

SHEET METAL FASTENERS

The fasteners shown below feature attachment by mechanical means avoiding the damage and uncertainty often associated with weld nuts and studs allowing their use in pre-finished materials.

Click relevant picture for type variations and specifications



RH



RM



S



FH



F



SO



KF2



AS



PFC2P



PFC2

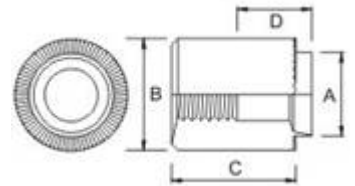
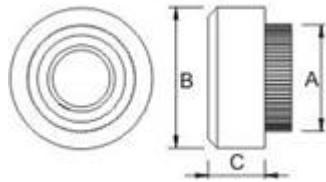
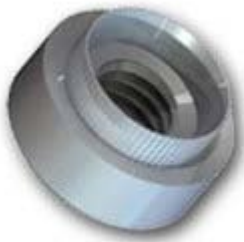


PF31



TP

RIVET BUSH



Version: RH

Version: RF (standoff)

General Info: Designed for installation into sheet metal.

Versions: RH / RF (standoff)

Materials: Steel/zinc
Stainless Steel

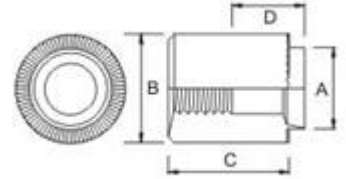
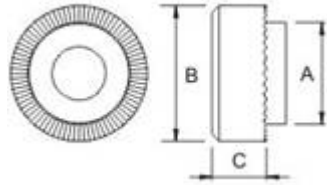
Advantages: Ideal for both thinner and harder sheet metals.
Can be installed by hand or automatic methods.
Suitable for use in punched or drilled holes.
Can be used for sheet thickness up to 5.9mm.
Can be used to join two sheets together.

When ordering: Please state: Version + Thread size + Sheet Thickness + (length) + Material

All data is correct to the best of our knowledge, however Headland cannot be held responsible for any errors or omissions.

Thread Size	A +0.00 / - 0.13 mm	B ± 0.15 mm	C ± 0.13 mm	C RF type mm	D RF type for lengths mm	Recommended hole size -0.00 / + 0.05 mm	Sheet Thickness mm	Note!
M2.5	5.54	7.92	3.17	3 - 50	8-10: D=3mm	5.54	0.9 – 5.9	Non-standard
M3	5.54	7.92	3.17	3 - 50		5.54	0.9 – 5.9	
M3.5	6.73	9.52	3.17	3 - 50		6.73	0.9 – 5.9	Non-standard
M4	6.73	9.52	3.17	3 - 50	11-13: D=6mm	6.73	0.9 – 5.9	
M5	7.92	11.10	3.81	3 - 50		7.92	0.9 – 5.9	
M6	9.52	12.70	5.08	3 - 50	14-16: D=9mm	9.52	0.9 – 5.9	
M8	12.70	15.87	6.35	3 - 50		12.70	1.2 – 5.9	
M10	15.87	19.05	7.62	3 - 50	17-22: D=12mm	15.87	1.2 – 5.9	
M12	19.05	25.40	10.16	3 - 50		19.05	1.2 – 5.9	Non-standard

MINI RIVET BUSH



Version: RM

Version: MF (standoff)

General Info: Designed for installation into sheet metal where space is at a premium.

Versions: RM / MF (standoff)

Materials: Steel/zinc
Stainless Steel

Advantages: Ideal for both thinner and harder sheet metals.
Can be installed by hand or automatic methods.
Suitable for use in punched or drilled holes.
Can be used for sheet thickness up to 3.0mm.
Can be installed closed to edge of sheet.
Provides an almost flush finish.

When ordering: Please state: Version + Thread size + Sheet Thickness + (length) + Material

All data is correct to the best of our knowledge, however Headland cannot be held responsible for any errors or omissions.

Thread Size	A +0.00 / - 0.13 mm	B ± 0.15 mm	C ± 0.13 mm	C MF type mm	D MF type for lengths mm	Recommended hole size -0.00 / + 0.05 mm	Sheet Thickness mm	Note!
M2.5	4.19	5.50	2.80	3 - 50	8-10: D=3mm	4.19	0.8 – 3.0	Non-standard
M3	4.19	5.50	2.80	3 - 50		11-13: D=6mm	4.19	0.8 – 3.0
M3.5	5.41	7.00	3.20	3 - 50	14-16: D=9mm		5.41	0.8 – 3.0
M4	5.41	7.00	3.20	3 - 50		17-22: D=12mm	5.41	0.8 – 3.0
M5	6.40	8.50	3.80	3 - 50			6.40	0.8 – 3.0
M6	7.70	10.00	5.10	3 - 50			7.70	0.8 – 3.0
M8	9.70	12.00	6.50	3 - 50		9.70	0.8 – 3.0	Non-standard
M10	12.70	16.00	7.60	3 - 50		12.70	0.8 – 3.0	Non-standard
M12	15.87	19.00	10.20	3 - 50		15.87	0.8 – 3.0	Non-standard

SELF CLINCH NUT



Version: S

General Info: Designed for installation into sheet metal.

Versions: S

Materials: Steel/zinc S
Stainless Steel CLS
Grade 400 Stainless Steel SP

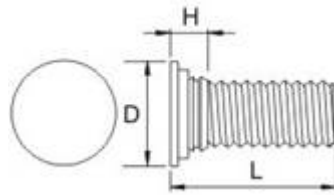
Advantages: Ideal for both thinner and harder sheet metals.
Can be installed by hand or automatic methods.
Suitable for use in punched or drilled holes.
Can be used for sheet thickness up to 3.0mm.
Can be installed closed to edge of sheet.
Provides an almost flush finish.

When ordering: Please state: Version + Thread size + Sheet Thickness + Material

All data is correct to the best of our knowledge, however Headland cannot be held responsible for any errors or omissions.

Thread Size	B Max. mm	D ± 0.2 mm	H ± 0.10 mm	h Max. mm	Sheet Thickness Min. mm	Recommended hole size + 0.08 - 0.00 mm	Distance centre line hole to sheet edge mm	Note!
M2	4.22	6.3	1.5	0.76	0.8	4.25	4.8	Non-standard
M2	4.22	6.3	1.5	0.97	1.0	4.25	4.8	Non-standard
M2	4.22	6.3	1.5	1.37	1.4	4.25	4.8	Non-standard
M2.5	4.22	6.3	1.5	0.76	0.8	4.25	4.8	Non-standard
M2.5	4.22	6.3	1.5	0.97	1.0	4.25	4.8	Non-standard
M2.5	4.22	6.3	1.5	1.37	1.4	4.25	4.8	Non-standard
M3	4.22	6.3	1.5	0.76	0.8	4.25	4.8	
M3	4.22	6.3	1.5	0.97	1.0	4.25	4.8	
M3	4.22	6.3	1.5	1.37	1.4	4.25	4.8	
M3ALT	4.73	7.1	1.5	0.76	0.8	4.75	5.6	
M3ALT	4.73	7.1	1.5	0.97	1.0	4.75	5.6	
M3ALT	4.73	7.1	1.5	1.37	1.4	4.75	5.6	
M4	5.38	7.9	2.0	0.76	0.8	5.4	6.9	
M4	5.38	7.9	2.0	0.97	1.0	5.4	6.9	
M4	5.38	7.9	2.0	1.37	1.4	5.4	6.9	
M5	6.38	8.7	2.0	0.76	0.8	6.4	7.1	
M5	6.38	8.7	2.0	0.97	1.0	6.4	7.1	
M5	6.38	8.7	2.0	1.37	1.4	6.4	7.1	
M6	8.72	11.05	4.1	1.37	1.4	8.75	8.6	
M6	8.72	11.05	4.1	2.21	2.3	8.75	8.6	
M8	10.44	12.65	5.5	1.37	1.4	10.5	9.7	
M8	10.44	12.65	5.5	2.21	2.3	10.5	9.7	

SELF CLINCH STUD



Version: FH

General Info: Designed for installation into sheet metal.

Versions: FH

Materials: Steel/zinc FH
Stainless Steel FHS
Grade400 Stainless Steel FH4

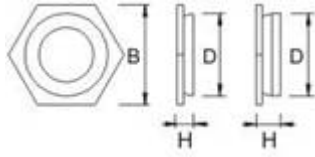
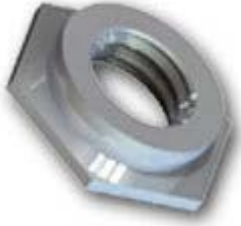
Advantages: Easy assembly with any squeeze press.
No damage to decorative finishes on sheets.
High torque resistance.
Always perpendicular to sheet.
Visual proof of security.
Head installs flush with surface of sheet.

When ordering: Please state: Version + Thread size + Length + Material

All data is correct to the best of our knowledge, however Headland cannot be held responsible for any errors or omissions.

Thread Size	D ± 0.4 mm	H mm	L mm	Recommended hole size + 0.08 / - 0.00 mm	Sheet Thickness Min. mm	Distance centre line hole to sheet edge mm	Note!
M2	3.3	1.75	8/10/12/15/18/20	2.0	1.0	5.2	
M2.5	4.1	1.95	6/8/10/12/15/18	2.5	1.0	5.4	
M3	4.6	2.1	6/8/10/12/15/16/18/20/22/25/30/35	3.0	1.0	5.6	
M4	5.9	2.4	6/8/10/12/14/15/16/18/20/25/30/35	4.0	1.0	7.2	
M5	6.5	2.7	8/10/12/14/15/16/18/20/25/30/35	5.0	1.0	7.2	
M6	8.2	3.0	10/12/14/15/16/18/20/25/30/35	6.0	1.6	7.9	
M8	9.6	3.7	10/12/15/18/20/25/30/35	8.0	2.4	9.0	

FLUSH SELF CLINCH NUT



Version: F

General Info: Designed for installation into sheet metal to provide a thread within the sheet thickness.

Versions: F

Materials: Stainless Steel

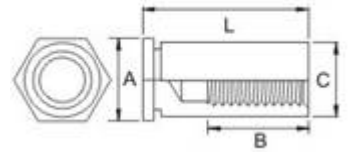
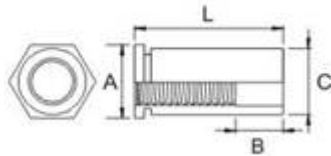
Advantages: Can be used in sheets where lack of space prevents the use of conventional fasteners.
Easy assembly into round holes.
High pull out torque / high torque resistance.
Provide flush finish to both side of the sheet.

When ordering: Please state: Version + Thread size + Sheet Thickness

All data is correct to the best of our knowledge, however Headland cannot be held responsible for any errors or omissions.

Thread Size	B ± 0.2 mm	D Max. mm	H Max. mm	Sheet Thickness Min. mm	Recommended hole size + 0.08 / - 0.00 mm	Distance centre line hole to sheet edge mm	Note!
M2.5	4.8	4.35	1.5	1.5	4.4	6.0	Non-standard
M2.5	4.8	4.35	2.3	2.4	4.4	6.0	Non-standard
M3	4.8	4.35	1.5	1.5	4.4	6.0	
M3	4.8	4.35	2.3	2.4	4.4	6.0	
M3ALT	6.4	5.35	1.5	1.5	5.4	6.5	
M3ALT	6.4	5.35	2.3	2.4	5.4	6.5	
M3.5	6.4	5.35	1.5	1.5	5.4	6.5	
M3.5	6.4	5.35	2.3	2.4	5.4	6.5	
M4	7.9	7.35	1.5	1.5	7.4	7.2	
M4	7.9	7.35	2.3	2.4	7.4	7.2	
M5	9.5	7.85	1.5	1.5	7.9	8.8	
M5	9.5	7.85	2.3	2.4	7.9	8.8	
M6	9.5	8.70	3.1	3.2	8.75	8.8	Sheet thickness & Body size
M6	9.5	8.70	3.9	4.0	8.75	8.8	

SELF CLINCH STANDOFF



Version: SO

Version: BSO (blind standoff)

General Info: Designed for installation into sheet metal to serve as spacers / distance pieces.

Versions: SO / BSO

Materials: Steel/zinc SO / BSO
Stainless Steel SOS / BSOS
Grade 400 Stainless Steel SO4 / BSO4

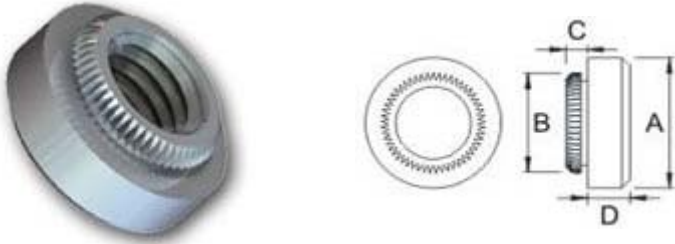
Advantages: Available in a range a spacer lengths.

When ordering: Please state: Version + Thread Size + Length (6/8/10/12/14/16/18/20/22/25) + Material

All data is correct to the best of our knowledge, however Headland cannot be held responsible for any errors or omissions.

Thread Size	A mm	B SO type for lengths mm	B BSO type for lengths mm	C +0.00 / -0.13 mm	L mm	Sheet Thickness Min. mm	Recommended hole size -0.00 / + 0.05 mm	Distance Centre line hole to sheet edge mm	Note!
M2.5	4.8	6: 6mm	6: 6mm	4.18	6-25	1.0	4.2	6.0	Non-standard
M3	4.8	8: 8mm	8-10: 4mm	4.18	6-25	1.0	4.2	6.0	
M3ALT	6.4	10- 14: 4mm	12: 5mm	5.39	6-25	1.0	5.4	6.8	
M4	7.9	16- 20: 8mm	14-16: 6.5mm	7.10	6-25	1.3	7.2	8.0	
M5	7.9	22- 25: 11mm	18-25: 9.5mm	7.10	6-25	1.3	7.2	8.0	

SELF CLINCH BROACHING NUT



Version: KF2

General Info: Designed for installation into resin based printed circuit boards.

Versions: KF2

Materials: Steel/zinc KF2
Steel/electro tin KF2
Stainless Steel KFS2

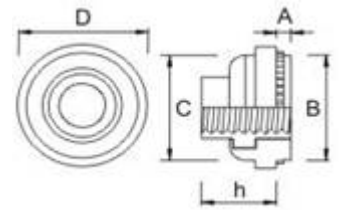
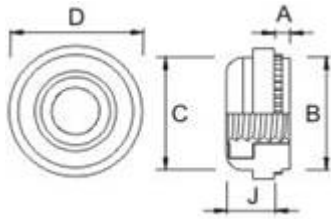
Advantages: Simple press-in installation.
Guaranteed not to crack brittle PCB.

When ordering: Please state: Version + Thread size + Sheet Thickness + Material

All data is correct to the best of our knowledge, however Headland cannot be held responsible for any errors or omissions.

Thread Size	A mm	B mm	C Max. mm	D mm	Sheet Thickness Min. mm	Recommended hole size + 0.08 / - 0.00 mm	Distance centre line hole to sheet edge mm	Note!
M2.5	5,56	4,60	1,5	1,5	1,53	4,22	4,4	
M3	4,56	4,60	1,5	1,5	1,53	4,22	4,4	
M3.5	7,00	5,88	1,5	1,6	1,53	5,50	5,5	
M4	8,74	6,75	1,5	2,0	1,53	6,40	6,4	
M5	9,53	7,30	1,5	3,0	1,53	6,90	7,1	

SELF CLINCH FLOATING FASTENER



Version: AS (non-locking)

Version: LAS (locking)

General Info: Designed for installation into sheet metal.

Versions: AS / LAS

Materials: Steel/zinc AS / LAS
Stainless Steel AC / LAC

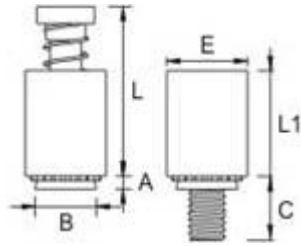
Advantages: Permits adjustment for mating hole misalignment.

When ordering: Please state: Version + Thread size + Sheet Thickness + Material

All data is correct to the best of our knowledge, however Headland cannot be held responsible for any errors or omissions.

Thread Size	A Max. mm	B Max. mm	C Max. mm	D ± 0.4 mm	J Max. mm	h Max. mm	Sheet Thickness Min. mm	Recommended hole size ± 0.08 mm	Distance centre line hole to sheet edge mm	Note!
M3	0.97	7.38	7.4	9.14	3.3	4.83	1.0	7.40	7.62	
M3	1.37	7.38	7.4	9.14	3.3	4.83	1.4	7.40	7.62	
M4	0.97	9.38	9.3	11.2	3.3	5.33	1.0	9.40	8.64	
M4	1.37	9.38	9.3	11.2	3.3	5.33	1.4	9.40	8.64	
M5	0.97	10.29	10.3	11.94	4.32	6.86	1.0	10.31	9.14	
M5	1.37	10.29	10.3	11.94	4.32	6.86	1.4	10.31	9.14	
M6	1.37	13.08	13.8	15.3	5.33	7.90	1.4	13.10	11.0	Only 1 thickness

SELF CLINCH RECESS PANEL FASTENER



Version: PFC2P

General Info: Designed for installation into sheet metal.

Versions: PFC2P

Materials: Stainless Steel

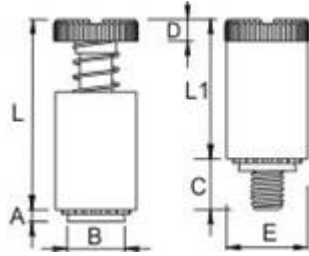
Advantages: Pre-assembled spring-loaded panel fastener.

When ordering: Please state: Version + Thread size + Screw Length

All data is correct to the best of our knowledge, however Headland cannot be held responsible for any errors or omissions.

Thread Size	Screw Length	A Max.	B Max.	C ± 0.4	Driver Size	E ± 0.25	L Nom	L1 Max.	Sheet Thickness Min.	Recommended hole size + 0.08	Distance centre line hole to sheet edge	Note!
	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	
M3	40	1.53	6.71	6.4	No. 1	7.92	13.72	9.40	1.53	6.73	6.35	
M4	50	1.53	7.90	7.9	No. 2	9.53	17.91	12.19	1.53	7.92	7.87	
M5	50	1.53	8.72	7.9	No. 2	10.31	17.91	12.45	1.53	8.74	8.63	
M5	72	1.53	8.72	11.1	No. 2	10.31	17.91	12.45	1.53	8.74	8.63	
M6	60	1.53	10.47	9.5	No. 3	11.89	22.99	15.75	1.53	10.49	9.65	

SELF CLINCH KNURLED PANEL FASTENER



Version: PFC2

General Info: Designed for installation into sheet metal.

Versions: PFC2

Materials: Stainless Steel

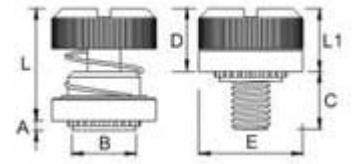
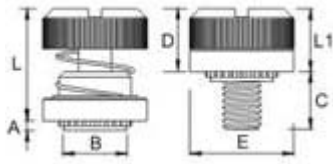
Advantages: Pre-assembled spring-loaded panel fastener.

When ordering: Please state: Version + Thread size + Screw Length

All data is correct to the best of our knowledge, however Headland cannot be held responsible for any errors or omissions.

Thread Size	Screw Length	A Max.	B Max.	C ± 0.4	D ± 0.13	E ± 0.25	L Nom	L1 Max.	Sheet Thickness Min.	Recommended hole size + 0.08	Distance centre line hole to sheet edge	Note!
	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	
M3	40	1.53	6.71	6.4	1.83	7.92	13.72	9.14	1.53	6.73	6.40	
M4	50	1.53	7.90	7.9	2.08	9.53	17.53	11.43	1.53	7.92	7.90	
M5	50	1.53	7.98	7.9	2.08	10.31	17.53	11.47	1.53	8.74	8.65	
M5	72	1.53	7.98	11.1	2.08	10.31	17.53	11.47	1.53	8.74	8.65	
M6	60	1.53	9.48	9.5	2.46	11.89	22.35	14.73	1.53	10.49	9.65	

SELF CLINCH LOW PROFILE PANEL FASTENER



Version: PF31

Version: PF32

General Info: Designed for installation into sheet metal.

Versions: PF31 for 1.0 mm sheet & PF32 for 1.5mm sheet

Materials: Retainer & Screw: Carbon Steel Bright Nickel over Copper Flash
Spring: Stainless Steel

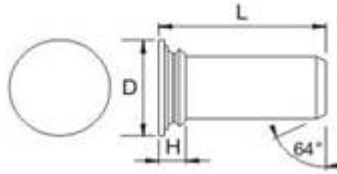
Advantages: Pre-assembled spring-loaded panel fastener.

When ordering: Please state: Version + Thread size

All data is correct to the best of our knowledge, however Headland cannot be held responsible for any errors or omissions.

Thread Size	Screw Length mm	A Max. mm	B Max. mm	C ± 0.4 mm	D ± 0.13 mm	E ± 0.25 mm	L Nom mm	L1 Max. mm	Sheet Thickness Min. mm	Recommended hole size + 0.08 mm	Distance centre line hole to sheet edge mm	Note!
M3	30	0.97	5.48	7.62	5.13	10.31	15.11	8.26	1	5.5	6.6	
M3	30	1.48	5.48	7.62	5.13	10.31	15.11	8.26	1.5	5.5	6.6	
M4	30	0.97	6.38	7.62	5.26	11.89	15.24	8.38	1	6.4	7.37	
M4	30	1.48	6.38	7.62	5.26	11.89	15.24	8.38	1.5	6.4	7.37	
M5	30	0.97	7.98	7.62	5.59	13.46	15.37	8.51	1	8.0	8.38	
M5	30	1.48	7.98	7.62	5.59	13.46	15.37	8.51	1.5	8.0	8.38	
M6	35	1.48	9.48	8.89	6.12	15.88	17.15	9.78	1.5	9.5	9.65	

SELF CLINCH PIN



Version: TP

General Info: Designed for installation into sheet metal.

Versions: TP

Materials: Steel/zinc TP
Stainless Steel TPS

Advantages: For a number of positioning, pivot and alignment applications.
Chamfered end makes mating hole location easier.

When ordering: Please state: Version + Pin Diameter + Length + Material

All data is correct to the best of our knowledge, however Headland cannot be held responsible for any errors or omissions.

Pin Diameter ± 0.5 mm	D ± 0.15 mm	H Max. mm	L ± 0.4 mm	Recommended hole size + 0.08 mm	Sheet Thickness Min. mm	Distance centre line hole to sheet edge mm	Note!
3	5.20	2.29	8/10/12/16	3.5	1	6.4	
4	6.12	2.29	8/10/12/16	4.5	1	7.1	
5	7.19	2.29	10/12/16/20	5.5	1	7.6	
6	8.13	2.29	12/16/20	6.5	1	7.9	