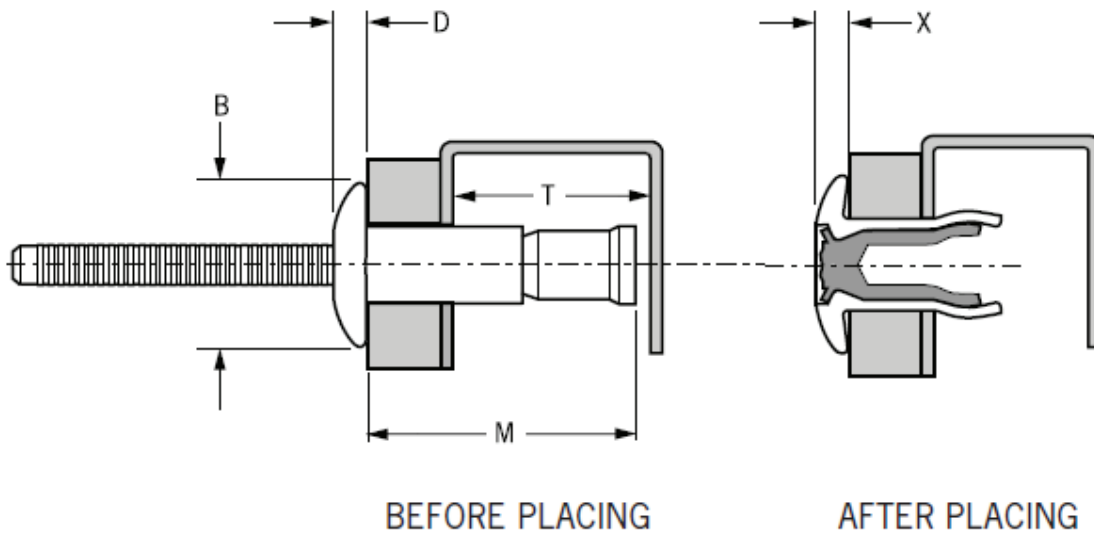


Flush Break Mono Fastener (MB)



Fastener Size nom.	M max.	Grip Range min. max.		Part Number	B max.	D max.	T max.	X max.	(Typical Values) Shear Tension kN kN	
4.8 (3/16")	18.2	1.63	6.86	02771-00613	10.1	2.1	10.4	2.9	6.4	5.1
4.9 5.1	24.4	1.63	11.10	02771-00617	10.1	2.1	13.5	2.9	6.4	5.1
6.4 (1/4")	23.7	2.03	9.53	02771-00817	13.3	2.9	12.2	3.7	11.7	10.4
6.6 7.0	32.9	2.03	15.87	02771-00824	13.3	2.9	16.4	3.7	11.7	10.4

Fastener Size nom.	M max.	Grip Range min. max.		Part Number	B max.	D max.	T max.	X max.	(Typical Values) Shear Tension kN kN	
4.8 (3/16")	18.3	1.63	6.86	02774-00613	10.1	2.1	10.4	2.9	3.0	2.2
4.9 5.1	24.0	1.63	11.10	02774-00617	10.1	2.1	13.0	2.9	3.0	2.2
6.4 (1/4")	24.5	2.03	9.53	02774-00817	13.3	2.9	13.0	3.7	6.0	4.2
6.6 7.0	34.7	2.03	15.87	02774-00824	13.3	2.9	18.00	3.7	6.0	4.2

4.8 / 6.4mm Fastener

Note

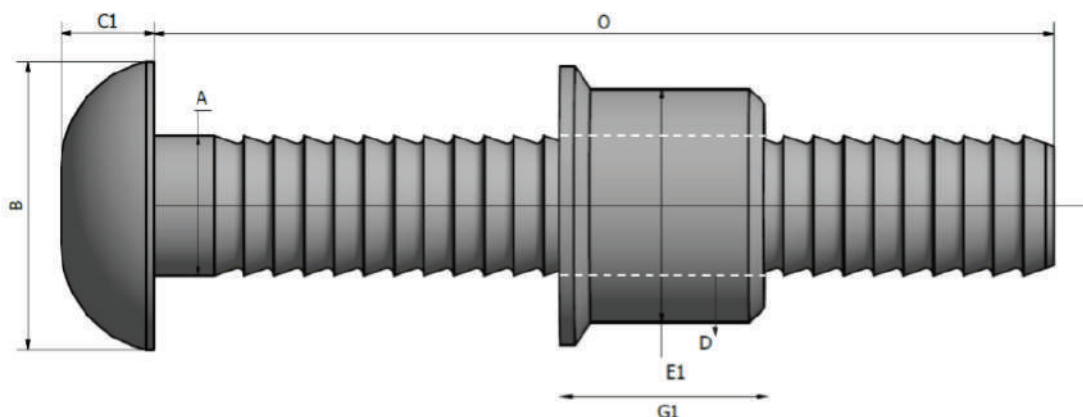
*A properly installed fastener will possess the dimensional characteristics as indicated above.

MonoGrip Fastener MB-2771 - Body (Carbon Steel) - Finish (Zinc Plated)

MonoGrip Fastener MB-2771 - Body (Stainless Steel) - Finish (Stainless Steel)

MonoGrip Fastener MB-2774 - Body (Aluminum Alloy) - Finish (Polished)

Flush Break Maxi Fastener (MGB)

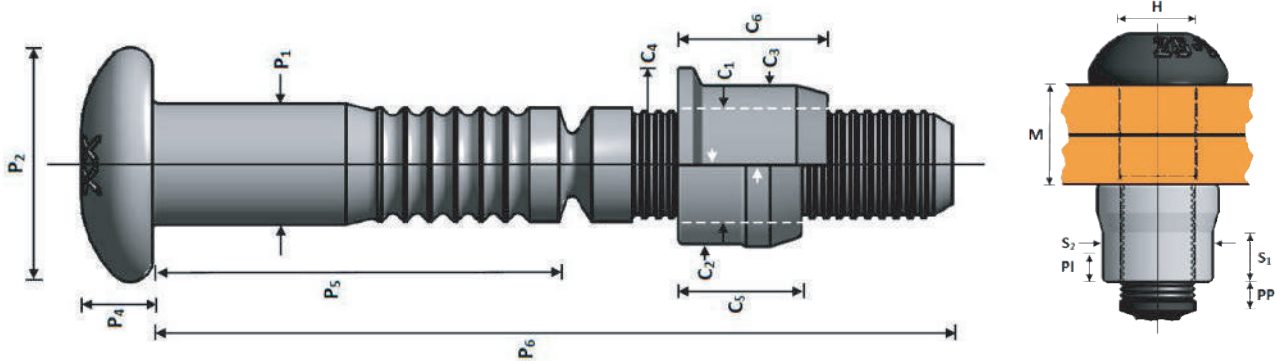


SWAGEBOLT PIN DIMENSION		5mm		6mm		10mm	
	Grip Range	2 - 18	8 - 32	2 - 18	8 - 32	3 - 25	20 - 40
A	Shank Dia. Max	4.96		5.95		9.73	
B	Head Dia. Max	9.8		11.5		19.7	
C ₁	Head Height Max.	3.15		3.8		6.2	
O	Length Max.	46.0	61.0	60.6	66.0	73.7	89.6
COLLAR DIMENSIONS							
D	Bore Dia. Nom.	4.9		6.0		10.0	
E ₁	Body Dia. Nom.	8.0		9.8		16.2	
	Flange Dia. Max.	9.7		12.3		20.2	
	Flange Height	1.3		1.7		2.6	
G ₁	Length	6.6		9.0		13.4	
INSTALLATION DATA							
	Swage Length Max.	1.3		2.6		2.6	
	Swage Dia. Max.	7.05		8.75		13.8	
	Pin Intrusion Max.	1.6		.32		6.3	
	Pin Protrusion Max.	0.8		.08		1.6	
	Prepared Hole Dia. Max.	5.2		6.2		10.2	
MECHANICAL PROPERTIES		5mm	6mm	10mm	5 / 6 / 10mm Fastener		
	Tensile Strength Min.	6.0 KN Min.	9.18 KN Min.	26.82 KN Min.			
	Clamp Load Min.	3.18 KN Min.	4.87 KN Min.	16.06 KN Min.			
	Shear Strength Min.	5.5 KN Min.	7.9 KN Min.	21.0 KN Min.			

Note

*A properly installed fastener will possess the dimensional characteristics as indicated above.

Swagebolt Fastener



SWAGEBOLT PIN DIMENSIONS			Grip Number	Grip Range (M)	Pin Length (P ₆)	Break Length (P ₅)
P ₁	Shank Diameter	9.77-10.00	01	1.5-7.5	53	19.5
P ₂	Head Diameter	18.16-19.94	04	4.5-10.0	56	22.5
P ₄	Head Height	5.66-6.27	07	7.5-13.5	59	25.5
COLLAR DIMENSIONS			10	10.5-16.5	62	28.5
C ₁	Bore Diameter	9.53-9.80	13	13.5-19.5	65	31.5
C ₂	Outside Diameter	14.99-15.24	16	16.5-22.5	68	34.5
C ₃	Outside Diameter	15.25-15.35	19	19.5-25.5	71	37.5
C ₄	Flange Diameter	18.80-19.20	22	22.5-28.5	74	40.5
C ₅	Height	10.92-11.68	25	25.5-31.5	77	43.5
C ₆	Height	13.00-13.40	28	28.5-34.5	80	46.5
INSTALLATION INSPECTION DATA			31	31.5-37.5	83	49.5
S ₁	Swage Length	8.70 Min.	34	34.5-40.5	86	52.5
S ₂	Swage Diameter	13.30 Max.	37	37.5-43.5	89	55.5
PP	Pin Protrusion	7.10 Max.	40	40.5-46.5	92	58.5
PI	Pin Intrusion	1.58 Max.	<div>10mm Fastener</div>			
H	Hole Size	10.20 Max.				
MECHANICAL PROPERTIES						
Shear Strength		42.70 KN Min.				
Clamp Load		22.20 KN Min.				
Tensile Strength		41.40 KN Min.				

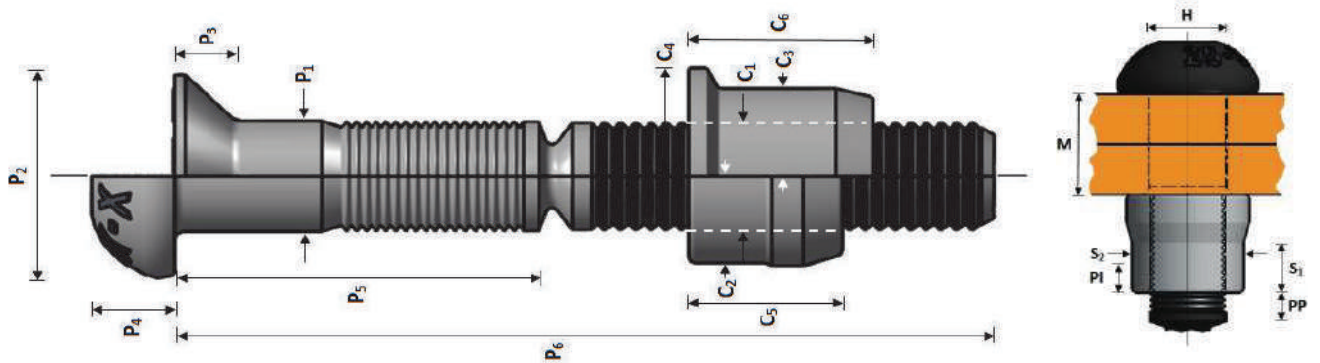
Note

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All fasteners will work with any total material thickness measured from the minimum to maximum grip.

When using Flanged (CF) Collars, always remember to add the flange thickness to the total material thickness (M) for proper grip selection.

Swagebolt Fastener



SWAGEBOLT PIN DIMENSIONS			Grip Number	Grip Range (M)	Pin Length (P ₆)	Break Length (P ₅)
P ₁	Shank Diameter	12.52-12.95	06	6-13	79	32
P ₂	Head Diameter	22.8-24.5	13	12-19	85	38
P ₃	Head Height	6.15 Max.	19	18-25	91	44
P ₄	Head Height	7.7-9.2	25	24-31	97	50
COLLAR DIMENSIONS			32	31-38	104	57
C ₁	Bore Diameter	13.2-13.4	38	37-44	110	63
C ₂	Outside Diameter	19.95-20.15	44	44-51	117	70
C ₃	Outside Diameter	20.1-20.3	51	50-57	123	76
C ₄	Flange Diameter	25.15-26.15	57	57-64	130	83
C ₅	Height	15.6-16.2	63	63-70	136	89
C ₆	Height	18.7-19.3	70	70-77	143	96
INSTALLATION INSPECTION DATA			77	77-84	150	103
S ₁	Swage Length	9.74 Min.	83	83-90	156	109
S ₂	Swage Diameter	18.40 Max.	89	89-96	162	115
PP	Pin Protrusion	9.0 Max.	95	95-102	168	121
PI	Pin Intrusion	1.50 Max.	13mm Fastener			
H	Hole Size	14.2 Max.				
MECHANICAL PROPERTIES						
Shear Strength		64 KN Min.				
Clamp Load		54 KN Min.				
Tensile Strength		76 KN Min.				

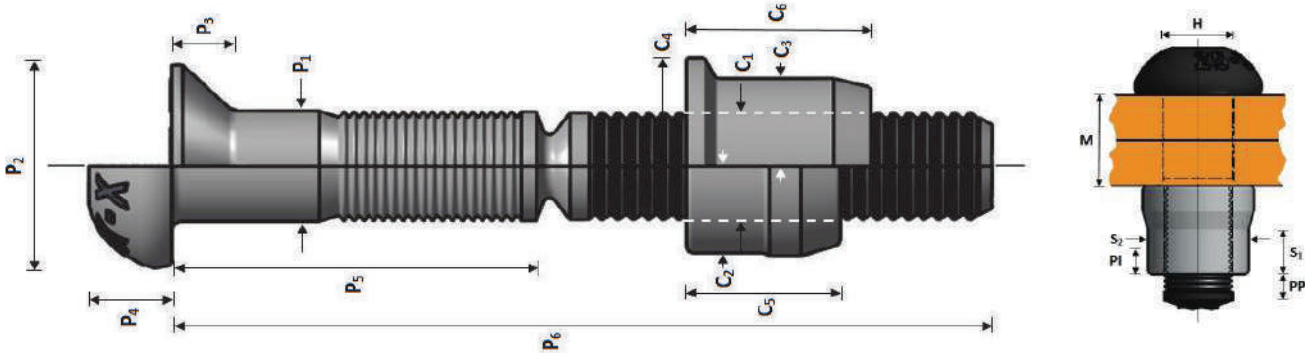
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Swagebolt Fastener



SWAGEBOLT PIN DIMENSIONS			Grip Number	Grip Range (M)	Pin Length (P ₆)	Break Length (P ₅)
P ₁	Shank Diameter	15.65-16.19	06	6-13	94	36
P ₂	Head Diameter	28.50-30.00	13	12-19	100	42
P ₃	Head Height	8.1Max.	19	18-25	106	48
P ₄	Head Height	9.50-11.30	25	24-31	112	54
COLLAR DIMENSIONS			32	31-38	119	61
C ₁	Bore Diameter	16.55-16.75	38	37-44	124	67
C ₂	Outside Diameter	24.70-24.90	44	44-51	132	74
C ₃	Outside Diameter	24.95-25.15	51	50-57	138	80
C ₄	Flange Diameter	31.3-32.3	57	57-64	145	87
C ₅	Height	21.7-22.5	63	63-70	151	93
C ₆	Height	23.7-24.3	70	70-77	158	100
INSTALLATION INSPECTION DATA			77	77-84	165	107
S ₁	Swage Length	15.69 Min.	83	83-90	171	113
S ₂	Swage Diameter	23.00 Max.	89	89-96	177	119
PP	Pin Protrusion	9.0 Max.	95	95-102	183	125
PI	Pin Intrusion	1.50 Max.	16mm Fastener			
H	Hole Size	17.50 Max.				
MECHANICAL PROPERTIES						
Shear Strength		101 KN Min.				
Clamp Load		86 KN Min.				
Tensile Strength		121 KN Min.				

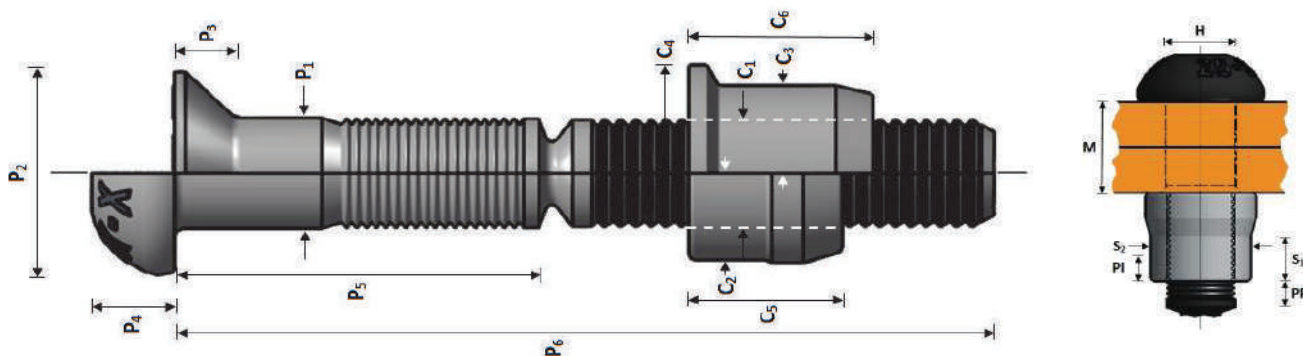
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Swagebolt Fastener



SWAGEBOLT PIN DIMENSIONS			Grip Number	Grip Range (M)	Pin Length (P ₆)	Break Length (P ₅)
P ₁	Shank Diameter	18.80-19.43	06	6-13	107	39
P ₂	Head Diameter	33.5-35.0	13	12-19	113	45
P ₃	Head Height	9.80 Max.	19	18-25	119	51
P ₄	Head Height	11.5-13.5	25	24-31	125	57
COLLAR DIMENSIONS			32	31-38	132	64
C ₁	Bore Diameter	19.80-20.00	38	37-44	138	70
C ₂	Outside Diameter	29.60-29.8	44	44-51	145	77
C ₃	Outside Diameter	29.95-30.15	51	50-57	151	83
C ₄	Flange Diameter	37.70-38.70	57	57-64	158	90
C ₅	Height	23.90-24.50	63	63-70	164	96
C ₆	Height	28.40-29.00	70	70-77	171	103
INSTALLATION INSPECTION DATA			77	77-84	178	110
S ₁	Swage Length	16.95 Min.	83	83-90	184	116
S ₂	Swage Diameter	27.80 Max.	89	89-96	190	122
PP	Pin Protrusion	9.00 Max.	95	95-102	196	128
PI	Pin Intrusion	1.50 Max.	<div>19mm Fastener</div>			
H	Hole Size	20.5 Max.				
MECHANICAL PROPERTIES						
Shear Strength		145 KN Min.				
Clamp Load		127 KN Min.				
Tensile Strength		179 KN Min.				

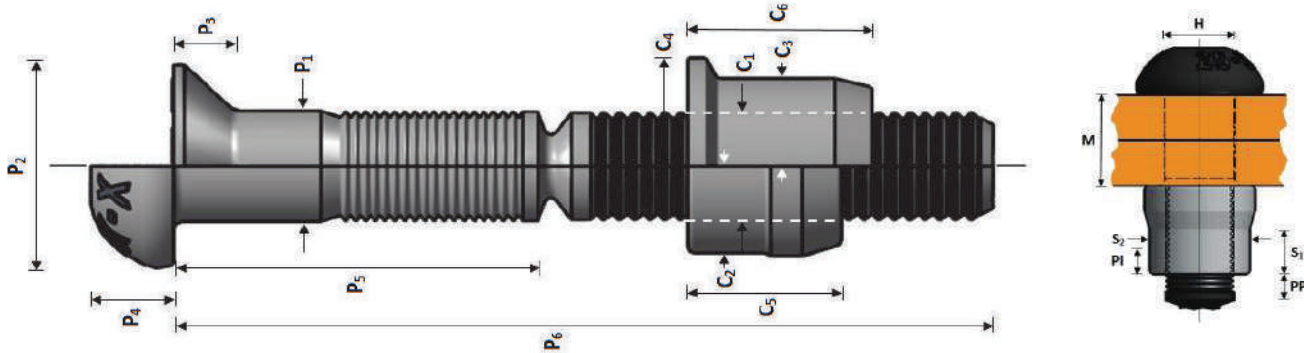
Note

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Swagebolt Fastener



SWAGEBOLT PIN DIMENSIONS			Grip Number	Grip Range (M)	Pin Length (P ₆)	Break Length (P ₅)
P ₁	Shank Diameter	22.00-22.60	06	6-13	114	42
P ₂	Head Diameter	39.00-41.00	13	12-19	120	48
P ₃	Head Height	10.0 Max.	19	18-25	126	54
P ₄	Head Height	13.50-15.30	25	24-31	132	60
COLLAR DIMENSIONS			32	31-38	139	67
C ₁	Bore Diameter	23.40-23.60	38	37-44	145	73
C ₂	Outside Diameter	34.55-34.85	44	44-51	152	80
C ₃	Outside Diameter	34.60-34.80	51	50-57	158	86
C ₄	Flange Diameter	40.0-41.0	57	57-64	165	93
C ₅	Height	27.85-28.15	63	63-70	171	99
C ₆	Height	33.3-33.9	70	70-77	178	106
INSTALLATION INSPECTION DATA			77	77-84	185	113
S ₁	Swage Length	19.35 Min.	83	83-90	191	119
S ₂	Swage Diameter	32.20 Max.	89	89-96	197	125
PP	Pin Protrusion	9.00 Max.	95	95-102	203	131
PI	Pin Intrusion	1.50 Max.	<div>22mm Fastener</div>			
H	Hole Size	23.5 Max.				
MECHANICAL PROPERTIES						
Shear Strength		194 KN Min.				
Clamp Load		175 KN Min.				
Tensile Strength		247 KN Min.				

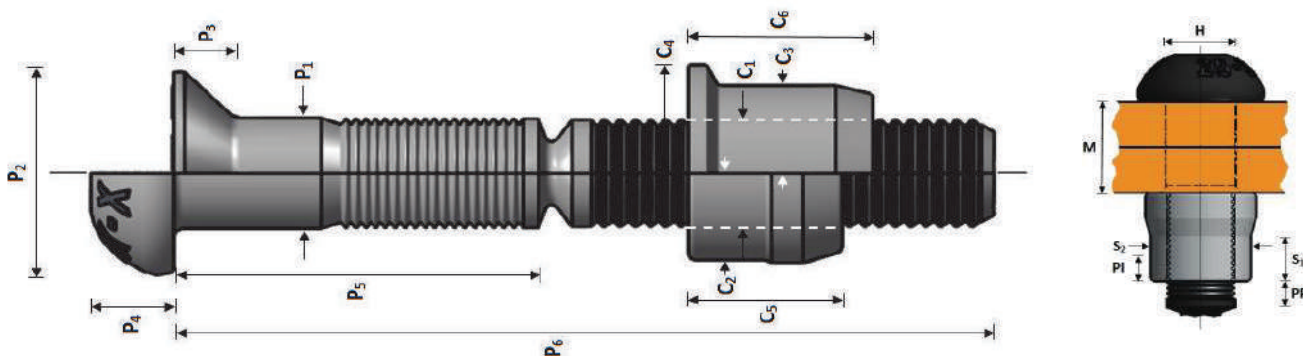
Note

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Swagebolt Fastener



SWAGEBOLT PIN DIMENSIONS			Grip Number	Grip Range (M)	Pin Length (P ₆)	Break Length (P ₅)
P ₁	Shank Diameter	25.10-25.90	06	6-13	129	46
P ₂	Head Diameter	45.00-48.00	13	12-19	135	52
P ₃	Head Height	13.80 Max.	19	18-25	142	58
P ₄	Head Height	15.00-17.70	25	24-31	147	64
COLLAR DIMENSIONS			32	31-38	154	71
C ₁	Bore Diameter	26.20-26.40	38	37-44	160	77
C ₂	Outside Diameter	39.55-39.85	44	44-51	167	84
C ₃	Outside Diameter	39.45-39.75	51	50-57	174	90
C ₄	Flange Diameter	47.50-48.50	57	57-64	180	97
C ₅	Height	31.55-31.95	63	63-70	186	103
C ₆	Height	37.95-38.25	70	70-77	193	110
INSTALLATION INSPECTION DATA			76	77-84	199	116
S ₁	Swage Length	21.95 Min.	83	83-90	206	123
S ₂	Swage Diameter	36.80 Max.	89	89-96	212	129
PP	Pin Protrusion	9.52 Max.	95	95-102	218	135
PI	Pin Intrusion	1.58 Max.	<div>25mm Fastener</div>			
H	Hole Size	27.00 Max.				
MECHANICAL PROPERTIES						
Shear Strength		251 KN Min.				
Clamp Load		229 KN Min.				
Tensile Strength		323 KN Min.				

Note

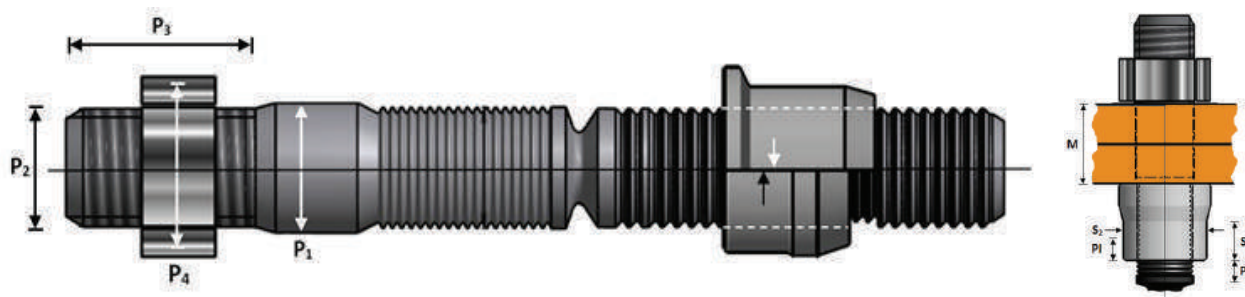
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Swagebolt Thread Head Fastener

MonoGrip N



NOTES

- Thread Head Swagebolt Pin shown is for **MonoGrip** applications only, with grip ranges as shown in our *Standard Swagebolt Section*.
- Thread Head Swagebolt Pins are also available in **MultiGrip** configuration with the thread length 'P₃' extended to suit the application requirements.

SWAGEBOLT PIN DIMENSIONS

P ₁	Shank Diameter	13mm	16mm	19mm	22mm	25mm
P ₂	Thread Type	1/2" UN	M16	3/4" UN	M22	1" UN
P ₃	Thread Length	14mm	16mm	19mm	21mm	26mm
P ₄	Nut Across Flats (AF)	19mm	24mm	30mm	32mm	38mm

INSTALLATION INSPECTION DATA

S ₁	Swage Length	9.74 Min.	<h1>Mono Grip N</h1>
S ₂	Swage Diameter	18.40 Max.	
PP	Pin Protrusion	9.52 Max.	
PI	Pin Intrusion	1.58 Max.	

HOW TO ORDER YOUR MONO GRIP 'TH' SWAGEBOLT PINS AND COLLARS

PIN	13	N	06	COLLAR	13	S
	 Diameter (P ₁)	 Thread Head	 Minimum Grip		 Diameter (P ₁)	 S – Standard F – Flanged

HOW TO ORDER YOUR MULTIGRIP 'TH' SWAGEBOLT PINS AND COLLARS

PIN	13	N	06 – 24	COLLAR	13	S
	 Diameter (P ₁)	 Thread Head	 Minimum Grip Maximum Grip		 Diameter (P ₁)	 S – Standard F – Flanged