

Replacement Insert Packets for Kits and Merchandiser - Metric

Most inserts in replacement packets are 1.5 x Diameter. For example - M6 is 9mm Long, 1/4" is 3/8" long.

Metric Coarse 25000+				Metric Medium 27000+				Metric Extra Fine 28000+			
Thread Size	Part No.	Ins/ Pkt	/	Thread Size	Part No.	Ins/ Pkt		Thread Size	Part No.	Ins/ Pkt	/
M2 - 0.4 x 1D	25022	10									
M2 - 0.4 x 1.5D	25023	10									
M2 - 0.4 x 2D	25024	10									
M2.2 - 0.45 x 1.5D	25013	10									
M2.5 - 0.45 x 1D	25252	10									
M2.5 - 0.45 x 1.5D	25253	10									
M2.5 - 0.45 x 2D	25254	10									
M3 - 0.5 x 1D	25032	10									
M3 - 0.5 x 1.5D	25033	10									
M3 - 0.5 x 2D	25034	10									
M3.5 - 0.6 x 1.5D	25353	10									
M4 - 0.7 x 1D	25042	10									
M4 - 0.7 x 1.5D	25043	10									
M4 - 0.7 x 2D	25044	10									
M5 - 0.8 x 1D	25052	10									
M5 - 0.8 x 1.5D	25053	10									
M5 - 0.8 x 2D	25054	10									
M6 - 1 x 1D	25062	10									
M6 - 1 x 1.5D	25063	10									
M6 - 1 x 2D	25064	10									
M6 - 1.0 x 2.5D	25065	10									
M7 - 1 x 1.D	25072	10									
M7 - 1 x 1.5D	25073	10									
M7 - 1 x 2.D	25074	10									
M8 - 1.25 x 1D	25082	10		M8 - 1 x 1D	27082	10					
M8 - 1.25 x 1.5D	25083	10		M8 - 1 x 1.5D	27083	10					
M8 - 1.25 x 2D	25084	10		M8 - 1 x 2.D	27084	10					
M8 - 1.25 x 2.5D	25085	10									
M9 - 1.25 x 1.5D	25093	10		M9 - 1 x 1.5D	27093	10					
M10 - 1.5 x 1D	25102	10		M10 - 1.25 x 1D	27102	10		M10 - 1 x 1D	28102	10	
M10 - 1.5 x 1.5D	25103	10		M10 - 1.25 x 1.5D	27103	10		M10 - 1 x 1.5D	28103	10	
M10 - 1.5 x 2D	25104	10		M10 - 1.25 x 2D	27104	10		M10 - 1 x 2D	28104	10	
M10 - 1.5 x 2.5D	25105	10		M10 - 1.25 x 3D	27106	10					
M11 - 1.5 x 1D	25112	10		M11 - 1.25 x 1.5D	27113	10		M11 - 1 x 1.5D	28113	10	
M11 - 1.5 x 1.5D	25113	10									
M12 - 1.75 x 1D	25122	10		M12 - 1.5 x 1D	27122	10		M12 - 1.25 x 1D	28122	10	
M12 - 1.75 x 1.5D	25123	10		M12 - 1.5 x 1.5D	27123	10		M12 - 1.25 x 1.5D	28123	10	
M12 - 1.75 x 2D	25124	10		M12 - 1.5 x 2D	27124	10		M12 - 1.25 x 2D	28124	10	
M13 - 1.75 x 1.5D	25133	5		M13 - 1.5 x 1.5D	27133	5		M13 - 1.25 x 1.5D	28133	10	
M14 - 2 x 1D	25142	5		M14 - 1.5 x 1.5D	27143	5					
M14 - 2 x 1.5D	25143	5		M14 - 1.5 x 2D	27144	5					
M14 - 2 x 2D	25144	5									
M15 - 2 x 1.5D	25153	5		M15 - 1.5 x 1.5D	27153	5					
M16 - 2 x 1D	25162	5		M16 - 1.5 x 1D	27162	5					
M16 - 2 x 1.5D	25163	5		M16 - 1.5 x 1.5D	27163	5					
M16 - 2 x 2D	25164	5		M16 - 1.5 x 2.5D	27165	5					
M16 - 2 x 2.5D	25165	5									
M18 - 2.5 x 1D	25182	5									
M18 - 2.5 x 1.5D	25183	5		M18 - 2 x 1.5D	27183	5		M18 - 1.5 x 1.5D	28183	5	
M20 - 2.5 x 1.5D	25203	5		M20 - 2 x 1.5D	27203	5		M20 - 1.5 x 1.5D	28203	5	
M22 - 2.5 x 1.5D	25223	3		M22 - 2 x 1.5D	27223	3		M22 - 1.5 x 1.5D	28223	3	
M24 - 3 x 1.5D	25243	3		M24 - 2 x 1.5D	27243	3		M24 - 1.5 x 1.5D	28243	3	
M30 - 3.5 x 1.5D	25303	1						M26 - 1.5 x 1.5D	28263	1	

Replacement Insert Packets for Kits and Merchandiser - Inch

Most inserts in replacement packets are 1.5 x Diameter. For example - M6 is 9mm Long, 1/4" is 3/8" long.

UNC 23000+			
Thread Size	Part No.	Ins/Pkt	
#2 - 56 x 1D	23522	10	
#2 - 56 x 1.5D	23523	10	
#3 - 48 x 1.5D	23533	10	
#4 - 40 x 1D	23542	10	
#4 - 40 x 1.5D	23543	10	
#4 - 40 x 2D	23544	10	
#5 - 40 x 1D	23552	10	
#5 - 40 x 1.5D	23553	10	
#5 - 40 x 2D	23554	10	
#6 - 32 x 1D	23562	10	
#6 - 32 x 1.5D	23563	10	
#6 - 32 x 2D	23564	10	
#8 - 32 x 1D	23582	10	
#8 - 32 x 1.5D	23583	10	
#8 - 32 x 2D	23584	10	
#10 - 24 x 1D	23602	10	
#10 - 24 x 1.5D	23603	10	
#10 - 24 x 2D	23604	10	
#12 - 24 x 1D	23622	10	
#12 - 24 x 1.5D	23623	10	
1/4 - 20 x 1D	23042	10	
1/4 - 20 x 1.5D	23043	10	
1/4 - 20 x 2D	23044	10	
5/16 - 18 x 1D	23052	10	
5/16 - 18 x 1.5D	23053	10	
5/16 - 18 x 2D	23054	10	
3/8 - 16 x 1D	23062	10	
3/8 - 16 x 1.5D	23063	10	
3/8 - 16 x 2D	23064	10	
7/16 - 14 x 1D	23072	10	
7/16 - 14 x 1.5D	23073	10	
7/16 - 14 x 2D	23074	10	
1/2 - 13 x 1D	23082	10	
1/2 - 13 x 1.5D	23083	10	
1/2 - 13 x 2D	23084	10	
9/16 - 12 x 1D	23092	5	
9/16 - 12 x 1.5D	23093	5	
5/8 - 11 x 1D	23102	5	
5/8 - 11 x 1.5D	23103	5	
11/16 - 11 x 1.5D	23113	5	
3/4 - 10 x 1D	23122	5	
3/4 - 10 x 1.5D	23123	5	
7/8 - 9 x 1.5D	23143	3	
1" - 8 x 1.5D	23163	3	
1 1/8 - 7 x 1D	23182	1	
1 1/8 - 7 x 1.5D	23183	1	
1 1/4 - 7 x 1D	23202	1	
1 1/4 - 7 x 1.5D	23203	1	
1 3/8 - 6 x 1.5D	23223	1	
1 1/2 - 6 x 1D	23242	1	
1 1/2 - 6 x 1.5D	23243	1	

UNF 24000+			
Thread Size	Part No.	Ins/Pkt	
#3 - 56 x 1.5D	24533	10	
#4 - 48 x 1.5D	24543	10	
#6 - 40 x 1D	24562	10	
#6 - 40 x 1.5D	24563	10	
#8 - 36 x 1.5D	24583	10	
#10 - 32 x 1D	24602	10	
#10 - 32 x 1.5D	24603	10	
#10 - 32 x 2D	24604	10	
#12 - 28 x 1.5D	24623	10	
1/4 - 28 x 1D	24042	10	
1/4 - 28 x 1.5D	24043	10	
1/4 - 28 x 2D	24044	10	
5/16 - 24 x 1D	24052	10	
5/16 - 24 x 1.5D	24053	10	
5/16 - 24 x 2D	24054	10	
3/8 - 24 x 1D	24062	10	
3/8 - 24 x 1.5D	24063	10	
3/8 - 24 x 2D	24064	10	
7/16 - 20 x 1D	24072	10	
7/16 - 20 x 1.5D	24073	10	
7/16 - 20 x 2D	24074	10	
1/2 - 20 x 1D	24082	10	
1/2 - 20 x 1.5D	24083	10	
1/2 - 20 x 2D	24084	10	
9/16 - 18 x 1D	24092	5	
9/16 - 18 x 1.5D	24093	5	
5/8 - 18 x 1D	24102	5	
5/8 - 18 x 1.5D	24103	5	
3/4 - 16 x 1D	24122	5	
3/4 - 16 x 1.5D	24123	5	
7/8 - 14 x 1.5D	24143	3	
1" - 12 x 1.5D	24163	3	
1 1/8 - 12 x 1D	24182	1	
1 1/8 - 12 x 1.5D	24183	1	
1 1/4 - 12 x 1D	24202	1	
1 1/4 - 12 x 1.5D	24203	1	
1 3/8 - 12 x 1.5D	24223	1	
1 1/2 - 12 x 1D	24242	1	
1 1/2 - 12 x 1.5D	24243	1	



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BSF 20000+			
Thread Size	Part No.	Ins/ Pkt	
3/16 - 32 x 1D	20032	10	
3/16 - 32 x 1.5D	20033	10	
3/16 - 32 x 2D	20034	10	
5/16 - 22 x 1.5D	20052	10	
5/16 - 22 x 1D	20053	10	
5/16 - 22 x 2D	20054	10	
3/8 - 20 x 1D	20062	10	
3/8 - 20 x 1.5D	20063	10	
3/8 - 20 x 2D	20064	10	
7/16 - 18 x 1D	20072	10	
7/16 - 18 x 1.5D	20073	10	
7/16 - 18 x 2D	20074	10	
1/2 - 16 x 1D	20082	10	
1/2 - 16 x 1.5D	20083	10	
1/2 - 16 x 2D	20084	10	
9/16 - 16 x 1.5D	20093	5	
5/8 - 14 x 1.5D	20103	5	
3/4 - 12 x 1.5D	20123	5	
7/8 - 11 x 1.5D	20143	3	
1" - 10 x 1.5D	20163	3	

BA 20500+			
Thread Size	Part No.	Ins/ Pkt	
0BA x 1.5D	20503	10	
2BA x 1.5D	20523	10	
4BA x 1.5D	20543	10	
6BA x 1.5D	20563	10	

SPARKPLUG 28000+			
Thread Size	Part No.	Ins/ Pkt	
M10 - 1 x 1D	28102	10	
M10 - 1 x 1.5D	28103	10	
M10 - 1 x 2D	28104	10	
M10 - 1 x 6.8mm	28107	10	
M10 - 1 x .339"	28108	10	
M10 - 1 x 1/2"	28109	10	
M14 - 1.25 x 3/4"	28140	10	
M14 - 1.25 x 7/16"	28147	10	
M14 - 1.25 x 3/8"	28148	10	
M14 - 1.25 x 1/2"	28149	10	
M18 - 1.5 x 1/2"	28189	5	

BSP 21000+			
Thread Size	Part No.	Ins/ Pkt	
1/8 - 28 x 1D	21022	10	
1/8 - 28 x 1.5D	21023	10	
1/8 - 28 x 12D	21024	10	
1/4 - 19 x 1D	21042	10	
1/4 - 19 x 1.5D	21043	10	
1/4 - 19 x 2D	21044	10	
3/8 - 19 x 1D	21062	10	
3/8 - 19 x 1.5D	21063	10	
3/8 - 19 x 2D	21064	10	
1/2 - 14 x 1.5D	21082	5	
1/2 - 14 x 1.5D	21083	5	
1/2 - 14 x 1.5D	21084	5	
3/4 - 14 x 1.5D	21123	5	
1" - 11 x 1.5D	21163	3	

NPT 26000+			
Thread Size	Part No.	Ins/ Pkt	
1/8 - 27 x 1.5D	26023	10	
1/4 - 18 x 1.5D	26043	10	
3/8 - 18 x .407D	26063	10	
1/2 - 14 x 1.5D	26083	5	
3/4 - 14 x .553D	26123	5	
1 - 11 1/2 x 1.65D	26163	3	

BICYCLE DERAILLEUR KIT			
Thread Size	Part No.	Ins/ Pkt	
M10 - 1 x 6.8mm	28107	10	

BICYCLE CRANK KIT			
Thread Size	Part No.	Ins/ Pkt	
9/16 - 20 x 1/2	24090-20	10	
9/16 - 20 x 1/2	24090-20LH	10	

BSW 22000+			
Thread Size	Part No.	Ins/ Pkt	
1/8 - 40 x 1.5D	22023	10	
3/16 - 24 x 1.5D	22033	10	
1/4 - 20 x 1.5D	22043	10	
5/16 - 18 x 1.5D	22053	10	
3/8 - 16 x 1.5D	22063	10	
7/16 - 14 x 1.5D	22073	10	
1/2 - 12 x 1D	22082	10	
1/2 - 12 x 1.5D	22083	10	
1/2 - 12 x 2D	22084	10	
9/16 - 12 x 1.5D	22093	5	
5/8 - 11 x 1.5D	22103	5	
3/4 - 10 x 1.5D	22123	5	
7/8 - 9 x 1.5D	22143	3	
1" - 8 x 1.5D	22163	3	

BSC 26500+			
Thread Size	Part No.	Ins/ Pkt	
5/16 - 26 x 1.5D	26503	10	
3/8 - 26 x 1.5D	26603	10	
7/16 - 26 x 1.5D	26703	10	
1/2 - 26 x 1.5D	26803	10	

EXHAUST ANALYSIS 28000+				
Thread Size	Part No.	Length	Ins/ Pkt	
M18 - 1.5	28181X	9mm	5	
NB: This pkt contains 5 high temperature Inconel Inserts				



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Metric Coarse 25000+				Metric Medium 27000+				Metric Extra Fine 28000+			
Thread Size	Part No.	Ins/ Pkt	/	Thread Size	Part No.	Ins/ Pkt		Thread Size	Part No.	Ins/ Pkt	/
M2 - 0.4 x 1D	25022	10									
M2 - 0.4 x 1.5D	25023	10									
M2 - 0.4 x 2D	25024	10									
M2.2 - 0.45 x 1.5D	25013	10									
M2.5 - 0.45 x 1D	25252	10									
M2.5 - 0.45 x 1.5D	25253	10									
M2.5 - 0.45 x 2D	25254	10									
M3 - 0.5 x 1D	25032	10									
M3 - 0.5 x 1.5D	25033	10									
M3 - 0.5 x 2D	25034	10									
M3.5 - 0.6 x 1.5D	25353	10									
M4 - 0.7 x 1D	25042	10									
M4 - 0.7 x 1.5D	25043	10									
M4 - 0.7 x 2D	25044	10									
M5 - 0.8 x 1D	25052	10									
M5 - 0.8 x 1.5D	25053	10									
M5 - 0.8 x 2D	25054	10									
M6 - 1 x 1D	25062	10									
M6 - 1 x 1.5D	25063	10									
M6 - 1 x 2D	25064	10									
M6 - 1.0 x 2.5D	25065	10									
M7 - 1 x 1.D	25072	10									
M7 - 1 x 1.5D	25073	10									
M7 - 1 x 2.D	25074	10									
M8 - 1.25 x 1D	25082	10		M8 - 1 x 1D	27082	10					
M8 - 1.25 x 1.5D	25083	10		M8 - 1 x 1.5D	27083	10					
M8 - 1.25 x 2D	25084	10		M8 - 1 x 2.D	27084	10					
M8 - 1.25 x 2.5D	25085	10									
M9 - 1.25 x 1.5D	25093	10		M9 - 1 x 1.5D	27093	10					
M10 - 1.5 x 1D	25102	10		M10 - 1.25 x 1D	27102	10		M10 - 1 x 1D	28102	10	
M10 - 1.5 x 1.5D	25103	10		M10 - 1.25 x 1.5D	27103	10		M10 - 1 x 1.5D	28103	10	
M10 - 1.5 x 2D	25104	10		M10 - 1.25 x 2D	27104	10		M10 - 1 x 2D	28104	10	
M10 - 1.5 x 2.5D	25105	10		M10 - 1.25 x 3D	27106	10					
M11 - 1.5 x 1D	25112	10		M11 - 1.25 x 1.5D	27113	10		M11 - 1 x 1.5D	28113	10	
M11 - 1.5 x 1.5D	25113	10									
M12 - 1.75 x 1D	25122	10		M12 - 1.5 x 1D	27122	10		M12 - 1.25 x 1D	28122	10	
M12 - 1.75 x 1.5D	25123	10		M12 - 1.5 x 1.5D	27123	10		M12 - 1.25 x 1.5D	28123	10	
M12 - 1.75 x 2D	25124	10		M12 - 1.5 x 2D	27124	10		M12 - 1.25 x 2D	28124	10	
M13 - 1.75 x 1.5D	25133	5		M13 - 1.5 x 1.5D	27133	5		M13 - 1.25 x 1.5D	28133	10	
M14 - 2 x 1D	25142	5		M14 - 1.5 x 1.5D	27143	5					
M14 - 2 x 1.5D	25143	5		M14 - 1.5 x 2D	27144	5					
M14 - 2 x 2D	25144	5									
M15 - 2 x 1.5D	25153	5		M15 - 1.5 x 1.5D	27153	5					
M16 - 2 x 1D	25162	5		M16 - 1.5 x 1D	27162	5					
M16 - 2 x 1.5D	25163	5		M16 - 1.5 x 1.5D	27163	5					
M16 - 2 x 2D	25164	5		M16 - 1.5 x 2.5D	27165	5					
M16 - 2 x 2.5D	25165	5									
M18 - 2.5 x 1D	25182	5									
M18 - 2.5 x 1.5D	25183	5		M18 - 2 x 1.5D	27183	5		M18 - 1.5 x 1.5D	28183	5	
M20 - 2.5 x 1.5D	25203	5		M20 - 2 x 1.5D	27203	5		M20 - 1.5 x 1.5D	28203	5	
M22 - 2.5 x 1.5D	25223	3		M22 - 2 x 1.5D	27223	3		M22 - 1.5 x 1.5D	28223	3	
M24 - 3 x 1.5D	25243	3		M24 - 2 x 1.5D	27243	3		M24 - 1.5 x 1.5D	28243	3	
M30 - 3.5 x 1.5D	25303	1						M26 - 1.5 x 1.5D	28263	1	

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Thread Size	Part No.	Ins/Pkt	
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#4 - 40 x 1D	23542	10	
#4 - 40 x 1.5D	23543	10	
#4 - 40 x 2D	23544	10	
#5 - 40 x 1D	23552	10	
#5 - 40 x 1.5D	23553	10	
#5 - 40 x 2D	23554	10	
#6 - 32 x 1D	23562	10	
#6 - 32 x 1.5D	23563	10	
#6 - 32 x 2D	23564	10	
#8 - 32 x 1D	23582	10	
#8 - 32 x 1.5D	23583	10	
#8 - 32 x 2D	23584	10	
#10 - 24 x 1D	23602	10	
#10 - 24 x 1.5D	23603	10	
#10 - 24 x 2D	23604	10	
#12 - 24 x 1D	23622	10	
#12 - 24 x 1.5D	23623	10	
1/4 - 20 x 1D	23042	10	
1/4 - 20 x 1.5D	23043	10	
1/4 - 20 x 2D	23044	10	
5/16 - 18 x 1D	23052	10	
5/16 - 18 x 1.5D	23053	10	
5/16 - 18 x 2D	23054	10	
3/8 - 16 x 1D	23062	10	
3/8 - 16 x 1.5D	23063	10	
3/8 - 16 x 2D	23064	10	
7/16 - 14 x 1D	23072	10	
7/16 - 14 x 1.5D	23073	10	
7/16 - 14 x 2D	23074	10	
1/2 - 13 x 1D	23082	10	
1/2 - 13 x 1.5D	23083	10	
1/2 - 13 x 2D	23084	10	
9/16 - 12 x 1D	23092	5	
9/16 - 12 x 1.5D	23093	5	
5/8 - 11 x 1D	23102	5	
5/8 - 11 x 1.5D	23103	5	
11/16 - 11 x 1.5D	23113	5	
3/4 - 10 x 1D	23122	5	
3/4 - 10 x 1.5D	23123	5	
7/8 - 9 x 1.5D	23143	3	
1" - 8 x 1.5D	23163	3	
1 1/8 - 7 x 1D	23182	1	
1 1/8 - 7 x 1.5D	23183	1	
1 1/4 - 7 x 1D	23202	1	
1 1/4 - 7 x 1.5D	23203	1	
1 3/8 - 6 x 1.5D	23223	1	
1 1/2 - 6 x 1D	23242	1	
1 1/2 - 6 x 1.5D	23243	1	

UNF 24000+			
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#3 - 56 x 1.5D	24533	10	
#4 - 48 x 1.5D	24543	10	
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#6 - 40 x 1.5D	24563	10	
#8 - 36 x 1.5D	24583	10	
#10 - 32 x 1D	24602	10	
#10 - 32 x 1.5D	24603	10	
#10 - 32 x 2D	24604	10	
#12 - 28 x 1.5D	24623	10	
1/4 - 28 x 1D	24042	10	
1/4 - 28 x 1.5D	24043	10	
1/4 - 28 x 2D	24044	10	
5/16 - 24 x 1D	24052	10	
5/16 - 24 x 1.5D	24053	10	
5/16 - 24 x 2D	24054	10	
3/8 - 24 x 1D	24062	10	
3/8 - 24 x 1.5D	24063	10	
3/8 - 24 x 2D	24064	10	
7/16 - 20 x 1D	24072	10	
7/16 - 20 x 1.5D	24073	10	
7/16 - 20 x 2D	24074	10	
1/2 - 20 x 1D	24082	10	
1/2 - 20 x 1.5D	24083	10	
1/2 - 20 x 2D	24084	10	
9/16 - 18 x 1D	24092	5	
9/16 - 18 x 1.5D	24093	5	
5/8 - 18 x 1D	24102	5	
5/8 - 18 x 1.5D	24103	5	
3/4 - 16 x 1D	24122	5	
3/4 - 16 x 1.5D	24123	5	
7/8 - 14 x 1.5D	24143	3	
1" - 12 x 1.5D	24163	3	
1 1/8 - 12 x 1D	24182	1	
1 1/8 - 12 x 1.5D	24183	1	
1 1/4 - 12 x 1D	24202	1	
1 1/4 - 12 x 1.5D	24203	1	
1 3/8 - 12 x 1.5D	24223	1	
1 1/2 - 12 x 1D	24242	1	
1 1/2 - 12 x 1.5D	24243	1	



Replacement Insert Packets for Kits and Merchandiser - Inch

Most inserts in replacement packets are 1.5 x Diameter. For example - M6 is 9mm Long, 1/4" is 3/8" long.

BSF 20000+			
Thread Size	Part No.	Ins/ Pkt	
3/16 - 32 x 1D	20032	10	
3/16 - 32 x 1.5D	20033	10	
3/16 - 32 x 2D	20034	10	
5/16 - 22 x 1.5D	20052	10	
5/16 - 22 x 1D	20053	10	
5/16 - 22 x 2D	20054	10	
3/8 - 20 x 1D	20062	10	
3/8 - 20 x 1.5D	20063	10	
3/8 - 20 x 2D	20064	10	
7/16 - 18 x 1D	20072	10	
7/16 - 18 x 1.5D	20073	10	
7/16 - 18 x 2D	20074	10	
1/2 - 16 x 1D	20082	10	
1/2 - 16 x 1.5D	20083	10	
1/2 - 16 x 2D	20084	10	
9/16 - 16 x 1.5D	20093	5	
5/8 - 14 x 1.5D	20103	5	
3/4 - 12 x 1.5D	20123	5	
7/8 - 11 x 1.5D	20143	3	
1" - 10 x 1.5D	20163	3	

BA 20500+			
Thread Size	Part No.	Ins/ Pkt	
0BA x 1.5D	20503	10	
2BA x 1.5D	20523	10	
4BA x 1.5D	20543	10	
6BA x 1.5D	20563	10	

SPARKPLUG 28000+			
Thread Size	Part No.	Ins/ Pkt	
M10 - 1 x 1D	28102	10	
M10 - 1 x 1.5D	28103	10	
M10 - 1 x 2D	28104	10	
M10 - 1 x 6.8mm	28107	10	
M10 - 1 x .339"	28108	10	
M10 - 1 x 1/2"	28109	10	
M14 - 1.25 x 3/4"	28140	10	
M14 - 1.25 x 7/16"	28147	10	
M14 - 1.25 x 3/8"	28148	10	
M14 - 1.25 x 1/2"	28149	10	
M18 - 1.5 x 1/2"	28189	5	

BSP 21000+			
Thread Size	Part No.	Ins/ Pkt	
1/8 - 28 x 1D	21022	10	
1/8 - 28 x 1.5D	21023	10	
1/8 - 28 x 12D	21024	10	
1/4 - 19 x 1D	21042	10	
1/4 - 19 x 1.5D	21043	10	
1/4 - 19 x 2D	21044	10	
3/8 - 19 x 1D	21062	10	
3/8 - 19 x 1.5D	21063	10	
3/8 - 19 x 2D	21064	10	
1/2 - 14 x 1.5D	21082	5	
1/2 - 14 x 1.5D	21083	5	
1/2 - 14 x 1.5D	21084	5	
3/4 - 14 x 1.5D	21123	5	
1" - 11 x 1.5D	21163	3	

NPT 26000+			
Thread Size	Part No.	Ins/ Pkt	
1/8 - 27 x 1.5D	26023	10	
1/4 - 18 x 1.5D	26043	10	
3/8 - 18 x .407D	26063	10	
1/2 - 14 x 1.5D	26083	5	
3/4 - 14 x .553D	26123	5	
1 - 11 1/2 x 1.65D	26163	3	

BICYCLE DERAILLEUR KIT			
Thread Size	Part No.	Ins/ Pkt	
M10 - 1 x 6.8mm	28107	10	

BICYCLE CRANK KIT			
Thread Size	Part No.	Ins/ Pkt	
9/16 - 20 x 1/2	24090-20	10	
9/16 - 20 x 1/2	24090-20LH	10	

BSW 22000+			
Thread Size	Part No.	Ins/ Pkt	
1/8 - 40 x 1.5D	22023	10	
3/16 - 24 x 1.5D	22033	10	
1/4 - 20 x 1.5D	22043	10	
5/16 - 18 x 1.5D	22053	10	
3/8 - 16 x 1.5D	22063	10	
7/16 - 14 x 1.5D	22073	10	
1/2 - 12 x 1D	22082	10	
1/2 - 12 x 1.5D	22083	10	
1/2 - 12 x 2D	22084	10	
9/16 - 12 x 1.5D	22093	5	
5/8 - 11 x 1.5D	22103	5	
3/4 - 10 x 1.5D	22123	5	
7/8 - 9 x 1.5D	22143	3	
1" - 8 x 1.5D	22163	3	

BSC 26500+			
Thread Size	Part No.	Ins/ Pkt	
5/16 - 26 x 1.5D	26503	10	
3/8 - 26 x 1.5D	26603	10	
7/16 - 26 x 1.5D	26703	10	
1/2 - 26 x 1.5D	26803	10	

EXHAUST ANALYSIS 28000+				
Thread Size	Part No.	Length	Ins/ Pkt	
M18 - 1.5	28181X	9mm	5	
NB: This pkt contains 5 high temperature Inconel Inserts				



Bulk Inserts Free Running - Metric

METRIC COARSE		INSTALLED LENGTH			METRIC FINE	
Thread Size	Part No.	inches	mm	D's	Thread Size	Part No.
M2 - 0.4	05022	0.079	2.0	1D		
	05023	0.118	3.0	1.5D		
	05024	0.157	4.0	2D		
	05025 ▲	0.197	5.0	2.5D		
	05026 ▲	0.236	6.0	3D		
M2.2 - 0.45	05012	0.087	2.2	1D		
	05013	0.13	3.3	1.5D		
	05014	0.173	4.4	2D		
	05015 ▲	0.217	5.5	2.5D		
	05016 ▲	0.26	6.6	3D		
M2.5 - 0.45	05252	0.098	2.5	1D		
	05253	0.15	3.8	1.5D		
	05254	0.197	5.0	2D		
	05255	0.248	6.3	2.5D		
	05256	0.295	7.5	3D		
M3 - 0.5	05032	0.118	3.0	1D		
	05033	0.177	4.5	1.5D		
	05034	0.236	6.0	2D		
	05035	0.295	7.5	2.5D		
	05036	0.354	9.0	3D		
M3.5 - 0.6	05352	0.138	3.5	1D		
	05353	0.209	5.3	1.5D		
	05354	0.276	7.0	2D		
	05355 ▲	0.346	8.8	2.5D		
	05356 ▲	0.413	10.5	3D		
M4 - 0.7	05042	0.157	4.0	1D		
	05043	0.236	6.0	1.5D		
	05044	0.315	8.0	2D		
	05045	0.394	10.0	2.5D		
	05046	0.472	12.0	3D		
M5 - 0.8	05052	0.197	5.0	1D		
	05053	0.295	7.5	1.5D		
	05054	0.394	10.0	2D		
	05055	0.492	12.5	2.5D		
	05056	0.591	15.0	3D		
M6 - 1	05062	0.236	6.0	1D		
	05063	0.354	9.0	1.5D		
	05064	0.472	12.0	2D		
	05065	0.591	15.0	2.5D		
	05066	0.709	18.0	3D		
M7 - 1	05072	0.276	7.0	1D		
	05073	0.413	10.5	1.5D		
	05074	0.551	14.0	2D		
	05075	0.689	17.5	2.5D		
	05076	0.827	21.0	3D		
M8 - 1.25	05082	0.945	24.0	1D	M8 - 1	07082
	05083	0.472	12.0	1.5D		07083
	05084	0.63	16.0	2D		07084
	05085	0.787	20.0	2.5D		07085
	05086	0.945	24.0	3D		07086

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Dry film lubing and plating available.

Bulk Inserts Free Running - Metric

METRIC COARSE		INSTALLED LENGTH			METRIC FINE	
Thread Size	Part No.	inches	mm	D's	Thread Size	Part No.
M2 - 0.4	05022	0.079	2.0	1D		
	05023	0.118	3.0	1.5D		
	05024	0.157	4.0	2D		
	05025 ▲	0.197	5.0	2.5D		
	05026 ▲	0.236	6.0	3D		
M2.2 - 0.45	05012	0.087	2.2	1D		
	05013	0.13	3.3	1.5D		
	05014	0.173	4.4	2D		
	05015 ▲	0.217	5.5	2.5D		
	05016 ▲	0.26	6.6	3D		
M2.5 - 0.45	05252	0.098	2.5	1D		
	05253	0.15	3.8	1.5D		
	05254	0.197	5.0	2D		
	05255	0.248	6.3	2.5D		
	05256	0.295	7.5	3D		
M3 - 0.5	05032	0.118	3.0	1D		
	05033	0.177	4.5	1.5D		
	05034	0.236	6.0	2D		
	05035	0.295	7.5	2.5D		
	05036	0.354	9.0	3D		
M3.5 - 0.6	05352	0.138	3.5	1D		
	05353	0.209	5.3	1.5D		
	05354	0.276	7.0	2D		
	05355 ▲	0.346	8.8	2.5D		
	05356 ▲	0.413	10.5	3D		
M4 - 0.7	05042	0.157	4.0	1D		
	05043	0.236	6.0	1.5D		
	05044	0.315	8.0	2D		
	05045	0.394	10.0	2.5D		
	05046	0.472	12.0	3D		
M5 - 0.8	05052	0.197	5.0	1D		
	05053	0.295	7.5	1.5D		
	05054	0.394	10.0	2D		
	05055	0.492	12.5	2.5D		
	05056	0.591	15.0	3D		
M6 - 1	05062	0.236	6.0	1D		
	05063	0.354	9.0	1.5D		
	05064	0.472	12.0	2D		
	05065	0.591	15.0	2.5D		
	05066	0.709	18.0	3D		
M7 - 1	05072	0.276	7.0	1D		
	05073	0.413	10.5	1.5D		
	05074	0.551	14.0	2D		
	05075	0.689	17.5	2.5D		
	05076	0.827	21.0	3D		
M8 - 1.25	05082	0.945	24.0	1D	M8 - 1	07082
	05083	0.472	12.0	1.5D		07083
	05084	0.63	16.0	2D		07084
	05085	0.787	20.0	2.5D		07085
	05086	0.945	24.0	3D		07086

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Dry film lubing and plating available.

Bulk Inserts Free Running - Metric

METRIC COARSE		INSTALLED LENGTH			METRIC FINE	
Thread Size	Part No.	inches	mm	D's	Thread Size	Part No.
		0.315	8.0	1D	M8 - 0.75	08082 ▲
		0.394	10.0	1.25D		08083 ▲
		0.472	12.0	1.5D		08084 ▲
		0.63	16.0	2D		
		0.787	20.0	2.5D		
M9 - 1.25	05092	0.354	9.0	1D	M9 - 1	07092
	05093	0.531	13.5	1.5D		07093
	05094	0.709	18.0	2D		07094 ▲
	05095 ▲	0.886	22.5	2.5D		07095 ▲
	05096 ▲	1.063	27.0	3D		07096 ▲
M10 - 1.5	05102	0.394	10.0	1D	M10 - 1.25	07102
	05103	0.591	15.0	1.5D		07103
	05104	0.787	20.0	2D		07104
	05105	0.984	25.0	2.5D		07105
	05106	1.181	30.0	3D		07106
		0.394	10.0	1D	M10 - 1	08102
		0.591	15.0	1.5D		08103
		0.787	20.0	2D		08104
		0.984	25.0	2.5D		08105
		1.181	30.0	3D		08106
M11 - 1.5	05112	0.433	11.0	1D	M11 - 1.25	07112
	05113	0.650	16.5	1.5D		07113
	05114	0.866	22.0	2D		07114
	05115	1.083	27.5	2.5D		07115 ▲
	05116	1.299	33.0	3D		07116 ▲
		0.433	11.0	1D	M11 - 1	08112
		0.650	16.5	1.5D		08113
		0.866	22.0	2D		08114
		1.083	27.5	2.5D		08115 ▲
		1.299	33.0	3D		08116 ▲
M12 - 1.75	05122	0.472	12.0	1D	M12 - 1.5	07122
	05120-15	0.591	15.0	1.25D		
	05123	0.709	18.0	1.5D		07123
	05124	0.945	24.0	2D		07124
	05125	1.181	30.0	2.5D		07125
	05126	1.417	36.0	3D		07126
		0.472	12.0	1D	M12 - 1.25	08122
		0.709	18.0	1.5D		08123
		0.945	24.0	2D		08124
		1.181	30.0	2.5D		08125 ▲
		1.417	36.0	3D		08126 ▲
		0.472	12.0	1D	M12 - 1	08122-1.0 ▲
		0.709	18.0	1.5D		08123-1.0
		0.945	24.0	2D		08124-1.0 ▲
		1.181	30.0	2.5D		08125-1.0 ▲
		1.417	36.0	3D		08126-1.0 ▲

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Bulk Inserts Free Running - Metric

METRIC COARSE		INSTALLED LENGTH			METRIC FINE	
Thread Size	Part No.	inches	mm	D's	Thread Size	Part No.
		0.315	8.0	1D	M8 - 0.75	08082 ▲
		0.394	10.0	1.25D		08083 ▲
		0.472	12.0	1.5D		08084 ▲
		0.63	16.0	2D		
		0.787	20.0	2.5D		
M9 - 1.25	05092	0.354	9.0	1D	M9 - 1	07092
	05093	0.531	13.5	1.5D		07093
	05094	0.709	18.0	2D		07094 ▲
	05095 ▲	0.886	22.5	2.5D		07095 ▲
	05096 ▲	1.063	27.0	3D		07096 ▲
M10 - 1.5	05102	0.394	10.0	1D	M10 - 1.25	07102
	05103	0.591	15.0	1.5D		07103
	05104	0.787	20.0	2D		07104
	05105	0.984	25.0	2.5D		07105
	05106	1.181	30.0	3D		07106
		0.394	10.0	1D	M10 - 1	08102
		0.591	15.0	1.5D		08103
		0.787	20.0	2D		08104
		0.984	25.0	2.5D		08105
		1.181	30.0	3D		08106
M11 - 1.5	05112	0.433	11.0	1D	M11 - 1.25	07112
	05113	0.650	16.5	1.5D		07113
	05114	0.866	22.0	2D		07114
	05115	1.083	27.5	2.5D		07115 ▲
	05116	1.299	33.0	3D		07116 ▲
		0.433	11.0	1D	M11 - 1	08112
		0.650	16.5	1.5D		08113
		0.866	22.0	2D		08114
		1.083	27.5	2.5D		08115 ▲
		1.299	33.0	3D		08116 ▲
M12 - 1.75	05122	0.472	12.0	1D	M12 - 1.5	07122
	05120-15	0.591	15.0	1.25D		
	05123	0.709	18.0	1.5D		07123
	05124	0.945	24.0	2D		07124
	05125	1.181	30.0	2.5D		07125
	05126	1.417	36.0	3D		07126
		0.472	12.0	1D	M12 - 1.25	08122
		0.709	18.0	1.5D		08123
		0.945	24.0	2D		08124
		1.181	30.0	2.5D		08125 ▲
		1.417	36.0	3D		08126 ▲
		0.472	12.0	1D	M12 - 1	08122-1.0 ▲
		0.709	18.0	1.5D		08123-1.0
		0.945	24.0	2D		08124-1.0 ▲
		1.181	30.0	2.5D		08125-1.0 ▲
		1.417	36.0	3D		08126-1.0 ▲

▲ Denotes non-popular parts - Price On Application. Minimum quantities and order values may apply.

Bulk Inserts Free Running - Metric

METRIC COARSE		INSTALLED LENGTH			METRIC FINE	
Thread Size	Part No.	inches	mm	D's	Thread Size	Part No.
M13 - 1.75		0.512	13.0	1D	M13 - 1.5	
	05133 ▲	0.768	19.5	1.5D		07133 ▲
		1.024	26	2D		
		1.280	32.5	2.5D		
		1.535	39.0	3D		
		0.512	13.0	1D	M13 - 1.25	
		0.768	19.5	1.5D		08133 ▲
		1.024	26	2D		
		1.280	32.5	2.5D		
		1.535	39.0	3D		
M14 - 2	05142	0.551	14.0	1D	M14 - 1.5	07142
	05143	0.827	21.0	1.5D		07143
	05144	1.102	28.0	2D		07144
	05145	1.378	35.0	2.5D		07145 ▲
	05146	1.654	42.0	3D		07146 ▲
M15 - 2	05152 ▲	0.591	15.0	1D	M15 - 1.5	07152 ▲
	05153	0.886	22.5	1.5D		07153
	05154 ▲	1.181	30.0	2D		07154 ▲
	05155 ▲	1.476	37.5	2.5D		07155 ▲
	05156 ▲	1.772	45.0	3D		07156 ▲
M16 - 2	05162	0.63	16.0	1D	M16 - 1.5	07162
	05160-20▲	0.787	20.0	1.25D		
	05163	0.945	24.0	1.5D		07163
	05164	1.26	32.0	2D		07164
	05165	1.575	40.0	2.5D		07165 ▲
	05166	1.89	48.0	3D		07166 ▲
M18 - 2.5	05182	0.709	18.0	1D	M18 - 2	07182 ▲
	05183	1.063	27.0	1.5D		07183
	05184	1.417	36.0	2D		07184 ▲
	05185	1.772	45.0	2.5D		07185 ▲
	05186	2.126	54.0	3D		07186 ▲
		0.709	18.0	1D	M18 - 1.5	08182
		1.063	27.0	1.5D		08183
		1.417	36.0	2D		08184
		1.772	45.0	2.5D		08185
		2.126	54.0	3D		08186 ▲

METRIC COARSE		INSTALLED LENGTH			METRIC FINE	
Thread Size	Part No.	inches	mm	D's	Thread Size	Part No.
M20 - 2.5	05202	0.787	20.0	1D	M20 - 2	07202 ▲
	05200-25 ▲	0.984	25.0	1.25D		
	05203	1.181	30.0	1.5D		07203
	05204	1.575	40.0	2D		07204
	05205	1.969	50.0	2.5D		07205 ▲
	05206	2.362	60.0	3D		07206 ▲
		0.787	20.0	1D	M20 - 1.5	08202
		1.181	30.0	1.5D		08203
		1.575	40.0	2D		08204
		1.969	50.0	2.5D		08205 ▲
		2.362	60.0	3D		08206 ▲
M22 - 2.5	05222	0.866	22.0	1D	M22 - 2	07222 ▲
	05223	1.299	33.0	1.5D		07223
	05224 ▲	1.732	44.0	2D		07224 ▲
	05225	2.165	55.0	2.5D		07225 ▲
	05226 ▲	2.598	66.0	3D		07226 ▲

Bulk Inserts Free Running - Metric

METRIC COARSE		INSTALLED LENGTH			METRIC FINE	
Thread Size	Part No.	inches	mm	D's	Thread Size	Part No.
		0.866	22.0	1D	M22 - 1.5	08222
		1.299	33.0	1.5D		08223
		1.732	44.0	2D		08224
		2.165	55.0	2.5D		08225
		2.598	66.0	3D		08226 ▲
M24 - 3	05242	0.945	24.0	1D	M24 - 2	07242 ▲
	05243	1.417	36.0	1.5D		07243
	05244	1.89	48.0	2D		07244 ▲
	05245	2.362	60.0	2.5D		07245 ▲
	05246	2.835	72.0	3D		07246 ▲
		0.945	24.0	1D	M24 - 1.5	08242
		1.417	36.0	1.5D		08243
		1.89	48.0	2D		08244
		2.362	60.0	2.5D		08245 ▲
		2.835	72.0	3D		08246 ▲
		1.024	26.0	1D	M26 - 1.5	08262
		1.535	39.0	1.5D		08263
		2.047	52.0	2D		08264 ▲
		2.559	65.0	2.5D		08265 ▲
		3.071	78.0	3D		08266 ▲

METRIC COARSE		INSTALLED LENGTH			METRIC FINE	
Thread Size	Part No.	inches	mm	D's	Thread Size	Part No.
M27 - 3	05272 ▲	1.063	27.0	1D	M27 - 2	07272 ▲
	05273	1.594	40.5	1.5D		07273
	05274	2.126	54.0	2D		07274
	05275 ▲	2.657	67.5	2.5D		07275 ▲
	05276 ▲	3.189	81.0	3D		07276 ▲
		1.063	27.0	1D	M27 - 1.5	08272 ▲
		1.594	40.5	1.5D		08273 ▲
		2.126	54.0	2D		08274 ▲
		2.657	67.5	2.5D		08275 ▲
		3.189	81.0	3D		08276 ▲
M30 - 3.5	05302	1.181	30.0	1D	M30 - 2	07302 ▲
	05300-37.5	1.476	37.5	1.25D		
	05303	1.772	45.0	1.5D		07303
	05304	2.362	60.0	2D		07304 ▲
	05305 ▲	2.953	75.0	2.5D		07305 ▲
	05306 ▲	3.543	90.0	3D		07306 ▲
M30 - 3	05302-3 ▲	1.181	30.0	1D	M30 - 1.5	08302
	05303-3	1.772	45.0	1.5D		08303 ▲
	05304-3 ▲	2.362	60.0	2D		08304 ▲
	05305-3 ▲	2.953	75.0	2.5D		08305 ▲
	05306-3 ▲	3.543	90.0	3D		08306 ▲
M33 - 3.5	05332 ▲	1.299	33.0	1D	M33 - 2	07332 ▲
	05333	1.949	49.5	1.5D		07333 ▲
	05334 ▲	2.598	66.0	2D		07334 ▲
	05335 ▲	3.248	82.5	2.5D		07335 ▲
	05336 ▲	3.898	99.0	3D		07336 ▲
		1.299	33.00	1D	M33 - 3	07332-3 ▲
		1.949	49.50	1.5D		07333-3 ▲
		2.598	66.00	2D		07334-3 ▲

▲ Denotes non-popular parts - Price On Application. Minimum quantities and order values may apply.

Bulk Inserts Free Running - Metric

METRIC COARSE		INSTALLED LENGTH			METRIC FINE	
Thread Size	Part No.	inches	mm	D's	Thread Size	Part No.
M36 - 4.0	05362	1.417	36.0	1D	M36 - 3	07362
	05363	2.126	54.0	1.5D		07363
	05364	2.835	72.0	2D		07364
	05365 ▲	3.543	90.0	2.5D		07365 ▲
	05366 ▲	4.252	108.0	3D		07366 ▲
		1.417	36.0	1D	M36 - 1.5	08362 ▲
		2.126	54.0	1.5D		08363 ▲
		2.835	72.0	2D		08364 ▲
		3.543	90.0	2.5D		08365 ▲
		4.252	108.0	3D		08366 ▲
		1.417	36.0	1D	M36 - 2	07362-2 ▲
		2.126	54.0	1.5D		07363-2 ▲
		2.835	72.0	2D		07364-2 ▲
		3.543	90.0	2.5D		07365-2 ▲
		4.252	108.0	3D		07366-2 ▲
M39 - 4	05392	1.535	39.0	1D	M39 - 3	07392 ▲
	05393	2.303	58.5	1.5D		07393
	05394	3.071	78.0	2D		07394 ▲
	05395 ▲	3.839	97.5	2.5D		07395 ▲
	05396 ▲	4.606	117.0	3D		07396 ▲
		1.535	39.0	1D	M39 - 2	08392 ▲
		2.303	58.5	1.5D		08393
		3.071	78.0	2D		08394 ▲
		3.839	97.5	2.5D		08395 ▲
		4.606	117.0	3D		08396 ▲
M42 - 4.5	05422 ▲	1.654	42.0	1D	M42 - 3	07422
	05423	2.480	63.0	1.5D		07423 ▲
	05424 ▲	3.307	84.0	2D		07424 ▲
M42 - 4	05422-4 ▲	1.654	42.0	1D	M42 - 2	08422 ▲
	05423-4	2.480	63.0	1.5D		08423 ▲
	05424-4	3.307	84.0	2D		08424 ▲
M45 - 4.5	05453 ▲	2.657	67.5	1.5D	M45 - 3	07453
M48 - 5	05483	2.835	72.0	1.5D	M48 - 3	07483
M48 - 4	05483-4 ▲	2.835	72.0	1.5D		
M52 - 5	05523 ▲	3.071	78.0	1.5D	M52 - 3	07523 ▲

▲ Denotes non-popular parts - Price On Application. Minimum quantities and order values may apply.

Bulk Inserts Free Running - Metric - Sparkplug and Lefthand Thread

SPARKPLUG		INSTALLED LENGTH						
Thread Size	Part No.	inch	mm	D's				
M10 - 1	08108	0.339	8.6					
	08109	0.500	12.7					
M12 - 1.25	08122	0.500	12.7	1D				
	08123	0.750	19.1	1.5D				
M14 - 1.25	08148	0.375	9.5					
	08141	0.472	12.0					
	08147	0.438	11.1					
	08149	0.500	12.7					
	08140	0.750	19.1					
	08140-8.4 ▲	0.331	8.4					
	08140-12.4 ▲	0.488	12.4					
	08140-16.4 ▲	0.646	16.4					
M18 - 1.5	08189	0.500	12.7					
M18 - 1.5 (Inconel)	08181XUP	0.500	12.5					

METRIC LEFTHAND THREAD		INSTALLED LENGTH						
Thread Size	Part No.	inch	mm	D's				
M6 - 1	05063LH ▲	0.354	9.0	1.5D				
M8 - 1.25	05083LH ▲	0.472	12.0	1.5D				
M10 - 1.5	05103LH ▲	0.591	15.0	1.5D				
M12 - 1.75	05123LH ▲	0.709	18.0	1.5D				

BICYCLE		INSTALLED LENGTH						
Thread Size	Part No.	inch	mm	D's				
M10 - 1 x 6.8	08100-6.8 ▲	0.256	6.8					

▲ Denotes non-popular parts - Price On Application. Minimum quantities and order values may apply.
Dry film lubing and plating available.

Bulk Inserts Free Running - UNC/UNF

UNC		INSTALLED LENGTH			UNF	
Thread Size	Part No.	inches	mm	D's	Thread Size	Part No.
#2 - 56	03522	0.086	2.2	1D		
	03523	0.129	3.3	1.5D		
	03524	0.172	4.4	2D		
	03525	0.215	5.5	2.5D		
	03526	0.258	6.6	3D		
#3 - 48	03532	0.099	2.5	1D	#3 - 56	04532 ▲
	03533	0.149	3.8	1.5D		04533
	03534 ▲	0.198	5.0	2D		04534 ▲
	03535 ▲	0.248	6.3	2.5D		04535 ▲
	03536 ▲	0.297	7.5	3D		04536 ▲
#4 - 40	03542	0.112	2.8	1D	#4 - 48	04542 ▲
	03543	0.168	4.3	1.5D		04543
	03544	0.224	5.7	2D		04544
	03545	0.280	7.1	2.5D		04545 ▲
	03546	0.336	8.5	3D		04546
#5 - 40	03552	0.112	2.8	1D		
	03553	0.168	4.3	1.5D		
	03554	0.224	5.7	2D		
	03555 ▲	0.280	7.1	2.5D		
	03556 ▲	0.336	8.5	3D		
#6 - 32	03562	0.138	3.5	1D	#6 - 40	04562 ▲
	03563	0.207	5.3	1.5D		04563
	03564	0.276	7	2D		04564 ▲
	03565	0.345	8.8	2.5D		04565 ▲
	03566	0.414	10.5	3D		04566 ▲
#8 - 32	03582	0.164	4.2	1D	#8 - 36	04582 ▲
	03583	0.246	6.2	1.5D		04583
	03584	0.328	8.3	2D		04584 ▲
	03585	0.410	10.4	2.5D		04585 ▲
	03586	0.492	12.5	3D		04586 ▲
#10 - 24	03602	0.190	4.8	1D	#10 - 32	04602
	03603	0.285	7.2	1.5D		04603
	03604	0.380	9.7	2D		04604
	03605	0.475	12.1	2.5D		04605
	03606	0.570	14.5	3D		04606
#12 - 24	03622 ▲	0.216	5.5	1D	#12 - 28	04622 ▲
	03623	0.324	8.2	1.5D		04623
	03624	0.432	11	2D		04624
	03625 ▲	0.540	13.7	2.5D		04625 ▲
	03626 ▲	0.648	16.5	3D		04626 ▲
1/4 - 20	03042	0.250	6.4	1D	1/4 - 28	04042
	03043	0.375	9.5	1.5D		04043
	03044	0.500	12.7	2D		04044
	03045	0.625	15.9	2.5D		04045
	03046	0.750	19.1	3D		04046
5/16 - 18	03052	0.313	8	1D	5/16 - 24	04052
	03053	0.470	11.9	1.5D		04053
	03054	0.626	15.9	2D		04054
	03055	0.783	19.9	2.5D		04055
	03056	0.939	23.9	3D		04056
3/8 - 16	03062	0.375	9.5	1D	3/8 - 24	04062
	03063	0.563	14.3	1.5D		04063
	03064	0.750	19.1	2D		04064
	03065	0.938	23.8	2.5D		04065
	03066	1.125	28.6	3D		04066
7/16 - 14	03072	0.438	11.1	1D	7/16 - 20	04072
	03073	0.657	16.7	1.5D		04073
	03074	0.876	22.3	2D		04074
	03075	1.095	27.8	2.5D		04075
	03076	1.314	33.4	3D		04076 ▲

Bulk Inserts Free Running - UNC/UNF

UNC		INSTALLED LENGTH			UNF	
Thread Size	Part No.	inches	mm	D's	Thread Size	Part No.
1/2 - 13	03082	0.500	12.7	1D	1/2 - 20	04082
	03083	0.750	19.1	1.5D		04083
	03084	1.000	25.4	2D		04084
	03085	1.250	31.8	2.5D		04085
	03086	1.500	38.1	3D		04086

UNC		INSTALLED LENGTH			UNF	
Thread Size	Part No.	inches	mm	D's	Thread Size	Part No.
9/16 - 12	03092	0.563	14.3	1D	9/16 - 18	04092
	03093	0.845	21.5	1.5D		04093
	03094	1.126	28.6	2D		04094
	03095	1.408	35.8	2.5D		04095 ▲
	03096 ▲	1.689	42.9	3D		04096 ▲
5/8 - 11	03102	0.625	15.9	1D	5/8 - 18	04102
	03103	0.938	23.8	1.5D		04103
	03104	1.250	31.8	2D		04104
	03105	1.563	39.7	2.5D		04105 ▲
	03106	1.875	47.6	3D		04106 ▲
11/16 - 11	03112 ▲	0.688	17.5	1D		
	03113	1.032	26.2	1.5D		
	03114 ▲	1.376	35	2D		
	03115	1.720	43.7	2.5D		
	03116	2.064	52.4	3D		
3/4 - 10	03122	0.750	19.1	1D	3/4 - 16	04122
	03123	1.125	28.6	1.5D		04123
	03124	1.500	38.1	2D		04124
	03125	1.875	47.6	2.5D		04125
	03126	2.250	57.2	3D		04126 ▲

UNC		INSTALLED LENGTH			UNF	
Thread Size	Part No.	inches	mm	D's	Thread Size	Part No.
7/8 - 9	03142	0.875	22.2	1D	7/8 - 14	04142
	03143	1.313	33.3	1.5D		04143
	03144	1.750	44.5	2D		04144 ▲
	03145 ▲	2.188	55.6	2.5D		04145 ▲
	03146	2.625	66.7	3D		04146 ▲
1"- 8	03162	1.000	25.4	1D	1"- 12	04162
	03163	1.500	38.1	1.5D		04163
	03164	2.000	50.8	2D		04164 ▲
	03165 ▲	2.500	63.5	2.5D		04165 ▲
	03166 ▲	3.000	76.2	3D		04166 ▲
		1.000	25.4	1D	1"- 14	04162-14
		1.500	38.1	1.5D		04163-14
		2.000	50.8	2D		04164-14
		2.500	63.5	2.5D		04165-14▲
		3.000	76.2	3D		04166-14▲

UNC		INSTALLED LENGTH			UNF	
Thread Size	Part No.	inches	mm	D's	Thread Size	Part No.
1 1/8 - 7	03182	1.125	28.6	1D	1 1/8 - 12	04182
	03183 ▲	1.688	42.9	1.5D		04183
	03184 ▲	2.250	57.2	2D		04184 ▲
	03185 ▲	2.813	71.4	2.5D		04185 ▲
	03186 ▲	3.375	85.7	3D		04186 ▲
1 1/4 - 7	03202	1.250	31.8	1D	1 1/4 - 12	04202
	03203	1.875	47.6	1.5D		04203
	03204	2.500	63.5	2D		04204 ▲
	03205 ▲	3.125	79.4	2.5D		04205 ▲
	03206 ▲	3.750	95.3	3D		04206 ▲

Bulk Inserts Free Running - UNC/UNF

UNC		INSTALLED LENGTH			UNF	
Thread Size	Part No.	inches	mm	D's	Thread Size	Part No.
1 3/8 - 6	03222 ▲	1.375	34.9	1D	1 3/8 - 12	04222 ▲
	03223	2.063	52.4	1.5D		04223
	03224 ▲	2.750	69.9	2D		04224 ▲
	03225 ▲	3.438	87.3	2.5D		04225 ▲
	03226 ▲	4.125	104.8	3D		04226 ▲
1 1/2 - 6	03242	1.500	38.1	1D	1 1/2 - 12	04242
	03243	2.250	57.2	1.5D		04243
	03244 ▲	3.000	76.2	2D		04244 ▲
	03245 ▲	3.750	95.3	2.5D		04245 ▲
	03246 ▲	4.500	114.3	3D		04246 ▲

▲ Denotes non-popular parts - Price On Application. Minimum quantities and order values may apply.
Dry film lubing and plating available.

Bulk Inserts Free Running - BSW/BSF

BSW		INSTALLED LENGTH			BSF	
Thread Size	Part No.	inches	mm	D's	Thread Size	Part No.
1/8 - 40	02022	0.125	3.2	1D		
	02023	0.188	4.8	1.5D		
	02024	0.250	6.4	2D		
	02025	0.313	7.9	2.5D		
	02026	0.375	9.5	3D		
3/16 - 24	02032	0.188	4.8	1D	3/16 - 32	00032
	02033	0.281	7.1	1.5D		00033
	02034	0.376	9.6	2D		00034 ▲
	02035	0.470	11.9	2.5D		00035 ▲
	02036	0.564	14.3	3D		00036 ▲
1/4 - 20	02042	0.250	6.4	1D	1/4 - 26	00042 ▲
	02043	0.375	9.5	1.5D		00043
	02044	0.500	12.7	2D		00044
	02045	0.625	15.9	2.5D		00045 ▲
	02046	0.750	19.1	3D		00046 ▲
5/16 - 18	02052	0.313	8	1D	5/16 - 22	00052
	02053	0.470	11.9	1.5D		00053
	02054	0.626	15.9	2D		00054
	02055	0.783	19.9	2.5D		00055 ▲
	02056	0.939	23.9	3D		00056 ▲
3/8 - 16	02062	0.375	9.5	1D	3/8 - 20	00062
	02063	0.563	14.3	1.5D		00063
	02064	0.750	19.1	2D		00064
	02065	0.938	23.8	2.5D		00065 ▲
	02066	1.125	28.6	3D		00066 ▲
7/16 - 14	02072	0.438	11.1	1D	7/16 - 18	00072 ▲
	02073	0.657	16.7	1.5D		00073
	02074	0.876	22.3	2D		00074 ▲
	02075	1.095	27.8	2.5D		00075 ▲
	02076	1.314	33.4	3D		00076 ▲
1/2 - 12	02082	0.500	12.7	1D	1/2 - 16	00082
	02083	0.750	19.1	1.5D		00083
	02084	1.000	25.4	2D		00084
	02085	1.250	31.8	2.5D		00085 ▲
	02086	1.500	38.1	3D		00086 ▲
BSW		INSTALLED LENGTH			BSF	
Thread Size	Part No.	inches	mm	D's	Thread Size	Part No.
9/16 - 12	02092	0.563	14.3	1D	9/16 - 16	00092 ▲
	02093	0.845	21.5	1.5D		00093
	02094	1.126	28.6	2D		00094 ▲
	02095	1.408	35.8	2.5D		00095 ▲
	02096	1.689	42.9	3D		00096 ▲
5/8 - 11	02102	0.625	15.9	1D	5/8 - 14	00102
	02103	0.938	23.8	1.5D		00103
	02104	1.250	31.8	2D		00104
	02105	1.563	39.7	2.5D		00105 ▲
	02106	1.875	47.6	3D		00106 ▲
3/4 - 10	02122	0.750	19.1	1D	3/4 - 12	00122
	02123	1.125	28.6	1.5D		00123
	02124	1.500	38.1	2D		00124 ▲
	02125	1.875	47.6	2.5D		00125 ▲
	02126	2.250	57.2	3D		00126 ▲

▲ Denotes non-popular parts - Price On Application. Minimum quantities and order values may apply.
Dry film lubing and plating available.

Bulk Inserts Free Running - BSW/BSF

BSW		INSTALLED LENGTH			BSF	
Thread Size	Part No.	inches	mm	D's	Thread Size	Part No.
7/8 - 9	02142	0.875	22.2	1D	7/8 - 11	00142 ▲
	02143	1.313	33.3	1.5D		00143 ▲
	02144	1.750	44.5	2D		00144 ▲
	02145	2.188	55.6	2.5D		00145 ▲
	02146	2.625	66.7	3D		00146 ▲
1" - 8	02162	1.000	25.4	1D	1" - 10	00162 ▲
	02163	1.500	38.1	1.5D		00163 ▲
	02164	2.000	50.8	2D		00164 ▲
	02165	2.500	63.5	2.5D		00165 ▲
	02166	3.000	76.2	3D		00166 ▲

▲ Denotes non-popular parts - Price On Application. Minimum quantities and order values may apply.
Dry film lubing and plating available.

Bulk Inserts Free Running BA/BSC/BSP/NPT

BA		INSTALLED LENGTH				
Thread Size	Part No.	inches	mm	D's		
0BA	00502 ▲	0.236	6	1D		
	00503	0.354	9	1.5D		
	00504	0.472	12	2D		
	00505 ▲	0.591	15	2.5D		
	00506 ▲	0.709	18	3D		
2BA	00522	0.185	4.7	1D		
	00523	0.278	7.1	1.5D		
	00524 ▲	0.370	9.4	2D		
	00525 ▲	0.463	11.8	2.5D		
	00526 ▲	0.555	14.1	3D		
4BA	00542 ▲	0.142	3.6	1D		
	00543	0.213	5.4	1.5D		
	00544 ▲	0.283	7.2	2D		
	00545 ▲	0.354	9	2.5D		
	00546 ▲	0.425	10.8	3D		
6BA	00562 ▲	0.110	2.8	1D		
	00563	0.165	4.2	1.5D		
	00564	0.220	5.6	2D		
	00565 ▲	0.276	7	2.5D		
	00566 ▲	0.331	8.4	3D		

BSC		INSTALLED LENGTH				
Thread Size	Part No.	inches	mm	D's		
5/16 - 26	06502 ▲	0.313	8	1D		
	06503	0.470	11.9	1.5D		
	06504 ▲	0.626	15.9	2D		
3/8 - 26	06602 ▲	0.625	15.9	1D		
	06603	0.938	23.8	1.5D		
	06604 ▲	1.250	31.8	2D		
7/16 - 26	06702 ▲	0.438	11.1	1D		
	06703 ▲	0.656	16.7	1.5D		
	06704 ▲	0.876	22.3	2D		
1/2 - 26	06802 ▲	0.500	12.7	1D		
	06803	0.750	19.1	1.5D		
	06804 ▲	2.000	50.8	2D		

BSP		INSTALLED LENGTH				NPT	
Thread Size	Part No.	inches	mm	D's		Thread Size	Part No.
1/8 - 28	01022	0.125	3.2	1D		1/8 - 27	
	01023	0.188	4.8	1.5D			
	01024	0.250	6.4	2D			
	01025	0.313	7.9	2.5D			
		0.273	6.9	.273			06023
1/4 - 19	01042	0.250	6.4	1D		1/4 - 18	
	01043	0.375	9.5	1.5D			
	01044	0.500	12.7	2D			
	01045 ▲	0.625	15.9	2.5D			
		0.394	10.0	.394			06043
3/8 - 19	01062	0.375	9.5	1D		3/8 - 18	
	01063	0.563	14.3	1.5D			
	01064	0.750	19.1	2D			
	01065 ▲	0.938	23.8	2.5D			
		0.407	10.3	.407			06063

▲ Denotes non-popular parts - Price On Application. Minimum quantities and order values may apply.
Dry film lubing and plating available.

Bulk Inserts Free Running - BSP/NPT/Special Threads/UN

BSP		INSTALLED LENGTH			NPT	
Thread Size	Part No.	inches	mm	D's	Thread Size	Part No.
1/2 - 14	01082	0.500	12.7	1D	1/2 - 14	
	01083	0.750	19.1	1.5D		
	01084 ▲	1.000	25.4	2D		
	01085 ▲	1.250	31.8	2.5D		
5/8 - 14		0.534	13.6	.534	3/4 - 14	06083
	01102 ▲	0.625	15.9	1D		
	01103 ▲	0.938	23.8	1.5D		
	01104 ▲	1.250	31.8	2D		
3/4 - 14	01122	0.750	19.1	1D	3/4 - 14	
	01123	1.125	28.6	1.5D		
	01124 ▲	1.500	38.1	2D		
		0.553	14.0	.553		06123

BSP		INSTALLED LENGTH			NPT	
Thread Size	Part No.	inches	mm	D's	Thread Size	Part No.
1"- 11	01162	1.000	25.4	1D	1 - 11 1/2	
	01163 ▲	1.500	38.1	1.5D		
	01164 ▲	2.000	50.8	2D		
		0.661	16.8	.661		06163

SPECIAL THREADS		INSTALLED LENGTH				
Thread Size	Part No.	inches	mm	D's	Thread Size	Part No.
1/4 - 32	04042-32	0.25	6.4	1D	1/4 - 24	04042-24
	04043-32	0.375	9.5	1.5D		04043-24
HARLEY 7/16 - 16	04073-16	0.657	16.7	1.5D		

SPECIAL THREADS		INSTALLED LENGTH				
Thread Size	Part No.	inches	mm	D's		
CUMMINS 11/16 - 16	04110-16-1.25▲	0.86	21.8			
CARBY 7/8 - 20	04140-20-330▲	0.33	8.4			
CARBY 1" - 20	04160-20-325	0.325	8.3			

8 TPI UN		INSTALLED LENGTH				
Thread Size	Part No.	inches	mm	D's		
1 1/8 - 8	06182 ▲	1.125	28.6	1D		
	06183 ▲	1.688	42.9	1.5D		
	06184	2.25	57.2	2D		
1 1/4 - 8	06202 ▲	1.25	31.8	1D		
	06203	1.875	47.6	1.5D		
	06204	2.5	63.5	2D		
1 3/8 - 8	06222 ▲	1.375	34.9	1D		
	06223 ▲	2.063	52.4	1.5D		
	06224 ▲	2.75	69.9	2D		
1 1/2 - 8	06242	1.5	38.1	1D		
	06243 ▲	2.25	57.2	1.5D		
	06244 ▲	3	76.2	2D		
1 5/8 - 8	06262 ▲	1.625	41.3	1D		
	06263 ▲	2.438	61.9	1.5D		
	06264 ▲	3.25	82.6	2D		
1 3/4 - 8	06282 ▲	1.75	44.5	1D		
	06283 ▲	2.625	66.7	1.5D		
	06284 ▲	3.5	88.9	2D		
1 7/8 - 8	06302 ▲	1.875	47.6	1D		
	06303 ▲	2.813	71.4	1.5D		
	06304 ▲	3.75	95.3	2D		
2" - 8	06322 ▲	2	50.8	1D		
	06323	3	76.2	1.5D		
	06324 ▲	4	101.6	2D		
2 1/8 - 8	06343 ▲	3.188	81	1.5D		

Bulk Inserts Free Running - UN/UNC LHT/Bicycle Threads

8 TPI UN		INSTALLED LENGTH				
Thread Size	Part No.	inches	mm	D's		
2 1/4 - 8	06362 ▲	2.25	57.2	1D		
	06363 ▲	3.375	85.7	1.5D		
	06402 ▲	2.5	63.5	1D		
2 1/2 - 8	06403 ▲	3.75	95.3	1.5D		
2 3/4 - 8	06443 ▲	2.75	69.9	1.5D		
3" - 8	06482 ▲	3	76.2	1D		
	06483 ▲	4.5	114.3	1.5D		

UNC LEFT HAND THREAD		INSTALLED LENGTH				
Thread Size	Part No.	inches	mm	D's		
1/4 - 20	03043LH	0.25	6.4	1.5D		
5/16 - 18	03053LH	0.313	8	1.5D		
3/8 - 16	03063LH	0.375	9.5	1.5D		
7/16 - 14	03073LH ▲	0.438	11.1	1.5D		
1/2 - 13	03083LH	0.5	12.7	1.5D		

BICYCLE THREADS		INSTALLED LENGTH				
Thread Size	Part No.	inches	mm	D's		
9/16 - 20	04090-20-0.5	0.5	12.7			
9/16 - 20	04090LH-20-0.5	0.5	12.7			

▲ Denotes non-popular parts - Price On Application. Minimum quantities and order values may apply.
Dry film lubricating and plating available.

Bulk Inserts Screw Locking - Metric

METRIC COURSE		INSTALLED LENGTH			METRIC FINE	
Thread Size	Part No.	inches	mm	D's	Thread Size	Part No.
M2.2 - 0.45	15012 ▲	0.087	2.2	1D		
	15013 ▲	0.130	3.3	1.5D		
	15014 ▲	0.173	4.4	2D		
	15015 ▲	0.217	5.5	2.5D		
	15016 ▲	0.260	6.6	3D		
M2.5 - 0.45	15252	0.098	2.5	1D		
	15253	0.150	3.8	1.5D		
	15254	0.197	5	2D		
	15255 ▲	0.248	6.3	2.5D		
	15256 ▲	0.295	7.5	3D		
M3 - 0.5	15032	0.118	3	1D		
	15033	0.177	4.5	1.5D		
	15034	0.236	6	2D		
	15035 ▲	0.296	7.5	2.5D		
	15036 ▲	0.354	9	3D		
M3.5 - 0.6	15352 ▲	0.138	3.5	1D		
	15353	0.209	5.3	1.5D		
	15354 ▲	0.276	7	2D		
	15355 ▲	0.346	8.8	2.5D		
	15356 ▲	0.413	10.5	3D		
M4 - 0.7	15042	0.157	4	1D		
	15043	0.236	6	1.5D		
	15044	0.315	8	2D		
	15045 ▲	0.394	10	2.5D		
	15046 ▲	0.472	12	3D		
M5 - 0.8	15052	0.197	5	1D		
	15053	0.295	7.5	1.5D		
	15054	0.394	10	2D		
	15055 ▲	0.492	12.5	2.5D		
	15056 ▲	0.591	15	3D		
M6 - 1	15062	0.236	6	1D		
	15063	0.354	9	1.5D		
	15064	0.472	12	2D		
	15065 ▲	0.591	15	2.5D		
	15066 ▲	0.709	18	3D		
M7 - 1	15072 ▲	0.276	7	1D		
	15073 ▲	0.413	10.5	1.5D		
	15074 ▲	0.551	14	2D		
	15075 ▲	0.689	17.5	2.5D		
	15076 ▲	0.827	21	3D		
M8 - 1.25	15082	0.315	8	1D	M8 - 1	17082
	15083	0.472	12	1.5D		17083 ▲
	15084	0.630	16	2D		17084 ▲
	15085 ▲	0.787	20	2.5D		17085 ▲
	15086 ▲	0.945	24	3D		17086 ▲
		0.315	8	1D	M8 - 0.75	18082 ▲
		0.472	12	1.5D		18083 ▲
		0.630	16	2D		18084 ▲
		0.787	20	2.5D		18085 ▲
		0.945	24	3D		18086 ▲
M10 - 1.5	15102	0.394	10	1D	M10 - 1.25	17102 ▲
	15103	0.591	15	1.5D		17103
	15104	0.787	20	2D		17104 ▲
	15105	0.984	25	2.5D		17105 ▲
	15106	1.181	30	3D		17106 ▲

Bulk Inserts Screw Locking - Metric

METRIC COURSE		INSTALLED LENGTH			METRIC FINE	
Thread Size	Part No.	inches	mm	D's	Thread Size	Part No.
		0.394	10	1D	M10 - 1	18102 ▲
		0.591	15	1.5D		18103 ▲
		0.787	20	2D		18104 ▲
		0.984	25	2.5D		18105 ▲
		1.181	30	3D		18106 ▲
M12 - 1.75	15122	0.472	12	1D	M12 - 1.5	17122 ▲
	15123	0.709	18	1.5D		17123 ▲
	15124	0.945	24	2D		17124 ▲
	15125	1.181	30	2.5D		17125 ▲
	15126 ▲	1.417	36	3D		17126 ▲
		0.472	12	1D	M12 - 1.25	18122 ▲
		0.709	18	1.5D		18123
		0.945	24	2D		18124 ▲
		1.181	30	2.5D		18125 ▲
		1.417	36	3D		18126 ▲

METRIC COURSE		INSTALLED LENGTH			METRIC FINE	
Thread Size	Part No.	inches	mm	D's	Thread Size	Part No.
M14 - 2	15142	0.551	14	1D	M14 - 1.5	17142 ▲
	15143	0.827	21	1.5D		17143
	15144 ▲	1.102	28	2D		17144 ▲
	15145 ▲	1.378	35	2.5D		17145 ▲
	15146 ▲	1.654	42	3D		17146 ▲
M16 - 2	15162	0.630	16	1D	M16 - 1.5	17162
	15163	0.945	24	1.5D		17163 ▲
	15164	1.260	32	2D		17164 ▲
	15165 ▲	1.575	40	2.5D		17165 ▲
	15166 ▲	1.890	48	3D		17166 ▲
M18 - 2.5	15182 ▲	0.709	18	1D	M18 - 2	17182 ▲
	15183	1.063	27	1.5D		17183 ▲
	15184 ▲	1.417	36	2D		17184 ▲
	15185 ▲	1.772	45	2.5D		17185 ▲
	15186 ▲	2.126	54	3D		17186 ▲

METRIC COURSE		INSTALLED LENGTH			METRIC FINE	
Thread Size	Part No.	inches	mm	D's	Thread Size	Part No.
M20 - 2.5	15202	0.787	20	1D	M20 - 2	17202 ▲
	15203	1.181	30	1.5D		17203 ▲
	15204 ▲	1.575	40	2D		17204
	15205 ▲	1.969	50	2.5D		17205 ▲
	15206 ▲	2.362	60	3D		17206 ▲
M22 - 2.5	15222 ▲	0.866	22	1D	M22 - 2	17222 ▲
	15223	1.299	33	1.5D		17223 ▲
	15224 ▲	1.732	44	2D		17224 ▲
	15225 ▲	2.165	55	2.5D		17225 ▲
	15226 ▲	2.598	66	3D		17226 ▲
M24 - 3	15242	0.945	24	1D	M24 - 2	17242 ▲
	15243	1.417	36	1.5D		17243 ▲
	15244 ▲	1.890	48	2D		17244 ▲
	15245 ▲	2.362	60	2.5D		17245 ▲
	15246 ▲	2.835	72	3D		17246 ▲

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Dry film lubing and plating available.

Bulk Inserts Screw Locking - Metric

METRIC COURSE		INSTALLED LENGTH			METRIC FINE	
Thread Size	Part No.	inches	mm	D's	Thread Size	Part No.
M27 - 3	15272	1.063	27	1D	M27 - 2	17272 ▲
	15273	1.594	40.5	1.5D		17273 ▲
	15274	2.126	54	2D		17274 ▲
	15275	2.657	67.5	2.5D		17275 ▲
	15276	3.189	81	3D		17276 ▲
M30 - 3.5	15302 ▲	1.181	30	1D	M30 - 2	17302 ▲
	15303 ▲	1.772	45	1.5D		17303 ▲
	15304 ▲	2.362	60	2D		17304 ▲
	15305 ▲	2.953	75	2.5D		17305 ▲
	15306 ▲	3.543	90	3D		17306 ▲
M30 - 3	15302-3▲	1.181	30	1D		
	15303-3▲	1.772	45	1.5D		
	15304-3▲	2.362	60	2D		
	15305-3▲	2.953	75	2.5D		
	15306-3▲	3.543	90	3D		
M36 - 4	15362 ▲	1.417	36	1D	M36 - 3	17362 ▲
	15363 ▲	2.126	54	1.5D		17363 ▲
	15364 ▲	2.835	72	2D		17364 ▲
	15365 ▲	3.543	90	2.5D		17365 ▲
	15366 ▲	4.252	108	3D		17366 ▲
M39 - 4	15392 ▲	1.535	39	1D	M39 - 3	17392 ▲
	15393 ▲	2.303	58.5	1.5D		17393 ▲
	15394 ▲	3.071	78	2D		17394 ▲

▲ Denotes non-popular parts - Price On Application. Minimum quantities and order values may apply.
Dry film lubing and plating available.

Bulk Inserts Screw Locking - UNC/UNF

UNC		INSTALLED LENGTH			UNF	
Thread Size	Part No.	inches	mm	D's	Thread Size	Part No.
#2 - 56	13522	0.086	2.2	1D		
	13523	0.129	3.3	1.5D		
	13524	0.172	4.4	2D		
	13525	0.215	5.5	2.5D		
	13526 ▲	0.258	6.6	3D		
#3 - 48	13532 ▲	0.099	2.5	1D	#3 - 56	14532 ▲
	13533	0.149	3.8	1.5D		14533 ▲
	13534	0.198	5	2D		14534
	13535 ▲	0.248	6.3	2.5D		
	13536 ▲	0.297	7.5	3D		
#4 - 40	13542	0.112	2.8	1D	#4 - 48	14542 ▲
	13543	0.168	4.3	1.5D		14543 ▲
	13544	0.224	5.7	2D		14544
	13545	0.280	7.1	2.5D		
	13546	0.336	8.5	3D		
#5 - 40	13552	0.125	3.2	1D		
	13553	0.188	4.8	1.5D		
	13554 ▲	0.250	6.4	2D		
	13555 ▲	0.313	7.9	2.5D		
	13556	0.375	9.5	3D		
#6 - 32	13562	0.138	3.5	1D	#6 - 40	14562 ▲
	13563	0.207	5.3	1.5D		14563
	13564	0.276	7	2D		14564
	13565	0.345	8.8	2.5D		
	13566	0.414	10.5	3D		
#8 - 32	13582	0.164	4.2	1D	#8 - 36	14582
	13583	0.246	6.2	1.5D		14583
	13584	0.328	8.3	2D		14584 ▲
	13585	0.410	10.4	2.5D		
	13586	0.492	12.5	3D		
#10 - 24	13602	0.190	4.8	1D	#10 - 32	14602
	13603	0.285	7.2	1.5D		14603
	13604	0.380	9.7	2D		14604
	13605 ▲	0.475	12.1	2.5D		14605
	13606	0.570	14.5	3D		14606
#12 - 24	13622	0.216	5.5	1D		
	13623 ▲	0.324	8.2	1.5D		
	13624 ▲	0.432	11	2D		
	13625 ▲	0.540	13.7	2.5D		
	13626 ▲	0.648	16.5	3D		
1/4-20	13042	0.250	6.4	1D	1/4 - 28	14042
	13043	0.375	9.5	1.5D		14043
	13044	0.500	12.7	2D		14044
	13045	0.625	15.9	2.5D		14045 ▲
	13046	0.750	19.1	3D		14046 ▲
5/16 - 18	13052	0.313	8	1D	5/16 - 24	14052
	13053	0.470	11.9	1.5D		14053
	13054	0.626	15.9	2D		14054
	13055 ▲	0.783	19.9	2.5D		14055
	13056 ▲	0.939	23.9	3D		14056 ▲
3/8 - 16	13062	0.375	9.5	1D	3/8 - 24	14062
	13063	0.563	14.3	1.5D		14063
	13064	0.750	19.1	2D		14064
	13065 ▲	0.938	23.8	2.5D		14065 ▲
	13066	1.125	28.6	3D		14066

Bulk Inserts Screw Locking - UNC/UNF

UNC		INSTALLED LENGTH			UNF	
Thread Size	Part No.	inches	mm	D's	Thread Size	Part No.
7/16 - 14	13072	0.438	11.1	1D	7/16 - 20	14072
	13073	0.657	16.7	1.5D		14073
	13074	0.876	22.3	2D		14074
	13075	1.095	27.8	2.5D		14075
	13076	1.314	33.4	3D		14076
1/2 - 13	13082	0.500	12.7	1D	1/2 - 20	14082
	13083	0.750	19.1	1.5D		14083
	13084	1.000	25.4	2D		14084
	13085	1.250	31.8	2.5D		14085
	13086	1.500	38.1	3D		14086

UNC		INSTALLED LENGTH			UNF	
Thread Size	Part No.	inches	mm	D's	Thread Size	Part No.
9/16 - 12	13092	0.56	14.3	1D	9/16 - 18	14092
	13093	0.85	21.5	1.5D		14093 ▲
	13094 ▲	1.13	28.6	2D		14094 ▲
	13095 ▲	1.41	35.8	2.5D		14095 ▲
	13096 ▲	1.69	42.9	3D		14096 ▲
5/8 - 11	13102	0.63	15.9	1D	5/8 - 18	14102
	13103	0.94	23.8	1.5D		14103
	13104	1.25	31.8	2D		14104 ▲
	13105 ▲	1.56	39.7	2.5D		14105 ▲
	13106 ▲	1.88	47.6	3D		14106 ▲
3/4 - 10	13122	0.69	17.5	1D	3/4 - 16	14122
	13123	1.03	26.2	1.5D		14123
	13124 ▲	1.38	35	2D		14124
	13125 ▲	1.72	43.7	2.5D		14125
	13126 ▲	2.06	52.4	3D		14126 ▲

UNC		INSTALLED LENGTH			UNF	
Thread Size	Part No.	inches	mm	D's	Thread Size	Part No.
7/8 - 9	13142	0.75	19.1	1D	7/8 - 14	14142 ▲
	13143	1.13	28.6	1.5D		14143 ▲
	13144	1.50	38.1	2D		14144 ▲
	13145 ▲	1.88	47.6	2.5D		14145 ▲
1"- 8	13162	0.88	22.2	1D	1"- 12	14162 ▲
	13163	1.31	33.3	1.5D		14163 ▲
	13164	1.75	44.5	2D		14164 ▲
	13165 ▲	2.19	55.6	2.5D		14165 ▲
	13166 ▲	2.63	66.7	3D		14166 ▲
		1.00	25.4	1D	1"- 14	14162-14 ▲
		1.50	38.1	1.5D		14163-14 ▲
		2.00	50.8	2D		14164-14 ▲
		2.50	63.5	2.5D		14165-14 ▲
		3.00	76.2	3D		14166-14 ▲

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Dry film lubing and plating available.

Bulk Inserts Screw Locking - UNC/UNF

UNC		INSTALLED LENGTH			UNF	
Thread Size	Part No.	inches	mm	D's	Thread Size	Part No.
1 1/8 - 7	13182	1.13	28.6	1D	1 1/8 - 12	14182 ▲
	13183	1.69	42.9	1.5D		14183 ▲
	13184	2.25	57.2	2D		14184 ▲
		2.81	71.4	2.5D		14185 ▲
		3.38	85.7	3D		14186 ▲
1 1/4 - 7	13202	1.25	31.8	1D	1 1/4 - 12	14202 ▲
	13203	1.88	47.6	1.5D		14203 ▲
	13204	2.50	63.5	2D		14204 ▲
	13205	3.13	79.4	2.5D		14205 ▲
	13206	3.75	95.3	3D		14206 ▲
1 3/8 - 6	13222	1.38	34.9	1D	1 3/8 - 12	14222 ▲
	13223	2.06	52.4	1.5D		14223 ▲
	13224	2.75	69.9	2D		14224 ▲
	13225	3.44	87.3	2.5D		14225 ▲
	13226	4.13	104.8	3D		14226 ▲
1 1/2 - 6	13242	1.50	38.1	1D	1 1/2 - 12	14242 ▲
	13243	2.25	57.2	1.5D		14243 ▲
	13244	3.00	76.2	2D		14244 ▲
	13245	3.75	95.3	2.5D		14245 ▲
	13246	4.50	114.3	3D		14246 ▲

8 TPI UNC		INSTALLED LENGTH				
Thread Size	Part No.	inches	mm	D's		
1 1/8 - 8	16182 ▲	1.13	28.6	1D		
	16183 ▲	1.69	42.9	1.5D		
	16184 ▲	2.25	57.2	2D		
1 1/4 - 8	16202 ▲	1.25	31.8	1D		
	16203 ▲	1.88	47.6	1.5D		
	16204 ▲	2.50	63.5	2D		
1 3/8 - 8	16222 ▲	1.38	34.9	1D		
	16223 ▲	2.06	52.4	1.5D		
	16224 ▲	2.75	69.9	2D		
1 1/2 - 8	16242 ▲	1.50	38.1	1D		
	16243 ▲	2.25	57.2	1.5D		
	16244 ▲	3.00	76.2	2D		
1 5/8 - 8	16262 ▲	1.63	41.3	1D		
	16263 ▲	2.44	61.9	1.5D		
	16264 ▲	3.25	82.6	2D		
1 3/4 - 8	16282 ▲	1.75	44.5	1D		
	16283 ▲	2.63	66.7	1.5D		
	16284 ▲	3.50	88.9	2D		
1 7/8 - 8	16302 ▲	1.88	47.6	1D		
	16303 ▲	2.81	71.4	1.5D		
	16304 ▲	3.75	95.3	2D		
2"- 8	16322 ▲	2.00	50.8	1D		
	16323 ▲	3.00	76.2	1.5D		
	16324 ▲	4.00	101.6	2D		

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Dry film lubing and plating available.

Inserts - Stripfeed - Metric



METRIC FREE RUNNING		INSERT LENGTH			
Thread Size	Part No.	inches	mm	D's	Qty/Reel
M2.2 - 0.45	05012SF	0.087	2.2	1D	1,000
	05013SF	0.130	3.3	1.5D	1,000
	05014SF	0.173	4.4	2D	1,000
M2.5 - 0.45	05252SF	0.098	2.5	1D	1,000
	05253SF	0.150	3.8	1.5D	1,000
	05254SF	0.197	5	2D	1,000
M3 - 0.5	05032SF	0.118	3	1D	1,000
	05033SF	0.177	4.5	1.5D	1,000
	05034SF	0.236	6	2D	1,000
M4 - 0.7	05042SF	0.157	4	1D	1,000
	05043SF	0.236	6	1.5D	1,000
	05044SF	0.315	8	2D	1,000
M5 - 0.8	05052SF	0.197	5	1D	1,000
	05053SF	0.295	7.5	1.5D	500
	05054SF	0.394	10	2D	500
M6 - 1	05062SF	0.236	6	1D	500
	05063SF	0.354	9	1.5D	500
	05064SF	0.472	12	2D	500
M8 - 1.25	05082SF	0.315	8	1D	500
	05083SF	0.472	12	1.5D	500
	05084SF	0.630	16	2D	500
M8 - 1	07082SF ▲	0.315	8	1D	500
	07083SF ▲	0.472	12	1.5D	500
	07084SF ▲	0.630	16	2D	500
M10 - 1.5	05102SF	0.394	10	1D	250
	05103SF	0.591	15	1.5D	250
	05104SF ▲	0.787	20	2D	250
M12 - 1.75	05122SF ▲	0.472	12	1D	125
	05123SF ▲	0.709	18	1.5D	125
	05124SF ▲	0.945	24	2D	125

SCREW LOCKING		INSERT LENGTH			
Thread Size	Part No.	inches	mm	D's	Qty/Reel
M2.2 - 0.45	15012SF ▲	0.087	2.2	1D	1,000
	15013SF ▲	0.130	3.3	1.5D	1,000
	15014SF ▲	0.173	4.4	2D	1,000
M2.5 - 0.45	15252SF ▲	0.098	2.5	1D	1,000
	15253SF ▲	0.150	3.8	1.5D	1,000
	15254SF ▲	0.197	5	2D	1,000
M3.5 - 0.6	15352SF ▲	0.138	3.5	1D	1,000
	15353SF ▲	0.209	5.3	1.5D	1,000
	15354SF ▲	0.276	7	2D	1,000
M4 - 0.7	15042SF	0.157	4	1D	1,000
	15043SF	0.236	6	1.5D	1,000
	15044SF	0.315	8	2D	1,000
M5 - 0.8	15052SF	0.197	5	1D	1,000
	15053SF	0.295	7.5	1.5D	500
	15054SF	0.394	10	2D	500
M6 - 1	15062SF	0.236	6	1D	500
	15063SF	0.354	9	1.5D	500
	15064SF	0.472	12	2D	500
M8 - 1.25	15082SF	0.315	8	1D	500
	15083SF	0.472	12	1.5D	500
	15084SF	0.630	16	2D	500
M10 - 1.5	15102SF ▲	0.472	10	1D	125
	15103SF ▲	0.709	15	1.5D	125
	15104SF ▲	0.945	20	2D	125
M12 - 1.75	15122SF ▲	0.472	12	1D	125
	15123SF ▲	0.709	18	1.5D	125
	15124SF ▲	0.945	24	2D	125

Inserts - Stripfeed - Inch



UNC FREE RUNNING					UNF FREE RUNNING		
Thread Size	Part No.	INSERT LENGTH		D's	Thread Size	Part No.	Qty/Reel
#2 - 56	03522SF	0.086	2.2	1D			1,000
	03523SF	0.129	3.3	1.5D			1,000
	03524SF ▲	0.172	4.4	2D			1,000
#3 - 48	03532SF ▲	0.099	2.5	1D	#3 - 56	04532SF ▲	1,000
	03533SF ▲	0.149	3.8	1.5D		04533SF ▲	1,000
	03534SF ▲	0.198	5	2D		04534SF ▲	1,000
#4 - 40	03542SF	0.112	2.8	1D	#4 - 48	04542SF ▲	1,000
	03543SF	0.168	4.3	1.5D		04543SF ▲	1,000
	03544SF	0.224	5.7	2D		04544SF ▲	1,000
#5 - 40	03552SF	0.125	3.2	1D			1,000
	03553SF	0.188	4.8	1.5D			1,000
	03554SF	0.250	6.4	2D			1,000
#6 - 32	03562SF	0.138	3.5	1D	#6 - 40	04562SF ▲	1,000
	03563SF	0.207	5.3	1.5D		04563SF ▲	1,000
	03564SF	0.276	7	2D		04564SF ▲	1,000
#8 - 32	03582SF	0.164	4.2	1D	#8 - 36	04582SF ▲	1,000
	03583SF	0.246	6.2	1.5D		04583SF ▲	1,000
	03584SF	0.328	8.3	2D		04584SF ▲	1,000
#10 - 24	03602SF	0.190	4.8	1D	#10 - 32	04602SF	1,000
	03603SF	0.285	7.2	1.5D		04603SF	500
	03604SF	0.380	9.7	2D		04604SF	500
1/4 - 20	03042SF	0.250	6.4	1D	1/4 - 28	04042SF	500
	03043SF	0.375	9.5	1.5D		04043SF	500
	03044SF	0.500	12.7	2D		04044SF ▲	500
5/16 - 18	03052SF	0.312	7.9	1D	5/16 - 24	04052SF ▲	250
	03053SF	0.468	11.9	1.5D		04053SF	250
	03054SF ▲	0.624	15.8	2D		04054SF ▲	250
3/8 - 16	03062SF ▲	0.375	9.5	1D			250
	03063SF ▲	0.563	14.3	1.5D			250
	03064SF ▲	0.750	19.1	2D			250

UNC SCREW LOCKING					UNF SCREW LOCKING		
Thread Size	Part No.	INSERT LENGTH		D's	Thread Size	Part No.	Qty/Reel
#2 - 56	13522SF	0.086	2.2	1D			1,000
	13523SF	0.129	3.3	1.5D			1,000
	13524SF	0.172	4.4	2D			1,000
#3 - 48	13532SF	0.099	2.5	1D	#3 - 56	14532SF ▲	1,000
	13533SF	0.149	3.8	1.5D		14533SF ▲	1,000
	13534SF	0.198	5	2D		14534SF ▲	1,000
#4 - 40	13542SF	0.112	2.8	1D	#4 - 48	14542SF ▲	1,000
	13543SF	0.168	4.3	1.5D		14543SF ▲	1,000
	13544SF	0.224	5.7	2D		14544SF ▲	1,000
#5 - 40	13552SF	0.125	3.2	1D			1,000
	13553SF	0.188	4.8	1.5D			1,000
	13554SF	0.250	6.4	2D			1,000
#6 - 32	13562SF	0.138	3.5	1D	#6 - 40	14562SF ▲	1,000
	13563SF	0.207	5.3	1.5D		14563SF ▲	1,000
	13564SF	0.276	7	2D		14564SF ▲	1,000
#8 - 32	13582SF	0.164	4.2	1D	#8 - 36	14582SF ▲	1,000
	13583SF	0.246	6.2	1.5D		14583SF ▲	1,000
	13584SF	0.328	8.3	2D		14584SF ▲	1,000

Inserts - Stripfeed - Inch



UNC SCREW LOCKING					UNF SCREW LOCKING	
Thread Size	Part No.	INSERT LENGTH		D's	Thread Size	Part No.
		inches	mm			
#10 - 24	13602SF▲	0.190	4.8	1D	#10 - 32	14602SF
	13603SF▲	0.285	7.2	1.5D		14603SF
	13604SF▲	0.380	9.7	2D		14604SF
1/4-20	13042SF	0.250	6.4	1D	1/4 - 28	14042SF
	13043SF	0.375	9.5	1.5D		14043SF
	13044SF	0.500	12.7	2D		14044SF▲
5/16 - 18	13052SF▲	0.375	9.5	1D	5/16 - 24	14052SF▲
	13053SF▲	0.563	14.3	1.5D		14053SF▲
	13054SF▲	0.750	19.1	2D		14054SF▲
3/8 - 16	13062SF▲	0.312	7.9	1D		
	13063SF▲	0.468	11.9	1.5D		
	13064SF▲	0.624	15.8	2D		

▲ Denotes non-popular parts - Price On Application. Minimum quantities and order values may apply.
 Only supplied in full reel quantities.
 Dry film lubing and plating available.

Tangless Inserts

Tangless® Inserts:

- FOD-Free Design: No tangs to break off, retrieve...or lose.
- Approved for use on military programs by NASM8846 and NAS1130.
- Cost Reduction: Significantly decreased installation and inspection time.
- Bi-directional design eliminates insert orientation requirement.
- Quick, non-destructive removal prevents damage to castings.



Metric Tangless Coil Thread Inserts are made of cold-rolled Type 304 stainless steel wire (AS7245 and MA1565), work-hardened to a tensile strength above 200,000 psi, a hardness of HRC 43-50 and an exceedingly smooth (8-16 micro-inches) surface finish. Metric Tangless Inserts are designed to replace tanged helical coil inserts as specified in MA3279 through MA3281 (standard thread) and MA3329 through MA3331 (locking thread). They install in standard STI tapped holes per MA1567. Installed inserts provide a finished thread meeting the requirements of FED-STD-H28, M Profile, Tolerance Classes 4H or 5H, as well as ISO metric thread specifications, and accept standard or MJ profile bolts or screws.

TANGLESS - METRIC FREE RUNNING SERIES

Thread Nominal	Nominal Length	Recoil Part No.	Free Coil Dia Min /Max.	Number of Coils	Length (mm)	KATO Part No.	
M2.5 - 0.45	1D	TL05252		3.38	2.5		2TNM2.5x.45C-2.5
	1.5D	TL05253	3.20	5.63	3.75		2TNM2.5x.45C-3.8
	2D	TL05254	3.70	8.00	5		2TNM2.5x.45C-5
	2.5D	TL05255 ▲		10.50	6.25		2TNM2.5x.45C-6.3
	3D	TL05256 ▲		12.75	7.5		2TNM2.5x.45C-7.5
M3 - 0.5	1D	TL05032		3.75	3		2TNM3x.5C-3
	1.5D	TL05033	3.80	6.38	4.5		2TNM3x.5C-4.5
	2D	TL05034	4.35	8.88	6		2TNM3x.5C-6
	2.5D	TL05035 ▲		11.38	7.5		2TNM3x.5C-7.5
	3D	TL05036 ▲		13.88	9.0		2TNM3x.5C-9
M4 - 0.7	1D	TL05042		3.63	4		2TNM4x.7C-4
	1.5D	TL05043	5.05	6.13	6		2TNM4x.7C-6
	2D	TL05044	5.60	8.63	8		2TNM4x.7C-8
	2.5D	TL05045 ▲		11.13	10		2TNM4x.7C-10
	3D	TL05046 ▲		13.63	12		2TNM4x.7C-12
M5 - 0.8	1D	TL05052		4.13	5		2TNM5x.8C-5
	1.5D	TL05053	6.20	6.88	7.5		2TNM5x.8C-7.5
	2D	TL05054	6.80	9.63	10		2TNM5x.8C-10
	2.5D	TL05055 ▲		12.38	12.5		2TNM5x.8C-12.5
	3D	TL05056 ▲		15.13	15		2TNM5x.8C-15
M6 - 1	1D	TL05062		4.00	6		2TNM6x1C-6
	1.5D	TL05063	7.40	6.75	9		2TNM6x1C-9
	2D	TL05064	7.95	9.50	12		2TNM6x1C-12
	2.5D	TL05065 ▲		12.125	15		2TNM6x1C-15
	3D	TL05066 ▲		14.875	18		2TNM6x1C-18

Thread Nominal	Nominal Length	Recoil Part No.	Free Coil Dia Min /Max.	Number of Coils	Length (mm)	KATO Part No.	
M8 - 1.25	1D	TL05082		4.500	10		2TNM8x1.25C-8
	1.5D	TL05083	9.80	7.38	12		2TNM8x1.25C-12
	2D	TL05084	10.35	10.25	16		2TNM8x1.25C-16
	2.5D	TL05085 ▲		13.25	18		2TNM8x1.25C-20
	3D	TL05086 ▲		16.13	20		2TNM8x1.25C-24
M10 - 1.5	1D	TL05102		4.90	10		2TNM10x1.5C-10
	1.5D	TL05103	11.95	8.00	15		2TNM10x1.5C-15
	2D	TL05104	12.50	11.10	20		2TNM10x1.5C-20
	2.5D	TL05105 ▲		14.25	25		2TNM10x1.5C-25
	3D	TL05106 ▲		17.38	30		2TNM10x1.5C-30

▲ Denotes non-popular parts - Price On Application. Minimum quantities and order values may apply.
Dry film lubing and plating available.

Tangless Inserts - Screw Locking

TANGLESS - SCREW LOCKING								
Thread Nominal	Nominal Length	Recoil Part No.	Free Coil Dia Min /Max.	Number of Coils	Length (mm)			KATO Part No.
M2.5 - 0.45	1D	TL15252		3.38	2.5			2TLM2.5x.45C-2.5
	1.5D	TL15253	3.20	5.63	3.75			2TLM2.5x.45C-3.8
	2D	TL15254	3.70	8.00	5			2TLM2.5x.45C-5
	2.5D	TL15255 ▲		10.50	6.25			2TLM2.5x.45C-6.3
	3D	TL15256 ▲		12.75	7.5			2TLM2.5x.45C-7.5
M3 - 0.5	1D	TL15032		3.75	3			2TLM3x0.5C-3
	1.5D	TL15033	3.80	6.38	4.5			2TLM3x0.5C-4.5
	2D	TL15034	4.35	8.88	6			2TLM3x0.5C-6
	2.5D	TL15035 ▲		11.38	7.5			2TLM3x0.5C-7.5
	3D	TL15036 ▲		13.88	9.0			2TLM3x0.5C-9
M4 - 0.7	1D	TL15042		3.63	4			2TLM4x0.7C-4
	1.5D	TL15043	5.05	6.13	6			2TLM4x0.7C-6
	2D	TL15044	5.60	8.63	8			2TLM4x0.7C-8
	2.5D	TL15045 ▲		11.13	10			2TLM4x0.7C-10
	3D	TL15046 ▲		13.63	12			2TLM4x0.7C-12
M5 - 0.8	1D	TL15052		4.13	5			2TLM5x0.8C-5
	1.5D	TL15053	6.20	6.88	7.5			2TLM -5x.8C-7.5
	2D	TL15054	6.80	9.63	10			2TLM5x0.8C-10
	2.5D	TL15055 ▲		12.38	12.5			2TLM5x0.8C-12.5
	3D	TL15056 ▲		15.13	15			2TLM5x0.8C-15
M6 - 1	1D	TL15062		4.00	6			2TLM6x1C-6
	1.5D	TL15063	7.40	6.75	9			2TLM6x1C-9
	2D	TL15064	7.95	9.50	12			2TLM6x1C-12
	2.5D	TL15065 ▲		12.13	15			2TLM6x1C-15
	3D	TL15066 ▲		14.88	18			2TLM6x1C-18

Thread Nominal	Nominal Length	Recoil Part No.	Free Coil Dia Min /Max.	Number of Coils	Length (mm)			KATO Part No.
M8 - 1.25	1D	TL15082		4.50	10			2TLM8x1.25C-8
	1.5D	TL15083	9.80	7.38	12			2TLM8x1.25C-12
	2D	TL15084	10.35	10.25	16			2TLM8x1.25C-16
	2.5D	TL15085 ▲		13.25	18			2TLM8x1.25C-20
	3D	TL15086 ▲		16.13	20			2TLM8x1.25C-24
M10 - 1.5	1D	TL15102		4.90	10			2TLM10x1.5C-10
	1.5D	TL15103	11.95	8.00	15			2TLM10x1.5C-15
	2D	TL15104	12.50	11.10	20			2TLM10x1.5C-20
	2.5D	TL15105 ▲		14.25	25			2TLM10x1.5C-25
	3D	TL15106 ▲		17.38	30			2TLM10x1.5C-30

▲ Denotes non-popular parts - Price On Application. Minimum quantities and order values may apply.
Dry film lubing and plating available.

Tangless Inserts - Tooling



Hex Shank Insertion Tool



Replacement Pawl

HEX SHANK INSERTION TOOL - FREE RUNNING				HEX SHANK INSERTION TOOL - LOCKING				REPLACEMENT PAWL			
Size	Recoil Part No.	Kato Part No.		Size	Recoil Part No.	Kato Part No.		Size	Recoil Part No.	Kato Part No.	
M2.5 - 0.45	2CT10-M2.5F	2CT10-M2.5F		M2.5 - 0.45	2CT10-M2.5L	2CT10-M2.5L		M2.5 - 0.45	2CT10-M2.5P	2CT20-M2.5	
M3 - 0.5	2CT10-M3F	2CT10-M3F		M3 - 0.5	2CT10-M3L	2CT10-M3L		M3 - 0.5	2CT10-M3P	2CT20-M3	
M4 - 0.7	2CT10-M4F	2CT10-M4F		M4 - 0.7	2CT10-M4L	2CT10-M4L		M4 - 0.7	2CT10-M4P	2CT20-M4	
M5 - 0.8	2CT10-M5F	2CT10-M5F		M5 - 0.8	2CT10-M5L	2CT10-M5L		M5 - 0.8	2CT10-M5P	2CT20-M5	
M6 - 1	2CT10-M6F	2CT10-M6F		M6 - 1	2CT10-M6L	2CT10-M6L		M6 - 1	2CT10-M6P	2CT20-M6	
M8 - 1.25	2CT10-M8F	2CT10-M8F		M8 - 1.25	2CT10-M8L	2CT10-M8L		M8 - 1.25	2CT10-M8P	2CT20-M8	
M10 - 1.5	2CT10-M10F	2CT10-M10F		M10 - 1.5	2CT10-M10L	2CT10-M10L		M10 - 1.5	2CT10-M10P	2CT20-M10	
M12 - 1.75	2CT10-M12F	2CT10-M12F		M12 - 1.75	2CT10-M12L	2CT10-M12L		M12 - 1.75	2CT10-M12P	2CT20-M12	