




FASTENERS FOR PLASTIC

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Edition 12

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Conversion Table

TR Insert Range		PSM Insert Range	
Part No	Description	Part No	Description
UHBRHE	Heat Sert	HL	Heat Lok
HDBRHE	Headed Heat Sert	HLH	Headed Heat Lok
UHBRBR	Broaching Sert	SP	Spiro
HDBRBR	Headed Broaching Sert	HSR	Headed Spiro
UHBRTH	Thread Sert	SCT	Screw Sert
HDBRTH	Headed Thread Sert	HSCT	Headed Screw Sert
UHBRXP	Expansion Sert	N41	Banc Lok
HDBRXP	Headed Expansion Sert	N42	Headed Banc Lok
RVBRXP	R/Headed Expansion Sert	N42R	R/Headed Banc Lok
UHBRSO	Sonic Sert	SL	Sonic Lok
HDBRSO	Headed Sonic Sert	SHK	Headed Sonic Lok
UHBRTE	Tech Sert	TEC	Tech-Sonic
UHBRFI	Fin Sert	FL	Fin-Lok
HDBRFI	Headed Fin Sert	FLH	Headed Fin-Lok
UHBRPR	Press Sert	PLK	Press Lok
UHBRFL	Flow Sert	FTC	Flo Tech

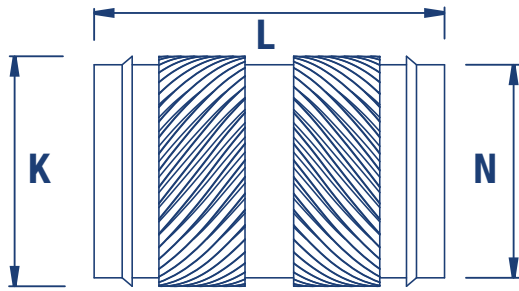
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Note: PSM codes are made up of Product 1st, Material type 2nd and Diameter 3rd

Example: An alternative to a PSM Headed Sonic Lok, M3 in Brass. PSM code SHK-B-M3. The TR alternative would be M3 - HDBRSO



Tech-Sert™ Unheaded (UHB RTE)



Dimensions (Metric)

Brass/Self Colour

Thread size	M2	M2.5	M3	M3.5	M4	M5	M6	M8	M10
L mm	4.0	5.7	5.7	7.1	8.1	9.5	12.7	12.7	12.7
K mm	3.5	4.4	4.4	5.2	6.1	6.8	8.5	10.0	12.3
N mm	3.1	3.9	3.9	4.7	5.5	6.3	7.9	9.5	11.8
Recommended Hole Size mm (-0.0/+0.1)	3.2	4.0	4.0	4.8	5.6	6.4	8.0	9.6	11.9
Minimum Wall Thickness mm	1.3	1.6	1.6	1.8	2.1	2.6	3.3	4.5	6.0

Tech-Sert™ information for designers

The Tech-Sert™ has been designed for post mould installation into thermoplastics using heat or ultrasonics with the opposing knurls and vanes providing high levels of pull out and torque resistance. The symmetrical design means the insert can be installed either way round which allows for automated installation.

Advantages:

- Rapid installation
- Symmetrical design for automated installation
- Allows for thin walls in the boss
- High pull out and torque resistance

Installation Data

The Tech-Sert™ is installed using either heat or ultrasonics.

Heat Installation

Where heat is used you must ensure that the insert softens, but does not melt the plastic, which helps avoid flash forming around the top of the insert.

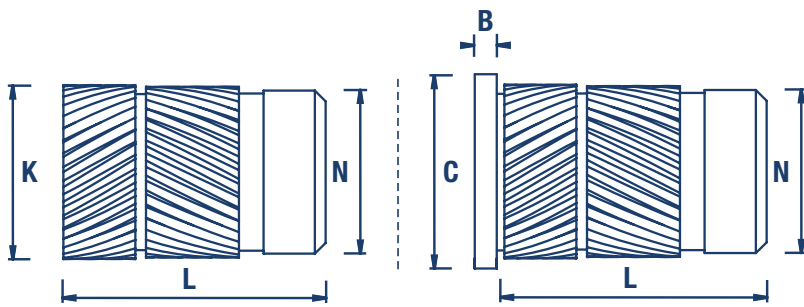
Ultrasonic Installation

Ultrasonic installation works best with low amplitude vibrations and enough power to soften the surrounding plastic.

Care should be taken to avoid excessive downward pressure being applied during installation which can result in the insert being forced into the hole rather than allowing the plastic to soften around it.



Sonic Sert-Sert™ Unheaded (UHBRSO) Headed (HDBRSO)



Dimensions (Metric)

Brass/Self Colour

Thread size	M2	M2.5	M3	M3.5	M4	M5	M6	M8	M10
L mm	4.0	5.7	5.7	7.1	8.2	9.5	12.7	12.7	12.7
K mm	3.6	4.6	4.6	5.4	6.3	7.1	8.7	10.2	12.6
B mm	0.53	0.61	0.61	0.76	0.91	1.09	1.35	1.35	1.60
C mm	4.8	5.5	5.5	6.4	7.1	7.9	9.5	11.1	14.0
N mm	3.1	3.9	3.9	4.7	5.5	6.3	7.9	9.5	11.8
Recommended Hole Size mm (-0.0/+0.1)	3.2	4.0	4.0	4.8	5.6	6.4	8.0	9.6	11.9
Minimum Wall Thickness mm	1.3	1.6	1.6	1.8	2.1	2.6	3.3	4.5	6.0

Tech-Sert™ information for designers

The Sonic-Sert™ has been designed for post mould installation into thermoplastics using heat or ultrasonics with the opposing knurls providing a combination of high pull out and torque resistance.

Advantages:

- Rapid installation
- Allows for thin walls in the boss
- High pull out and torque resistance

Installation Data

The Sonic-Sert™ is installed using either heat or ultrasonics.

Heat Installation

Where heat is used you must ensure that the insert softens, but does not melt the plastic, which helps avoid flash forming around the top of the insert.

Ultrasonic Installation

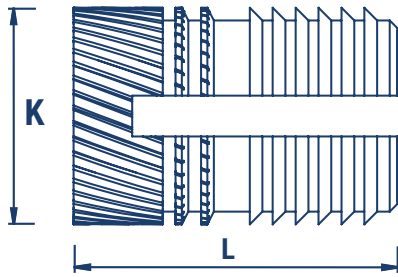
Ultrasonic installation works best with low amplitude vibrations and enough power to soften the surrounding plastic.

Care should be taken to avoid excessive downward pressure being applied during installation which can result in the insert being forced into the hole rather than allowing the plastic to soften around it.

Stud versions available on request.



Press-Sert™ Unheaded (UHBRPR)



Dimensions (Metric)

Brass/Self Colour

Thread size	M2	M2.5	M3	M3.5	M4	M5	M6	M8
L mm	4.0	5.8	5.8	7.2	8.2	9.5	12.7	12.7
K mm	3.7	4.5	4.5	5.3	6.2	6.9	8.5	10.1
Recommended Hole Size mm (-0.0/+0.1)	3.2	4.0	4.0	4.8	5.6	6.4	8.0	9.6
Minimum Wall Thickness mm	1.6	2.0	2.0	2.4	2.8	3.2	4.0	4.8

Press-Sert™ information for designers

The Press-Sert™ is a press-in insert, designed for post mould installation into thermoplastics. The combination of plain and knurled vanes provides good levels of pull out and torque resistance.

Advantages:

- Simple, press-in installation
- Provides self-locking action on mating screw
- Good pull out and torque resistance

Installation Data

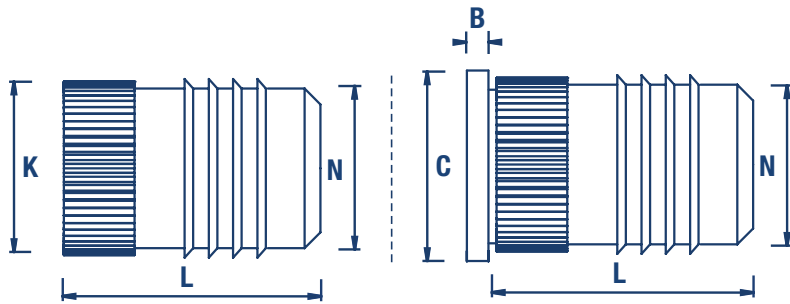
The Press-Sert™ should be installed with a press that can provide a steady squeezing action to prevent damage to the mating boss.

The mating screw should always be installed into the knurled end of the insert to allow it to expand. It is important that the screw fully penetrates the insert to achieve full expansion and optimum pull-out resistance.

Press-Sert™ inserts should not be used in notch-sensitive plastics.



Fin-Sert™ Unheaded (UHBRFI) Headed (HDBRFI)



Dimensions (Metric)

Brass/Self Colour

Thread size	M2	M2.5	M3	M3.5	M4	M5	M6	M8
L mm	4.0	4.8	4.8	6.4	7.9	9.5	12.7	12.7
K mm	3.7	4.5	4.5	5.3	6.1	7.0	8.6	10.2
B mm	0.45	0.58	0.58	0.74	0.89	1.07	1.32	1.32
C mm	4.8	5.5	5.5	6.4	7.1	7.9	9.5	11.1
N mm	3.1	3.9	3.9	4.7	5.5	6.3	7.9	9.5
Recommended Hole Size mm (-0.0/+0.1)	3.2	4.0	4.0	4.8	5.6	6.4	8.0	9.6
Minimum Wall Thickness mm	1.6	2.0	2.0	2.4	2.8	3.2	4.0	4.8

Fin-Sert™ information for designers

The Fin-Sert™ is a press-in insert, designed for post mould installation into thermoplastics. The combination of fins and knurls provides good levels of pull out and torque resistance.

Advantages:

- Simple, press-in installation
- Free running female thread
- Good pull out and torque resistance

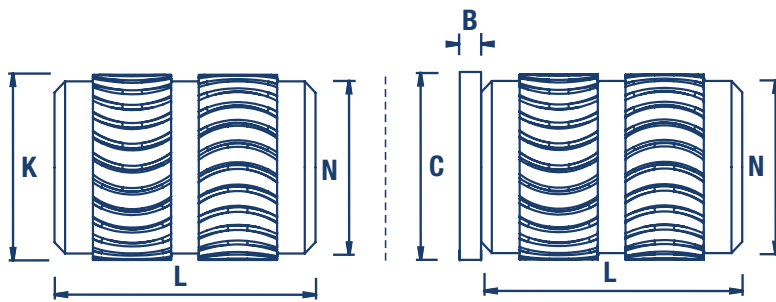
Installation Data

The Fin-Sert™ should be installed with a press that can provide a steady squeezing action to prevent damage to the mating boss.

Stud versions available on request.



Heat-Sert™ Unheaded (UHBRHE) Headed (HDBRHE)



Dimensions (Metric)

Brass/Self Colour

Thread size	M2	M2.5	M3	M3.5	M4	M5	M6	M8
L mm	3.9	5.8	5.8	7.1	8.1	9.5	12.7	12.7
K mm	3.5	4.4	4.4	5.2	6.1	6.9	8.5	10.0
B mm	0.51	0.58	0.58	0.74	0.89	1.07	1.32	1.32
C mm	4.8	5.5	5.5	6.4	7.1	7.9	9.5	11.1
N mm	3.1	3.9	3.9	4.7	5.5	6.3	7.9	9.5
Recommended Hole Size mm (-0.0/+0.1)	3.2	4.0	4.0	4.8	5.6	6.4	8.0	9.6
Minimum Wall Thickness mm	1.4	1.8	1.8	2.1	2.4	2.8	3.6	5.0

Heat-Sert™ information for designers

The Heat-Sert™ has been designed for post mould installation into notch-sensitive thermoplastics using heat. The rounded knurls alleviate stress in the mating boss.

Advantages:

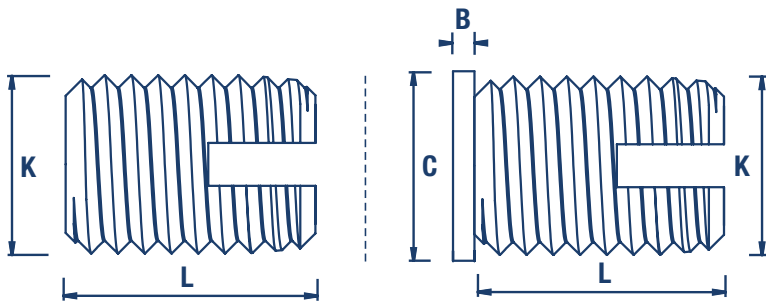
- Designed specifically for notch-sensitive plastics
- Symmetrical design for automated installation
- High pull out and torque resistance

Installation Data

The Heat-Sert™ is installed using heat and you must ensure that the insert softens, but does not melt the plastic which helps avoid flash forming around the top of the insert.



Thread-Sert™ Unheaded (UHBRTH) Headed (HDBRTH)



Dimensions (Metric)

Brass/Self Colour

Thread size	M2.5	M3	M3.5	M4	M5	M6	M8	M10
L mm	6.0	6.0	8.0	8.0	10.0	14.0	15.0	18.0
B mm	0.58	0.58	0.73	0.89	1.06	1.32	1.32	1.57
C mm	6.0	6.5	8.5	8.0	9.5	12.0	14.0	16.0
K max mm	4.5	5.0	6.0	6.5	8.0	10.0	12.0	14.0
Recommended Hole Size Thermoplastics mm	4.0-4.1	4.5-4.6	5.3-5.4	5.8-5.9	7.1-7.2	8.6-8.8	10.6-10.8	12.6-12.8
Recommended Hole Size Thermosets mm	4.1-4.3	4.6-4.8	5.5-5.7	6.0-6.2	7.3-7.6	9.0-9.4	11.0-11.4	13.0-13.4

Heat-Sert™ information for designers

The Thread-Sert™ is a self-tapping insert, designed for post mould installation into thermoplastics and thermosets. They are ideally suited to applications which may involve high jack-out loading.

Advantages:

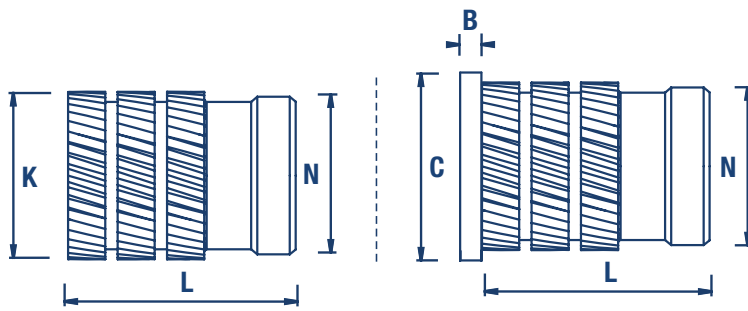
- Simple, self-tapping installation
- Helps prevent jack-out
- High torque resistance

Installation Data

The Thread-Sert™ is installed by tapping using a hand tool, vertical drill with tapping attachment or standard tapping machine. Max RPM 35-40. Mandrel must not go past slot.



Broaching-Sert™ Unheaded (UHBRBR) Headed (HDBRBR)



Dimensions (Metric)

Brass/Self Colour

Thread size	M2	M2.5	M3	M3.5	M4	M5	M6	M8	M10
L mm	4.1	5.3	5.3	6.3	7.4	8.3	9.2	9.2	9.2
B mm	0.51	0.58	0.58	0.74	0.89	1.07	1.32	1.32	1.57
C mm	4.8	5.5	5.5	6.4	7.1	7.9	9.5	11.1	14.0
K mm	3.3	4.2	4.2	5.0	5.8	6.6	8.2	9.7	12.7
N mm	3.0	3.7	3.7	4.5	5.3	6.1	7.7	9.3	12.2
Recommended Hole Size mm (-0.0/+0.1)	3.1	3.8	3.8	4.6	5.4	6.2	7.8	9.3	12.2
Minimum Wall Thickness mm	1.6	2.0	2.0	2.5	2.5	2.5	2.8	3.8	5.0

Broaching-Sert™ information for designers

The Broaching-Sert™ is a press-in insert, designed for post mould installation into thermosets. The sharp knurls of the insert cut into the mating material during installation thereby reducing stress in brittle thermosets.

Advantages:

- Simple, press-in installation
- Allows for thin walls in the boss
- Good pull out and torque resistance

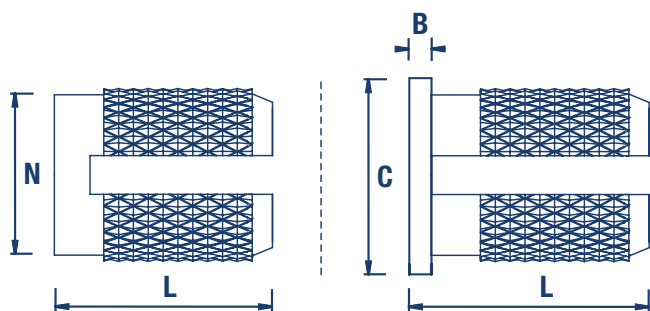
Installation Data

The Broaching-Sert™ should be installed with a press that can provide a steady squeezing action to prevent damage to the mating boss.

The insert should be allowed to freely rotate during installation.



Expansion-Sert™ Unheaded (UHBRXP) Headed (HDBRXP) Reverse Headed (RVBRXP)



Dimensions (Metric)

Brass/Self Colour

Thread size	M2	M2.5	M3	M3.5	M4	M5	M6	M8
L mm	3.9	4.7	4.7	6.3	7.9	9.4	12.6	12.6
B mm	0.43	0.51	0.51	0.66	0.82	0.99	1.25	1.25
C mm	4.8	5.5	5.5	6.4	7.1	7.9	9.5	11.1
N max mm	3.2	4.0	4.0	4.7	5.5	6.3	7.9	9.5
Recommended Hole Size mm (-0.0/+0.1)	3.2	4.0	4.0	4.8	5.6	6.4	8.0	9.6
Minimum Wall Thickness mm	2.4	3.2	3.2	3.6	4.0	4.8	6.0	7.0

Expansion-Sert™ information for designers

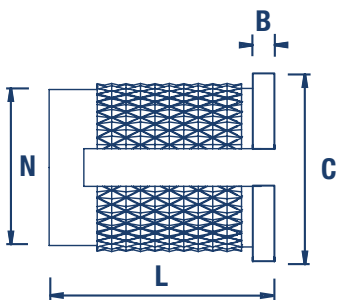
The Expansion-Sert™ is a press-in insert, designed for post mould installation into thermosets. The knurl pattern makes this insert ideal for hard thermosets.

Advantages:

- Simple, press-in installation
- Provides self-locking action on mating screw
- Good pull out and torque resistance

Installation Data

The Expansion-Sert™ should be installed with a press that can provide a steady squeezing action to prevent damage to the mating boss. It is important that the mating screw fully penetrates the insert to achieve full expansion and optimum pull-out resistance.

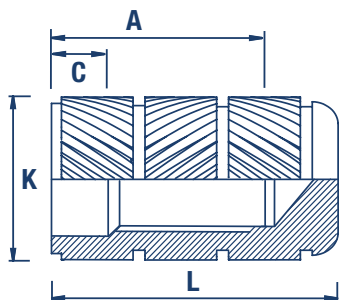


Reverse Headed Expansion-Sert™ - RVBRXP

Stud versions available on request.



Flow-Sert™ Unheaded (UHBRFL)



Dimensions (Metric)

Brass/Self Colour

Thread size	M2	M2.5	M3	M3.5	M4	M5	M6	M8	M10
L mm	5.5	6.4	7.3	9.2	10.2	11.2	14.4	16.5	17.9
K mm	3.4	4.3	4.7	5.5	6.3	7.3	9.8	11.4	13.8
A min. mm	3.6	4.0	4.6	6.0	6.7	7.4	8.1	11.1	11.9
C mm	1.0	1.2	1.3	1.6	1.8	2.0	2.0	2.3	2.4

Flow-Sert™ information for designers

The Flow-Sert™ is a blind insert, designed to be installed during the moulding process.

Advantages:

- The blind end prevents plastic ingress during moulding
- Very high pull out and torque resistance

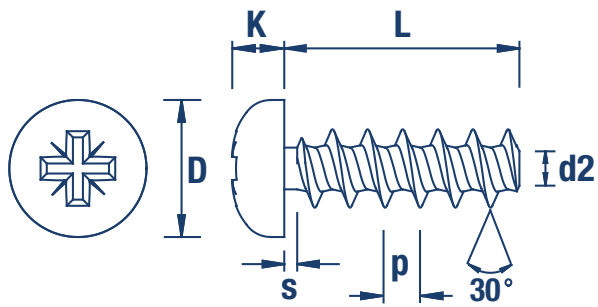
Installation Data

The Flow-Sert™ is designed to be installed during moulding. It is critical that the mould pin used is designed to locate the Flow-Sert™ and prevent plastic ingress.

Please contact your nearest TR location for mould pin design assistance.



Plas-Tech® 30 Pan CR Pozi® (Z) (PR30)



Dimensions (Metric)

Steel/Zinc & Clear (CR3) | A2 Stainless Steel/Self Colour (SF)

Thread Dimensions	Screw Size	2.2	2.5	3.0	3.5	4.0	5.0	6.0
	d2 nom.	1.25	1.40	1.66	1.91	2.17	2.68	3.19
	p	0.98	1.12	1.34	1.57	1.79	2.24	2.69
	s (L > 3 x d1)	2.2	2.5	3.0	3.5	4.0	5.0	6.0
	s (L < 3 x d1)	1.1	1.3	1.5	1.8	2.0	2.5	3.0
Recommended Hole Size mm		1.54 - 1.87	1.75 - 2.12	2.10 - 2.55	2.45 - 2.97	2.80 - 3.40	3.50 - 4.25	4.20 - 5.10
Head Dimensions	D	3.9	4.4	5.3	6.1	7.0	8.8	10.5
	K	1.5	1.7	2.0	2.5	2.7	3.4	4.0
	Recess No.	1	1	1	2	2	2	3

Preferred Range (Metric)

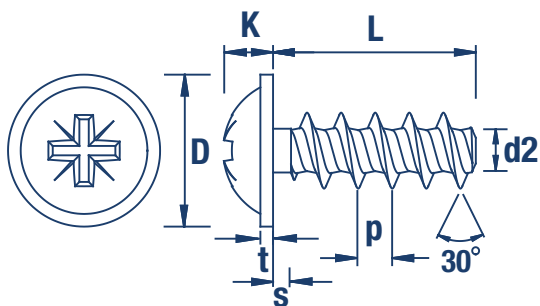
Preferred lengths: 4mm - 40mm

Materials available: Steel/Zinc & Clear (CR3), A2 Stainless Steel/Self Colour (SF)

Driver bits are available from stock for all screw sizes



Plas-Tech® 30 Flange CR Pozi® (Z) (FL30)



Dimensions (Metric)

Steel/Zinc & Clear (CR3) | A2 Stainless Steel/Self Colour (SF)

Thread Dimensions	Screw Size	2.2	2.5	3.0	3.5	4.0	5.0	6.0
	d2 nom.	1.25	1.40	1.66	1.91	2.17	2.68	3.19
	p	0.98	1.12	1.34	1.57	1.79	2.24	2.69
	s (L > 3 x d1)	2.2	2.5	3.0	3.5	4.0	5.0	6.0
	s (L < 3 x d1)	1.1	1.3	1.5	1.8	2.0	2.5	3.0
Recommended Hole Size mm		1.54 - 1.87	1.75 - 2.12	2.10 - 2.55	2.45 - 2.97	2.80 - 3.40	3.50 - 4.25	4.20 - 5.10
Head Dimensions	D	4.4	5.0	6.0	7.0	8.0	10.0	12.0
	K	1.6	1.8	2.1	2.4	2.5	3.2	4.0
	t	0.5	0.6	0.7	0.8	0.9	1.1	1.3
	Recess No.	1	1	1	2	2	2	3

Preferred Range (Metric)

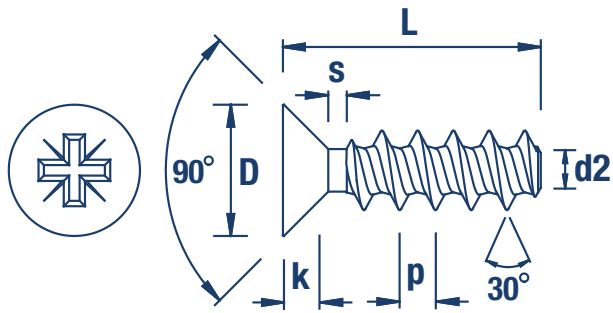
Preferred lengths: 5mm - 30mm

Materials available: Steel/Zinc & Clear (CR3), A2 Stainless Steel/Self Colour (SF)

Driver bits are available from stock for all screw sizes



Plas-Tech® 30 Countersunk CR Pozi® (Z) (KR30)



Dimensions (Metric)

Steel/Zinc & Clear (CR3) | A2 Stainless Steel/Self Colour (SF)

Thread Dimensions	Screw Size	2.2	2.5	3.0	3.5	4.0	5.0	6.0
	d2 nom.	1.25	1.40	1.66	1.91	2.17	2.68	3.19
	p	0.98	1.12	1.34	1.57	1.79	2.24	2.69
	s (L > 3 x d1)	2.2	2.5	3.0	3.5	4.0	5.0	6.0
	s (L < 3 x d1)	1.1	1.3	1.5	1.8	2.0	2.5	3.0
Recommended Hole Size mm		1.54 - 1.87	1.75 - 2.12	2.10 - 2.55	2.45 - 2.97	2.80 - 3.40	3.50 - 4.25	4.20 - 5.10
Head Dimensions	D	3.8	4.7	5.5	7.3	8.4	9.3	11.3
	K	1.30	1.75	2.05	2.80	3.25	3.40	3.80
	Recess No.	1	1	1	2	2	2	3

Preferred Range (Metric)

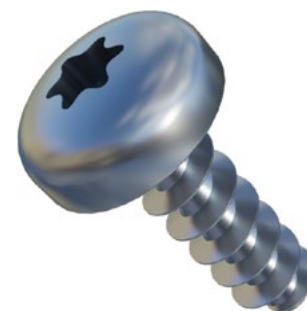
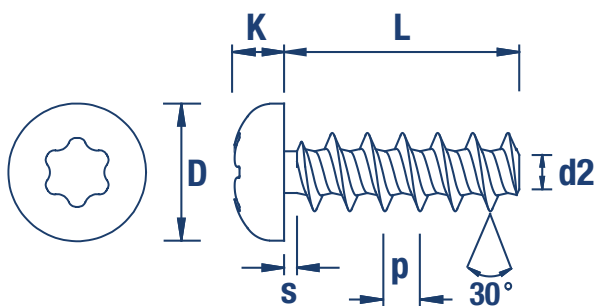
Preferred lengths: 5mm - 30mm

Materials available: Steel/Zinc & Clear (CR3), A2 Stainless Steel/Self Colour (SF)

Driver bits are available from stock for all screw sizes



Plas-Tech® 30 Pan T-Drive® (PT30)



Dimensions (Metric)

Steel/Zinc & Clear (CR3) | A2 Stainless Steel/Self Colour (SF)

Thread Dimensions	Screw Size	1.8	2.2	2.5	3.0	3.5	4.0	5.0	6.0
	d2 nom.	1.04	1.25	1.40	1.66	1.91	2.17	2.68	3.19
	p	0.80	0.98	1.12	1.34	1.57	1.79	2.24	2.69
	s (L > 3 x d1)	1.8	2.2	2.5	3.0	3.5	4.0	5.0	6.0
	s (L < 3 x d1)	0.9	1.1	1.3	1.5	1.8	2.0	2.5	3.0
Recommended Hole Size mm		1.26 - 1.53	1.54 - 1.87	1.75 - 2.12	2.10 - 2.55	2.45 - 2.97	2.80 - 3.40	3.50 - 4.25	4.20 - 5.10
Head Dimensions	D	3.6	4.0	4.2	5.6	6.9	7.5	8.2	10.8
	K	1.3	1.5	1.6	2.1	2.3	2.6	2.9	3.8
	Recess No.	T6	T6	T7/T8*	T10	T10	T20	T20	T23/T25*

Preferred Range (Metric)

Preferred lengths: 4mm - 30mm

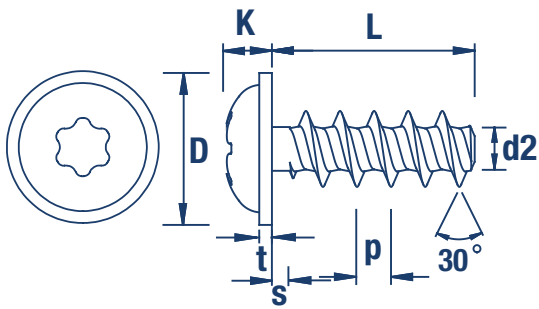
Materials available: Steel/Zinc & Clear (CR3), A2 Stainless Steel/Self Colour (SF)

Driver bits are available from stock for all screw sizes

* Please contact sales for details



Plas-Tech® 30 Flange T-Drive® (FT30)



Dimensions (Metric)

Steel/Zinc & Clear (CR3) | A2 Stainless Steel/Self Colour (SF)

Thread Dimensions	Screw Size	2.2	2.5	3.0	3.5	4.0	5.0	6.0
	d2 nom.	1.25	1.40	1.66	1.91	2.17	2.68	3.19
	p	0.98	1.12	1.34	1.57	1.79	2.24	2.69
	s (L > 3 x d1)	2.2	2.5	3.0	3.5	4.0	5.0	6.0
	s (L < 3 x d1)	1.1	1.3	1.5	1.8	2.0	2.5	3.0
Recommended Hole Size mm		1.54 - 1.87	1.75 - 2.12	2.10 - 2.55	2.45 - 2.97	2.80 - 3.40	3.50 - 4.25	4.20 - 5.10
Head Dimensions	D	4.5	5.0	6.0	7.0	8.0	10.0	12.0
	K	1.4	1.5	2.1	2.4	2.6	3.3	3.6
	t	0.5	0.5	0.6	0.7	0.8	1.0	1.2
	Recess No.	T6	T6/T7*	T10	T10	T20	T20	T23/T25*

Preferred Range (Metric)

Preferred lengths: 5mm - 25mm

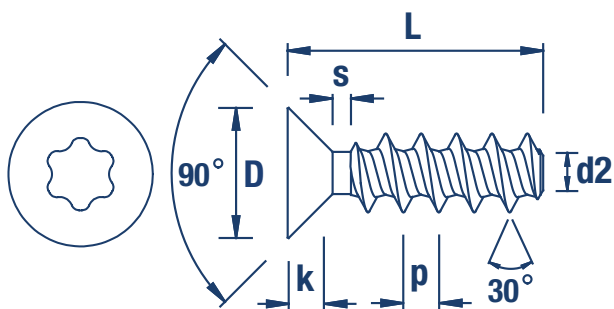
Materials available: Steel/Zinc & Clear (CR3), A2 Stainless Steel/Self Colour (SF)

Driver bits are available from stock for all screw sizes

* Please contact sales for details



Plas-Tech® 30 Countersunk T-Drive® (KT30)



Dimensions (Metric)

Steel/Zinc & Clear (CR3) | A2 Stainless Steel/Self Colour (SF)

Thread Dimensions	Screw Size	1.8	2.2	2.5	3.0	3.5	4.0	5.0	6.0
	d2 nom.	1.04	1.25	1.40	1.66	1.91	2.17	2.68	3.19
	p	0.80	0.98	1.12	1.34	1.57	1.79	2.24	2.69
	s (L > 3 x d1)	1.8	2.2	2.5	3.0	3.5	4.0	5.0	6.0
	s (L < 3 x d1)	0.9	1.1	1.3	1.5	1.8	2.0	2.5	3.0
Recommended Hole Size mm		1.26 - 1.53	1.54 - 1.87	1.75 - 2.12	2.10 - 2.55	2.45 - 2.97	2.80 - 3.40	3.50 - 4.25	4.20 - 5.10
Head Dimensions	D	3.4	3.8	4.7	5.5	7.3	8.4	9.2	11.3
	K	0.35	0.35	0.35	0.35	0.40	0.45	0.50	0.55
	Recess No.	T6	T6	T8	T8	T15	T20	T20	T30

Preferred Range (Metric)

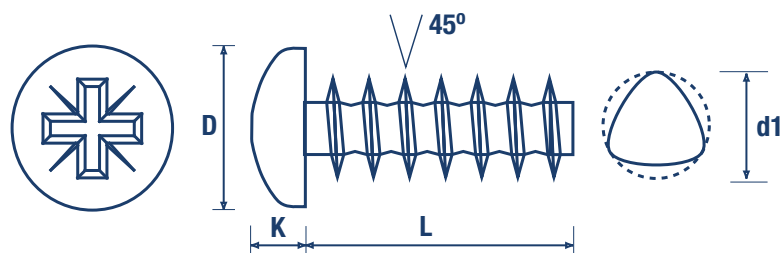
Preferred lengths: 6mm - 25mm

Materials available: Steel/Zinc & Clear (CR3), A2 Stainless Steel/Self Colour (SF)

Driver bits are available from stock for all screw sizes



Plas-Fix® 45 Pan CR Pozi® (Z) (PR45)



Dimensions (Metric)

Steel/Zinc & Clear (CR3) | A2 Stainless Steel/Self Colour (SF)

Screw Size	1.8	2.2	2.5	3	3.5	4	5	6
Dia. d1 Max	1.85	2.25	2.55	3.05	3.55	4.06	5.06	6.06
D	3.60	4.24	4.00	5.00	6.00	7.00	8.00	10.00
K - Max	1.50	1.57	1.60	1.95	2.30	2.45	2.80	3.50
Recess	0	1	1	1	1	2	2	2
Recommended Hole Size mm	1.19 - 1.45	1.47 - 1.79	1.80 - 2.00	2.26 - 2.50	2.73 - 2.95	3.18 - 3.41	3.62 - 4.10	4.55 - 5.05

Preferred Range (Metric)

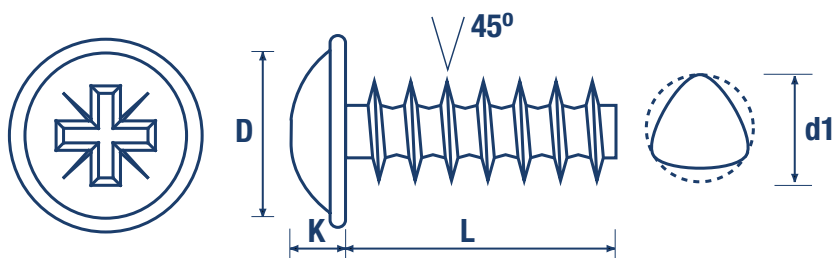
Preferred lengths: 5mm - 30mm

Materials available: Steel/Zinc & Clear (CR3), A2 Stainless Steel/Self Colour (SF)

Driver bits are available from stock for all screw sizes



Plas-Fix® 45 Flange CR Pozi® (Z) (FL45)



Dimensions (Metric)

Steel/Zinc & Clear (CR3) | A2 Stainless Steel/Self Colour (SF)

Screw Size	3.5	4	5	6
Dia. d1 Max	3.55	4.06	5.06	6.06
D	6.60	8.00	9.60	12.00
K - Max	1.60	2.00	2.30	2.90
Recess	1	2	2	2
Recommended Hole Size mm	2.73 - 2.95	3.18 - 3.41	3.62 - 4.10	4.55 - 5.05

Preferred Range (Metric)

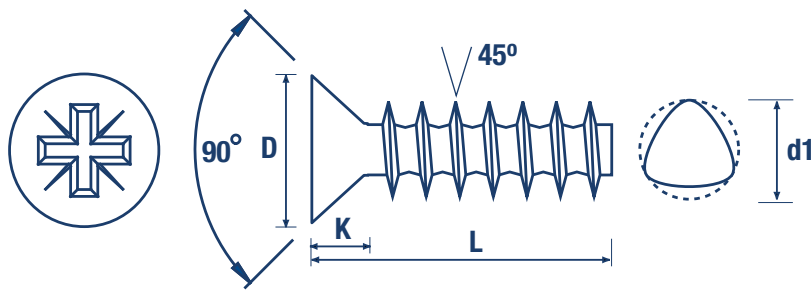
Preferred lengths: 6mm - 25mm

Materials available: Steel/Zinc & Clear (CR3), A2 Stainless Steel/Self Colour (SF)

Driver bits are available from stock for all screw sizes



Plas-Fix® 45 Countersunk CR Pozi® (Z) (KR45)



Dimensions (Metric)

Steel/Zinc & Clear (CR3) | A2 Stainless Steel/Self Colour (SF)

Screw Size	2.5	3	3.5	4	5	6
Dia. d1 Max	2.55	3.05	3.55	4.06	5.06	6.06
D	4.40	5.50	6.30	7.35	8.40	10.00
K - Max	1.30	1.50	1.65	1.90	2.20	2.50
Recess	1	1	1	2	2	2
Recommended Hole Size mm	1.80 - 2.00	2.26 - 2.50	2.73 - 2.95	3.18 - 3.41	3.62 - 4.10	4.55 - 5.05

Preferred Range (Metric)

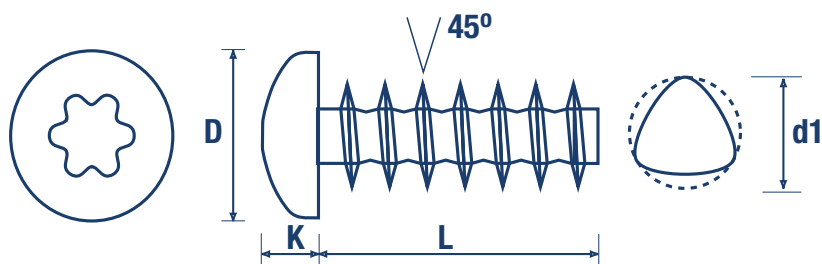
Preferred lengths: 6mm - 30mm

Materials available: Steel/Zinc & Clear (CR3), A2 Stainless Steel/Self Colour (SF)

Driver bits are available from stock for all screw sizes



Plas-Fix® 45 Pan T-Drive® (PT45)



Dimensions (Metric)

Steel/Zinc & Clear (CR3) | A2 Stainless Steel/Self Colour (SF)

Screw Size	2.5	3	3.5	4	5
Dia. d1 Max	2.55	3.05	3.55	4.06	5.06
D	4.00	5.00	6.00	7.00	8.00
K - Max	1.60	1.95	2.30	2.45	2.80
Recess	T6	T8	T10	T15	T20
Recommended Hole Size mm	1.80 - 2.00	2.26 - 2.50	2.73 - 2.95	3.18 - 3.41	3.62 - 4.10

Preferred Range (Metric)

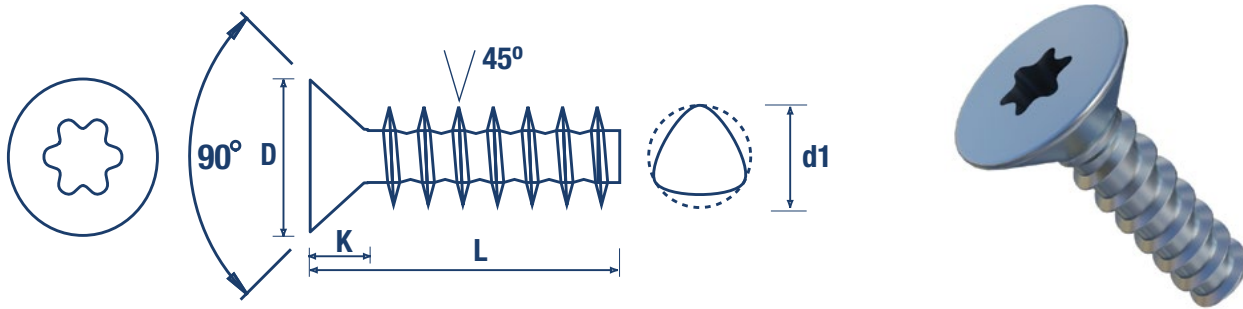
Preferred lengths: 6mm - 30mm

Materials available: Steel/Zinc & Clear (CR3), A2 Stainless Steel/Self Colour (SF)

Driver bits are available from stock for all screw sizes



Plas-Fix® 45 Countersunk T-Drive® (KT45)



Dimensions (Metric)

Steel/Zinc & Clear (CR3) | A2 Stainless Steel/Self Colour (SF)

Screw Size	2.5	3	3.5	4	5
Dia. d1 Max	2.55	3.05	3.55	4.06	5.06
D	4.40	5.50	6.30	7.35	8.40
K - Max	1.30	1.50	1.65	1.90	2.20
Recess	T6	T8	T10	T15	T20
Recommended Hole Size mm	1.80 - 2.00	2.26 - 2.50	2.73 - 2.95	3.18 - 3.41	3.62 - 4.10

Preferred Range (Metric)

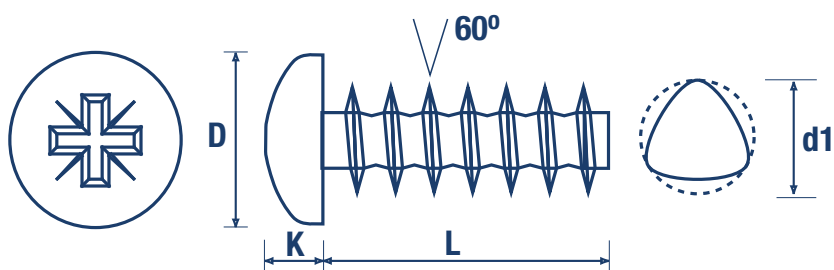
Preferred lengths: 6mm - 30mm

Materials available: Steel/Zinc & Clear (CR3), A2 Stainless Steel/Self Colour (SF)

Driver bits are available from stock for all screw sizes



Plas-Fix® 60 Pan CR Pozi® (Z) (PR60)



Dimensions (Imperial)

Steel/Zinc & Clear (CR3)

Screw Size	No 2	No 4	No 6	No 8	No 10
Dia. d1 Max	0.089	0.123	0.143	0.179	0.208
D	0.167	0.219	0.270	0.322	0.373
K - Max	0.062	0.080	0.097	0.115	0.133
Recess	1	1	2	2	2
Recommended Hole Size In	0.079 - 0.080	0.099 - 0.106	0.121 - 0.128	0.147 - 0.157	0.173 - 0.184

Preferred Range (Imperial)

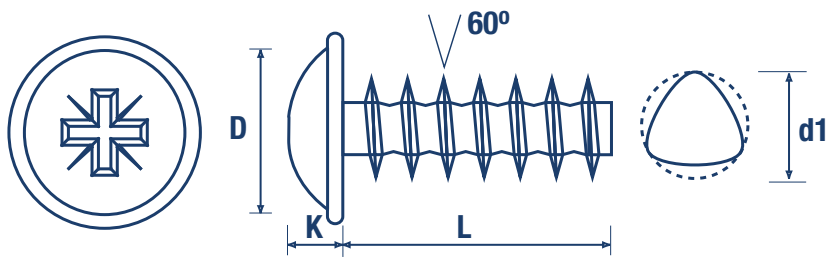
Preferred lengths: 3/16 - 1 1/2

Materials available: Steel/Zinc & Clear (CR3)

Driver bits are available from stock for all screw sizes



Plas-Fix® 60 Flange CR Pozi® (Z) (FL60)



Dimensions (Imperial)

Steel/Zinc & Clear (CR3)

Screw Size	No 2	No 4	No 6	No 8	No 10
Dia. d1 Max	0.089	0.123	0.143	0.179	0.208
D	0.167	0.219	0.270	0.322	0.373
K - Max	0.062	0.080	0.097	0.115	0.133
Recess	1	1	2	2	2
Recommended Hole Size In	0.079 - 0.080	0.099 - 0.106	0.121 - 0.128	0.147 - 0.157	0.173 - 0.184

Preferred Range (Imperial)

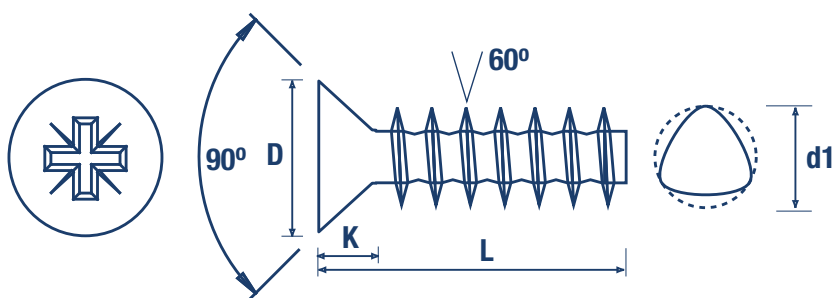
Preferred lengths: 1/4 - 1

Materials available: Steel/Zinc & Clear (CR3)

Driver bits are available from stock for all screw sizes



Plas-Fix® 60 Countersunk CR Pozi® (Z) (KR60)



Dimensions (Imperial)

Steel/Zinc & Clear (CR3)

Screw Size	No 2	No 4	No 6	No 8	No 10
Dia. d1 Max	0.089	0.123	0.143	0.179	0.208
D	0.172	0.225	0.279	0.332	0.385
K - Max	0.051	0.067	0.083	0.100	0.116
Recess	1	1	2	2	2
Recommended Hole Size In	0.079 - 0.080	0.099 - 0.106	0.121 - 0.128	0.147 - 0.157	0.173 - 0.184

Preferred Range (Imperial)

Preferred lengths: 3/16 - 3/4

Materials available: Steel/Zinc & Clear (CR3)

Driver bits are available from stock for all screw sizes



Specials

High-low Screws



High-low screws have two widely spaced threads. One, the high thread, shall have a 30° included angle whilst the second, the low thread, has a 60° included angle. The unique thread form has three important advantages in plastic applications:

1. High pull out loads
2. Wider differential between driving and stripping torque values
3. Reduced radial pressure which minimises both cracking or busting

Type BT Screws



Type BT thread cutting screws have spaced threads with a blunt point and tapered lead threads, as with Type F self tappers with a thread cutting edge and chip cavity.

These screws cut their mating thread form and are therefore more suited to applications in less ductile materials (which are unsuitable for the Type F screws) such as thermoset plastics and cast aluminium.

Type Y Screws

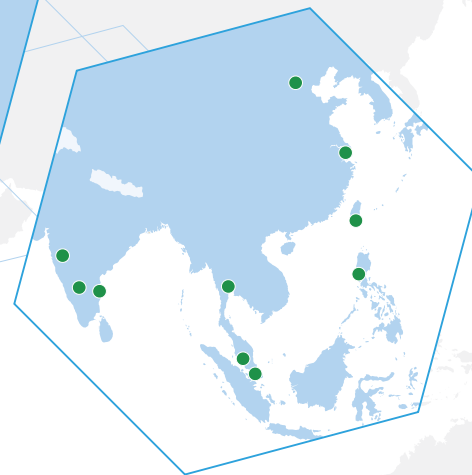
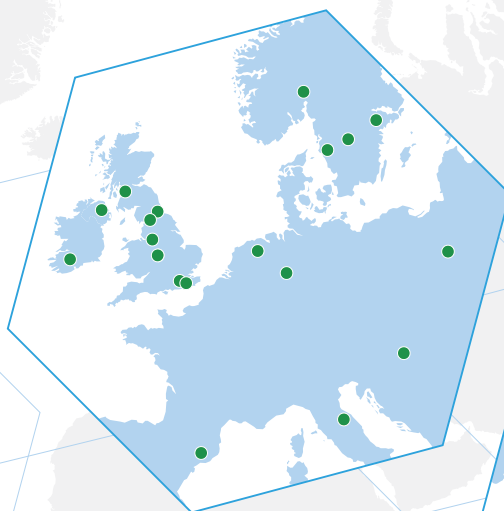
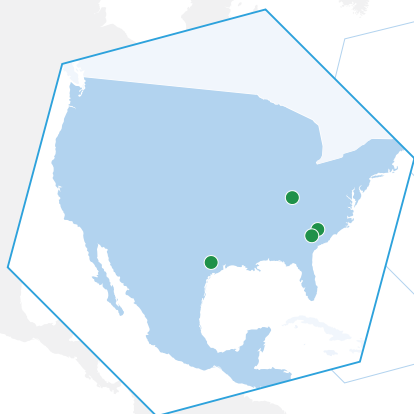


Type Y thread cutting screws have spaced threads with a blunt point and tapered entering threads, as with Type F self tappers, with multi cutting flutes extended from point to under head.

The screws cut their mating thread and are therefore suitable to less ductile materials such as thermoset plastics and aluminium.



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