component handles offering the perfect balance of grip and comfort. DIN ISO 5232..	160mm (6")	**510155**

ArmourSlice SWA Wire Stripper

Description	JPL Code
C.K. ArmourSlice SWA Wire Stripper (12 - 36mm OD capacity) fast, clean, safe stripping of SWA cables - up to 50% quicker than conventional stripping methods. Robust metal alloy body for exceptional strength & durability. Wide stripping capacity of 12mm up to 36mm. High performance, long lasting hardened steel alloy cutting blade. Integrated spare blade holder for quick blade changes - supplied with 5 spare blades.	**510166**
Pack of 5 Armourslice SWA Cable Stripper Spare Blades	**510189**

Glass Cutter

Description	JPL Code
Professional quality for long life performance. 6 premium quality tungsten carbide blades in turret head. Oiled felt washer for constant lubrication. Heavy nickel plated head for corrosion protection. Contoured lacquered handle for comfort.	**510190**

Electricians Scissors

Description	JPL Code
Heavy duty design for shearing soft cables, insulation materials, tape, cable ties and many other materials. Micro serrated stainless steel blades, hollow ground for self-sharpening, superior cutting performance. Integrated cutting notch for effective cable & wire stripping. Belt pouch for convenient storage. 140mm length.	**492001**

Tin Snips

Description	Size	JPL Code
Compound action, high leverage design for easy cutting of steel, stainless steel, titanium etc. Forged chrome molybdenum steel jaws, hardened and tempered for long term cutting performance. Ergonomic grips with slip guards for safety.	250mm (10") for Right Hand Curves	**934679**
	250mm (10") for Straight Cuts	**510169**

VDE Dextro Screwdriver

VDE certified and individually tested to 10,000v. Features: Premium quality chrome molybdenum/vanadium steel blade, hardened and tempered for optimum performance. Ergonomically shaped dual component handle with long fine neck for precise fingertip control and ridges along the head for extra grip in the last quarter turn. Tip type marking on the end of the handle for easy identification.

Pozi Drive

Blade Length	Drive Size	JPL Code
60mm	No.0	**510140**
80mm	No.1	**510141**
100mm	No.2	**510142**
200mm	No.2	**510147**
150mm	No.3	**510143**

Philips Drive

Blade Length	Drive Size	JPL Code
60mm	No.0	**510136**
80mm	No.1	**510137**
100mm	No.2	**510138**
150mm	No.3	**510139**

Instrument Slotted (Parallel Tip)

Blade Length	Blade Width	JPL Code
75mm	2.5mm	**510130**
100mm	3.0mm	**934721**
100mm	3.5mm	**510127**
100mm	4.0mm	**510131**
125mm	5.5mm	**510132**
150mm	6.5mm	**510133**
175mm	8.0mm	**510134**
200mm	10.0mm	**510135**

VDE Screwdriver Sets

Item	Description	JPL Code
Set Of 6 VDE Slotted & Pozi Dextro Screwdrivers C.K	Contains slotted 2.5x 75, 4x100, 5.5x125, PZ1x80, PZ2x100, Mainstester.	**510148**
Set Of 8 VDE Slotted & Pozi Dextro Screwdrivers C.K	Contains slotted 2.5x 75, 4x100, 5.5x125, 6.5x150, PZ0x60, PZ1x80, PZ2x100, Mainstester.	**510149**

Uninsulated Dextro Screwdriver

Premium quality chrome molybdenum/ vanadium steel blade, hardened and tempered for optimum performance, satin chrome plated for corrosion resistance. Ergonomically shaped dual component handle with long fine neck for precise fingertip control and ridges along the head for extra grip in the last quarter turn. Colour coded handle with tip type marking on the end for easy identification.

Pozi Drive

Blade Length	Drive Size	JPL Code
60mm	No.0	**510120**
80mm	No.1	**510121**
100mm	No.2	**510122**
250mm	No.2	**510124**
150mm	No.3	**510123**

Philips Drive

Blade Length	Drive Size	JPL Code
60mm	No.0	**510116**
80mm	No.1	**510117**
100mm	No.2	**510118**
150mm	No.3	**510119**

Instrument Slotted (Parallel Tip)

Blade Length	Blade Width	JPL Code
75mm	3.0mm	**510110**
100mm	3.5mm	**510111**
125mm	4.0mm	**510112**
150mm	5.5mm	**510113**

Engineers Slotted (Flared Tip)

Blade Length	Blade Width	JPL Code
75mm	4.0mm	**510100**
100mm	5.5mm	**510101**
150mm	6.5mm	**510103**
200mm	10.0mm	**510105**

Uninsulated Screwdriver Sets

Item	Description	JPL Code
Set Of 5 Slotted & Pozi Dextro Screwdriver C.K	Contains slotted flared 4x75, 5.5x100, 6.5,150, PZ1x80, PZ2x100.	**510156**
Set Of 7 Slotted & Pozi Dextro Screwdriver C.K	Contains slotted flared 4x75, 5.5x100, 6.5x150, slotted parallel 3x75, PZ0x60, PZ1x80, PZ2x100.	**510129**

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One for Six Screwdriver

Size	Description	JPL Code
Non Insulated	Featuring a patented new tip design that allows precise and powerful contact with all six cross head sizes: Pozi 1, 2 & 3 and Phillips 1, 2 & 3.	431141

Insulated	As above except VDE tested to 1000v.	431142

Torque Screwdriver Set

Precision German engineering for reliability and long term performance. Micrometer type mechanism for quick & accurate torque setting range 1-5 - 40Nm adjustable in 0.1 Nm increments. Audible & physical feedback when the pre-set torque level is achieved. Ergonomic soft grip handle for exceptional comfort and control. Chrome plated, toughened steel alloy blades for increased strength & durability. Calibrated in Nm and supplied with a factory calibration certificate.

Contents	JPL Code
Torque screwdriver handle. Modulo screwdriver blades, sizes: 1 & 2	510108

Mains Tester

Non-Contact Item	Description	JPL Code
C.K Non Contact Voltage Detector (Visual Indicator 70-1000v AC)	Suitable for non-contact AC voltage tests, Bright red LED illumination on detection of AC voltage. Double insulated to ensure safe use near live circuitry. Ergonomic, dual component body construction with a handy pocket clip.	510168
C.K Non Contact Voltage Detector (Audible/Visual Indicator 70-1000v AC)	As above with additional audible alarm	510192

Jack Pennington ltd

Mechanical - Electrical - Fixings - Tooling - Site Services

OFF SITE SERVICE CENTRE

offsite@pennington.co.uk

Services

- **Cutting** - We now offer a range of pre-cut lengths of channel, ready for next day delivery. Channel, studding, conduit and cable tray are among products that can be pre-cut to any required length.
- **Kits** - We can provide a variety of components individually packed in kit form to your specification, ideal for jobs where there is a lot of repetition.
- **Modules** - 3D Module assembled to your specific requirements, with or without containment.
- **Space** - Make more efficient use of space on site by removing the need to have an area designated for cutting and assembly.
- **Waste** - Eradicate excess off cuts of channel and studs and reduce the amount of packaging to be disposed of, you only need to order what you require.
- **Quality Control and product consistency** - Increase the consistency in the quality of the bracket assemblies by having them assembled in a quality controlled environment where each bracket is thoroughly checked before despatch.
- **Identification** - Identification of our products is made easy, each product is labelled, either by size or with your own specific reference.
- **Health and safety** - Reduce the health and safety risks associated with cutting and having excess waste on site.
- **Cost** - Reduce costs by removing the need for hot work permits,cutting and labour time and by decreasing the amount of waste.

email: sales@pennington.co.uk

Impact Screwdriver Bits

Manufactured from specially formulated V8 steel alloy form extreme toughness, and featuring torsion control technology to withstand the stresses of high torque applications, C.K Blue Steel impact bits provide a vastly extended working life.

Pozi Bits

Item	25mm Bit JPL Code	50mm Bit JPL Code
No.1 Pozi1/4" Hex Bit	510571	510577
No.2 Pozi1/4" Hex Bit	510572	510578
No.3 Pozi1/4" Hex Bit	510573	

Philips Bits

Item	25mm Bit JPL Code	50mm Bit JPL Code
No.1 Phillips 1/4" Hex Bit	510561	
No.2 Phillips1/4" Hex Bit	510562	510565
No.3 Phillips1/4" Hex Bit	510563	

Slot Bits

Item	25mm Bit JPL Code
4.5mm 1/4" Hex Bit	510581
5.5mm 1/4" Hex Bit	510582
6.5mm 1/4" Hex Bit	510583

Torx Bits

Size	JPL Code
TX08 Torx 25mm Long Hex Bit	510040
TX10 Torx 25mm Long Hex Bit	510041
TX15 Torx 25mm Long Hex Bit	510042
TX20 Torx 25mm Long Hex Bit	510043

Size	JPL Code
TX25 Torx 25mm Long Hex Bit	510044
TX27 Torx 25mm Long Hex Bit	510045
TX30 Torx 25mm Long Hex Bit	510046
TX40 Torx 25mm Long Hex Bit	510047

Bit Sets

Item	Description	JPL Code
Set Of 6 Assorted Hex Bits (Pozi, Phillips & Slotted) & Holder	Set supplied in a convenient bit storage case complete with magnetic bit holder/driver adapter. Bit sizes: Slotted 5.5 & 6.5mm. Pozi 1 & 2. Philips 1 & 2.	510061
Tamperproof Torx Bit Set (8 Bits Per Set)	Set supplied in a convenient bit storage clip. Bit sizes: TX 8, 10, 15, 20, 25, 27, 30 & 40	934755
Tamperproof Hex Bit Set (8 Bits Per Set)	Set supplied in a convenient bit storage clip. Bit sizes: Hex 2, 2.5, 3, 4, 5, 5.5 & 7mm	934756
Set Of 32 Assorted Hex Bits C/W Bit Holder	Set of 32 Assorted Hex Bits c/w Bit Holder Contains convenient bit storage clips plus magnetic bit holder/driver adapter. Bit sizes: Slotted 3, 4, 4.5, 5, 5.5, 6, 7, 8 & 9mm. Philips 0, 1, 2, & 3. Pozi 1, 2 & 3. Torx 8, 10, 15, 20, 25, 27, 30 & 40, Hex 1.5, 2, 2.5, 3, 4, 5, 5.5 & 6mm	934751

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Bit Holders

Item	Description	JPL Code
60mm Long 1/4" Magnetic Hex Bit Holder	Stainless steel sleeve 1/4" Hex Bit Holder	**510081**
150mm Long 1/4" Magnetic Hex Bit Holder	Stainless steel sleeve 1/4" Hex Bit Holder	**934771**
Quick Lock 1/4" Hex Bit Holder Ceka	Locking screwdriver bit holder positively locks the bit in place. Collar release mechanism for quick and convenient bit changes. The collar is free spinning so that it can be help in use for extra control.	**510082**
SDS-Plus Magnetic Hex Bit Holder	SDS Plus 1/4" Hex Bit Holder	**934769**
Screwdriver Handle Flexible Shaft 1/4" Magnetic Hex Bit Holder Ceka		**510098**

Spanners

Combination Spanners

Heavy duty chrome plated for corrosion resistance. 12° offset bi-hex ring for access. Manufactured to DIN 3113.

Size	JPL Code
6mm	**467101**
7mm	**467102**
8mm	**467103**
9mm	**467104**
10mm	**467105**
11mm	**467106**
12mm	**467107**
13mm	**467108**
14mm	**467109**
15mm	**467110**
16mm	**467111**

Size	JPL Code
17mm	**467112**
18mm	**467113**
19mm	**467114**
20mm	**467115**
21mm	**467116**
22mm	**467117**
24mm	**467118**
27mm	**467119**
30mm	**467120**
32mm	**467121**

King Dick Ratchet Combination Spanner

The ring end features a 72 tooth of the point ratchet within slim forging for improved access.

Size	JPL Code
7mm	**467180**
8mm	**467181**
9mm	**467182**
10mm	**467183**
11mm	**467184**
12mm	**467185**
13mm	**467186**
14mm	**467187**
15mm	**467188**

Size	JPL Code
16mm	**467189**
17mm	**467190**
18mm	**467191**
19mm	**467192**
21mm	**467193**
22mm	**467194**
24mm	**467195**
27mm	**467197**

Spanner Sets

Item	Description	JPL Code
8mm-22mm	Set of 10 C.K. Combination Spanners 8mm to 19mm to DIN 3113 T4343M/10ST Supplied in a wall mounting rack for convenient storage. Sizes 8, 9, 10, 11, 12, 13, 14, 15, 17 & 19mm.	**467131**
8mm-19mm	Set of 12 C.K. Combination Spanners 8mm - 22mm T4343M/12ST Supplied in a wall mounting rack for convenient storage. Sizes 8, 9, 10, 11, 12, 13, 14, 15, 17, 19, 21 & 22mm.	**467130**

Wrenches

C.K Adjustable Wrench

Precision ground, fully polished jaws for secure nut engagement. Black phosphate finish for long term corrosion resistance. Extra wide jaw opening for access into tighter spaces.

Size	Jaw Capacity	JPL Code
150mm (6")	24mm	**467280**
200mm (8")	29mm	**467281**
250mm (10")	33mm	**467282**

Size	Jaw Capacity	JPL Code
300mm (12")	38mm	**467283**
350mm (15")	51mm	**467284**

C.K Stillson Pipe Wrench

Size	Jaw Capacity	JPL Code
300mm (12")	38mm	**467251**
350mm (14")	55mm	**467252**

Size	Jaw Capacity	JPL Code
450mm (18")	55mm	**467253**
600mm (24")	70mm	**467254**

Key Sets

Description	Metric	Imperial	JPL Code
7 Piece Folding Hex Key Set In Clip Holder	2.5 – 8mm		**064004**
10 Piece Ball-Ended Hex Key Set	1.5 – 10mm		**064043**
9 Piece Ball-Ended Hex Key Set		5/64-3/8"	**064044**

Bush/Wrench/Spanner

Item	Description	JPL Code
190mm (7.1/2") Conduit Bush Wrench	Innovative head design allows for all sizes of conduit bushes to be tightened/untightened even with cabling in place. Zinc phosphate coated, tough alloy steel for increased strength and durability. Soft grip, tri-lobe handle for exceptional comfort and control.	**469996**
M20 x M25 Bushking Electrical Spanner		**469997**

Utility Keys

Description	JPL Code
C.K. Universal Switch Key (to Suit Water Gas or Electric Cupboards). A multipurpose key designed for use on the locking systems of electrical, gas and water cupboards commonly found in industry and on technical equipment in buildings such as air conditioning, stop valves, mains consoles etc. The key is light and strong and comes complete with 6mm bit driver adapter and double ended screwdriver bit.	**510295**
C.K. Pen Type Universal Switch Key (Suit Water Gas or Elec. Cupboards). A multipurpose tool designed for use on the locking systems of electrical, gas and water cupboards in industry and on technical equipment in buildings such as air conditioning, stop valves, mains consoles etc. The compact design is light strong and convenient with an integral pocket clip. Comes complete with Modulo size 2 screwdriver bit to fit the 6mm drive magnetic bit holder and drive screws commonly found in electrical equipment.	**510296**

Square Drive Sockets

Ceka Socket Wrenches

1/2" Square Drive C.K. Reversible Teeth Ratchet. Heavy duty chrome vanadium construction. Tough reversible tooth ratchet mechanism. Push button socket release mechanism. Comfortable, wipe clean grip.

Item	JPL Code
1/2" Square Drive Reversible 24 Teeth Ratchet	**467220**
1/2" Square Drive Reversible 45 Teeth Ratchet	**467225**

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Square Drive Sockets (continued)

Ceka Socket Wrench Accessories

Item	Description	JPL Code
125mm (5") 1/2" Drive Long Extension	Heavy duty chrome vanadium construction.	**467224**
250mm (10") 1/2" Drive Long Extension	Heavy duty chrome vanadium construction.	**467223**
1/2" Drive 17" Flexible Handle	Heavy duty chrome vanadium construction. Pivoted drive for angled access in tight spaces. Dual component non slip grip	**467221**
1/2" Drive 250mm (10") Sliding T-Handle	Heavy duty chrome vanadium construction for superior strength & durability.	**934509**

Ceka ½" Square Drive Sockets

Non slip satin chrome plated for resistance to rust and peeling. Featuring the 'Sure-drive' system which applies torque to the flat of the nut rather than the corners to avoid rounding off.

Size	JPL Code	Size	JPL Code
10mm	**467201**	19mm	**467210**
11mm	**467202**	20mm	**467211**
12mm	**467203**	21mm	**467212**
13mm	**467204**	22mm	**467213**
14mm	**467205**	23mm	**467214**
15mm	**467206**	24mm	**467215**
16mm	**467207**	27mm	**467216**
17mm	**467208**	30mm	**467217**
18mm	**467209**	32mm	**467218**

Socket Sets

Item	Description	JPL Code
39 Piece 1/4" Drive	39 Piece 1/4" Drive Metric 'Suredrive' Socket Set Part No T4655 Strong steel storage case. Set contains: Sockets: 4, 4.5, 5, 5.5, 6, 7, 8, 9, 10, 11, 12, 13, 14mm. Socket Bits: Hexagon 3, 4, 5, 6mm. Tamper proof TX 8, 10 15, 20, 25, 27, 30, 40. PZD 1, 2, 3. Slotted 4, 5.5, 7mm. Accessories: 50mm extension, 50mm extension/driver. Universal joint. Adapter, Reversible 45 tooth quick release ratchet.	**467231**
23 Piece 3/8" Drive	23 Piece 3/8" Drive C.K. Metric 'SUREDRIVE' Socket Set T4656 Strong steel storage case. Set contains: Sockets: 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 24mm. Accessories: 75mm extension, 150mm extension, Universal joint. T-bar Adaptor, Reversible 45 tooth quick release ratchet.	**467232**
22 Piece 1/2" Drive	22 Piece 1/2" Drive C.K. Metric "SUREDRIVE" Socket Set T4657 Strong steel storage case. Set contains: Sockets: 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 22, 24, 27, 30, 32mm. Long sockets 16, 21mm. Accessories: 125mm extension. 250mm extension, Universal joint. T-bar Adaptor, Reversible 45 tooth quick release ratchet.	**467233**

Plastic Case Tape Measure

C.K Softech - Tough, soft feel ABS plastic bodies with full lock and pause button facilities plus a belt clip. The blade is abrasion resistant nylon coated for wear and corrosion resistance and features continuous metric/imperial graduations. Accurate to 73/362/EEC Class II the blade has 16" and 400mm joist centre markings. The hook is true zero for accurate external and internal measurements and is protected from fast recoil damage by an integral damper

Size	JPL Code
3m/10ft Metric/Imperial	**510001**
5m/16ft Metric/Imperial	**510003**
7.5m/25ft Metric/Imperial	**510004**

Measuring Tape Reels

Description	Item	JPL Code
Tough ABS case with a fold out winding handle and hand strap for convenient carrying, measurement and rapid rewind. Strong and stretch resistant glass fibre reinforced tape accurate to 73/362/EEC Class III. Double sided Metric/Imperial graduations. Fold out blade anchor hook.	30m/100ft Fibreglass Metric/Imperial	**510023**
Tough ABS case with an integral ground spike, fold out winding and rapid rewind. Strong and stretch resistant glass fibre reinforced tape accurate to 73/362/EEC Class III. Double sided metric/Imperial graduations. Fold out blade anchor hook.	Metric/Imperial Surveyors Tape	**510029**

Rules

Description	Item	JPL Code
Stainless steel for complete corrosion protection. Hanging hole for storage. Permanent indented markings on one side. Graduation - 0.5mm, 1mm upper edge, 1/64 1/32, 1/16 lower edge.	150mm/6" Metric/Imperia Stainless Steel Rule	**510031**
	300mm/12" Metric/Imperial Stainless Steel Rule	**510032**
Manufactured from wipe clean anodised aluminium with a strong plastic handle and hanging hole for storage. Metric graduations. Ideal for cutting, measuring and marking out.	1m Straight Edge Rule with Handle	**936255**

Laser Range Finder

Item	Description	JPL Code
Bosch GLM 80 Laser Range Finder & Inclinometer (0.05-80m Range)	• Storage of the last 20 measured values and one constant • Can be recharged via standard micro USB port • Timer function can be switched on/off – for precise measurement from difficult positions • High functionality due to integrated 360° incline sensor • Illuminated display screen which rotates depending on the orientation of the instrument • Up to 25,000 individual measurements per battery charge due to Li-Ion technology	**934451**
Bosch GLM 250 VF Laser Range Finder & Inclinometer (0.05-250m Range)	• The longest range finder avalible • Dust and splash protection • Multifunctional measuring pin for precise measurement from hard-to-reach areas and edges • Storage of the last 30 measurements • Integrated telescopic viewfinder and large glass lens for optimum visibility outdoors of the laser point up to a distance of 250m • Fast and accurate calculation of distances, areas and volumes	**934454**

GLM 80

GLM 250 VF

Boxes & Bags

Tool Boxes

Description	Length	JPL Code
Plastic Toolbox with parts storage in lid and removable tote tray	41cm (16 ½ ")	**510280**
	48cm (19")	**510281**
Cantilever 5 Tray Toolbox: These rigidly constructed 5-tray toolboxes have the advantage of displaying their contents when open, while being extremely compact when in the closed position. A tubular steel carry handle opens and closes the box as it is lifted and lowered. The lid of the closed box can be secured by a padlock (not supplied) for added security.	41cm (17")	**935021**
	48cm (19")	**510922**

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Tool Storage

Fabric Storage Bags

Item	Description	Size	Number of Pockets/Holders	JPL Code
Tool Bag	Durable reinforced polyester construction with extra wide opening mouth for easy access. 100% waterproof and crack proof polymer base. Padded handle and shoulder strap for maximum comfort. Long handles so can be carried open.	"Mini" 42(W) x 28(H) x 28(D) cm	19	**510286**
		"Maxi" 55(W) x 33(H) x 30(D) cm	22	**510287**
Tool Roll	Durable polyester construction. Bright red inner lining for easy visibility of stored items. Can be used as roll or for wall hanging. Padded handle.		30	**510285**
Tool Pouch	Ideal for Electricians. Fits onto belt, or can be carried separately with the handle. Swivel hammer loop keeps hammer vertical. Strong metal tape holder. Insulating tape 'T' holder. Durable polyester construction.		15	**936271**
Technician's Rucksack	Durable polyester construction. Bright red inner lining for easy visibility of stored items. Mobile phone holder. Internal and external document pockets and fold out panels for easy tool access.	38(W) x 42(H) x 25(D) cm	31	**936269**

Ladders

Fibreglass – Aluminium tread Step Ladders

Non conductive GRP glass fibre trade swingback step ladders, every electrician should have a set of. Ideal for short duration work, in a spark risk environment. The combination of super-strong C-section glass fibre stiles and reinforced aluminium treads gives you a durable yet lightweight and easy to handle step. Has a built in tool tray and large non-slip rubber feet. Max work load capacity 150kg.

Tread	Open Height	Closed Height	Weight	JPL Code
5 Tread	1.18m	1.30m	7.0kg	**414152**
6 Tread	1.42m	1.55m	8.0kg	**414153**
8 Tread	1.89m	2.05m	10.20kg	**414155**
10 Tread	2.36m	2.55m	12.50kg	**938513**

Fibreglass Platform Ladder

GRP glass fibre non conductive trade platform step ladders, that every electrician should have a set of. Ideal for short duration work, in a spark risk environment. The combination of super-strong C-section glass fibre stiles and reinforced aluminium treads gives you a durable yet lightweight and easy to handle step. Features a built in tool tray and large non-slip rubber feet. 150kg work load capacity.

Tread	Platform Height	Open Height	Closed Height	Weight	JPL Code
6 Tread	1.42m	2.03m	2.18m	10.0kg	**936088**
8 Tread	1.89m	2.49m	2.68m	13.0kg	**936089**

Ladders

Aluminium Step Ladders

Tread	Open Height	Closed Height	Weight	JPL Code
6 Tread	1.26m	1.40m	5.3kg	**414123**
8 Tread	1.71m	1.89m	7.1kg	**414124**
10 Tread	2.16m	2.39	8.8kg	**414125**
12 Tread	2.62m	2.87m	12.3kg	**414126**

Adjustable Ladders

The reinforced auto-locking hinge enables the user to configure the PAL as a workbench, A–frame step and extension ladder, splayed legs provide the ladder with extra stability. The tough black anodised armour finish protects the ladder against oxidisation—allowing clean hand usage—unlike most ladders.

Closed Height	Extend Height	Weight	JPL Code
1.0m	3.7m	13.0kg	**414191**
1.3m	4.8m	15.0kg	**414192**

Scaffold Tower & Platforms

Item	JPL Code
Horizon handy work platform 500mm Height, 405mm Width, 690mm Length.	**936074**
1.45m platform height. Tough scaffold tube components, removable anti-slip aluminium platform & steps, four lockable castors. Folds flat for transport. Weight 38kg.	**414132**

Ladder Clamp

Secure your ladders and steps safely to a roof or van rack. Locks your ladders down tight and protects against cross winds, theft and accidents. Simple to install – no tools needed and easy to change from vehicle to vehicle. Transport your ladders safely and will fit any roof or ladder rack.

Item	JPL Code
Roof rack ladder clamp (pack of 2)	**936090**

Builders Buckets

Description	Size	JPL Code
3 gallon plastic bucket	14 Litre	**429202**
Galvanised contractors bucket		**935764**
Gorilla Tub	14 Litre	**936139**
	26 Litre	**936140**
	42 Litre	**936141**
	75 Litre	**936142**

Shovel

Description	JPL Code
No. 2 square mouth T-handle shovel	**429206**

Chalk & Chalk Lines

Description	JPL Code
30m (100ft) chalk line held in a lightweight thermoplastic case with winding handle. supplied with 60g of chalk	**510260**
18m (60ft) hank of braided nylon chalk line. Extra strong and durable braided nylon construction.	**510264**
300g (11oz) cast iron plumb bob	**476256**
113gm (4oz) Blue chalk refill	**510261**
113gm (4oz) White chalk refill	**510263**
113gm (4oz) Red chalk refill	**510262**
Box french chalk sticks (36)	**510266**
School board chalk (144 Sticks)	**510265**

Wheelbarrow

Description	JPL Code
The general purpose barrow of the range. 85 litre capacity seamless pan with rolled edge. Heavy duty frame with angled supports. Robust construction. Black powder coated finish. 380 x 8 pneumatic tyred tubed wheel. Handle grips.	**429209**

Rope & Straps

Polypropylene Rope

Item	JPL Code
6mm x 220m Coil	**214892**
12mm x 220m Coil	**938484**

Ratchet Strap /Bungee Cords

Size	JPL Code
(Pack Of 5) 18"/45cm Bungee Cords	**214905**
(Pack Of 5) 24"/60cm Bungee Cords	**214906**
(Pack Of 5) 30"/75cm Bungee Cords	**214907**
(Pack Of 5) 36"/90cm Bungee Cords	**214908**

Tarpaulins

Description	Size	Colour	JPL Code
A strong reinforced lightweight tarpaulin made from UV stabilised rot proof Polyethylene. The grid is manufactured using HPDE which is encapsulated in LDPE, providing both flexibility and strength. The tarpaulin features 4 reinforcing strips with eyelets at 10cm intervals. Ideal for protection of timber, equipment and building materials.	5m x 4m	Green	**480312**
	6m x 4m	Green	**480313**
	8m x 4m	Green	**480314**
	10m x 4m	Green	**480315**

Paint Scrapers & Filling Knives

Size	JPL Code
40mm	**510290**
50mm	**510291**
70mm	**510292**
100mm	**510293**

Power Mixer

Nickel plated steel construction for strength & easy cleaning. Suitable for use with electric drills at speeds between 200 - 700 rpm.

Size	JPL Code
16.5"	**935077**
25"	**936530**

Wire Wool

Industrial quality steel wool for surface preparation, finishing, cleaning, preparing and maintaining wood and metal finishes.
Ideal for applying wax polishes and for use with paint strippers.

Grade	Weight	JPL Code
1-2 Medium	450g	**502290**

Protective Sheeting

A range of protective coverings to prevent dust, dirt and breakages.

Description	Size	JPL Code
Heavy Duty Polythene Sheet	4m x 25m (13' x 82')	**429304**
Cotton Twill Dust Sheet	3.5m x 2.6x (12' x 9')	**429310**
200 Gauge Heavy Duty Visqueen	4m x 25m (13' x 82')	**936010**
Bubble Wrap	1.2m x 100m	**429302**

Benders

Hilmor Conduit Benders

Description	JPL Code
EL25 with Vice & 20/25mm Formers	**525025**
EL32 with Vice & 20/25/32mm Formers	**525032**

Hilmor Conduit Bender Spares

Description	JPL Code
20mm Former	**563082**
25mm Former	**563084**
Centre Pin	**120422**
Grooved	**102010**
Multi-Purpose Plastic Pipe Cutter	**934922**
Terry Retaining Pins	**529827**
Roller Pins	**120465**
Tube Stop	**620103**
Spare Pipe Vice For Bending Machines	**400300**
Pipe Vice Jaws (With Screws)	**661053**

Handibender

Description	JPL Code
Hand Held Bender For 15-22mm Copper Tube	**563085**
15mm Guide For Handibender	**700040**
22mm Guide For Handibender	**700041**

Description	JPL Code
22mm	**337924**
15mm	**337923**

Bending Springs

Internal copper pipe bending spring

Vices & Clamps

Mechanics Vice

Description	Size	JPL Code
Record IRWIN Mechanics Vices are the most popular and widely used general purpose vice for light to medium-duty applications. The vice has high quality grey iron castings that resist distortion under severe pressure, with a smooth action provided by dovetailed, long barrelled, unbreakable nut and hardened steel replaceable jaw plates.	No.1 3" (75mm)	**433001**
	No.3 4" (100mm)	**433003**
	No.5 5" (125mm)	**433005**
	No.6 6" (150mm)	**433006**

G Clamps

Irwin Record Heavy-Duty 120 Series G Clamps are the strongest Record clamps, recommended particularly for metal working and fabrication work where a very high clamping force is demanded.
They have a drop-forged steel frame for strength and durability with a swivel shoe which helps clamping on uneven surfaces. The twin-start ACME cold rolled thread for faster operation and the fused steel handle will bend before the clamp can be overstressed.
A popular general purpose clamp for heavy-duty applications, for use in wood and metal working and other trades.

Description	JPL Code
3" (75mm)	**436003**
4" (100mm)	**436004**

Description	JPL Code
6" (150mm)	**436006**
8" (200mm)	**436008**

Vise Grips

Forged chrome vanadium jaws for strength & durability. Combination straight & curved jaws ideal for gripping round, flat & square profile. Epoxy coated for corrosion protection.

Description	JPL Code
180mm (7")	**467260**
250mm (10")	**467261**

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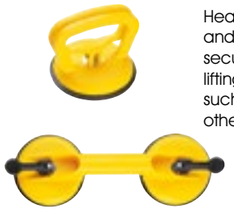
Vices & Clamps

Bar Clamps

Irwin bar clamps offer a quick change system which converts clamp to spreader in seconds. The clamp has a lockable swivel jaw feature which enables uneven surfaces to be clamped and protective pads for protecting the work surface. Clamping hold load of 135Kg

Size	JPL Code
6"	**436101**
12"	**436102**
18"	**436103**
24"	**436104**
36"	**436405**

Suction Lifter



Heavy duty shock resistant construction offering strength and durability. Suction cup made from natural rubber for a secure connection - designed to lift up to 30Kg. Ideal for lifting and positioning smooth non porous heavier items such as glass and metal sheet, Kitchen appliances and other awkward to hold objects.

Size	JPL Code
30kg Suction Lifter (Single Cup)	**510298**
60kg Suction Lifter (Double Cup)	**510294**

Files

Size	Cut	8" JPL Code	10" JPL Code	12" JPL Code
Hand	Smooth	**417047**	**417050**	**417053**
	2nd Cut	**417048**	**417051**	**417054**
	Bastard	**417049**	**417052**	**417055**
Half Round	Smooth	**417007**	**417010**	**417013**
	2nd Cut	**417008**	**417011**	**417014**
	Bastard	**417009**	**417012**	**417015**
Round	Smooth	**417067**	**417070**	**417073**
	2nd Cut	**417068**	**417071**	**417074**
	Bastard	**417069**	**417072**	**417075**
Square	Smooth	**417087**	**417090**	**417093**
	2nd Cut	**417088**	**417091**	**417094**
	Bastard	**417089**	**417092**	**417095**
Flat	Smooth	**417027**	**417030**	**417033**
	2nd Cut	**417028**	**417031**	**417034**
	Bastard	**417029**	**417032**	**417035**

File Handles

Size	Description	JPL Code
No. 1	Suitable for 6" – 8" files	**428001**
No. 2	Suitable for 8" – 10" files	**428002**
No. 3	Suitable for 12" – 14" files	**428003**

Punches

Description	JPL Code
Set of 6 Paralell Pin Punches 2, 2.5, 3, 4, 6mm	**936267**

email: sales@pennington.co.uk

Cutting & Drilling

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BOSCH SDS Plus 7 4 Flute Masonry Drill Bits

A SDS-plus hammer drill bit with a solid tungsten carbide head with four cutter geometry makes the Bosch Plus 7 the toughest hammer drill on the market. It provides a long life and consistent drilling performance into concrete and in particular reinforced concrete. A conical tip allows the bit to be accurately centred and the tungsten carbide head has an innovative wear indicator to ensure accurate borehole diameters.

Dia	Overall Length	Working Length	JPL Code
5.0mm	110mm	50mm	**416300**
5.0mm	160mm	100mm	**416301**
5.5mm	110mm	50mm	**416302**
5.5mm	160mm	100mm	**416303**
6.0mm	115mm	50mm	**416304**
6.0mm	165mm	100mm	**416305**
6.5mm	115mm	50mm	**416306**
6.5mm	165mm	100mm	**416307**

Dia	Overall Length	Working Length	JPL Code
7.0mm	115mm	50mm	**416308**
7.0mm	165mm	100mm	**416309**
8.0mm	115mm	50mm	**416310**
8.0mm	165mm	100mm	**416311**
10.0mm	165mm	100mm	**416314**
10.0mm	215mm	150mm	**416315**
12.0mm	165mm	100mm	**416317**
12.0mm	215mm	150mm	**416318**

BOSCH SDS Masonry Drill Bits

Standard masonry drill bits suitable for SDS-plus chucks.

Dia	Overall Length	Working Length	JPL Code
4.0mm	110mm	50mm	**935449**
5.0mm	110mm	50mm	**416201**
5.0mm	160mm	100mm	**416202**
5.5mm	110mm	50mm	**416203**
5.5mm	160mm	100mm	**416204**
6.0mm	110mm	50mm	**416205**
6.0mm	160mm	100mm	**416206**
6.0 mm	210mm	150mm	**416207**
6.5mm	110mm	50mm	**416210**
6.5mm	160mm	100mm	**416211**
6.5 mm	260mm	150mm	**935450**
7.0mm	110mm	50mm	**416212**
7.0mm	160mm	100mm	**416213**
7.0mm	210mm	150mm	**416214**
8.0mm	110mm	50mm	**416215**
8.0mm	160mm	100mm	**416216**
8.0mm	210mm	150mm	**416217**
8.0mm	260mm	200mm	**416218**
8.0mm	460mm	400mm	**416219**
10mm	110mm	50mm	**416221**
10mm	160mm	100mm	**416222**
10mm	210mm	150mm	**416223**
10mm	260mm	200mm	**416224**
10mm	310mm	250mm	**416225**
10mm	450mm	400mm	**416226**
10mm	615mm	550mm	**416227**
10mm	1000mm	950mm	**416228**
12mm	160mm	100mm	**416231**
12mm	210mm	150mm	**416232**
12mm	260mm	200mm	**416291**
12mm	315mm	250mm	**416233**
12mm	460mm	400mm	**416234**
12mm	600mm	550mm	**416235**
12mm	1000mm	950mm	**416237**

Dia	Overall Length	Working Length	JPL Code
14mm	160mm	100mm	**416241**
14mm	210mm	150mm	**416242**
14mm	260mm	200mm	**416243**
14mm	315mm	250mm	**416244**
14mm	460mm	400mm	**416245**
14mm	600mm	550mm	**416246**
14mm	1000mm	950mm	**416247**
15mm	160mm	100mm	**416248**
15mm	265mm	200mm	**416249**
16mm	210mm	150mm	**416252**
16mm	310mm	250mm	**416254**
16mm	460mm	400mm	**416255**
16mm	615mm	550mm	**416256**
16mm	1000mm	950mm	**416258**
18mm	200mm	150mm	**416260**
18mm	300mm	250mm	**416261**
18mm	450mm	400mm	**416262**
18mm	600mm	550mm	**416292**
18mm	1000mm	950mm	**416263**
20mm	200mm	150mm	**416267**
20mm	300mm	250mm	**416268**
20mm	450mm	400mm	**416269**
20mm	600mm	550mm	**416270**
20mm	1000mm	950mm	**416271**
22mm	250mm	200mm	**416272**
22mm	450mm	400mm	**416273**
22mm	1000mm	950mm	**416274**
25mm	250mm	200mm	**416277**
25mm	450mm	400mm	**416278**
25mm	600mm	550mm	**938613**
25mm	1000mm	950mm	**935448**
26mm	250mm	200mm	**416279**
26mm	450mm	400mm	**416280**
28mm	450mm	400mm	**936282**
30mm	450mm	400mm	**935445**

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Straight Shank Masonry Drill Bits

Suitable for drilling holes in masonry, limestone, natural and artificial stone. Can be used with all impact drills.

Dia	Overall Length	Working Length	JPL Code
4.0mm	75mm	40mm	**416003**
4.5mm	85mm	50mm	**416004**
5.0mm	85mm	50mm	**416005**
5.0mm	150mm	90mm	**416006**
5.5mm	85mm	50mm	**416008**
5.5mm	150mm	90mm	**416009**
6.0mm	100mm	60mm	**416010**
6.0mm	150mm	90mm	**416011**
6.5mm	100mm	60mm	**416015**
6.5mm	150mm	90mm	**416016**
7.0mm	100mm	60mm	**416021**

Dia	Overall Length	Working Length	JPL Code
7.0mm	150mm	90mm	**416022**
8.0mm	120mm	80mm	**416025**
8.0mm	150mm	90mm	**416026**
8.0mm	200mm	150mm	**416027**
10.0mm	120mm	80mm	**416041**
10.0mm	150mm	90mm	**416042**
10.0mm	200mm	150mm	**416043**
10.0mm	300mm	250mm	**416044**
12.0mm	150mm	90mm	**416051**
12.0mm	300mm	250mm	**416052**
12.0mm	400mm	350mm	**416053**

Diamond Dri Core

Diamond Dri Core Drills are designed for intensive dry cutting of brickwork and blockwork. Particularly suitable for plumbers, electricians and other installation engineers, the dri core drills are invaluable in the construction of flues, air vents and plumbing or electrical channels. Offering a faster rate of cut than TCT alternatives with less pressure required.
Diamond Dri Core bodies require the use of a pilot drill and SDS plus adaptor.

Diamond Dri Core Drill Body

Dia	Length	JPL Code
22.0mm	300mm	**534040**
28.0mm	300mm	**534041**
38.0mm	150mm	**534043**
42.0mm	150mm	**534061**
48.0mm	150mm	**534044**
52.0mm	150mm	**534045**
65.0mm	150mm	**534046**

Dia	Length	JPL Code
78.0mm	150mm	**534047**
102.0mm	150mm	**534062**
107.0mm	150mm	**534049**
117.0mm	150mm	**534050**
127.0mm	150mm	**534051**
152.0mm	150mm	**534052**

Dri Diamond Core Accessories

Description	JPL Code
SDS Plus to 1/2" BSP (M) Dri Diamond Core Drill Adaptor	**534053**
13mm x 200mm A Taper Pilot Drill to suit 22 - 28mm Dri Diamond Core Drill	**534057**
13mm x 350mm A Taper Pilot Drill to suit 38 - 152mm Dri Diamond Core Drill	**534056**
150mm Extension Rod for Dri Diamond Core Drill	**534054**
250mm Extension Rod for Dri Diamond Core Drill	**935486**

Diamond Dri Core Drill Kit

Core Drill Sizes	Arbours	Accessories	JPL Code
38mm, 52mm, 65mm, 117mm &127mm	BMA1, BMA2, BMA1240 & BMA2240	BMA3200 Pilot Drill & BMA5 Drift key	**935480**

TCT Tile/Glass Cutter

Diameter	Length	JPL Code
5.0mm	60mm	**559053**
6.0mm	60mm	**559054**
7.0mm	75mm	**559055**
8.0mm	75mm	**559056**
10.0mm	80mm	**559057**

Cross ground, spear shaped Tungsten Carbide Tipped drill bit designed for use with tile and glass.

Diamond Grit Tile Drill

Diameter	JPL Code
5.0mm	**559061**
6.0mm	**559062**
6.5mm	**559063**
8.0mm	**559064**
10.0mm	**559065**

Kit	JPL Code
Starrett Diamond Tile Bit Kit (5mm, 6mm, 6.5mm, 8mm, 10mm & 12mm)	**559068**

These small diameter diamond grit holesaws are ideal for cutting holes in glass and ceramic as well as brick and stone.

Alpen Jobber Drills

HSS universal twist drill, ideally suited for use in hand held drills, working on alloy and non-alloy steel. Din 338
The full range of sizes is available; please call if the size you require is not shown in the table.

Diameter mm	Box Quantity	JPL Code
1.00mm	10	**341301**
1.50mm	10	**341307**
2.00mm	10	**341313**
2.50mm	10	**341319**
3.00mm	10	**341325**
3.20mm	10	**341327**
3.30mm	10	**341329**
3.50mm	10	**341331**
4.00mm	10	**341337**
4.20mm	10	**341339**
4.50mm	10	**341343**
5.00mm	10	**341349**
5.20mm	10	**341351**
5.50mm	10	**341355**
6.00mm	10	**341361**
6.50mm	10	**341367**
6.80mm	10	**341370**

Diameter mm	Box Quantity	JPL Code
7.00mm	10	**341372**
7.50mm	10	**341378**
8.00mm	10	**341384**
8.50mm	10	**341390**
9.00mm	10	**341396**
9.50mm	10	**341402**
10.00mm	10	**341408**
10.50mm	5	**341410**
11.00mm	5	**341412**
11.50mm	5	**341414**
12.00mm	5	**341416**
12.50mm	5	**341418**
13.00mm	5	**341421**
13.50mm	5	**341422**
14.00mm	5	**341423**
15.00mm	5	**341425**

Reduced Shank HSS Drill

Diameter	Shank Diameter	JPL Code
13.0mm	9.5mm	**341501**
14.0mm	9.5mm	**341503**
15.0mm	9.5mm	**341505**
16.0mm	9.5mm	**341507**
17.0mm	9.5mm	**341509**
18.0mm	12.5mm	**341511**
19.0mm	12.5mm	**341513**
20.0mm	12.5mm	**341515**

HSS universal twist drill with a reduced diameter shank allowing large diameter drill bits to fit into standard chucks, ideally suited for use in hand held drills, working on alloy and non-alloy steel. Din 338.

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Cobalt Heavy Duty Drill

Ideal for drilling material with a high alloy content and stainless steel. The 5% cobalt content ensures the drill bit is much stronger and hard wearing than a standard HSS drill bit with higher heat resistance. Din 338

Diameter mm	Box Quantity	JPL Code
1.0mm	10	**936876**
1.5mm	10	**936877**
2.0mm	10	**935136**
2.5mm	10	**935137**
3.0mm	10	**935138**
3.2mm	10	**341550**
3.5mm	10	**935139**
4.0mm	10	**341551**
4.5mm	10	**935141**
5.0mm	10	**341552**
5.5mm	10	**936878**
6.0mm	10	**341553**
6.5mm	10	**935142**

Diameter mm	Box Quantity	JPL Code
7.0mm	10	**341554**
8.0mm	10	**341555**
8.5mm	10	**936879**
9.0mm	10	**341556**
9.5mm	10	**341560**
10.0mm	10	**341557**
10.5mm	5	**341558**
11.0mm	5	**936880**
11.5mm	5	**341561**
12.0mm	5	**341559**
12.5mm	5	**935143**
13.0mm	5	**935144**

Rethreading and Pipe Reamer Tools

CK Rethreading Tool
Rethreader to clean out fixing holes for switch & socket and conduit boxes.

Item	JPL Code
3.5mm Rethreading Tool	**342251**
4.0mm Rethreading Tool	**342252**

Handiburr Pipe Reamer
Pipe Reamer to deburr all types of tube and pipe. Particularly suitable for conduit tube and copper pipe and for the removal of tabs on 'Knockout' boxes.

Size Range	JPL Code
HB3 (10-34mm)	**935312**

Cone Cut Taper Drill

Designed for industrial applications, the diameter of the hole increases as the cone cut is driven into the material, providing the adaptability for a variety of sizes from one cone bit. For use in sheet steel, non-ferrous metals, wood and plastic.

Item	Diameter Range	JPL Code
No 1	3.5mm – 14mm	**342201**
No 2	6mm – 20mm	**342202**
CC25 (covers 20mm & 25mm conduit)	16mm – 25mm	**342206**
No 3	16mm – 30mm	**342204**
No 4	26mm – 40mm	**342205**

Multicut Conduit Step Drill

One HSS Multicut conduit step drill can produce a range of burr free holes in materials up to 3.5mm thick. Each step produces a parallel hole with a small clearance on the nominal diameter.
Specifically designed for conduit entry.
Always use a coolant when drilling metal.

Size of Holes	Max Material Thickness	Suitable Chuck Size	JPL Code
16, 20 & 25mm	3.5mm	10mm	**342210**
16, 20, 25 & 32mm	3.5mm	13mm	**342211**

Countersinks

Bosch countersinks with five 90° cutting edges suitable for non-ferrous metals, steel, wood and plastics

Diameter mm	Step Height	JPL Code
12.0mm	6mm	**242101**
16.0mm	8mm	**242102**
20.0mm	10mm	**242103**

Machine Taps – Metric Coarse

Taps are used to create a metric coarse thread in a variety of metals. A taper tap allows for the gradual forming of the thread, which is useful when dealing with tough material such as alloy steel or the hole is a small diameter and the tap is liable to break. Second taps have less of a taper and can be used to start and form the thread, these are the most popular type of tap. A plug tap has very little taper and is used to form the thread to the bottom of a blind hole. The hole will have previously been partially tapped with a taper or second tap. Always use a cutting lubricant when tapping. The sets include one each of taper, second and plug.
Please see 'HSS Jobber Drill' Section for corresponding drill bits.

Nominal Dia	Thread Pitch	Tapping Dril	Taper JPL Code	Second JPL Code	Plug JPL Code	Set JPL Code
M3	0.50mm	2.5mm	**362081**	**632082**	**362083**	**362084**
M3.5	0.60mm	2.9mm	**362091**	**362092**	**362093**	**362094**
M4	0.70mm	3.3mm	**362101**	**362102**	**362103**	**362104**
M5	0.80mm	4.2mm	**362121**	**362122**	**362123**	**362124**
M6	1.00mm	5.0mm	**362131**	**362132**	**362133**	**362134**
M8	1.25mm	6.8mm	**362151**	**362152**	**362153**	**362154**
M10	1.50mm	8.5mm	**362171**	**362172**	**362173**	**362174**
M12	1.75mm	10.2mm	**362191**	**362192**	**362193**	**362194**
M16	2.00mm	14.0mm	**362211**	**362212**	**362213**	**362214**
M20	2.50mm	17.5mm	**362231**	**362232**	**362233**	**362234**

Tap Accessories

Item	JPL Code
Bar Type Tapwrench for taps 2 - 6mm	**362601**
Bar Type Tapwrench for taps 3 - 12mm	**362602**

Conduit Taps & Dies

Item		Size	JPL Code
M20/25 Conduit Stock-Die Set: Contains a Die-Stock, Conduit Guides and Dies.		M20/M25	**393001**
Double Handed Die-stock		M20/M25	**393011**
		M32/M40	**393012**
Conduit Circular Die		M20	**393021**
		M25	**393022**
		M32	**393023**
Conduit Guide		M20	**393031**
		M25	**393032**
		M32	**393037**
HSGT Tap Conduit	Taper	M20 x 1.5	**362521**
	Second	M20 x 1.5	**362522**
	Plug	M20 x 1.5	**362523**
	Taper	M25 x 1.5	**362531**
	Second	M25 x 1.5	**362532**

Screw Extractor

Item	JPL Code
5 Piece Screw Extractor Set Size 1 To 5.	**107053**

Used to remove a bolt or screw when head is missing or damaged. Drill appropriate size hole into damaged fastener, insert the screw extractor with a tap wrench, turning it anticlockwise until the fastener is removed. Use a penetrating oil to help with the removal. The set allows the removing of fasteners with 3-18mm diameters.

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Flat Wood Bits

For drilling into softwood, hardwood, chipboard and beams.
Length:152mm Hexagonal Shank: ¼"

Metric	Imperial	JPL Code
6mm	1/4"	**559001**
8mm	5/16"	**559002**
10mm	3/8"	**559003**
13mm	1/2"	**559004**
16mm	5/8"	**559006**
20mm	3/4"	**559008**

Metric	Imperial	JPL Code
22mm	7/8"	**559009**
25mm	1"	**559010**
28mm	1.1/8"	**559011**
32mm	1.1/4"	**559012**
35mm	1.3/8"	**935496**
38mm	1.1/2"	**559013**

Self Cut Flat Wood Bit

These self cut flat bits differ from conventional flat bits as they have a self-cutting threaded point to draw them into the work, combine this with the 2 cutting spurs they will cut very cleanly at a good feed rate. The tip and cutting edges are precision-ground for dimensionally correct bore holes. They all have a 1/4" hexagonal shank as per DIN 3126-E6.3. Suitable for boring holes in hard and soft woods as well as light building materials. The correct drill speed must be selected and this is stated on the packet.

Metric	Imperial	Length	JPL Code
6mm	1/4"	152mm	**559071**
		400mm	**559031**
8mm	5/16"	152mm	**559072**
		400mm	**559032**
10mm	3/8"	152mm	**559073**
		400mm	**559033**
13mm	1/2"	152mm	**559074**
		400mm	**559034**
16mm	5/8"	152mm	**559076**
		400mm	**559036**

Metric	Imperial	Length	JPL Code
20mm	3/4"	152mm	**559078**
		400mm	**559038**
22mm	7/8"	152mm	**559079**
		400mm	**559039**
25mm	1"	152mm	**559080**
		400mm	**559040**
30mm	1.3/16"	152mm	**935495**
		400mm	**559041**
32mm	1.1/4"	152mm	**559082**
		400mm	**559042**

Auger Wood Bits

Bosch Auger Wood Bits are suitable for drilling into all soft and hard woods, including wet wood. Provides a fast drilling speed and fine surface finish.
The hexagonal shank fits all drills with 13mm chuck.
Working Length: 160mm

Diameter	JPL Code
6.0mm	**559020**
8.0mm	**559021**
10.0mm	**559022**
11.0mm	**559023**
13.0mm	**559024**
16.0mm	**559025**
20.0mm	**559026**
22.0mm	**559027**
25.0mm	**559028**
32.0mm	**559029**

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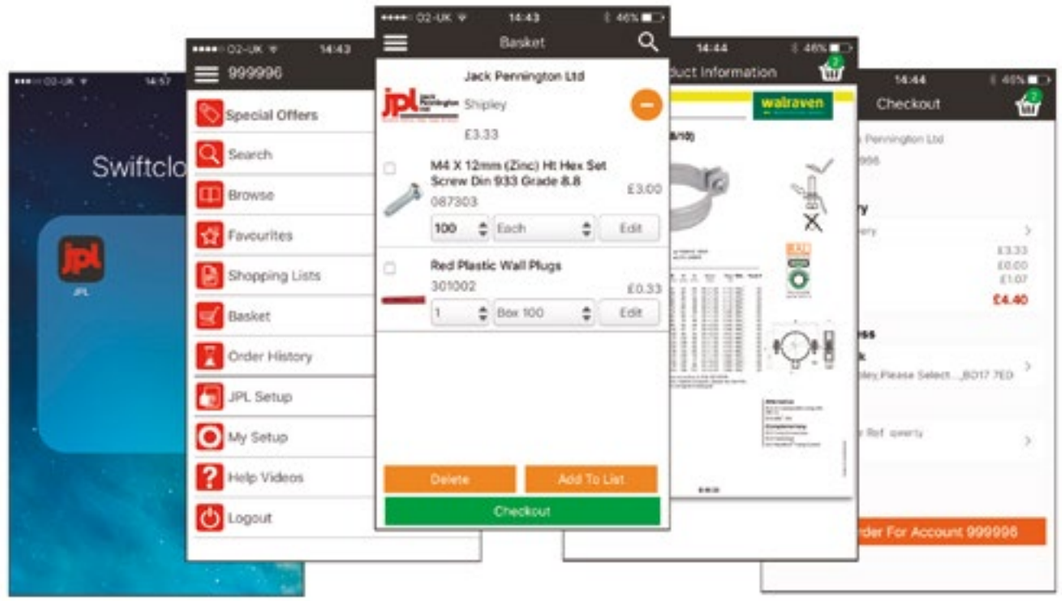

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Starrett Fast Cut Hole Saws

Starrett Fast Cut Bi Metal Hole Saws combines a new tooth material, with enhanced heat and wear resistance, and a new tooth design, 5.5TPI providing a smoother, faster cut on a wide range of materials when compared against the old constant pitch saw. Specifically suited to cutting stainless and mild steel sheet, the fast cut will also cut through tubes with a wall thickness of up to 3mm (1/8"). Hole saws have a cutting depth of 41mm.

Metric	Imperial	Arbor Size	JPL Code
14mm	9/16"	A1	**421001**
16mm	5/8"	A1	**421002**
17mm	11/16"	A1	**421003**
19mm	3/4"	A1	**421004**
20mm	25/32"	A1	**421005**
21mm	13/16"	A1	**421006**
22mm	7/8"	A1	**421007**
24mm	15/16"	A1	**421008**
25mm	1"	A1	**421009**
27mm	1.1/16"	A1	**421010**
29mm	1.1/8"	A1	**421011**
30mm	1.3/16"	A1	**421012**
32mm	1.1/4"	A2	**421013**
33mm	1.5/16"	A2	**421014**
35mm	1.3/8"	A2	**421015**
37mm	1.7/8"	A2	**421016**
38mm	1.1/2"	A2	**421017**
40mm	1.9/16"	A2	**421018**
41mm	1.5/8"	A2	**421019**
43mm	1.11/16"	A2	**421020**
44mm	1.3/4"	A2	**421021**
46mm	1.13/16"	A2	**421022**
48mm	1.7/8"	A2	**421023**
51mm	2"	A2	**421024**
52mm	2.1/16"	A2	**421025**
54mm	2.1/8"	A2	**421026**
56mm	2.3/16"	A2	**421027**
57mm	2.1/4"	A2	**421028**

Metric	Imperial	Arbor Size	JPL Code
59mm	2.1/4"	A2	**421029**
60mm	2.5/16"	A2	**421030**
64mm	2.3/8"	A2	**421031**
65mm	2.1/2"	A2	**421032**
67mm	2.9/16"	A2	**421033**
68mm	2.5/8"	A2	**421034**
70mm	2.11/16"	A2	**421035**
73mm	2.3/4"	A2	**421036**
76mm	2.7/8"	A2	**421037**
79mm	3"	A2	**421038**
83mm	3.1/8"	A2	**421039**
86mm	3.1/4"	A2	**421040**
89mm	3.3/8"	A2	**421041**
92mm	3.1/2"	A2	**421042**
95mm	3.5/8"	A2	**421043**
98mm	3.3/4"	A2	**421044**
102mm	4"	A2	**421045**
108mm	4.1/4"	A2	**421047**
111mm	4.3/8"	A2	**421048**
114mm	4.1/2"	A2	**421049**
121mm	4.3/4"	A2	**421050**
127mm	5"	A2	**421051**
140mm	5.1/2"	A2	**421052**
152mm	6"	A2	**421053**
*160mm	6.1/2"	A2E	**421054**
*168mm	6.5/8"	A2E	**935564**
*177mm	7"	A2E	**421055**
*210mm	8.9/32"	A2E	**421056**

*Denotes Deep Cut Bi Metal- Increased hole saw depth of 51mm (2")

Starrett Standard Arbors

A4 A1 A1-1 A10 Quick Hitch A2 Quick Hitch A2-1

To select the correct arbor, match the hole saw size and chuck size/type, as long as the arbor is the same or smaller than your chuck size it's okay. Each arbor is supplied with a 1/4" pilot drill, spare pilot drills are available. Quick Hitch arbors allow the quick change of hole saws without removing the arbor from the chuck.

Man. Code	Fits Holesaw	Fits Chuck	JPL Code
A4	14-30mm	6.5mm	**421104**
A1	14-30mm	9.5mm	**421101**
A1-1	14-30mm	SDS+	**421107**
A10 Quick Hitch	32-152mm	9.5mm	**421106**
A2 Quick Hitch	32-210mm	13mm	**421102**
A2-1	32-152mm	SDS+	**421108**

Starrett Cordless Smooth Cutting Hole Saw

Complete hole saw assembly including arbour, pilot drill, and ejector spring, specifically for cordless power tools. Heat resistant high speed steel edge, with alloy backing and constant pitch of 8 TPI suitable for stainless and mild sheet steel, plasterboard, wood and thin non-metallics. Safety stop at the base of the hole saw prevents saw travel beyond the hole saw depth of 13mm. Recommeded cutting depth 2mm

Metric	Imperial	JPL Code
16mm	5/8"	**421261**
19mm	3/4"	**421262**
20mm	25/32"	**421263**
22mm	7/8"	**421264**
25mm	1"	**421465**
27mm	1. 1/16"	**421266**
29mm	1. 1/8"	**421267**

Metric	Imperial	JPL Code
30mm	1. 3/16"	**421268**
32mm	1. 1/4"	**421269**
35mm	1. 3/8"	**421270**
38mm	1. 1/2"	**421271**
40mm	1. 9/16"	**421272**
51mm	2"	**421273**

Starrett Diamond Hole Saws

Starrett Diamond hole saws are designed for the toughest of cutting situations. A diamond coated cutting edge allows rapid cutting through glass, ceramics, brick and stone. The tough steel body provides the necessary clearance for cutting at high speeds, cutting to a depth of 41mm. The diamond hole saws are supported by a range of arbors with carbide tipped pilot drills.

Metric	Imperial	Arbour Size	JPL Code
14mm	9/16"	XA1	**559090**
16mm	5/8"	XA1	**559091**
17mm	11/16"	XA1	**559092**
19mm	3/4"	XA1	**559093**
20mm	25/32"	XA1	**559094**
21mm	13/16"	XA1	**559095**
22mm	7/8"	XA1	**559096**
24mm	15/16"	XA1	**559097**
25mm	1"	XA1	**559098**
27mm	1.1/16"	XA1	**559099**
29mm	1.1/8"	XA1	**559100**
30mm	1.3/16"	XA1	**559101**
32mm	1.1/4"	XA2	**559102**
33mm	1.5/16"	XA2	**559103**
35mm	1.3/8"	XA2	**559104**
37mm	1.7/8"	XA2	**559105**
38mm	1.1/2"	XA2	**559106**
40mm	1.9/16"	XA2	**559107**
41mm	1.5/8"	XA2	**559108**
43mm	1.11/16"	XA2	**559109**
44mm	1.3/4"	XA2	**559110**
46mm	1.13/16"	XA2	**559111**
48mm	1.7/8"	XA2	**559112**
51mm	2"	XA2	**559113**
52mm	2.1/16"	XA2	**559114**
54mm	2.1/8"	XA2	**559115**
56mm	2.3/16"	XA2	**559116**

Metric	Imperial	Arbour Size	JPL Code
57mm	2.1/4"	XA2	**559117**
59mm	2.1/4"	XA2	**559118**
60mm	2.5/16"	XA2	**559119**
64mm	2.3/8"	XA2	**559120**
65mm	2.1/2"	XA2	**559121**
67mm	2.9/16"	XA2	**559122**
68mm	2.5/8"	XA2	**559123**
70mm	2.11/16"	XA2	**559124**
73mm	2.3/4"	XA2	**559125**
76mm	2.7/8"	XA2	**559126**
79mm	3"	XA2	**559127**
83mm	3.1/8"	XA2	**559128**
86mm	3.1/4"	XA2	**559129**
89mm	3.3/8"	XA2	**559130**
92mm	3.1/2"	XA2	**559131**
95mm	3.5/8"	XA2	**559132**
98mm	3.3/4"	XA2	**559133**
102mm	4"	XA2	**559134**
105mm	4.1/8"	XA2	**559135**
108mm	4.1/4"	XA2	**559136**
111mm	4.3/8"	XA2	**559137**
114mm	4.1/2"	XA2	**559138**
121mm	4.3/4"	XA2	**559139**
127mm	5"	XA2	**559140**
140mm	5.1/2"	XA2	**559141**
152mm	6"	XA2	**559142**

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Bosch Jigsaw Blades - Bayonet Fitting Packs of 5

Basic jigsaw blade for straight cuts in very thin metal plate (0.5-1.5mm). For material less than 1mm, saw with a thin wooden board as support.

Ref No	Material	Length	JPL Code
T118G	Metal	92mm	**507005**

Jigsaw blade for straight cuts in thin metal plate (1-3mm).
Our most popular jigsaw blade!

Ref No	Material	Length	JPL Code
T118A	Metal	92mm	**507006**

For straight cuts in medium/thick sheet metal (2.5-6mm), including aluminium.

Ref No	Material	Length	JPL Code
T118B	Metal	92mm	**507007**

Progressor jigsaw blade for thin to thick metals (1.5-10mm) and pipes and profiles Ø < 30mm

Ref No	Material	Length	JPL Code
T123XF	Metal	100mm	**507010**

Jigsaw blade for pipes and profiles Ø < 65mm, including aluminium and thin sheet metal (1-3mm).

Ref No	Material	Length	JPL Code
T318A	Metal	132mm	**507016**

For precise angle cuts, suitable for pipes and profiles Ø < 65mm, including aluminium and medium/thick sheet metal (2.5-6mm).

Ref No	Material	Length	JPL Code
T318B	Metal	132mm	**507017**

Basic jigsaw blade for curve cuts in thin sheet metal (1-3mm)

Ref No	Material	Length	JPL Code
T218A	Metal	92mm	**507012**

Specifically for aluminium sheet (3-15mm) and pipe and profiles Ø < 30mm.

Ref No	Material	Length	JPL Code
T127D	Aluminium	100mm	**507011**

Specifically for curved cuts in aluminium sheet (3-15mm) and pipe and profiles Ø < 30mm.

Ref No	Material	Length	JPL Code
T227D	Aluminium	100mm	**507013**

Jigsaw blades specifically for stainless steel sheet (inox) 1.5-3mm thick. Pack of 3.

Ref No	Material	Length	JPL Code
T118AHM	Stainless Steel	83mm	**935613**

Progressor jigsaw blade for wood/metal, ideal for construction timber with nails (< 65mm), wooden materials, plastics, sheet metal, pipes/profiles including aluminium (3-10mm)

Ref No	Material	Length	JPL Code
T345XF	Wood/Metal	132mm	**507018**

Basic jigsaw blade for straight cuts in wood, suitable for softwood, plywood, chipboards, wood core plywood and fibre boards, cutting thickness 2-15mm.

Ref No	Material	Length	JPL Code
T119B	Wood	92mm	**507009**

Clean cut jigsaw blade for wood, suitable for softwood (3-30mm), plywood, chipboards, wood core plywood and fibre boards. Also use with plastic/epoxy up to 30mm.

Ref No	Material	Length	JPL Code
T101B	Wood	100mm	**507000**

Clean cut jigsaw blade for wood, suitable for softwood (10-45mm), plywood, chipboards, wood core plywood and fibre boards.

Ref No	Material	Length	JPL Code
T101D	Wood	100mm	**507001**

Progressor jigsaw blade for wood, suitable for thick softwood (3-65mm), plywood, chipboards, wood core plywood and fibre boards.

Ref No	Material	Length	JPL Code
T234X	Wood	117mm	**507014**

Basic jigsaw blade for fast cuts in wood, suitable for softwood (4-50mm), plywood, chipboards, wood core plywood and fibre boards.

Ref No	Material	Length	JPL Code
T111C	Wood	100mm	**507002**

Jigsaw blade for very quick cuts in wood, suitable for softwood (5-50mm), plywood, chipboards, wood core plywood and fibre boards.

Ref No	Material	Length	JPL Code
T144D	Wood	100mm	**507003**

Jigsaw blade for very quick, curved cuts in wood, suitable for softwood (5-50mm), plywood, chipboards, wood core plywood and fibre boards.

Ref No	Material	Length	JPL Code
T244D	Wood	100mm	**507015**

Jigsaw blade specifically for acrylic, suitable for Perspex and Polycarbonate (2-20mm).

Ref No	Material	Length	JPL Code
T101A	Acrylic	100mm	**507008**

Junior Hacksaw Blades

Size	JPL Code
6"/150mm (Pack of 10)	**418500**

Top quality general purpose metal cutting blades with pinned end to fit standard junior hacksaw frame.

Starrett 12" Hacksaw Blades

Bi Metal

TPI	JPL Code
18	**418004**
24	**418005**
32	**418006**

Bi Metal hacksaw blades are excellent for interrupted cuts in cramped places or where the hacksaw blade is subject to bending or twisting stresses.

All Hard

TPI	JPL Code
18	**418104**
24	**418105**
32	**418106**

All hard hacksaw blades are ideal when the hacksaw blade is not subject to bending and twisting stresses. Uniformly hardened blade holds the edge when cutting hard-to-machine alloys, maintaining the straightness of the cut.

Circular Saw Blades

Size	Teeth	Cutting Material	JPL Code
355mm 14"	90	Stainless Steel	**502507**
355mm 14"	66	Mild Steel	**502505**

Evolution blades are designed for the Evolution EVO355 Raptor dry cut saw, but can also be fitted to other brands.

Bosch Reciprocating (Sabre) Saw Blades – Packs of 5

Suitable for thin sheet metal 0- 7.3mm. Blade 150 x 19 x 0.9mm.

Ref No	Material	JPL Code
S922AF	Metal	**507021**

Suitable for thin to thick sheet metal 1 – 8mm. Blade 150 x 19 x 0.9mm.

Ref No	Material	JPL Code
S123XF	Metal	**507028**

Suitable for thin sheet metal 1.5 – 4mm. Blade 150 x 19 x 0.9mm.

Ref No	Material	JPL Code
S922EF	Metal	**507023**

Suitable for thick sheet metal 3 – 8mm. Blade 150 x 19 x 0.9mm.

Ref No	Material	JPL Code
S922BF	Metal	**507022**

Suitable for sheet metal 3 – 8mm thick, pipes and profiles 10 – 175mm. Blades 225 x 19 x 0.9mm.

Ref No	Material	JPL Code
S1122BF	Metal	**507026**

Suitable for wood with nails/metal <100mm. Blade 150 x 19 x 0.9mm.

Ref No	Material	JPL Code
S922HF	Wood/Metal	**507024**

Suitable for wood with nails/metal <175mm. Blade 225 x 19 x 0.9mm.

Ref No	Material	JPL Code
S1122HF	Wood/Metal	**507027**

Suitable for construction timber <100mm. Blade 150 x 19 x 0.9mm.

Ref No	Material	JPL Code
S644D	Wood	**507025**

Suitable for coarse wood, free of nails. <190mm. Blade 240 x 19 x 0.9mm.

Ref No	Material	JPL Code
S1531L	Wood	**507029**

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Flat Cutting Discs

Metal

Straight cut cutting disc for metal. General purpose, suitable for cutting of steel and construction materials.

Angle Grinder – Flat

Size Inch	Size	JPL Code
4” x 1/8	100 x 2.8 x 16.0mm	**502101**
4.1/2” x 1/8	115 x 2.5 x 22.2mm	**502102**
5” x 1/8	125 x 2.5 x 22.2mm	**502103**
7” x 1/8	180 x 3.0 x 22.2mm	**502104**
9” x 1/8	230 x 3.0 x 22.2mm	**502105**

Petrol Saw – Flat

Size Inch	Size	JPL Code
12”	300 x 3.5 x 20.0mm	**502108**
12”	300 x 3.5 x 22.2mm	**502106**

Chop Saw – Flat

Size Inch	Size	JPL Code
14”	335 x 3.1 x 25.4mm	**502125**

Stone

Flat cutting wheel for stone, concrete, grey cast iron and plastic.

Size Inch	Size mm	JPL Code
4” x 1/8	100 x 2.8 x 16.0mm	**502151**
4.1/2” x 1/8	115 x 2.5 x 22.2mm	**502152**
5” x 1/8	125 x 2.5 x 22.2mm	**502153**
7” x 1/8	180 x 3.0 x 22.2mm	**502154**

Stainless Steel

(Inox) Iron free cut off wheels for stainless steel, these extra thin wheels are suitable for cutting thin plate and thin pipe.

Size Inch	Size	JPL Code
4”	100 x 1.6 x 16.0mm	**502501**
4.1/2”	115 x 1.0 x 22.2mm	**502502**
5”	125 x 1.0 x 22.2mm	**502508**
9”	230 x 1.9 x 22.2mm	**502503**
14”	355 x 3.0 x 25.4mm	**502504**

Metal Grinding Disc

Bosch depressed centre, cutting disc for metal. General purpose, suitable for grinding of steel and construction materials. Disc thickness: 6mm

Size Inch	Dia	Bore Dia	JPL Code
4” x 3/16	100mm	16mm	**502002**
4.1/2” x 1/4	115mm	22.2mm	**502006**
5” x 1/4	125mm	22.2mm	**502008**
7” x 1/4	180mm	22.2mm	**502011**
9” x 1/4	230mm	22.2mm	**502014**

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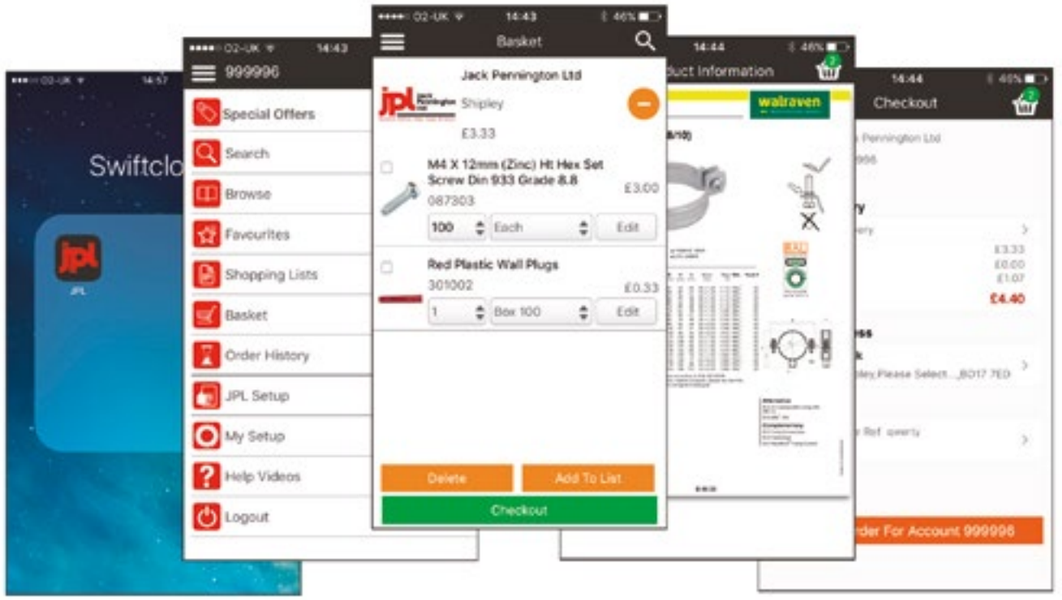

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General Purpose Silicone

A high modulus silicone sealant that adheres to most smooth and non-porous materials. Contains an anti-fungal compound to prevent mould growth in areas of high humidity. Forms a permanently flexible rubber seal.

Colour	Size	Box Qty	JPL Code
White	310ml	25	**519001**
Clear	310ml	25	**519002**
Brown	310ml	25	**519003**
Black	310ml	25	**519004**
Grey	310ml	25	**519005**

225 Industrial & Glazing Silicone

A high modulus acetoxy cure silicone sealant that adheres to most smooth and non-porous subtrates. Typically used for single glazing, draught-proofing and general industrial use.

Colour	Size	Box Qty	JPL Code
White	310ml	25	**519011**
Clear	310ml	25	**519012**
Black	310ml	25	**519014**

335 Construction Silicone

A low modulus reactive cure silicone sealant specially formulated as a cost-effective PVCu sealant, which also adheres to many common building substrates.
Tested to ISO 8339 and ISO 10590/10563.

Colour	Size	Box Qty	JPL Code
White	310ml	25	**519021**
Clear	310ml	25	**519022**
Brown	310ml	25	**519023**
Black	310ml	25	**519024**
Bronze	310ml	25	**519025**
Grey	310ml	25	**519026**

450 Builders Silicone

A premium quality low modulus non-corrosive neutral cure silicone sealant that adheres to virtually all substrates. Typically used for construction expansion joints and perimeter pointing of all types of door and window frames.
Conforms to ISO 11600 class: F 25LM.

Colour	Size	Box Qty	JPL Code
White	310ml	25	**519031**
Clear	310ml	25	**519032**
Brown	310ml	25	**519033**
Black	310ml	25	**519034**
Grey	310ml	25	**519036**

500 Bath & Sanitary Silicone

A premium quality high modulus acetoxy cure silicone sealant that contains a high level of powerful anti-fungal compound to prevent mould and fungal growth. Typically used in areas of high humidity, such as bathrooms, toilets, showers and kitchens in both commercial and domestic applications.
Tested to ISO 8339 and ISO 10590/10563.

Colour	Size	Box Qty	JPL Code
White	310ml	25	**519041**
Clear	310ml	25	**519042**
Ivory	310ml	25	**519048**

565 Clean Room Silicone

An advanced neutral curing hygienic sealant that combines SteriTouch®, a powerful Anti-Bacterial compound with FDA Approved Food Compatibility. Prevents the formation of most common germs on its surface including E-Coli, MRSA, Salmonella, Listeria and Staphylococcus and stops Black Mould Growth. 565 Clean Room Silicone offers outstanding adhesion to most substrates including plastics, ceramics and metal.

Colour	Size	Box Qty	JPL Code
White	310ml	25	**938493**

Weather Mate Sealant

A multi-use sealant based on an advanced isocrylic formula that provides the ultimate in sealant technology for adhesion to all surfaces. The product can be applied in wet weather, to wet surfaces and even under water. Adheres to many problematic surfaces such as bitumen, lead, galvanised steel and roofing felts.

Colour	Size	Box Qty	JPL Code
White	310ml	25	**519101**
Clear	310ml	25	**519102**
Black	310ml	25	**519104**

Aqua Mate Sealant

A high modulus acetic cure 100% silicone sealant and adhesive designed specifically for aquarium manufacture. 100% fish safe formula. Conforms fully to ISO 11600 G Class 20 LM.

Colour	Size	Box Qty	JPL Code
Clear	310ml	12	**519140**

Heat Mate Sealant

A high modulus permanently flexible 100% silicone which is temperature resistant up to 300°C. Ideal for sealing industrial and high performance gaskets, oven doors etc.

Colour	Size	Box Qty	JPL Code
Red	310ml	12	**519064**

Fire Mate Sealant

An intumescent acrylic sealant that swells when exposed to temperatures in excess of 125°C to prevent the passage of fire and smoke and has a fire rating of up to 4 hours in certain joint configurations. Fire rated to BS 476 Part 20/EN1366-4 (2006). Acoustic rates to BS EN ISO 140/3. Tested for air permeability to EN13141-1.

Colour	Size	Box Qty	JPL Code
White	310ml	25	**519111**

Galva Mate Duct Sealant

A high performance solvent free adhesive and sealant specifically designed for sealing high velocity duct work in heating and ventilation systems.

Colour	Size	Box Qty	JPL Code
Grey	310ml	25	**519112**

Lead Mate Sealant

Specially formulated as an alternative to mortaring lead flashing and sheet into brick, stone and concrete, providing a fully waterproof joint that will not crack or shrink.

Colour	Size	Box Qty	JPL Code
Grey	310ml	25	**519099**

Roof and Gutter Sealant

A premium quality butyl based sealant and adhesive that provides instant, permanent weather-proofing to a wide variety of roofing applications. Adheres to most common roofing materials such as bitumen, asphalt, felt, metals and wood.

Colour	Size	Box Qty	JPL Code
Black	310ml	25	**519094**

Puraflex 40 Polyurethane Sealant and Adhesive

A premium quality high modulus, PU hybrid sealant and adhesive that provides exceptional resistance to mechanical wear. Typically used in the engineering, caravan and marine industries and for sealing floor joints in ceramic installations that are subject to high traffic. Has excellent chemical resistance, can be over painted.

Colour	Size	Box Qty	JPL Code
Black	310ml	25	**935997**
Grey	310ml	25	**935998**
White	310ml	25	**935999**

Silicone Eater

A revolutionary new chemical that removes all types of silicone sealant by digesting and breaking up the sealant. Silicone Eater is harmless to most surrounding surfaces and can be used to remove sealant from baths, kitchen worktops, basins, showers, door and window frames.

Size	Size	Box Qty	JPL Code
150ml	150ml	12	**519115**

115 GP Building Mastic

A traditional oil based pointing mastic that provides an effective weatherproof seal. Typically used to seal composite sectional panels and low movement vertical building joints.

Colour	Size	Box Qty	JPL Code
Brown	310ml	25	**519093**
Grey	310ml	25	**519096**
Stone	310ml	25	**519097**
White	310ml	25	**519091**

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Expanding Foam

Type	Description	Size	JPL Code
Fire Foam B1	Firefoam B1 Gun Grade is a quick-setting fire rated, one part polyurethane foam. It expands on application to yield up to 50 times the can contents and meets the extremely stringent requirements of the text criteria DIN 4102 Part 1 for Construction Materials, Class B1 and BS 476 Part 20. Fire rated up to 4 hours in certain joint configurations. Once cured the foam can be cut, sawn or plastered over after only one hour.	750ml	**519163**
Everbuild Fix & Fill Expanding Foam	Fix & Fill Expanding Foam is a quick setting polyurethane based foam which expands greatly on application and yields up to 50 times original can contents. Can be cut, sawn, plastered and sealed over after approximately one hour. Fills irregular gaps, fixes framework, insulates and sound deadens.Gloves are included in the cap.	500ml 750ml	**519160** **519161**
Dual Purpose Foam Cleaner	Dual Purpose Foam Cleaner is used to remove wet/uncured foam. Attaches to Gun Foam Applicator for purging through; also includes spray nozzle for use without applicator to remove wet foam from outside of the gun and from most building substrates.	500ml	**519167**
Gun Grade Expanding Foam	Gun Grade Expanding Foam is a quick setting polyurethane based foam which expands greatly on application and yields up to 50 times original can contents. Can be cut, sawn, plastered and sealed over after approximately one hour. Fills irregular gaps, fixes framework, insulates and sound deadens. Designed for professional use in conjunction with Gun Foam Applicators.	750ml	**519162**

Decorators Filler

Type	Description	Size	JPL Code
125 One	125 One Hour Caulk is a fast drying flexible decorator's filler and sealant that remains permanently flexible. Can be overpainted with most paint types or covered over with wallpaper; no sanding down required.	310ml	**519081**
One Strike	A revolutionary filler formulated using lightweight polymer bubbles that fills most holes and cracks, even deep holes, in just one quick application with no need for secondary filling to level off as One Strike will not shrink, sag or crack. One Strike Filler finishes smooth, requiring little or no sanding and can be ready to paint in approximately 30 minutes.	250ml 450ml 1 litre	**519082** **519083** **519084**

Sealant and Foam Applicators

Description	Size	Box Qty	JPL Code
Professional Sealant Gun Sturdy skeleton gun with hexagonal rod and re-enforced ring and hook end.	C3 (310ml) C4 (310ml-400ml)	12 12	**519152** **519153**

P45 Medium Duty Foam Applicator
P45 Foam Gun gives the user more control to apply the foam precisely in hard to reach places, saving unnecessary wastage. For both professional and DIY use.

1 **519165**

P65 Heavy duty Foam Applicator
P65 Foam Gun gives the user more control to apply the foam precisely in hard to reach places, saving unnecessary wastage. For professional use.

1 **519164**

Galvafroid Anti Corrosion Paint

Size	Box Qty	JPL Code
400ml	6	**476002**
800ml	4	**476003**
1.9L	1	**476004**
Thinner (500ml)	8	**476005**

Galvafroid is a zinc rich compound, formulated as an easily applied, cold galvanizing protection against corrosion on structural steelwork and all ferrous metals. Can be used as a self-finish or as a durable rust inhibiting primer. It is suitable for the protection of structural steelwork, agricultural and construction plant and machinery, gates, railings, iron pipework and guttering, and the rust prevention of in-situ welding work.

Cold Galvanising Spray Paint

Size	Box Qty	JPL Code
500ml	15	**476130**

ZG-90 cold zinc galvanising spray is intended as a repair coating for newly galvanized metal that requires repair or recoating to match the original finish. ZG-90 can be used as an undercoat or a topcoat. Drying time is 3 minutes for touch dry and 20 hours for hard dry (based on 20°C). ZG90 is shower proof in 5 minutes.

Black Bitumen Paint

Size	Box Qty	JPL Code
1L	12	**476105**
2.5L	6	**476106**

A solvent based, full bodied black bituminous paint. When dry, the product forms an odourless and taint free black film suitable for metal protection, and over coating wood and felt.

Primer Paint

Description	Size	Box Qty	JPL Code
RX-90 Red Oxide Primer Spray Paint RX-90 Red oxide Anti rust primer spray is for use on clean bare metal or lightly rusted metal. RX-90 can be over coated on most popular paints. RX-90 red oxide anti rust primer spray is tough and durable for commercial and industrial settings. To obtain the best anti-rust performance the surfaces to be primed must be in sound condition, clean, and free from oil or grease. If the surface has been previously painted, remove all loose or flakey paint with a wire brush to obtain a smooth clean surface. RX-90 is a fast drying formula.	500ml	15	**476112**
Red Oxide Primer Paint Special anti-corrosion formula. Stops rust on iron and steel. Red Oxide can be used directly over rusty surfaces. The special anti-corrosive formulation guards against rust. Ideal for exterior use - can also be used on interior iron and steel. Provides a smooth, protective basecoat. Can be over coated with most conventional topcoats. (2-4 Hours drying time)	2.5L 5L	1 1	**476110** **476111**

Line Marking Spray

Colour	Size	Box Qty	JPL Code
Blue	750ml	12	**476201**
Green	750ml	12	**476202**
Red	750ml	12	**476203**
Yellow	750ml	12	**476204**
White	750ml	12	**476205**

A spray applied marking paint for contractors/surveyors spot marking. Colour coded for electric, gas, water and cable company use. Fast drying and durable line marking spray is designed for internal and external use.

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White Spirit

White spirit is a solvent designed for thinning paints and varnishes, cleaning brushes and general degreasing and cleaning.
Conforms to BS245.

Size	JPL Code
750ml	**476122**
2 Litre	**476121**

Paint Brushes

Draper Paint Brushes
Pure bristle paint brushes with square cut ends held in stainless steel ferrule. Painted hardwood handle.

Size	JPL Code
12mm (1/2")	**429011**
19mm (3/4")	**429012**
25mm (1")	**429013**
38mm (1 1/2")	**429014**
50mm (2")	**429015**
63mm (2 1/2")	**429016**
75mm (3")	**429017**
100mm (4")	**429018**

Economy Paint Brushes
A basic paint brush for jobs where the brush is not needed to be reused.

Size	JPL Code
20mm	**429001**
30mm	**429002**
40mm	**429003**
50mm	**429004**
70mm	**429005**
100mm	**429007**

Flashband Self Adhesive Tape

Instant waterproof seal, even in damp conditions. Quick and easy to apply, no specialist tools required. 4 layers of protection, lacquer, foil, membrane and bitumen adhesive. Superior heat resistance from 10 °C to 100 °C. Easily moulds to contours. Long lasting protection, at least 15 years. Can be used for flashing, repairs, guttering, downpipes, glazing bars and capping. Special grey finish.

Size	JPL Code
50mm x 10m	**333949**
100mm x 10m	**936037**

Anti-Corrosion Wrapping Tape

Protects water and gas pipes, cables, mechanical joints, valves, metal surfaces and tensioning bars against corrosion. Effective for long term sealing & protection.

Size	JPL Code
50mm x 10m	**333942**
100mm x 10m	**333943**

Ducting Tape

Industrial grade all-purpose cloth tape. Easy to tear with top quality adhesive, tough, durable and waterproof. Economical option with loose packed rolls without individual film wrap.

Colour	Size	Box Qty	JPL Code
Black	50mm x 50m	24	**339451**
Silver Grey	50mm x 50m	24	**339450**

Self Amalgamating Tape

A very useful derivative of insulating tape which can be used for waterproofing connections. To use, the top protective layer is peeled off and the rubbery self- amalgamating tape underneath is wrapped tightly around the connection to be waterproofed. Eventually, the layers of this tape will merge together and create a waterproof seal.

Size	JPL Code
19mm x 10m	**333920**
25mm x 10m	**333922**
50mm x 10m	**333923**

Masking Tape

Size	Box Qty	JPL Code
25mm x 50m	48	**333901**
50mm x 50m	32	**333902**
75mm x 50m	24	**333903**

Masking tape is a type of pressure sensitive tape made of a thin and easy-to-tear paper, and an easily released pressure sensitive adhesive. It is available in a variety of widths.

Packing Tape

Colour	Size	Box Qty	JPL Code
Brown Vinyl	48mm x 50m	2	**333910**
Clear Vinyl	48mm x 50m	2	**333911**

2" wide twin pack packaging tape

PTFE Threadseal Tape

Size	JPL Code
12mm x 12m	**333905**

For all common gases & liquids.
Satisfies BG C IM/16, BS6974:

Silweld Self Fusing Repair Tape

Colour	JPL Code
Black	**333961**
Blue	**333964**
Red	**333963**
White	**333962**

Can be used to repair almost anything from an emergency repair of a water hose or air pipe to insulating electrical wires or connections. It creates an air tight, watertight seal without the need for any adhesive and it even works under water. Silweld is an excellent electrical insulator up to 8,000 volts, and can withstand temperatures from -65 to 260°C and pressure to 700psi. Silweld is also resistant to petrol, oils, acids, solvents, salt water and UV rays. Available in 3m Rolls

Superglue Adhesive

Size	JPL Code
3g	**519095**

Everbuild STICK 2 All Purpose Super Glue
Stick 2 all purpose superglue tube bonds non-pours surfaces such as plastics, metals, PVCu, rubber, ceramics etc. 1 minute instant bond.

Size	JPL Code
5g	**519177**

Loctite Precision Super Glue liquid
High performance bonding suitable for use with leather, cork, paper, cardboard, wood, chipboard, fabric, metal, ceramic, rubber and hard plastics and PVC. Dries clear and sets without clamping, resistant to moisture, most chemicals and low temperatures

Grab Adhesive

Size	Box Qty	JPL Code
310m	25	**519150**

Gun A Nail Multi-purpose Adhesive
A high strength, gap filling multi-purpose building adhesive based on a tackified solvent free system for use in a wide variety of building and home improvement applications. Gun A Nail can be used where at least one of the substrates to be bonded is porous.

Size	Box Qty	JPL Code
310ml	25	**519151**

Gun A Nail Extra Strength Multi-Purpose Adhesive
A high strength, gap filling adhesive providing extra bond strength and a quick cure in external applications. Gun A Nail Extra is also ideal for bonding two non-porous materials together.

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Grab Adhesive

Pink Grip Direct Bond Adhesive
Pinkgrip will stick just about anything on a building site that needs sticking. It's amazing grabbing strength not only removes the need to pin under the work piece to prevent slumping, but its revolutionary initial 'Direct Bond' eliminates the need for double stick methods. Pinkgrip can be used internally and externally and adheres to just about every building substrate.

Size	Box Qty	JPL Code
350ml	25	**519188**

STIXALL Adhesive
STIXALL Extreme Power is the ultimate combined building adhesive and sealant, based on hybrid polymer technology, with the most extreme power to both bond and seal virtually EVERYTHING to ANYTHING in virtually all conditions, even under water or in the rain! STIXALL Extreme Power offers almost limitless benefits as an adhesive and a sealant removing the previous application barriers associated with conventional products.

Colour	Size	Box Qty	JPL Code
White	300ml	25	**519190**
Clear	300ml	25	**519191**

Wood Adhesive

502 All Purpose Weatherproof Wood Adhesive is a high quality, resin based wood adhesive for all wood bonding. It can be used internally and externally and provides a high strength, impact resistant bond that is usually stronger than the wood itself. Ideal for all general woodworking and joinery uses, furniture assembly and household DIY use. Dries clear. Fast cure, initial set in just 10 minutes.

Size	Box Qty	JPL Code
500ml	20	**517173**
1L	12	**517171**
5L	4	**517172**

Contact Adhesive

A premium grade rubber based contact adhesive suitable for professional and DIY use. May be used internally and externally for bonding decorative laminates, all types of wood, rigid PVC, ABS, leather, cork, linoleum, rubber, stone, metals and dense fabrics. All tins are fully printed. Available singularly or in box quantities

Size	Box Qty	JPL Code
750ml	12	**476210**
5L	4	**936015**

Araldite Epoxy Resin

Araldite® Rapid 24ml syringe is a strong, long lasting solvent-free adhesive which gives both prompt positioning of parts, up to 4 minutes, with permanent full bond strength in 3 hours. It is water resistant and can be painted or sanded. Bonds metal, wood, masonry, ceramics, glass, dry concrete, chipboard, leather, cardboard, fabric, rubber and most plastics (except polyethylene, polypropylene, Teflon®). The 2-component epoxy with fast setting. Parts repositionable for 4 minutes. High temperature resistance (-30° C to 65° C). Oil, chemical and impact resistant.

Size	JPL Code
24ml	**519178**

Thread Locker

243 Loctite Thread locker
Works on all metals, including passive substrates (e.g. stainless steel, aluminium, plated surfaces). Proven to tolerate slight contaminations of industrial oils, e.g. engine oils, corrosion prevention oils and cutting fluids. Prevents loosening on vibrating parts, e.g. pumps, gear boxes or presses. Permits disassembly with hand tools for servicing.

Size	JPL Code
10ml	**519183**
50ml	**519184**

Pipe Seal

Size	JPL Code
150gm	**519187**

Loctite 55 Pipe Sealing Cord
A general purpose, threaded pipe and fitting sealant which is wound from the dispensing package onto the threads of the pipe. It is supplied in containers, which serve for both storage and dispensing purposes. Recommended for sealing metal and plastic tapered pipe threads and fittings up to 4" NPT (National Pipe Thread) for use in industrial applications in aqueous and non-aqueous fluids. Particularly suitable in threaded assembly applications that require immediate use and may undergo small readjustments before use. This product is typically used in applications up to 149 °C.

Size	JPL Code
50ml	**519176**
250ml	**936026**

577 Loctite Fast Cure Medium Strength Pipe Seal
LOCTITE 577 is designed for the locking and sealing of metal threaded pipes and fittings. Particularly suitable for use on stainless steel without the need for surface activation. The product cures when confined in the absence of air between close fitting metal surfaces and prevents loosening and leakage from shock and vibration.

Aerosol Penetrating Oil

Size	JPL Code
500ml	**476324**

The AC-90 Aerosol can be used for multiple jobs around the home, garage or workshop. It cleans grease and grime as well as dissolving adhesives, allowing the easy removal of labels and stickers. The spray is used to protect metal surfaces against moisture and other corrosive elements and lubricate all moving parts. It can also be used to penetrate rusted or frozen metal parts for easier removal. AC-90 can also be used on electrical systems by displacing moisture to eliminate moisture-induced short circuits.

Cable Pulling Lubricants

Size	JPL Code
950ml	**476321**

Yellow 7 Wire Pulling Lubricant
Wax-based formula provides superior lubricity. Safe to use with most cable types except low-density polyethylene and semi-conducting jackets. Won't break down or separate after repeated exposure to freezing temperatures. Dries to a thin, non-conductive film that won't clog conduit. Clings to cable throughout long pulls. Easy to apply by hand or with pump. Creamy texture applies easily and uniformly. Homogeneous blend requires no mixing. Won't dry out, surface coat forms to control evaporation.

Size	JPL Code
950ml	**476320**

31 -378 Aquagel 2 Cable pulling Lubricant
Superior lubricity at low temperatures. Safe to use on all cable types. Cleans up easily with soap and water. Dries to a semi-fluid film that aids in future pulls. Clings to cable throughout long pulls. Environmentally safe -- non-toxic, non-flammable and non-corrosive. Well-suited for hand or pouring applications. For outdoor use only.

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Grease

CEKA 6270 High Pressure Grease Gun
Heavy duty construction grease gun with pressure head. Multiple loading: cartridge, grease gun filler or bulk. Supplied complete with angled delivery tube and 4 jaw hydraulic coupler.

	JPL Code
	478100

Rocol Sapphire 2 General Purpose Grease
The ultimate multi-purpose grease. Excels in high speed applications such as electric motors and fan bearings. Outstanding EP performance. Fortified with PTFE. Designed for high load, high speed and rapid start-stop applications. Good corrosion resistance.
Temperature range of –30°C to +160°C

Size	JPL Code
400g	**476326**

Molykote 44 M Silicone Grease 100g Tube
Suitable for a wide range of uses on high temperature bearings. Typical applications include bearings in; oven fans, textile dryers, conveyors, kiln pre-heaters etc. Superior low-temperature characteristics. Compatible with most plastics, Silicone oil and lithium soap.
NLGI class 2 - 3.
Temperature range -40°C to +200°C

Size	JPL Code
100g	**476304**

Rocol Anti - Seize Compound

A copper based anti-seize compound to prevent seizure and galling of all threaded and static fasteners. Temperature range -10° C to +1,100° C. Lubricates, protects and eases dismantling. Effective even in the most aggressive environments. Insoluble in water. Ideal for furnaces, exhaust systems, dockside and oil rig applications.

Size	JPL Code
480g	**478005**

Cutting Compound

Action Can CT-90 Cutting Compound
Easily applied paste. It contains a colloidal lubricant for hand tool applications including tapping, reaming, drilling and hacksawing. CT-90 is particularly suitable for threading conduit. It also prolongs the life of the tool. CT-90 ensures a smooth, clean cut edge and eases cutting operation.

Size	JPL Code
500ml	**478001**
2.5L	**478002**

Rems Spezial Cutting Oil Spray 140105 (600ml aerosol can) High performance, high - alloyed, mineral oil based thread cutting oil. Suitable for all materials including steel, stainless steel, non-ferrous metals, plastic. Can be flushed out with water. Specially developed for threading and cutting, high lubricating and cooling effects are essential for clean threads and prolonged tool and machine life. CFC free. Ozone harmless.

Size	JPL Code
600ml	**476330**

Rocol RTD
RTD is a viscous high performance metal cutting lubricant. Containing extreme pressure additives, RTD clings to the tool and work piece reducing friction and prolonging tool life. RTD promotes superior work piece surface finish. RTD gives the ultimate cutting performance on all ferrous and non-ferrous metals even in the most severe metal removal operations. RTD is suitable for automatic applications on CNC machines.

Type and Size	JPL Code
500g Compound Tin	**476311**
400g Liquid Bottle	**476312**
400ml Spray	**476313**

ABUS Discus Padlocks

The disc shape effectively combats the most common ways of forcing it open. The design means that there is only a small opening in the shackle, which makes it very difficult to tamper with. As the Abus disc lock is made mainly of stainless steel, it is used especially where security and protection against corrosion are required. Can be used in conjunction with a Abus Discus Hasp 140 to add even more security by making it virtually impossible to attack the shackle.

Type	Description	Shackle Dia	Security Level	JPL Code
26/70	The original Discus Padlock with pin tumbler cylinder with anti-pick mushroom pins. The shackle is manufactured from hardened steel alloy and is protected in a stainless steel body.	11mm	8/10	**484016**
241B/70	The 24IB offers the same features as the 26 with added protection for harsher environments such as marine. All components of the lock are stainless steel with an additional keyway cover to protect against dirt and moisture.	10mm	8/10	**484015**
20/80	Maximum protection against weather and theft is offered using Abus-Plus disc cylinder technology. The 20 series can give the highest protection against manipulation. 30,000 manufactured key differs and each lock is provided with a key code card. Ideal to secure Items/goods of great value and have a very high risk of theft.	11mm	9/10	**484010**

ABUS Abus Granit Range Shackle Padlock

Type	Description	Shackle Dia	Security Level	JPL Code
37/55	Open Shackle	14mm	10/10	**935955**
37/60	Closed Shackle	14mm	10/10	**935956**

Granit Range offers the highest security protection against manipulation. Ideal to secure valuables/goods of great value or at a very high risk of theft.
- Meets special requirements of insurance companies
- Certified and approved padlock
- To secure e.g. warehouses, factory gates, containers and lorries

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ABUS Brass Padlocks

Type/Size	Shackle Clearance Length	Shackle Dia	Security Level	JPL Code
55/30mm	13mm	5mm	3/10	**484048**
55/40mm	22mm	6mm	4/10	**484049**
55/40mm	63mm	6mm	4/10	**935960**
55/50mm	24mm	7mm	4/10	**484050**
55/60mm	32mm	8mm	6/10	**484066**

Abus 55 Series
Offers basic Protection.
- Body made of solid brass
- Inner components made of non-corrosive materials
- Hardened shackle
- Precision pin tumbler cylinder

Ideal for securing cobra loop cables, doors, gates, cabinets, lockers, toolboxes, cellar windows, sheds, switchgears, barriers

Type/Size	Shackle Clearance Length	Shackle Dia	Security Level	Keyed Alike	JPL Code
65/20	11.5mm	3.5mm	3/10	x	**484051**
65/25	14mm	4mm	3/10	x	**484052**
65/30	17mm	5mm	4/10	x	**484053**
65/30	17mm	5mm	4/10	✓	**484063**
65/40	23mm	6.5mm	5/10	x	**484054**
65/40	23mm	6.5mm	5/10	✓	**484064**
65/40HB	40mm	6.5mm	5/10	x	**484058**
65/40HB	40mm	6.5mm	5/10	✓	**935966**
65/40HB	63mm	6.5mm	5/10	x	**484059**
65/40IB (stainless steel shackle)	23mm	6.5mm	5/10	x	**935963**
65/50	29.5mm	8mm	6/10	x	**484055**
65/50	29.5mm	8mm	6/10	✓	**484065**
65/50IB (stainless steel shackle)	29.5mm	8mm	6/10	x	**935964**

Abus 65 Series
The 65 Series offers up to level 6 protection.

- 15 - 25 mm: To secure bags, suitcases, jewellery boxes, cash boxes, etc.
- 30 - 60 mm: To secure chains, doors, gates, cupboards, lockers, tool boxes, cellar windows, sheds, switchboards, etc.

Brass Padlocks (continued)

Abus 85 Series
- 85/30 and 85/40: To secure valuables/goods of medium value or at an average risk of theft
- 85/50: To secure valuables/goods of greater value or at a high risk of theft
- To secure bags, suitcases, jewellery boxes, cash boxes, doors, gates, cupboards, lockers, tool boxes, cellar windows, sheds, switchboards, etc

Type/Size	Shackle Clearance Length	Shackle Dia	Security Level	JPL Code
85/30	17mm	5mm	5/10	**484073**
85/40	23mm	6.5mm	6/10	**484074**
85/50	29.5mm	8mm	7/10	**484075**

Titalium Padlocks

The Abus new generation of padlocks, strong, lightweight and innovative. Titalium is based on a special aluminium alloy; a mixture of materials is created that is extremely durable and lightweight; similar to the process used in aircraft construction. This contemporary product implementation is also reflected in the product design – all the locks in the Titalium series feature an impressive stainless steel like finish. Compared to classic brass padlocks, the locks in the Titalium series are around 30% lighter but feature the same level of security making them excellent value for money.

64 TI Series
Ideal for medium to high risk of theft, the 64TI series are recommended for a wide range of security requirements. All models in this series have a paracentric keyway, chrome plated cylinder cores and hardened steel shackle and have NANO Protect shackle coating, which assures security and high corrosion resistance. Ideal for chains, doors, gates, cupboards, lockers, toolboxes etc.

Type/Size	Shackle Clearance Length	Shackle Dia	Security Level	Pack Qty	JPL Code
64TI/30	17mm	5mm	4/10	Single	**484031**
				Twin	**484041**
64TI/40	23mm	6mm	5/10	Single	**484032**
				Twin	**484043**
				Quad	**484044**
64TI/40HB40	40mm	6mm	5/10	Single	**484036**
64TI/40HB63	63mm	6mm	5/10	Single	**484037**
64TI/50	29mm	8mm	6/10	Single	**484033**
64TI/50HB80	80mm	8mm	6/10	Single	**484038**
64TI/60	35mm	10mm	6/10	Single	**484034**

80TI Series
The 80TI series padlocks are the flagship of the Titalium family, and make an impression with both their looks and technical properties. Within a massive lock body is a 6-pin precision cylinder with paracentric keyway giving protection against both forced or manipulative break-ins. A chrome plated cylinder core and double bolted hardened steel shackle with NANO Protect shackle coating assures security and high corrosion resistance. For securing medium to high value items in use in areas with high risk of theft. Ideal for doors, gates, lockers, toolboxes etc.

Type/Size	Shackle Clearance Length	Shackle Dia	Security Level	Pack Qty	JPL Code
80TI/40	25.5mm	7mm	6/10	Single	**484067**
80TI/40HB63	63mm	7mm	6/10	Single	**484070**
80/45	29mm	8mm	7/10	Single	**484068**
80/50	35mm	10mm	8/10	Single	**484069**

Combination Padlock

Abus 158 Series
With a solid die-cast zinc body and a hardened steel shackle. 3 digit (40mm) or 4 digit (50mm) resettable combination where you can set your own PIN. Ideal for medium security requirements where convenience of use is a high priority (e.g. schools, companies).
Resettable coded mechanism.

Type/Size	Shackle Clearance Length	Shackle Dia	Security Level	JPL Code
158/40 (3 Digits Code)	23.5mm	6mm	4/10	**484021**
158/50 (4 Digit Code)	33.5mm	8mm	5/10	**484025**

Hasp & Staple

Abus 200
200 Series of hasps designed to secure valuables/goods of lesser value or at a low risk of theft. To be used with a padlock of a similar security level.
- Corrosion protected
- Steel construction
- Hidden screws

Type/Size	Length of Hasp	Width of Hasp	Hole Diameter	JPL Code
200/75	75mm	29mm	9mm	**484095**
200/95	95mm	39mm	13.4mm	**484096**
200/115	115mm	47mm	13.4mm	**484097**

Abus 140
140 Hasp to secure valuables/goods of greater value or at a high risk of theft.
- Extreme corrosion resistance
- To be used with Diskus® padlock
- Hasp and hinge pins made of stainless steel
- Tough construction
- Hinge pins protected against attack
- Hardened staple
- Hidden screws

Type/Size	Length of Hasp	Width of Hasp	Hole Diameter	JPL Code
140/120	120mm	56mm	12.5mm	**484094**

Hasp & Staple (continued)

Type/Size	Length of Hasp	Width of Hasp	Hole Diameter	JPL Code
130/180	180mm	79mm	14mm	**935943**

Abus 130
130 Hasp offers highest security rating 10/10.
To secure valuables / goods of great value or at a very high risk of theft. To secure warehouses, containers, lorries etc.
- Suitable for doors closing flush, i.e. door leaf and door frame are level
- To be used with the Granit Padlock System

Safety Lock Out Hasp

Type	Size	Colour	JPL Code
701	25mm	Red	**484006**
		Yellow	**484007**
702	38mm	Red	**484008**
		Yellow	**484009**

Safety lockout hasps ensures safety for maintenance and service workers by 'locking out' a power source. The lockout hasp is placed through the isolating point of the switch and each person carrying out work attaches and locks in place their own unique individually keyed padlock through the lockout hasp. This ensures each worker's safety as the energy cannot be restored until the work is finished and all padlocks have been removed. Hasps have space for up to 6 padlocks. Vinyl coated high tensile steel.

Van Locks

Type/Size	Overall Length	Width	Hole Diameter	JPL Code
141/200	222mm	87.3mm	13.4mm	**484081**

Abus 141 /200 Diskus Integral Vanlock
141 Diskus Intergral vanlock, convenient one handed key operation to lock & unlock with multi-purpose Hasp and Staple for all round protection. Supplied complete with the 'Original' Diskus 23/70 padlock whose strong steel construction gives maximum protection.
Suitable for vans, trucks, garages, sheds or any outward opening double doors.

Type/Size	Overall Length	Width	JPL Code
500	213mm	114mm	**935996**

KASP Van Lock & Hasp Series 500
The Kasp 500 Series Van Lock is specifically designed to meet the stringent demands of industrial vehicle applications. The Kasp 500 Series hasp features integral walls that protect the heavyweight hardened steel lock providing virtually no points of effective attack. Fits virtually all vans and trucks with sliding or hinged doors as well as trailers and containers. Also suitable as a high security locking device for garages, lock ups, gates, etc. Supplied complete with 6 x coach bolts.

Key Organisation

Type	Dimensions	JPL Code
KC/20 20 keys	200 x 160 x 80mm	**510970**
KC/48 48 keys	300 x 240 x 75mm	**510971**
KC/96 96 keys	300 x 240 x 75mm	**510972**

Hook Key Cabinets
Heavy duty steel cabinet with lock for hanging up keys. Supplied with labels, wall fixings and two keys.

	JPL Code
	429222

Stephens Key Tabbies
30mm keyrings, fitted with a large identification label. Available in a box of 50 keyrings.

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General Cleaning

Cleaning Products and Supplies

Type	Size	JPL Code
Concentrated Bleach: Sterilises, disinfects and deodorises drains, waste pipes, lavatories as well as bleaching fabrics.	5 Litres	**429210**
Detergent: A neutral pH blend for dishwashing, general cleaning and floor cleaning, including terrazzo and linoleum. Eski detergent is also suitable for washing textiles and is ideal for use in the food industry.	5 Litres	**429211**
Pine Disinfectant: A powerful deodorant with a pleasant smell, suitable for cleaning floors, drains, sinks and toilets.	5 Litres	**429212**
Loo Cleaner: Disinfects, deodorises and removes stains from toilet bowls, urinals and all ceramic surfaces. Will also remove scale algae and any organic growths.	750ml	**935763**
Glass Cleaner: is a powerful glass cleaning agent containing a high level of detergents and solvents for rapid drying to a smear and static free finish. May also be used on tiling, VDUs, TV screens, chrome etc.	1 Litre	**935766**
Furniture Polish: A wax furniture polish, specially formulated to clean and shine wood, plastics and metals	400ml	**936160**
Toilet Rolls: 2 ply Soft Tissue, White. 36 Rolls shrink wrapped in standard packs.	36 rolls	**429218**
Dish Cloths	10	**936133**
Yellow Dusters (500 x 460mm)	10	**936186**
Industrial Rags (no silk)	10kg Bag	**429216**

Hand Cleaning

Swarfega Hand Cleaner

Type & Description	Tub Size	JPL Code
Rapid action classic smooth green gel formula hand cleanser with added conditioner which is easy to apply and quick rinsing to remove ingrained oil, grease & general grime and leave the skin feeling smooth after use.	500ml 1L 4.5L	**480001** **480002** **480003**
Heavy duty gel formula hand cleanser containing non-abrasive micro-polymer granules and added conditioner to quickly remove deeply ingrained oil and grease, leaving the skin feeling smooth after use.	4.5L	**480010**

Vaseline Petroleum Jelly

Type & Description	Tub Size	JPL Code
Vaseline 100% pure petroleum jelly can be used on body and face. It is used for a variety of purposes such as to help heal dry skin, helps protect minor cuts, scrapes and burns and to protect the skin from wind burn and chapping. Vaseline Petroleum Jelly contains no colours, fragrances or irritants. Hypo-allergenic.	250g	**480017**

Paper Towels

Type & Description	Box Qty	JPL Code
Roll of 2 ply blue paper towels	375 sheets per roll	**429219**
Paper hand towels	2880 sheets	**429215**

BIG WIPES — Cleaning Wipes

The wipes that remove everything. No other cleaning wipes available to the professional trade can remove as many substances so effectively. Dermatologically tested to the latest EU regulation 1223/2009, the wipes now include an upgraded 4 x 4 formula. 4 power cleansers- tackles paint, adhesives, oil & sealants, grease and grime quickly and easily. 4 skin conditioners- aloe vera, glycerine, lanolin and vitamin-e help protect, nourish and moisture the skin. 99% anti-bacterial protection.

Description	JPL Code
Multi-Purpose. The original big wipe. Super strong and tear resistant, the wipes are idea for a multitude of applications.	**480021**
Heavy-Duty. Designed with the toughest jobs in mind, the wipes have a textured scrub side and a regular clean side making them ideal for hand cleaning, when the dirt is proving more of a challenge.	**480022**
Multi-Surface. The best wipe for surface cleaning, these wipes are fully biodegradable which make them safe to use and throw away when a bin may not be to hand.	**480023**
Power Spray. The formula used on the famous big wipes is now in a spray form. For use to pre-treat and clean and degrease bigger surface areas, the spray can be used in conjunction with other cleaning equipment and to refresh existing big wipes that may have dried out or needing an extended use time.	**480024**

Brooms and Handles

Item	Size	JPL Code
Plastic Dustpan and Brush Set		**429140**
Coco Broom with Handle	457mm (“18”)	**429102**
	609mm (24”)	**429103**
Coco Broom *Head only*	10”	**934966**
	12”	**429101**
Brush Handle	1200 x 23.5mm (4ft)	**429110**
	1200 x 28mm (4ft)	**429111**
Bassine/cane fill yard broom *head only*	325mm (13”)	**429104**
Hand Mill Bannister Brush	175mm (7”)	**429105**

Bins and Bin Liners

Type	Size	JPL Code
Green Wheelie Bin	240 Litres	**429220**
Black Plastic Dustbin with Lid	80 Litres	**429203**
Galvanised Dustbin with Lid	80 Litres	**935765**

Type	Box Qty	JPL Code
Black Bin Bags	200	**429205**
White Bin Bags	100	**429230**
Rubble Sacks	10	**429303**

Mop and Bucket

Type	JPL Code
Mop Head 12ply C/W metal Socket (Handle not included)	**429130**

Type	Size	JPL Code
Plastic Mop Bucket	12 Litres	**935769**
Galvanised Mop Bucket	12 Litres	**429201**

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Wire Brushes

The wire brush is primarily an abrasive implement, used for cleaning rust and removing paint. It is also used to clean surfaces and to create a better conductive area for attaching electrical connections.

Type	JPL Code
4 Row Wire Brush Heavy Duty	**429121**
4 Row Wire Brush (with scraper end)	**429122**
3 Row Wire Brush Light Type	**429120**

Hose Pipe

Mulitflex 1/2" Hose pipe CEKA G7620-30
High quality, triple layered, polyester reinforced for extra strength & resistance to twisting and stretching. Abrasion resistant PVC outer layer for long life. UV stable. Burst pressure 28 bar.

Coil Length	JPL Code
30m	**936137**
50m	**936188**

PVC/Nitrile Hose
Fluted PVC nitrile water delivery hose re-in forced with polyester fibre braid for light industrial applications. 1/2" bore.

Coil Length	JPL Code
50m	**429350**

Reinforced Garden Hose
Green 1/2" bore hose.

Coil Length	JPL Code
50m	**936150**

Chain

Solid Link Chain

Galvanised Solid Link Chain 10m Coil

Size	JPL Code
3mm x 26mm	**214511**
4mm x 32mm	**214512**

Jack Chain

Pre-Galvanised Jack Chain

Size	JPL Code
No14 (2mm)	**214503**
No10 (3mm)	**214504**

High Tensile Chain

Hot Dip Galvanized High Tensile Chain

Size	JPL Code
2m	**214520**
6m	**214521**

Drain Cleaners

Monument 1459W Plunger
For kitchen sinks, waste disposal units and showers. Bellows design gives more cubic centimetre displacement than traditional force cups; easily cleaned and with removable handle.
Base diameter 150mm.

	JPL Code
	934636

Monument 3344 Drain Auger
Hollow spring wire cable with bulbous head for unblocking sinks, urinals, bath wastes, showers, small drains, etc. Rotating crank handle with thumbscrew fits over and locks cable. ¼ in 6mm size suitable for entry through strainers. For sinks, baths, showers and small pipes. 25ft. x ¼ in.

	JPL Code
	934638

Monument 909L 6FT Sink Waste Cleaner
Galvanized steel wire with gripping handle for clearing sink, shower and bath wastes.
Length 6ft 1.8m. Dia. ¼ in. 6mm

	JPL Code
	934639

Pens

Type	Colour	Box Qty	JPL Code
Bullet Tip Marker Pen	Black	10	**429301**
	Blue	10	**429306**
	Red	10	**429305**
Chisel Tip Marker Pen	Black	10	**429307**
Bullet Tip Permanent Paint Marker	White	10	**329304**
Medium Carpenters Pencil		12	**429308**

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PPE

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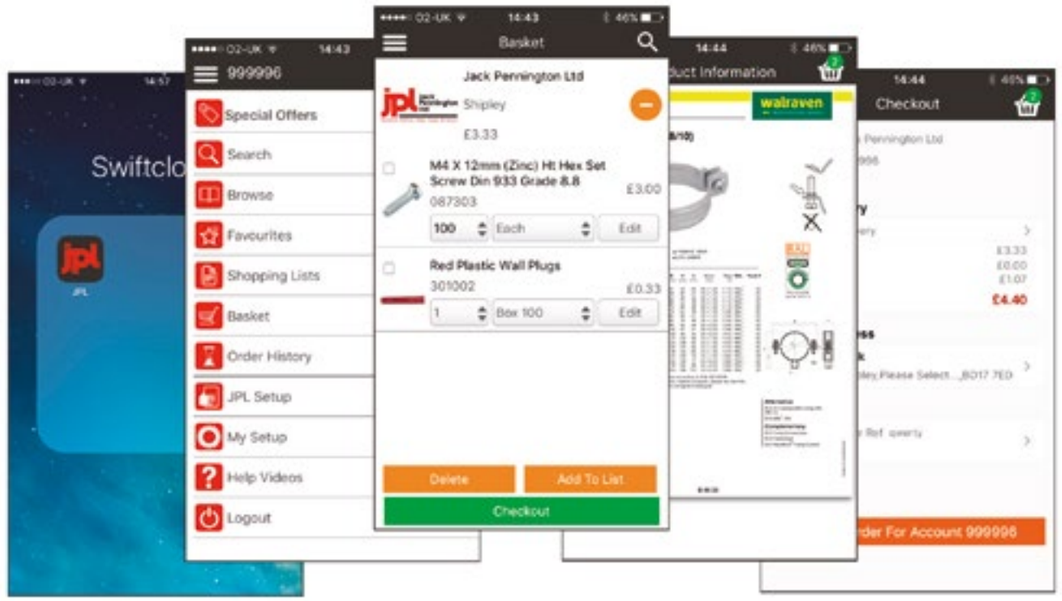

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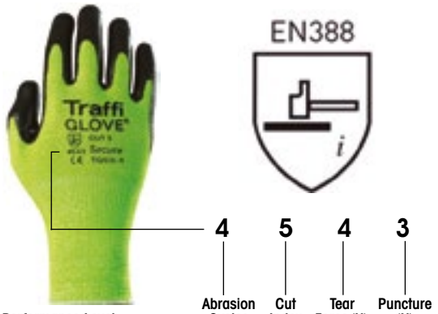

Performance Level		Abrasion Cycles	Cut Index	Tear Force(N)	Puncture (N)
1 WARNING LOWER CUT PROTECTION	1	100	1.2	10	20
	2	500	2,5	25	60
3 WARNING MEDIUM CUT PROTECTION	3	2000	5	50	100
	4	8000	10	75	150
5 WARNING HIGHER CUT PROTECTION	5	n/a	20	n/a	n/a

Traffiglove is the Industry leading brand of PPE Safety Gloves in the UK.

The unique colour coding system allows the user to see exactly the level of protection they are wearing at a glance. All the gloves meet the current European Standards of EN338:2003 which governs all PPE gloves that provide protection against mechanical risks.

In addition to meeting these standards the Traffiglove system also works off a unique coding system where by the levels of abrasion, cut, tear and puncture resistance are identifiable with each individual glove.

Abrasion Cycles: 1 (lowest – 4 (highest)
Cut Index: 1 (lowest – 5 (highest)
Tear Force (N): 1 (lowest – 4 (highest)
Puncture (N): 1 (lowest – 4 (highest)

Traffiglove: Green Level

Classic 5 TG5010

Security rating: 4543
A Lightweight glove with a generous cuff length for use in dry conditions. The close fitting design ensures hands can move freely making it an ideal choice for most general handling tasks.

Ideal For
- Assembly tasks in dry conditions
- Material handling
- Maintenance
- Construction
- HVAC
- Groundworks

Glove Size	JPL Code
8	938310
9	938311
10	938312
11	938313

Secure TG535

Security Rating: 4543
A comfortable Cut Level 5 glove with excellent grip and a full length cuff for use in wet and dry conditions.

Ideal For
- Construction
- Manufacturing & Engineering
- Mechanical & Electrical
- Utilities Services
- Warehousing
- Waste & Recycling

Glove Size	JPL Code
8	938369
9	938370
10	938371
11	938372

Kinetic 5 TG5130

Security Rating: 3543
Description: A close fitting aramid Cut 5 glove featuring a unique Cohesion Carbon palm coating offering outstanding hot contact heat resistance and chemical contamination resilience.

Ideal For
- Hot surface contact
- Risk of oil and chemical contamination
- General metalwork and fabrication
- Waste and recycling
- Steelwork

Glove Size	JPL Code
8	938374
9	938375
10	938308
11	938309

Other Cut 5 options available.

Classic 3 TG3010

Security rating: 4343
A lightweight glove with a generous cuff length for use in dry conditions. The close fitting design ensures hands can move freely making it an ideal choice for most general handling tasks.

Ideal For
- Assembly tasks in dry conditions
- Materials handling
- Maintenance
- Construction
- Light Engineering

Glove Size	JPL Code
8	938310
9	938311
10	938312
11	938313

3Digit 3 TG3020

Security Rating: 4343
A close fitting glove with high abrasion and tear resistance and 3 exposed fingertips for improves dexterity. Breathable polyurethane coating for use in dry conditions.

Ideal For
- Mechanical and electrical trades
- Carpentry
- Maintenance
- Second fix installation works

Glove Size	JPL Code
8	938358
9	938359
10	938360
11	938361

Force TG365

Security rating: 4342
A flexible, closer fitting glove with high abrasion and tear resistance and excellent gripping power for wet and dry surfaces.

Ideal For
- Construction
- Manufacturing and engineering
- Mechanical and electrical
- Utilites
- Warehousing
- Waste and Recycling

Glove Size	JPL Code
8	938362
9	938363
10	938364

Other Cut 3 options available.

Traffiglove: Red Level

Classic 1 TG1010

Security Rating: 3131
A lightweight glove with a generous cuff length for use in dry conditions. The close fitting design ensures hands can move freely making it an ideal choice for most general handling tasks.

Ideal For
- Fine product assembly work
- warehousing
- Maintenance

Glove Size	JPL Code
8	938326
9	938327
10	938328
11	938329

3Digit 1 TG1020

Security Rating: 4343
A close fitting glove with high abrasion and tear resistance and 3 exposed fingertips for improves dexterity. Breathable polyurethane coating for use in dry conditions.

Ideal For
- Fine product assembly work
- warehousing
- Maintenance

Glove Size	JPL Code
8	938336
9	938337
10	938338
11	938339

Centric TG1050

Security Rating: 3141
A lightweight, rubber coated handling glove suitable in wet and dry conditions. High stretch liner delivers an outstanding wearing experience.

Ideal For
- General handling
- Warehousing and goods handling
- Construction
- Groundwork

Glove Size	JPL Code
8	938340
9	938341
10	938342
11	938343

Other Cut 1 options available.

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Gloves

Canadian Rigger Gloves

Description	JPL Code
Part leather/cotton gloves for general handling. EN420 minimal risk only.	**480141**

Welders Gauntlets

Description	JPL Code
14" Long lined welders gauntlet. Conforms to EN420.	**480154**

Latex Gloves

Description	Box Qty	Size	JPL Code
Vinyl Clear powdered gloves.	100	Large	**480169**

Ear Protection

Inner Ear Protection

Type	Description	Box Qty	JPL Code
Foam Ear Plug	Designed to provide the ultimate in comfort and protection, and excellent levels of protection. Soft, comfortable finish for day long use with a tapered end for comfort. Slow expanding, polyurethane foam. Fits majority of ear canals.	250 Pairs	**480501**

Banded Ear Plug	The design of the band, when seated in the ear prevents rubbing on clothing or clashing with other PPE devices. Highly comfortable, the band is quickly fitted and removed or can be worn comfortably in the rest position around the neck. Performs well at low frequencies and gives relatively flat attenuation which helps with communication and sound recognition. Conforms to EN352.	1	**935686**

Corded Ear Plug	Standard foam earplugs with the addition of an easy-to-see blue viny cord. Use in food manufacture and process industries. Convenient cord promotes re-use. Compatible with other PPE. 100% recyclable. Breakable cord in case of machine entanglement.	200 Pairs	**935687**

Ear Defenders

Type	Description	Box Qty	JPL Code
General Purpose Ear Defenders	Good quality, popular and affordable ear muff. Suitable for a wide range of uses.		**480502**

Superior Ear Defenders	A quality choice ear defender, suitable for use in medium duty industrial applications. Large foam filled cups offer excellent attenuation. Soft, wide foam cushions for all day comfort - ideal for long shifts. Generously padded, reinforced plastic headband. Flexible strap to allow behind-the-head fitting of headband. Conforms to EN352-1		**935756**

Helmet Mounted Ear Defenders	Clip-on ear defenders. Robust attachment and fully adjustable for additional comfort and support. (Helmet not included).		**936339**

Helmets

Standard Helmet

Colour	JPL Code
Blue	**480201**
Green	**480202**
Orange	**935730**
Red	**480204**
White	**480205**
Yellow	**480206**

Conforms to EN 397.

Premium Helmet

Colour	JPL Code
Blue	**935739**
Green	**935740**
Orange	**935741**
Red	**935743**
White	**935746**
Yellow	**935747**

Centurion 1125 premium safety helmet with sweatband. Conforms to EN 397.

Vented Helmet

Colour	JPL Code
Blue	**480215**
Green	**480217**
Orange	**480219**
Red	**480216**
White	**935757**
Yellow	**480218**

Extremely light yet strong - 20% lighter than most other available helmets with maximum side impact protection including lateral deformation option within EN 397. - 6 point terylene cradle and premium high absorbent sweatband - Unique ventilation system for improved airflow. Standard: EN 397, -40°C, LD, EN 50365

Helmet Accessories

Sweatband

Description	JPL Code
Egyptian cotton core with porous PU coating for maximum sweat absorption. PH neutral, dermatologically tested.	**480211**

Winter Liner

Description	JPL Code
Black liner fits between cradle and helmet shell for full integration. CE approved to fit all Centurion helmets. Tested in our laboratory to -40°C according to EN 397.	**938378**

Helmet I.D Stickers

Description	Size	JPL Code
This helmet safety sticker allows the personal details, allergy/medical conditions and contact information to be written on the waterproof card with a permanent marker pen.Because helmets are mandatory on site, the worker will always have their contact details with them. The safety sticker is made from 3M reflective material and is 100% waterproof and fully secure with a security flap to protect workers information.	Length: 65mm Width: 15mm	**935698**
	Length 85mm Width:20mm	**936699**

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Personal Emergency Identification

Item	Description	Size	JPL Code
Site Identity Wallet Card	Intended as a backup to the helmet ID stickers and cases, this tough, plastic credit card sized card allows workers identity, medical and emergency contact information to be easily accessible in the event of an accident or emergency. Ideal for workers away from home or off site for extended periods of time.	Length: 85mm Width: 55mm	**936700**
Attachable Identity Case	Provide first responders with the information they require, such as personal information, medical conditions and contact information on a waterproof card, using a permanent marker pen, that's housed in a strong polycarbonate case. Workers in risky environments would benefit from the knowledge their details are to hand in an accident or medical emergency.	Length:60mm Width: 30mm	**936701**

Face Masks

Type	Description	Type	Box Qty	JPL Code
Nuisance Dust Mask	General purpose face mask		50	**480301**

P1 Dust Mask	Conforms to EN149 FFP1 Filters at least 80% of airborne particles	Standard Valved	20 10	**935732** **935733**

P2 Dust Mask	Conforms to EN149 FFP2 Filters at least 94% of airborne particles	Standard Valved	20 20	**935735** **935737**

P2 Fold Flat Dust Mask	Conforms to EN149 FFP2 Filters at least 94% of airborne particles	Standard Valved	20 20	**935734** **935736**

P3 Valve Dust Mask	Conforms to EN149 FFP3 Filters at least 99.95% of airborne particles		20	**935738**

General Purpose Eye Protection

Type	Description	JPL Code
General Purpose Clear Safety Spectacle	Ultra lightweight and modern design spectacles giving perfect optical quality by means of a one piece curved lens. Exceptional Levels of comfort and protection. Conforms to standard: EN166 1 F	**480402**
Over Safety Spectacle	Clear wraparound eyeshield featuring clear one piece lens and side arms is particularly suited for wearing over spectacles. Ultra lightweight and superb field of vision, these spectacles are also ideal for visitor use. Clear polycarbonate Lens Conforms to standard: EN166 1 F	**935742**
General Purpose Safety Goggles	A compact and lightweight goggle offering high resistance to impact and featuring direct ventilation through the body of the frame. The lens is made clear Polycarbonate and the frame is made from PVC. Conforms to standard: EN166 1 B.	**480401**

Swiss One Eye Protection

Over 25 years' experience in the safety glasses industry, Swiss One has maintained its reputation for producing quality innovative safety eyewear solutions combined with excellent fit and comfort.

Crackerjack Glasses

Stylish single lens spectacle with a perfect fit, lightweight and a large field of vision. Slim flexible temples providing comfort, perfect fit when wearing any kind of helmets or ear defenders. CE EN 166:2001 EN170/EN 172

Type	JPL Code
Clear: for general purpose safety spectacles	**480411**

Yellow : enhanced contrast in lowlight conditions	**480412**

Orange: enhanced contrast in lowlight conditions	**480413**

Smoke: reduces eye fatigue under glare conditions and sunlight	**480415**

Blue: decreases visible brightness because mirror reflects light.	**480414**

Eurospecs

Description	JPL Code
Extremely lightweight and modern safety spectacles with adjusted lens position and temple length system. Soft nose pad and one piece lens. Large field of vision, very comfortable for extended period of use. Nylon Frame.	**480427**

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Swiss One Eye Protection Accessories

Item	JPL Code
Matrix Box for safety glasses with belt clip	**935703**

Adjustable cord for safety glasses	**480431**

Standard cord for safety glasses	**480432**

Nylon pouch for safety glasses	**480433**

Swiss One Safety Goggles

Description	JPL Code
An ultra-lightweight, full vision google with tremendous wearer comfort. Sporty soft PVC frame designed to accommodate prescription spectacles. Indirect ventilation to prevent misting. Adjustable wide elastic strap with a pivoting buckle system which adapts to each individual face. PVC frame. EN166 EN170	**480404**

Face Sheild

Type	JPL Code
Polycarbonate face shield, with moulded polycarbonate visor, for a better fit and protection. The design eliminates gaps and enables you unrestricted head movement.	**480171**

Knee Protection

Redbacks are an award winning knee pads scientifically proven to reduce the impact forces which enter the body whilst kneeling. With its unique leaf spring technology they allow for a distribution of the pressure which offers maximum knee protection and helps prevent MSD. The pads 100% recyclable and have thermal protection from warm and cold surfaces.

Type	Features	JPL Code
Pocket Knee Pads	• Fits in pocketed work trousers • Waterproof • Can be left in work trousers to wash at 40°	**480166**

Strapped Knee Pads	• Strapped version of Pads • Articulated straps with dust-resistant fastening • Can be worn on bare skin or over trousers • Penetration-resistant waterproof cover.	**480167**

HI Vis Clothing

Type	Description	Medium (40) JPL Code	Large (42-44) JPL Code	XL (46) JPL Code	XXL (48) JPL Code
Waistcoat	•EN471 Specification: Class 2 approved •Conforming to 89/686/EEC Directive •100% Polyester •Black Polyester bound edges •2 Band & 2 Brace •2 Retro reflective strips (50mm wide) stitched on around body & 1 over each shoulder •Velcrofastening •Washable 25X	**936355**	**935691**	**480178**	**480179**

Poloshirt	•100% Polyester pique knit fabric •Knitted collar •Taped neck •Hemmed sleeve & bottom •3 Button placket •2 Retro reflective strips (50mm wide) stitched on around body & 1 over each shoulder	**935829**	**935828**	**935830**	**936349**

Road Safety Jacket	•EN471 Specification: Class 3 approved •Conforming to 89/686/EEC Directive •Outer fabric 300 denier 100% Polyester PU Coated with waterproof taped seams •2 Retro reflective strips (50mm wide) stitched on around body, arms & 1 over each shoulder •Hood with draw cord under collar •1 Zipped inner pocket under flap near chest •1 Inner pocket & 2 outer pockets with studded flaps •Phone pocket on right breast as worn •Embroidery access at hem •Padded & lined •Washable 25X	**935826**	**935825**	**935824**	**935827**

Bomber Jacket	•EN471 Specification: Class 3 approved •Conforming to 89/686/EEC directive •Outer fabric 300 denier 100% Polyester PU coated •Waterproof taped seams •2 Retro reflective strips (50mm wide) stiched on around body, arms & 1 over each shoulder •Hood with draw cord under collar •1 Inner pocket & 2 outer inset pockets •Phone pocket on right breast as worn •Embroidery access at hem •Padded & lined •Washable 25X	**935822**	**935690**	**935823**	**936348**

Trousers	•EN471 Specification Class 1 approved •Conforming to 89/686/EEC directive •300 denier 100% Polyester PU coated fabric •Two front pockets •Fully elasticated waist •Adjustable ankle •Washable 25X	**935832**	**935831**	**935833**	**936354**

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TL1-3011

Personal Tool Tethers

Gear keeper personal tool tethers provide secure attachment of tooling items such as power tools to a safety harness without impending their use. A stainless steel carabiner with locking gate provides the attachment to the harness, different options are available for attaching the tool, including another stainless steel carabiner, fixed lanyard and removable lanyard that can be left attached to the tool and inserted/removed from the teather as required. A length of 19.5mm (¾") super coil provides the necessary dampening if the tool is accidently dropped, preventing a sudden jerk that could unbalance the operative.

Type	Description	Length	JPL Code
TL1- 3011 (6.8 kg tool Limit)	c/w two aluminium carabiners	53-106cm	**935046**
TL1-3022 (2.7kg tool limit)	c/w one stainless steel carabiner and one side release buckle with toggle loop.	63-115cm	**935051**
TL1-3023 (2.7kg tool limit)	c/w two stainless steel carabiner and one side release buckle with toggle loop.	63-119cm	**935052**
TL1-3024 (6.8kg tool limit)	c/w one stainless steel carabiner and one loop toggle	63-119cm	**935053**
Additional looped clip attachment for TL1 - 3022 and TL1 - 3023		150cm 330cm	**935006** **935008**

TL1-3022

TL1-3023

TL1-3024

Anchored Tool Tethers

An anchored Tool tether using 1" (25mm) super coil, the long working length (94-114cm extended) allows one of the stainless steel locking carabiners to be attached to a suitable structure while the other end, to the tool.

Type	Description	JPL Code
TL1-4021 (11.3kg Tool Limit)	c/w two stainless steel carabiners	**935057**
\TL1-4024 (11.3kg Tool Limit)	c/w one stainless steel carabiners and fixed web loop	**935058**

TL1-4021

TL1-4024

Retractable Tool Tethers

A retractable tool lanyard with two mount systems, a snap clip and a belt clamp. The belt clamp fixes the tool belt and allows rotation in any direction, minimizing resistance and line wear. The lanyards are interchangeable so they can remain fixed to the tools allowing tools to be quickly interchanged by clipping in the elasticated lanyard to the retractable tool teather.

Type	Tool Limit	JPL Code
RT3-5601(0.9kg Tool Limit)	0.9kg	**935031**
Additional clip attachment for RT3	0.9kg	**935007**
RT4-5601(0.45kg)	0.45kg	**935032**
Additional clip attachment for RT4	0.45kg	**935009**

Retractable Wrist Lanyard

A retractactable tool lanyard that attaches to the wrist with a Velcro strap. Interchangeable lanyards allow for the quick changing of tools.

Type	Length	Tool Limit	JPL Code
TL1-2006	91cm	0.45kg	**935043**
Additional clip attachment for TL1-2006		0.45kg	**935007**

Wrist Lanyard

A fixed length (510mm) wrist lanyard that attaches a tool directly to the wrist with a Velcro strap.

Type	Length	Tool Limit	JPL Code
TL1-2005 Fixed Lanyard velcro wrist strap	50cm	2.7kg	**935042**
TL1-2007 Deluxe Lanyard with one side release buckle with toggle loop.	33cm	2.7kg	**935044**
Additional looped clip attachments for TL1-2007	15cm	2.7kg	**935006**
Additional looped clip attachments for TL1-2007	33cm	2.7kg	**935008**

Hard Hat Lanyard

A retractable lanyard that fastens a helmet to a safety harness to prevent dropping. The retractor keeps the lanyard close to the body, minimising entanglement.

Type	Tool Limit	JPL Code
Hard hat Velcro strap mount: Velcro strap loops & Cinches around the fall-protection harness strap, ring or tri-bar of the hat.	0.51kg (hard hat)	**935033**

Type	Description	JPL Code
Scafftag	It can be attached via the porthole, locked in via a scaffold clip or secured with a pull tie. Helps you to comply with legislative requirements and good practices of: • Inspecting and maintaining equipment at suitable periods as deemed appropriate by a risk assessment • Ensuring employees are informed if equipment is not safe to use Pack of 10 tags, 20 inserts and 2 marker Pens	**936162**
Laddertag	Laddertag is robust and highly visible, displaying latest information relating to a ladders class, inspection period and inspections due as well as a handy, quick-reference ladder inspection checklist. Laddertag uses our unique holder and insert system to ensure the latest status is instantly visible at the point of use. Helps you to comply with legislative requirements and good practices of: • Completing a pre-work inspection before each use of the equipment and ensuring this is recorded • Inspecting and maintaining equipment at suitable periods as deemed appropriate by a risk assessment • Ensuring employees are informed if equipment is not safe to use 10 Laddertag Holders, 10 Laddertag Inserts, 1 marker pen	**936134**

More Health and Safety self-adhesive and semi-rigid are available. Please contact the Customer Service Centre for more details.

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First Aid

First Aid Kits

Description	Small 10 People	Medium 20 People	Large 50 People
• Fully stocked and compliant with Health & Safety (HSE) Regulations • Lid features a white cross on a green background • As per the HSE regulations • Very Durable and Robust • Can be used in tough environments • Can easily be taken to the location of the casualty	**480602**	**480603**	**480604**
Kits Contain			
• First aid guidance leaflet	1	1	1
• Sterile washproof plasters	20	40	60
• Sterile eye pads with bandages	2	4	6
• Triangular bandages	2	4	6
• Safety pins	6	12	12
• Sterile dressings with pad (medium)	6	9	12
• Sterile dressings with pad (large)	2	3	4
• Moist wipes	6	10	20
• Disposable gloves	3	4	5

Eye Wash Station with Mirror

Size	JPL Code
Robust wall mounted eyewash station. Incorporates 2 x 500ml bottles of sterile saline eyewash solution. Integrated mirror is ideal for self-administration of eye wash. Wall fixings not supplied.	**935689**
Additional 500ml eyewash solution	**938278**

email: sales@pennington.co.uk

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Conditions of Sale

1 Definitions

1.1 In these Conditions the following words have the following meanings:-

"the Company" means Jack Pennington Limited company number 1168331

"the Goods" means the goods (including any instalment of the goods or any part of them) which the Company is to supply to the Buyer in accordance with these Conditions

"the Buyer" means the person firm or company who accepts a quotation of the Company for the sale of the Goods or whose order for the Goods is accepted by the Company on the Conditions

"the Conditions" means the standard terms and conditions of sale set out in this document and (unless the context otherwise requires) includes any special terms and conditions agreed in writing between the Buyer and the Company

"the Contract" means the contract for the purchase and sale of the Goods

"Writing" includes telex, cable, facsimile transmission and comparable means of communication.

1.2 Any reference in these Conditions to any provision of a statute shall be construed as a reference to that provision as amended, re-enacted or extended at the relevant time.

1.3 The headings in these Conditions are for convenience only and shall not affect their interpretation.

2 Basis of the sale

2.1 The Company shall sell and the Buyer shall purchase the Goods in accordance with any written quotation of the Company which is accepted by the Buyer, or any written order of the Buyer which is accepted by the Company, subject in either case to these Conditions, which shall govern the Contract to the exclusion of any other terms and conditions.

2.2 No variation to these Conditions shall be binding unless agreed in Writing and expressed as such between the authorised representatives of the Buyer and the Company.

2.3 The Company's employees or agents are not authorised to make any representations concerning the Goods unless confirmed by the Company in Writing. In entering into the Contract the Buyer acknowledges that it does not rely on, and waives any claim for breach of, any such representations which are not so confirmed.

2.4 Any typographical, clerical or other error or omission in any sales literature, quotation, price list, acceptance of offer, invoice or other document or information issued by the Company shall be subject to correction without any liability on the part of the Company.

3 Orders and specifications

3.1 Any order placed by the Buyer comprises an offer and is subject to acceptance by the Company and if placed orally must be confirmed in writing if requested by the Company.

3.2 The Buyer shall be responsible to the Company for ensuring the accuracy of the terms of any order (including any applicable specification) submitted by the Buyer, and for giving the Company any necessary information relating to the Goods within a sufficient time to enable the Company to perform the Contract in accordance with its terms.

3.3 The quantity, quality and description of and any specification for the Goods shall be those set out in the Company's quotation.

3.4 The Company reserves the right to make any changes in the specification of the Goods which are required to conform with any applicable safety or other statutory requirements or, where the Goods are to be supplied to the Company's specification, which do not materially affect their quality or performance.

3.5 No order which has been accepted by the Company may be cancelled by the Buyer except with the agreement in Writing of the Company and on terms that the Buyer shall indemnify the Company in full against all loss (including loss of profit), costs (including the costs of all labour and materials used), damages, charges and expenses incurred by the Company as a result of cancellation.

3.6 The Company reserves the right to counter by facsimile, any Offer made by the Buyer to accommodate any price fluctuations as per clause 4.1 below. If such counter-offer is not accepted by facsimile within 24 hours of receipt the order will lapse unless accepted by the conduct of the Buyer.

4 Price of the goods

4.1 The price of the Goods shall be the Company's quoted price or, where no price has been quoted (or a quoted price is no longer valid), the price current at the date of acceptance of the order. All prices quoted are valid for 30 days only or until earlier acceptance by the Buyer, after which time the Company's current price existing at the date of acceptance of the order will apply.

4.2 The price is exclusive of any applicable value added tax, which the Buyer shall be additionally liable to pay to the Company.

4.3 The Company reserves the right to charge:-

4.3.1 a minimum price per order of £5 or such higher price as the Company shall from time to time determine;

4.3.2 a minimum line charge of £1.50, or such higher price as the Company shall from time to time notify to the Buyer per individual unit of goods sold.

5 Terms of payment

5.1 Unless otherwise expressly agreed in writing the Buyer shall pay the price of the Goods within 30 days of the end of the month following the date of the Company's invoice, notwithstanding that delivery may not have taken place and the property in the Goods has not passed to the Buyer. The time of payment of the price shall be of the essence of the Contract. Receipts for payment will be issued only upon request.

5.2 If the Buyer fails to make any payment on the due date then, without prejudice to any other right or remedy available to the Company, the Company shall be entitled to:-

5.2.1 cancel the contract or suspend any further deliveries to the Buyer;

5.2.2 appropriate any payment made by the Buyer to such of the Goods (or the goods supplied under any other contract between the Buyer and the Company) as the Company may think fit (notwithstanding any purported appropriation by the Buyer); and

5.2.3 charge the Buyer interest (both before and after any judgment) on the amount unpaid, at the rate of 4 per cent per annum above National Westminster Bank Plc base rate from time to time, until payment in full is made (a part of a month being treated as a full month for the purpose of calculating interest).

6 Delivery

6.1 Any dates quoted for delivery of the Goods are approximate only and the Company shall not be liable for any delay in delivery of the Goods howsoever caused. Time for delivery shall not be of the essence unless previously agreed by the Company in Writing. The Goods may be delivered by the Company in advance of the quoted delivery date upon giving reasonable notice to the Buyer.

6.2 Where delivery of the Goods is to be made by the Seller in bulk, the Seller reserves the right to deliver up to 10 per cent more or 10 per cent less than the quantity ordered without any adjustment in the price, and the quantity so delivered shall be deemed to be the quantity ordered.

6.3 Where the Goods are to be delivered in instalments, each delivery shall constitute a separate contract and failure by the Company to deliver any one or more of the instalments in accordance with these Conditions or any claim by the Buyer in respect of any one or more instalments shall not entitle the Buyer to treat the Contract as a whole as repudiated.

6.4 If the Company fails to deliver the Goods for any reason other than under clause 9 the Company's liability shall be limited to the excess (if any) of the cost to the Buyer (in the cheapest available market) of obtaining similar goods to replace those not delivered over the price of the Goods.

6.5 If the Buyer fails to take delivery of the Goods or fails to give the Company adequate delivery instructions at the time stated for delivery (otherwise than by reason of any cause beyond the Buyer's reasonable control or by reason of the Company's fault) then, without prejudice to any other right or remedy available to the Company, the Company may:-

6.5.1 store the Goods until actual delivery and charge the Buyer for the reasonable costs (including insurance) of storage; or

6.5.2 after 48 hours prior notice in Writing to the Buyer sell the Goods at the best price immediately obtainable and (after deducting all reasonable storage and selling expenses) account to the Buyer for the excess over the price under the Contract or charge the Buyer for any shortfall below the price under the Contract.

7 Risk and property

7.1 Risk of damage to or loss of the Goods shall pass to the Buyer:-

7.1.1 in the case of Goods to be delivered at the Company's premises, at the time when the Company notifies the Buyer that the Goods are available for collection; or

7.1.2 in the case of Goods to be delivered otherwise than at the Company's premises:-

7.1.2.1 at the time of delivery to include Goods delivered to an address in accordance with the Buyer's instructions when neither the Buyer, his employee, his agent nor his subcontractor are present to accept the delivery; or

7.1.2.2 if the Buyer wrongfully fails to take delivery of the Goods, the time when the Company has tendered delivery of the Goods

7.2 Notwithstanding delivery and the passing of risk in the goods, or any other provision of these Conditions, the property in the Goods shall not pass to the Buyer until the Company has received in cash or cleared funds payment in full of the price of the Goods and all other goods agreed to be sold by the Company to the Buyer for which payment is then due.

7.3 Until such time as the property in the Goods passes to the Buyer, the Buyer shall hold the Goods as the Company's fiduciary agent and bailee and shall keep the Goods separate from those of the Buyer and third parties and properly stored, protected and insured and identified as the Company's property. Until that time the Buyer shall be entitled to resell or use the Goods in the ordinary course of its business, but shall account to the Company for the proceeds of sale or otherwise of the Goods, whether tangible or intangible, including insurance proceeds, and shall keep all such proceeds separate from any moneys or property of the Buyer and third parties and, in the case of tangible proceeds, properly stored, protected and insured.

7.4 Until such time as the property in the Goods passes to the Buyer (and provided the Goods are still in existence and have not been resold), the Company shall be entitled at any time to require the Buyer to deliver up the Goods to the Company and, if the Buyer fails to do so forthwith, to enter upon any premises of the Buyer or any third party where the Goods are stored and repossess the Goods.

7.5 The Buyer shall not be entitled to pledge or in any way charge by way of security for any indebtedness any of the Goods which remain the property of the Company, but if the buyer does so all moneys owing by the Buyer to the Company (without prejudice to any other right or remedy of the Company) forthwith become due and payable.

8 Warranties and liability

8.1 Except where the Goods are sold under a consumer sale (as defined by the Sale of Goods Act 1979), all warranties conditions or other terms implied by statute or common law are excluded to the fullest extent permitted by law.

8.2 Where the Goods are sold under a consumer sale (as defined by the Sale of Goods Act 1979) the statutory rights of the Buyer are not affected by these Conditions.

8.3 Any claim by the Buyer which is based on any defect in the quality or condition of the Goods or their failure to correspond with specification or, without prejudice to clause 6.2 hereof, and discrepancy as to the quantity of the Goods shall (whether or not delivery is refused by the Buyer) be notified to the Company within 7 days from the date of delivery or (where the defect, failure or discrepancy was not apparent on reasonable inspection) within a reasonable time after discovery of the defect, failure or discrepancy. If delivery is not refused, and the Buyer does not notify the Company accordingly the Buyer shall not be entitled to reject the Goods and the Company shall have no liability for such defect, failure or discrepancy, and the Buyer shall be bound to pay the price as if the Goods had been delivered in accordance with the Contract.

8.4 Where any valid claim in respect of any of the Goods which is based on any defect in the quality or condition of the Goods or their failure to meet specification is notified to the Company in accordance with these Conditions, the Company shall be entitled to replace the Goods (or the part in question) free of charge or, at the Company's sole discretion, refund to the Buyer the price of the Goods (or a proportionate part of the price), but the Company shall have no further liability to the Buyer.

8.5 Where any valid claim in respect of any of the Goods which is based on a discrepancy as to the quantity of the Goods is notified to the Company in accordance with these conditions the Company shall be entitled:-

8.5.1 in the case of an under-delivery to deliver the balance of the Goods ordered within a reasonable period;

8.5.2 in the case of an over-delivery to collect the Goods in excess of the amount ordered.

8.6 Except in respect of death or personal injury caused by the Company's negligence, the Company shall not be liable to the Buyer by reason of any representation, or any implied warranty, condition or other term, or any duty at common law, or under the express terms of the Contract, for any consequential loss or damage (whether for loss of profit or otherwise), costs, expenses or other claims for consequential compensation whatsoever (and whether caused by the negligence of the Company, its employees or agents or otherwise) which arise out of or in connection with the supply of the Goods or their use or resale by the Buyer, except as expressly provided in these Conditions.

9 Force majeure

9.1 The Company shall not be liable to the Buyer or be deemed to be in breach of the Contract by reason of any failure to deliver the Goods if the delay or failure was due to any cause beyond the Company's reasonable control. Without prejudice to the generality of the foregoing, the following shall be regarded as causes beyond the Company's reasonable control:-

9.1.1 Act of God, explosion, flood, tempest, fire or accident;

9.1.2 war or threat of war, sabotage, insurrection, civil disturbance or requisition;

9.1.3 acts, restrictions, regulations, bye-laws, prohibitions or measures of any kind on the part of any governmental, parliamentary or local authority;

9.1.4 import or export regulations or embargoes;

9.1.5 strikes, lock-outs or other industrial actions or trade disputes (whether involving employees of the Company or of a third party);

9.1.6 difficulties in obtaining raw materials, labour, fuel, parts or machinery;

9.1.7 power failure or breakdown in machinery.

9.2 If the circumstances detailed above are still continuing three months after the Buyer receives the Company's notice, then either party may by written notice cancel the contract in which event the Company will refund any payment made on account (subject to deduction of any amount the Company is entitled to claim from the Buyer) but will not be liable to compensate the Buyer for any further loss or damage caused by the failure to deliver.

10 Insolvency of Buyer

10.1 This clause applies if:-

10.1.1 the Buyer makes any voluntary arrangement with its creditors or becomes subject to an administration order or (being an individual or firm) becomes bankrupt or (being a company) goes into liquidation (otherwise than for the purposes of amalgamation or reconstruction); or

10.1.2 an encumbrancer takes possession, or a receiver or administrative receiver is appointed,

10.1.3 the Buyer ceases, or threatens to cease, to carry on business; or

10.1.4 the Company reasonably apprehends that any of the events mentioned above is about to occur in relation to the Buyer and notifies the Buyer accordingly.

10.2 If this clause applies then, without prejudice to any other right or remedy available to the Company, the Company shall be entitled to cancel the Contract or suspend any further deliveries under the Contract without any liability to the Buyer, and if the Goods have been delivered but not paid for the price shall become immediately due and payable notwithstanding any previous agreement or arrangement to the contrary.

11 General

11.1 Any notice required or permitted to be given by either party to the other under these Conditions shall be in Writing addressed to that other party at its registered office or principal place of business or such other address as may at the relevant time have been notified pursuant to this provision to the party giving the notice.

11.2 No waiver by the Company of any breach of the Contract by the Buyer shall be considered as a waiver of any subsequent breach of the same or any other provision.

11.3 If any provision of these Conditions is held by any competent authority to be invalid or unenforceable in whole or in part the validity of the other provisions of these Conditions and the remainder of the provision in question shall not be affected thereby.

11.4 The Contract shall be governed by and construed in accordance with English law and all disputes arising in connection with it shall be submitted to the jurisdiction of the English Court.

11.5 The Contract is personal to the parties and shall not be assigned to any other third party without consent in Writing.

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