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Contents

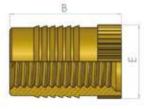
Fasteners for Plastic

Series No	Description	Page
Press Fit Inserts 20103 FL & HFL 20103 MS 20104 PI 20104 HPI	Press Fit & Headed (Thermoplastic) Press Fit (Thermoplastic) Press Fit Inserts (Thermoset) Headed Press Fit (Thermoset)	4 5 6 7
Screw Fit Inserts 20105 SC 20105 TC 20130 D 20131 E	Screw Fit (Plastic, Alloy & Composite) Screw Fit (Plastic, Alloy & Composite) Headed Screw Fit (Soft Thermoplastic) Screw Fit (Soft Thermoplastic)	8 9 10 11
Heat / Ultrasonic 20106 IS 20106 HIS 20108 HL 20108 TC	Fit Inserts Heat / Ultrasonic Fit (Thermoplastic) Headed Heat / Ultrasonic Fit (Thermoplastic) Heat Fit (Brittle Thermoplastic) Heat Fit Double Ended (Thermoplastic)	12 13 14 15
Over Moulding Ins 20109 DNT 20109 FT 20109 HXT - HXB	Moldcert Round Through Thread (Over Moulding) Moldcert Round Blind Thread (Over Moulding) Moldcert Hex Blind / Thro Thread (Over Moulding)	16 17 18
Expansion Inserts 20110 DMK 20110 DMR 20110 HDM 20110 PL	Expansion Fit (Thermoset) Reverse Headed Expansion Fit (Thermoset) Headed Expansion Fit (Thermoset) Press Fit Expansion (Thermoplastic)	19 20 21 22
Insert Studs 20106 ISS 20106 HSS	Heat / Ultrasonic Stud (Thermoplastic) Headed Heat / Ultrasonic Stud (Thermoplastic)	23 24
Thread Forming S 20210 20210	crews Polyplast30 Screws PZ Drive Polyplast30 Screws TX Drive	25 26
Rivet Nuts 30234 PN 30235 JK	PN Rivet Nuts (Thin Sheet Materials) JK Rivet Nuts (Thin Sheet Materials)	27 28
Chimney & Lug No 40114/40118	ots Chimney & Lug Nuts	29
Tooling 14001 HS	HS1000 Heat Staking Machine	30

Press Fit (Thermoplastic)

Series: 20103 Type: FL







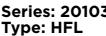


Part No	Thread	E	В	Hole +0.1	Min Wall
FL020H040	M2	3.7	4.0	3.2	1.6
FL025H048	M2.5	4.5	4.8	4.0	2.0
FL030H048	М3	4.5	4.8	4.0	2.0
FL035H064	M3.5	5.3	6.4	4.8	2.4
FL040H079	M4	6.1	7.9	5.6	2.8
FL050H095	M5	7.0	9.5	6.4	3.2
FL060H127	М6	8.6	12.7	8.0	4.0
FL080H127	М8	10.2	12.7	9.6	4.8

Headed Press Fit (Thermoplastic)







Part No	Thread	Е	E1	В	K	Hole +0.1	Min Wall
HFL020H044	M2	3.7	4.8	4.4	0.45	3.2	1.6
HFL025H053	M2.5	4.5	5.5	5.3	0.58	4.0	2.0
HFL030H053	M3	4.5	5.5	5.3	0.58	4.0	2.0
HFL035H071	M3.5	5.3	6.4	7.1	0.74	4.8	2.4
HFL040H088	M4	6.1	7.1	8.8	0.89	5.6	2.8
HFL050H106	M5	7.0	7.9	10.6	1.07	6.4	3.2
HFL060H140	M6	8.6	9.5	14.0	1.32	8.0	4.0
HFL080H140	M8	10.2	11.1	14.0	1.32	9.6	4.8

The FL and HFL range of inserts are designed for cold press fitting into thermoplastic. The combination of knurls and ribs on the body provide high torque and pull out performance. The headed HFL increases jack-out and pull through performance.

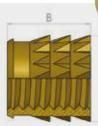
Material: Brass

Information is for guidance only and subject to change.

Press Fit (Thermoplastic)

Series: 20103 Type: MS









Information is for guidance only and subject to change.

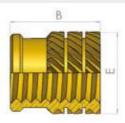
Part No	Thread	Е	В	Hole Dia	Min Wall
MS020H031	M2	3.5	3.1	3.0 - 3.3	1.4
MS020H042	M2	3.5	4.2	3.0 - 3.3	1.4
MS025H041	M2.5	4.3	4.1	3.7 - 4.0	1.7
MS025H052	M2.5	4.3	5.2	3.7 - 4.0	1.7
MS030H041	М3	4.3	4.1	3.7 - 4.0	1.7
MS030H052	М3	4.3	5.2	3.7 - 4.0	1.7
MS035H041	M3.5	5.3	4.1	4.6 - 5.0	2.2
MS035H070	M3.5	5.3	7.0	4.6 - 5.0	2.2
MS040H056	M4	6.3	5.6	5.4 - 5.9	2.5
MS040H085	M4	6.3	8.5	5.4 - 5.9	2.5
MS050H066	M5	7.05	6.6	6.0 - 6.5	2.9
MS050H101	M5	7.05	10.1	6.0 - 6.5	2.9
MS060H077	М6	8.65	7.7	7.7 - 8.2	3.2
MS060H123	M6	8.65	12.3	7.7 - 8.2	3.2
MS080H083	M8	11.0	8.3	10.2 - 10.6	4.2
MS080H138	M8	11.0	13.8	10.2 - 10.6	4.2

Type MS inserts have a coarse knurl pattern making them ideal for all types of thermoplastic. They can be inserted by heat, ultrasonic press or simply pressing into the boss.

Press Fit Inserts (Thermoset)

Series: 20104 Type: PI







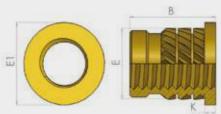
Information is for guidance only and subject to change.

Part No	Thread	Е	В	Hole Dia	Min Wall
PI020H040	M2	3.3	4.0	3.1	1.6
PI025H053	M2.5	4.2	5.3	3.8	2.0
PI030H053	M3	4.2	5.3	3.8	2.0
PI035H063	M3.5	5.0	6.3	4.6	2.5
PI040H074	M4	5.8	7.4	5.4	2.5
PI050H083	M5	6.6	8.3	6.2	2.5
PI060H092	М6	8.2	9.2	7.8	2.8
PI080H092	M8	9.7	9.2	9.3	3.8
PI100H092	M10	12.0	9.2	11.6	5.5

Type PI insert is designed to provide permanent, strong, reusable free running thread forms in Thermoset and other hard plastics. The three bands of sharp helical knurling ensure the insert broaches its way into the plastic whilst the debris packs the relief to ensure the insert locks in place providing high resistance to torque and pull out loads.

Headed Press Fit (Thermoset)

Series: 20104 Type: HPI





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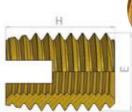
Part No	Thread A	Е	E1	K	В	Hole Dia	Min Wall
HPI020H046	M2	3.3	4.8	0.6	4.6	3.1	1.6
HPI025H059	M2.5	4.2	5.6	0.6	5.9	3.8	2.0
HPI030H059	M3	4.2	5.6	0.6	5.9	3.8	2.0
HPI035H071	M3.5	5.0	6.4	0.8	7.1	4.6	2.5
HPI040H082	M4	5.8	7.2	0.8	8.2	5.4	2.5
HPI050H093	M5	6.6	8.0	1.0	9.3	6.2	2.5
HPI060H105	M6	8.2	9.5	1.3	10.5	7.8	2.8
HPI080H105	M8	9.7	11.0	1.3	10.5	9.3	3.8
HPI100H105	M10	12.0	14.2	1.6	10.8	12.3	5.0

Type HPI insert is designed to provide permanent, strong, reusable free running thread forms in Thermoset and other hard plastics. The three bands of sharp helical knurling ensure the insert broaches its way into the plastic whilst the debris packs the relief to ensure the insert locks in place providing high resistance to torque and pull out loads. The head provides a surface bearing area to resist jack out or pull through loads.



Series: 20105 Type: SC







Information is for guidance only and subject to change.

Part No	Thread	E	Н	Hole Soft	Hole Hard	Hole Depth
SC025H04_	M2.5	4.0	4.0	3.7-3.8	3.8-3.9	5.0
SC025H06_	M2.5	4.5	6.0	4.0-4.1	4.1-4.2	8.0
SC030H05_	M3	5.0	5.0	4.7-4.8	4.8-4.9	7.0
SC030H06_	M3	5.0	6.0	4.5-4.6	4.6-4.7	8.0
SC035H06_	M3.5	6.0	6.0	5.3-5.4	5.5-5.6	8.0
SC035H08_	M3.5	6.0	8.0	5.3-5.4	5.5-5.6	10.0
SC040H07_	M4	6.5	7.0	5.8-5.9	6.0-6.1	9.0
SC040H08_	M4	6.5	8.0	5.8-5.9	6.0-6.1	10.0
SC050H08_	M5	8.0	8.0	7.1-7.2	7.3-7.5	10.0
SC050H10_	M5	8.0	10.0	7.1-7.2	7.3-7.5	13.0
SC060H10_	M6	9.0	10.0	8.1-8.2	8.3-8.5	12.0
SC060H12_	M6(A)	9.0	12.0	8.1-8.2	8.3-8.5	15.0
SC060H14_	M6	10.0	14.0	8.6-8.8	8.9-9.2	17.0
SC080H13_	M8	12.0	13.0	10.6-10.8	10.9-11.2	16.0
SC080H15_	M8	12.0	15.0	10.6-10.8	10.9-11.2	18.0
SC100H16_	M10	14.0	16.0	12.6-12.8	12.9-13.2	19.0
SC100H18_	M10	14.0	18.0	12.6-12.8	12.9-13.2	22.0
SC120H22_	M12	16.0	22.0	14.6-14.8	14.9-15.2	26.0
SC140H24_	M14	18.0	24.0	16.6-16.8	16.9-17.2	28.0
SC160H22_	M16	20.0	22.0	18.6-18.8	18.9-19.2	27.0
SC180H24_	M18	22.0	24.0	20.6-20.8	20.9-21.2	29.0
SC200H27_	M20	26.0	27.0	24.6-24.8	24.9-25.2	32.0
SC220H30_	M22	26.0	30.0	24.6-24.8	24.9-25.2	36.0
SC240H30_	M24	30.0	30.0	28.6-28.8	28.9-29.2	36.0
SC270H30_	M27	34.0	30.0	32.6-32.8	32.9-33.2	36.0
SC300H40_	M30	36.0	40.0	34.6-34.8	34.9-35.2	46.0

The SC inserts are available in a wide range of sizes and materials to suit many applications. The slotted, leading end helps to break away swarf during the tapping / insertion process.

Material: Brass code BR for use in plastic

Case Hardened Steel code CH for use in alloys

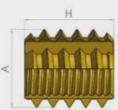
303 Stainless Steel code SS for corrosion resistance

To specify use Series/Part No/Material Code e.g. 20105 SC060H14BR



Series: 20105 Type: TC







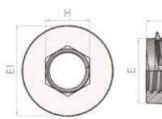
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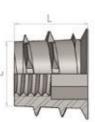
Part No	Thread	Н	Α	Hole Dia	Wall Min	Hole Depth Min	Style
TC020H040	M2	4.00	3.50	3.10	1.20	4.40	SHORT
TC020H048	M2	4.80	3.50	3.10	1.20	5.30	STANDARD
TC020H053	M2	5.25	3.50	3.10	1.20	5.80	LONG
TC025H040	M2.5	4.00	4.33	3.80	1.45	4.40	SHORT
TC025H053	M2.5	5.25	4.33	3.80	1.45	5.80	STANDARD
TC025H063	M2.5	6.25	4.33	3.80	1.45	6.90	LONG
TC030H040	M3	4.00	4.73	4.10	1.55	4.40	SHORT
TC030H053	M3	5.25	4.73	4.10	1.55	5.80	STANDARD
TC030H063	M3	6.25	4.73	4.10	1.55	6.90	LONG
TC035H050	M3.5	5.00	5.52	5.00	1.90	5.50	SHORT
TC035H062	M3.5	6.20	5.52	5.00	1.90	6.90	STANDARD
TC035H073	M3.5	7.30	5.52	5.00	1.90	8.10	LONG
TC040H056	M4	5.60	6.31	5.80	2.20	6.20	SHORT
TC040H071	M4	7.10	6.31	5.80	2.20	7.80	STANDARD
TC040H084	M4	8.40	6.31	5.80	2.20	9.30	LONG
TC050H064	M5	6.40	7.50	6.90	2.60	7.10	SHORT
TC050H084	M5	8.40	7.50	6.90	2.60	9.30	STANDARD
TC050H100	M5	10.0	7.50	6.90	2.60	11.0	LONG
TC060H079	M6	7.90	8.69	8.00	3.00	8.70	SHORT
TC060H098	M6	9.80	8.69	8.00	3.00	10.8	STANDARD
TC060H120	M6	12.0	8.69	8.00	3.00	13.2	LONG
TC080H095	M8	9.50	11.06	10.1	3.80	10.5	SHORT
TC080H124	M8	12.4	11.06	10.1	3.80	13.7	STANDARD
TC080H150	M8	15.0	11.06	10.1	3.80	16.5	LONG
TC100H120	M10	12.0	13.95	13.0	4.90	13.2	SHORT
TC100H160	M10	16.0	13.95	13.0	4.90	17.6	STANDARD
TC100H180	M10	18.0	13.95	13.0	4.90	19.8	LONG

The TC insert is a self-tapping insert with a solid body. The tapping function is aided by the cutting flutes on the external thread. These inserts can be used in a variety of materials and are double ended to speed up assembly times.

Headed Screw Fit (Soft Thermoplastic)

Series: 20130 Type: D







Information is for guidance only and subject to change.

Part No	Thread	L	Hole	E	E1	Н
M410	M4	10.0	5.7 / 6.0	5.5	7.8	4.0
M507	M5	7.0	7.7 / 8.0	7.1	11.5	5.0
M510	M5	10.0	7.7 / 8.0	7.1	11.5	5.0
M513	M5	13.0	7.7 / 8.0	6.6	11.5	5.0
M520	M5	20.0	7.7 / 8.0	7.0	11.5	5.0
M610	M6	10.0	8.7 / 9.0	8.0	12.5	6.0
M613	M6	13.0	8.7 / 9.0	7.5	12.5	6.0
M616	M6	16.0	8.7 / 9.0	7.5	12.5	6.0
M620	M6	20.0	8.7 / 9.0	7.5	12.5	6.0
M625	М6	25.0	8.7 / 9.0	8.0	12.5	6.0
M813	M8	13.0	10.7 / 11.0	9.5	14.5	8.0
M820	M8	20.0	10.7 / 11.0	9.5	14.5	8.0
M825	M8	25.0	10.7 / 11.0	9.5	14.5	8.0
M1013	M10	13.0	12.2 / 12.25	11.5	16.0	10.0
M1025	M10	25.0	12.2 / 12.25	11.5	16.0	10.0

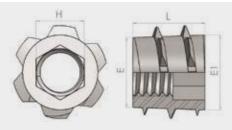
Type D Inserts are die cast, self-tapping inserts with a hexagon drive. The coarse thread makes them ideal for soft materials. The thin head provides a large surface area and will screw flush with the material surface.

Material: Zamac

Finish: Zinc & Clear Passivate

Screw Fit (Soft Thermoplastic)

Series: 20131 Type: E





Information is for guidance only and subject to change.

Part No	Thread	L	Hole	Е	E1	н
M410	M4	10.0	5.7 / 6.0	5.5	7.3	4.0
M513	M5	13.0	7.7 / 8.0	6.7	10.9	5.0
M610	M6	10.0	8.7 / 9.0	7.5	12.0	6.0
M613	M6	13.0	8.7 / 9.0	7.5	11.5	6.0
M620	M6	20.0	8.7 / 9.0	7.7	11.7	6.0
M813	M8	13.0	10.7 / 11.0	9.5	14.2	8.0
M820	M8	20.0	10.7 / 11.0	9.5	14.3	8.0
M825	M8	25.0	10.7 / 11.0	10.5	14.3	8.0

Type E Inserts are die cast, self-tapping inserts with a hexagon drive. The coarse thread makes them ideal for soft materials. They have no head allowing them to be screwed below the surface of the material.

Material: Zamac

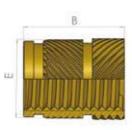
Finish: Zinc & Clear Passivate



Heat / Ultrasonic Fit (Thermoplastic)

Series: 20106 Type: IS







Information is for guidance only and subject to change.

Part No	Thread	Ext. Diam. E	Length B	Hole dia. L+0.1	Min Wall W
IS020H040	M2	3.6	4.0	3.2	2.0
IS025H040	M2.5	4.6	4.0	4.0	2.3
IS025H058	M2.5	4.6	5.8	4.0	2.3
IS030H040	M3	4.6	4.0	4.0	2.3
IS030H058	M3	4.6	5.8	4.0	2.3
IS035H058	M3.5	5.4	5.8	4.8	2.5
IS035H072	M3.5	5.4	7.2	4.8	2.5
IS040H047	M4	6.3	4.7	5.6	2.5
IS040H058	M4	6.3	5.8	5.6	2.5
IS040H082	M4	6.3	8.2	5.6	2.5
IS050H082	M5	7.0	8.2	6.4	2.7
IS050H095	M5	7.0	9.5	6.4	2.7
IS060H095	M6	8.6	9.5	8.0	3.0
IS060H127	M6	8.6	12.7	8.0	3.0
IS080H095	M8	10.2	9.5	9.6	3.5
IS080H127	M8	10.2	12.7	9.6	3.5
IS100H095	M10	12.3	9.5	11.9	4.0
IS100H127	M10	12.3	12.7	11.9	4.0

The IS range of inserts can be installed with heat or ultrasonics. They are designed to provide strong, reusable thread forms in Thermoplastic materials. The unique opposing helix knurl provides exceptional resistance to torque and tensile (pull out) loads. They are suitable for all thermoplastics.

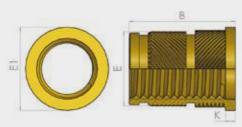
Material: Brass

Stainless steel or nickel plated available by

special order.

Headed Heat / Ultrasonic Fit (Thermoplastic)

Series: 20106 Type: HIS





Information is for guidance only and subject to change.

Part No	Thread	Е	E1	K	В	Hole +0.1	Min Wall
HIS020H046	M2	3.6	4.8	0.6	4.6	3.2	2.0
HIS025H064	M2.5	4.6	5.6	0.6	6.4	4.0	2.3
HIS030H064	M3	4.6	5.6	0.6	6.4	4.0	2.3
HIS035H080	M3.5	5.4	6.4	0.8	8.0	4.8	2.5
HIS040H090	M4	6.3	7.2	0.8	9.0	5.6	2.5
HIS050H105	M5	7.0	8.0	1.0	10.5	6.4	2.7
HIS060H140	M6	8.6	9.5	1.3	14.0	8.0	3.0
HIS080H140	M8	10.2	11.0	1.3	14.0	9.6	3.5
HIS100H140	M10	12.3	14.0	1.3	14.0	11.9	4.0

The HIS range of inserts can be installed with heat or ultrasonics. They are designed to provide strong, reusable thread forms in Thermoplastic materials. The unique, diametrically opposing helix knurls create the herringbone pattern which provides exceptional resistance to torque loads and facilitates the flow of plastic into the two recessed grooves, providing greater pull out loads than alternative designs. This headed version provides a larger clamping surface to prevent jack out.

Material: Brass

Stainless steel or nickel plated available by special order.

Heat Fit (Brittle Thermoplastic)

Series: 20108 Type: HL





Information is for guidance only and subject to change.

Part No	Thread	Е	В	Hole +0.1	Min Wall
HL020H040	M2	3.5	4.0	3.2	1.5
HL025H058	M2.5	4.4	5.8	4.0	1.8
HL030H058	M3	4.4	5.8	4.0	1.8
HL035H072	M3.5	5.2	7.2	4.8	2.2
HL040H082	M4	6.0	8.2	5.6	2.5
HL050H095	M5	6.8	9.5	6.4	3.0
HL060H127	М6	8.4	12.7	8.0	3.5
HL080H127	M8	10.0	12.7	9.6	4.5
HL100H127	M10	12.3	12.7	11.9	5.5

HL inserts provide a strong female threaded fixing in Polycarbonate and other "notch sensitive" brittle materials. These plastics often suffer from stress fractures from screws or inserts with sharp edges causing "hoop stress". The specially designed knurl has no sharp edges which reduce the possibility of hoop stress.

Heat Fit Double Ended (Thermoplastic)

Series: 20108 Type: TC





Information is for guidance only and subject to change.

Part No	Thread	Е	В	Hole +0.1	Min Wall
TC020H040	M2	3.5	4.0	3.2	1.3
TC025H058	M2.5	4.4	5.7	4.0	1.6
TC030H057	M3	4.4	5.7	4.0	1.6
TC035H071	M3.5	5.2	7.1	4.8	1.8
TC040H082	M4	6.1	8.2	5.6	2.1
TC050H095	M5	6.8	9.5	6.4	2.6
TC060H127	М6	8.5	12.7	8.0	3.3
TC080H127	M8	10.0	12.7	9.6	4.5

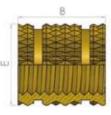
The TC range of inserts are designed for heat or ultrasonic fitting into thermoplastic. They are double ended which eliminates the need for orientation making them ideal for automatic assembly machines when used in high volume applications.



Moldcert Round Through Thread (Over Moulding)

Series: 20109 Type: DNT







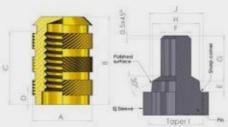
Information is for guidance only and subject to change.

Part No	Thread	E	В
DNT020H039	M2	3.4	3.92
DNT025H047	M2.5	4.15	4.72
DNT030H047	M3	4.15	4.72
DNT035H059	M3.5	5.0	5.87
DNT040H071	M4	5.9	7.12
DNT050H078	M5	6.6	7.82
DNT060H100	M6	9.25	9.92
DNT060H144	M6	9.25	14.40
DNT080H125	M8	11.5	12.47
DNT100H140	M10	13.9	13.97
DNT120H140	M12	16.3	13.97

The DNT range of inserts are designed for over moulding and can be used in all types of moulding processes. They are located on a plain pin in the mould tool and the large wall thickness allows the tool faces to clamp on either end providing a flush finish. The coarse knurl and grooves provide excellent rotational and pull out resistance.

Moldcert Round Blind Thread (Over Moulding)

Series: 20109 Type: FT





Part No	Thread	A	В	С	D	E +/- 0.025	F - 0.025	G +/- 0.1	H +/- 0.0125	l Taper°	J
FT020H054	M2	3.4	5.5	3.6	1.0	0.80	1.55	2.65	2.300	6.0	3.0
FT025H063	M2.5	4.3	6.4	4.0	1.2	0.90	2.00	3.00	2.800	5.0	3.5
FT030H072	M3	4.7	7.3	4.6	1.3	1.05	2.45	3.40	3.125	4.5	4.0
FT035H090	M3.5	5.5	9.2	6.0	1.6	1.30	2.85	4.55	3.750	4.5	4.7
FT040H100	M4	6.3	10.2	6.7	1.8	1.55	3.25	5.00	4.425	4.5	5.4
FT050H110	M5	7.3	11.2	7.4	2.0	1.70	4.15	5.55	5.125	5.0	6.0
FT060H143	M6	9.8	14.4	8.1	2.0	1.80	4.95	6.15	6.600	5.5	8.0
FT080H160	M8	11.4	16.5	11.1	2.3	2.00	6.70	9.00	8.500	6.0	10.0
FT100H177	M10	13.8	17.9	11.9	2.4	2.10	8.40	9.70	10.500	6.0	12.0

FT Type inserts are designed for over moulding into thermoplastic or thermoset materials. The unique design of 3 herringbone knurl bands combined with the recesses offer excellent rotational and pull out performance. The open end has a counter bore which locates onto a shouldered pin within the tool to eliminate plastic ingress into the threads.

Moldcert Hex Blind / Through Thread (Over Moulding)

Series: 20109 Type: HXT - HXB







HXT



Information is for guidance only and subject to change.

Part No	Thread	A/F	В	С
HX_030905	M3	5.0	8.5	6.0
HX_040906	M4	6.0	8.5	6.0
HX_051008	M5	8.0	10.0	7.0
HX_051908	M5	8.0	19.0	15.0
HX_061510	M6	10.0	15.0	11.0
HX_061910	M6	10.0	19.0	15.0
HX_081912	M8	12.0	19.0	15.0
HX_101914	M10	14.0	19.0	15.0
HX_121914	M12	14.0	19.0	15.0
HX_141916	M14	16.0	19.0	15.0
HX_161918	M16	18.0	19.0	15.0

HXB and HXT Moldcerts are suitable for moulding into all types of plastic material during the moulding cycle. They are available with blind or through threads (HXB or HXT). The hexagon body gives very high torque resistance even in soft materials.

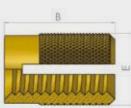
Material: Brass

Stainless Steel 303 (code SS) Special Order Only Specials also available subject to MOQ and lead times.

Expansion Fit (Thermoset)

Series: 20110 Type: DMK







Information is for guidance only and subject to change.

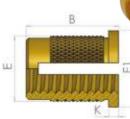
Part No	Thread	Е	В	Min Wall	Hole Dia
DMK020H040	M2	3.45	4.0	2.4	3.2 - 3.3
DMK025H048	M2.5	4.20	4.8	3.2	4.0 - 4.1
DMK030H048	М3	4.20	4.8	3.2	4.0 - 4.1
DMK035H064	M3.5	5.00	6.4	3.6	4.7 - 4.8
DMK040H080	M4	5.83	8.0	4.0	5.5 - 5.6
DMK050H095	M5	6.60	9.5	4.8	6.3 - 6.4
DMK060H127	М6	8.30	12.7	6.0	7.9 - 8.0
DMK080H127	M8	9.90	12.7	7.0	9.5 - 9.6

DMK inserts are designed to provide strong reusable threads in thermoset and other hard plastics. On installation, the insert collapses as it is pushed into the receiving hole. Insertion of the screw expands the sharp diamond points of the knurl into the surface of the hole and penetrates the plastic. This provides a high resistance to torque and pull out loads. They can also be used in solid and hardcore laminates.

Reverse Headed Expansion Fit (Thermoset)

Series: 20110 Type: DMR







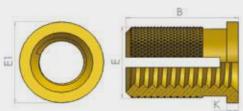
Information is for guidance only and subject to change.

Part No	Thread	E	В	E1	K	Min Wall	Hole Dia
DMR020H040	M2.0	3.45	4.00	4.80	0.60	2.40	3.2 - 3.3
DMR025H048	M2.5	4.20	4.80	5.60	0.60	2.80	4.0 - 4.1
DMR030H048	M3.0	4.20	4.80	5.60	0.60	3.20	4.0 - 4.1
DMR035H064	M3.5	5.00	6.40	6.40	0.80	3.60	4.7 - 4.8
DMR040H080	M4.0	5.85	8.00	7.20	0.80	4.00	5.5 - 5.6
DMR050H095	M5.0	6.60	9.50	8.00	1.00	4.80	6.3 - 6.4
DMR060H127	M6.0	8.30	12.70	9.50	1.30	6.00	7.9 - 8.0
DMR080H127	M8.0	9.90	12.70	11.00	1.30	6.00	9.5 - 9.6

DMR inserts are designed to provide strong reusable threads in thermoset and other hard plastics. On installation, the insert collapses as it is pushed into the receiving hole. Insertion of the screw expands the sharp diamond points of the knurl into the surface of the hole and penetrates the plastic. This provides a high resistance to torque and pull out loads. The DMR has a slot through the head. The screw is meant to enter the insert from the opposite side to the head. The head therefore gives additional resistance to pull-through loads.

Headed Expansion Fit (Thermoset)

Series: 20110 Type: HDM





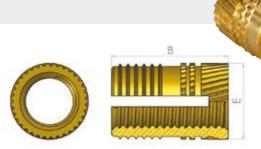
Information is for guidance only and subject to change.

Part No.	Thread	Е	В	E1	K	Min Wall	Hole Dia
HDM020H040	M2	3.45	4.0	4.8	0.5	2.4	3.2
HDM025H048	M2.5	4.20	4.8	5.5	0.5	2.8	4.0
HDM030H048	M3	4.20	4.8	5.5	0.6	3.2	4.0
HDM035H064	M3.5	5.00	6.4	6.4	0.8	3.6	4.8
HDM040H080	M4	5.85	8.0	7.1	1.0	4.0	5.6
HDM050H095	M5	6.60	9.5	7.9	1.0	4.8	6.4
HDM060H126	M6	8.30	12.6	9.5	1.3	6.0	8.0
HDM080H126	M8	9.90	12.6	11.1	1.3	6.0	9.6

HDM inserts are designed to provide strong reusable threads in most plastics including thermoset. On installation, the insert collapses as it is pushed into the receiving hole. Insertion of the screw expands the sharp diamond points of the knurl into the surface of the hole and penetrates the plastic. This provides a high resistance to torque and pull-out loads. The HDM has a slot through the body, the screw is meant to enter the insert through the head. The head therefore gives additional resistance to jack out loads, where the through hole in the mating component is larger than the traditional smaller diameter, non-headed inserts.

Press Fit Expansion (Thermoplastic)

Series: 20110 Type: PL





Information is for guidance only and subject to change.

Part No	Thread	Е	В	Hole +0.1	Min Wall
PL020H040	M2	3.7	4.0	3.2	1.6
PL025H058	M2.5	4.5	5.8	4.0	2.0
PL030H058	М3	4.5	5.8	4.0	2.0
PL035H072	M3.5	5.3	7.2	4.8	2.4
PL040H082	M4	6.2	8.2	5.6	2.8
PL050H095	M5	6.9	9.5	6.4	3.2
PL060H127	М6	8.5	12.7	8.0	4.0
PL080H127	M8	10.1	12.7	9.6	4.8

The PL range of inserts provide a thread locking feature as the screw expands the insert although this does increase the driving torque of the screw. The knurled body provides high torque and pull out performance. They should be installed using a squeezing action to avoid damaging the boss and the screw must pass through the insert to ensure maximum expansion.



Series: 20106 Type: ISS





Information is for guidance only and subject to change.

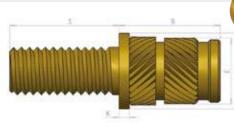
Part No	Thread	Е	В	S	Hole 0.1	Min Wall
ISS020L	M2	3.6	4.0	6 - 16	3.2	2.0
ISS025L	M2.5	4.6	5.8	6 - 16	4.0	2.3
ISS030L	M3	4.6	5.8	6 - 16	4.0	2.3
ISS035L	M3.5	5.4	7.2	6 - 25	4.8	2.5
ISS040L	M4	6.3	8.2	6 - 25	5.6	2.5
ISS050L	M5	7.0	9.5	6 - 25	6.4	2.7
ISS060L	M6	8.6	12.7	6 - 25	8.0	3.0
ISS080L	M8	10.2	12.7	10 - 25	9.6	3.5

The ISS range of inserts can be installed with heat or ultrasonics. They are designed to provide strong reusable male thread form in thermoplastic materials. The unique, diametrically opposing helix knurls create the herringbone pattern which provides exceptional resistance to torque & tensile loads compared to other designs.



Headed Heat / Ultrasonic Stud (Thermoplastic)

Series: 20106 Type: HSS





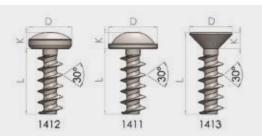
Information is for guidance only and subject to change.

Part No.	Thread	Е	E1	K	В	s	Hole +0.1	Min Wall
HSS020L_	M2	3.6	4.8	0.6	4.6	6 - 16	3.2	2.0
HSS025L_	M2.5	4.6	5.6	0.6	6.4	6 - 16	4.0	2.3
HSS030L_	М3	4.6	5.6	0.6	6.4	6 - 16	4.0	2.3
HSS035L_	M3.5	5.4	6.4	0.8	8.0	6 - 25	4.8	2.5
HSS040L_	M4	6.3	7.2	0.8	9.0	6 - 25	5.6	2.5
HSS050L_	M5	7.0	8.0	1.0	10.5	6 - 25	6.4	2.7
HSS060L_	M6	8.6	9.5	1.3	14.0	6 - 25	8.0	3.0
HSS080L_	M8	10.2	11.0	1.3	14.0	10 - 25	9.6	3.5

The HSS range of inserts can be installed with heat or ultrasonics. They are designed to provide strong reusable male thread form in thermoplastic materials. The unique diametrically opposing helix knurls create the herringbone pattern which provides exceptional resistance to torque & tensile loads compared to other designs. This headed version provides a larger clamping surface to prevent jack out.

Polyplast 30 Thread Forming Screw PZ Drive (Thermoplastic)

Series: 20210





Information is for guidance only and subject to change.

Code	Thread Ø	1412		1411		1413	
		D	K	D	K	D	K
KB22	2.2	3.9	1.5	4.4	1.6	3.8	1.30
KB25	2.5	4.4	1.7	5.0	1.8	4.7	1.75
KB30	3.0	5.3	2.0	6.0	2.1	5.5	2.05
KB35	3.5	6.1	2.5	7.0	2.4	7.3	2.80
KB40	4.0	7.0	2.7	8.0	2.5	8.4	3.25
KB50	5.0	8.8	3.4	10.0	3.2	9.3	3.40
KB60	6.0	10.5	4.0	12.0	4.0	11.3	3.80

Thread	5	6	8	10	12	14	16	18	20	25	30
KB22											
KB25											
KB30											
KB35											
KB40											
KB50											
KB60											

Usually Available From Stock
Special Order Only

Polyplast30 Screws have a special thread profile with a 30° flank angle which has been proven to outperform any other thread form in plastic. Rather than cutting material away like traditional screws the substrate material flows between the flanks providing up to ten times reusability before loss of performance.

To Specify Use: Series/head code/thread/length/finish

e.g. 20210/1412/KB40/16/6

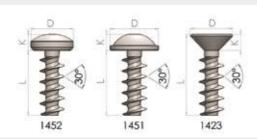
Material: Steel Zinc & Clear Passivate (Cr3) Code 6

Stainless Steel Self Colour Code S

Special sizes and finishes available subject to MOQ.

Polyplast 30 Thread Forming Screw TX Drive (Thermoplastic)

Series: 20210





Information is for guidance only and subject to change.

Code	Thread Ø	1452		1451		1423	
		D	K	D	K	D	K
K22	2.2	4.0	1.5	4.5	1.4	3.8	1.30
K25	2.5	4.2	1.6	5.0	1.5	4.7	1.75
K30	3.0	5.6	2.1	6.0	2.1	5.5	2.05
K35	3.5	6.9	2.3	7.0	2.4	7.3	2.80
K40	4.0	7.5	2.6	8.0	2.6	8.4	3.25
K50	5.0	8.2	2.9	10.0	3.3	9.3	3.40
K60	6.0	10.8	3.8	12.0	3.6	11.3	3.80

Thread	5	6	8	10	12	14	16	18	20	25	30
K22											
K25											
K30											
K35											
K40											
K50											
K60											

Legend
Usually Available From Stock
Special Order Only

Polyplast30 Screws have a special thread profile with a 30° flank angle which has been proven to outperform any other thread form in plastic. Rather than cutting material away like traditional screws the substrate material flows between the flanks providing up to ten times reusability before loss of performance.

To Specify Use: Series/head code/thread/length/finish

e.g. 20210/1412/KB40/16/6

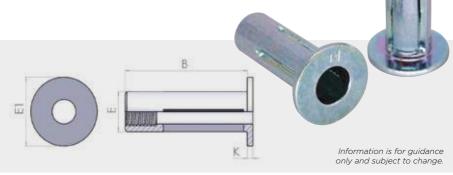
Material: Steel Zinc & Clear Passivate (Cr3) Code 6

Stainless Steel Self Colour Code S

Special sizes and finishes available subject to MOQ.



Series: 30234 Type: PN



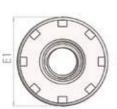
Part No	Thread	Panel	Е	E1	В	K	Hole
PN04P3.8	M4	0.5 - 3.8	6.12	11.1	16.7	0.96	6.13 - 6.25
PN04P6.9	M4	3.8 - 6.9	6.12	11.1	19.8	0.96	6.13 - 6.25
PN05P4.5	M5	0.5 - 4.5	7.47	12.7	21.0	0.96	7.48 - 7.62
PN05P8.1	M5	4.5 - 8.1	7.47	12.7	24.0	0.96	7.48 - 7.62
PN06P7.1	M6	0.5 - 7.1	8.79	15.9	25.4	1.5	8.80 - 8.93
PN06P12.7	M6	7.1 - 12.7	8.79	15.9	31.3	1.5	8.80 - 8.93
PN08P7.1	M8	0.5 - 7.1	11.1	19.0	29.0	1.57	11.11 - 11.50
PN08P12.7	M8	7.1 - 12.7	11.1	19.0	35.0	1.57	11.11 - 11.50
PN10P7.1	M10	0.5 - 7.1	13.06	22.2	31.0	2.24	13.07 - 13.26
PN10P12.7	M10	7.1 - 12.7	13.06	22.2	36.5	2.24	13.07 - 13.26

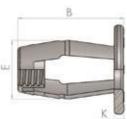
PN Nuts are a specialised rivet nut with a slotted body designed specifically for use in soft thin sheet materials. The slots enable the body to split into four arms at 90° in the setting process to provide a large load-bearing surface area and excellent pull-out performance. They have a very wide grip range making them suitable for a variety of applications.

Material: Mild Steel

Finish: Zinc Clear Passivate Cr3









Information is for guidance only and subject to change.

Part No.	Thread	Panel	E	E1	В	K	Hole Dia
M04SN	M4	0 - 5.0	8.0	12.2	16.8	1.9	8.4
M04LN	M4	5.0 - 10.0	8.0	12.2	22.0	1.9	8.4
M05SN	M5	0 - 5.0	10.0	14.0	18.4	1.9	10.1
M05LN	M5	5.0 - 10.0	10.0	14.0	23.2	1.9	10.1
M06SN	M6	0 - 5.0	11.0	16.0	18.6	1.9	11.4
M06LN	М6	5.0 - 10.0	11.0	16.0	22.9	1.9	11.4



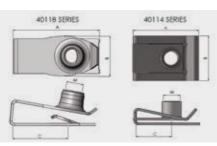
JK Nuts provide a captive female thread in all types of thin sheet materials. The wide panel range makes them very versatile, particularly in materials where the thickness can vary such as rotational mouldings. They are crimped with an air tool or a manual tool can also be used for small volume applications. Call our sales office for advice on the best tool.

Material: Mild Steel

Finish: Zinc Clear Passivate Cr3

Chimney & Lug Nuts

Series: 40114 - 40118





Information is for guidance only and subject to change.

Part No.	Thread M	Α	В	С	Panel
40118 050019	M5	19	13	11.5	0.6-3.8
40118 060023	М6	23	14	13.5	0.8-4.0
40118 060023L	M6 LOCK	23	14	13.5	0.8-4.0
40118 080025	M8	24.5	16.5	14.5	0.8-4.0
40114 M4	M4	15	10	7.3	1.5-4.0
40114 M5	M5	20.5	14	10	0.5-4.0
40114 M6	M6	23.6	16	11	0.5-4.0
40114 M8	M8	24.3	17	13	0.5-4.0

Chimney and Lug Nuts offer a quick fastening solution for thin sheet meterials. They clip over the panel edge or into a cut out profile to offer a strong female thread. Some sizes are available with a prevailing torque (self-locking) thread. The 40118 series are for heavier duty applications.

Material: Spring Steel C67S





Series: 14001 Type: HS1000



 $.CE_{Approved}$

- 240V supply
- Stakes inserts M1.4 M8
- Easy to operate
- LED readout

Information is for guidance only and subject to change.

The HS1000 Heat Staking machine is designed to install HSL's range of threaded inserts with thread sizes between M1.4 and M8. The machine has a stroke of 55mm and an operating temperature of up to 400°C which is suitable for most applications. The temperature is easily set and monitored through the LED readout on the controller. The machine is more suited to low volume applications such as short production runs or prototype and development work. If you have a requirement for a fully automated installation machine please call our sales office for more information.

Other Products in Our Range



Sheet Metal Fasteners

We have an extensive range of fasteners for sheet metal applications. These include self-clinching nuts, studs and stand-offs, rivet nuts, rivet bushes and CD weld studs. Contact our sales office for our latest catalogue or download it from our website.



Spring Steel & Plastic Fasteners

Perfect for working with thin panels & trim in all materials, providing a quick and cost effective fastening solution. Our range of threaded and nonthreaded fasteners have numerous applications.



Compression Limiters

Compression Limiters are plain bushes used to reinforce bosses or mouldings when under high clamping loads. They can be over moulded or inserted after the moulding process. The combination of knurls and grooves in the body provide good retention in the moulding. They are manufactured in a range of materials and finishes to best suit the application and are usually made to order due to the variety of lengths and diameters.



Turned & Machined Components

Special turned parts can be made to your drawing or alternatively we can help develop new parts with the help of our in house design service which is covered by our ISO 9001:2015 quality approval. We work in all materials and manufacture small or large batch sizes. Our modern equipment produces the highest quality components at very competitive prices.





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making the right connection