



# Recoil® Product Conversions

January 2022



Note: Cross-references shown are for reference only, and not a statement of equivalency.  
Please consult with respective manufacturers to verify any questions on technical specifications.



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Recoil and Tangless Product Conversion Numbers for:  
Helicoil, CoilThread, Perm-A-Thread, Boeing, German Standard, British Standard,  
SAE, German Aerospace, Armstrong, Bollhoff, AGS3700, GE, NA/NAS

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## Free-Running - UNC

THREAD SIZE	LENGTH (IN DIA'S)	LENGTH	RECOIL PART NUMBER	ACTIVE M.S. NUMBER	HELICOIL® PART NUMBER	COILTHREAD® PART NUMBER	PERM-A-THREAD PART NUMBER
2-56	1	0.086	<b>03522</b>	122095	1185-02CN-0086	TNC-02C-0086	208C02-0086
	1.5	0.129	<b>03523</b>	122135	1185-02CN-129	TNC-02C-129	208C02-129
	2	0.172	<b>03524</b>	122175	1185-02CN-172	TNC-02C-172	208C02-172
	2.5	0.215	<b>03525</b>	122215	1185-02CN-215	TNC-02C-215	208C02-215
	3	0.258	<b>03526</b>	122255	1185-02CN-258	TNC-02C-285	208C02-285
3-48	1	0.099	<b>03532</b>	122115	1185-031CN-0099	TNC-03C-0099	208C03-0099
	1.5	0.148	<b>03533</b>	122155	1185-031CN-148	TNC-03C-148	208C03-148
	2	0.198	<b>03534</b>	122195	1185-031CN-198	TNC-03C-198	208C03-198
	2.5	0.248	<b>03535</b>	122235	1185-031CN-248	TNC-03C-248	208C03-248
	3	0.297	<b>03536</b>	122275	1185-031CN-297	TNC-03C-297	208C03-297
4-40	1	0.112	<b>03542</b>	122076	1185-04CN-0112	TNC-04C-0112	208C04-0112
	1.5	0.168	<b>03543</b>	122116	1185-04CN-168	TNC-04C-168	208C04-168
	2	0.224	<b>03544</b>	122156	1185-04CN-224	TNC-04C-224	208C04-224
	2.5	0.28	<b>03545</b>	122196	1185-04CN-280	TNC-04C-280	208C04-280
	3	0.336	<b>03546</b>	122236	1185-04CN-336	TNC-04C-336	208C04-336
5-40	1	0.125	<b>03552</b>	122077	1185-05CN-0125	TNC-05C-0125	208C05-0125
	1.5	0.188	<b>03553</b>	122117	1185-05CN-188	TNC-05C-188	208C05-188
	2	0.25	<b>03554</b>	122157	1185-05CN-250	TNC-05C-250	208C05-250
	2.5	0.312	<b>03555</b>	122197	1185-05CN-312	TNC-05C-312	208C05-312
	3	0.375	<b>03556</b>	122237	1185-05CN-375	TNC-05C-375	208C05-375
6-32	1	0.138	<b>03562</b>	122078	1185-06CN-0138	TNC-06C-0138	208C06-0138
	1.5	0.207	<b>03563</b>	122118	1185-06CN-207	TNC-06C-207	208C06-207
	2	0.276	<b>03564</b>	122158	1185-06CN-276	TNC-06C-276	208C06-276
	2.5	0.345	<b>03565</b>	122198	1185-06CN-345	TNC-06C-345	208C06-345
	3	0.414	<b>03566</b>	122238	1185-06CN-414	TNC-06C-414	208C06-414
8-32	1	0.164	<b>03582</b>	122079	1185-2CN-0164	TNC-2C-0164	208C08-0164
	1.5	0.246	<b>03583</b>	122119	1185-2CN-246	TNC-2C-246	208C08-246
	2	0.328	<b>03584</b>	122159	1185-2CN-328	TNC-2C-328	208C08-328
	2.5	0.41	<b>03585</b>	122199	1185-2CN-410	TNC-2C-410	208C08-410
	3	0.492	<b>03586</b>	122239	1185-2CN-492	TNC-2C-492	208C08-492
10-24	1	0.19	<b>03602</b>	122080	1185-3CN-0190	TNC-3C-0190	208C1-0190
	1.5	0.285	<b>03603</b>	122120	1185-3CN-285	TNC-3C-285	208C1-285
	2	0.38	<b>03604</b>	122160	1185-3CN-380	TNC-3C-380	208C1-380
	2.5	0.475	<b>03605</b>	122200	1185-3CN-475	TNC-3C-475	208C1-475
	3	0.57	<b>03606</b>	122240	1185-3CN-570	TNC-3C-570	208C1-570
12-24	1	0.216	<b>03622</b>	-	1185-1CN-0216	TNC-1C-0216	208C2-0216
	1.5	0.324	<b>03623</b>	-	1185-1CN-324	TNC-1C-324	208C2-324
	2	0.432	<b>03624</b>	-	1185-1CN-432	TNC-1C-432	208C2-432
	2.5	0.54	<b>03625</b>	-	1185-1CN-540	TNC-1C-540	208C2-540
	3	0.648	<b>03626</b>	-	1185-1CN-648	TNC-1C-648	208C2-648
1/4-20	1	0.25	<b>03042</b>	122081	1185-4CN-0250	TNC-4C-0250	208C4-0250
	1.5	0.375	<b>03043</b>	122121	1185-4CN-375	TNC-4C-375	208C4-375
	2	0.5	<b>03044</b>	122161	1185-4CN-500	TNC-4C-500	208C4-500
	2.5	0.625	<b>03045</b>	122201	1185-4CN-625	TNC-4C-625	208C4-625
	3	0.75	<b>03046</b>	122241	1185-4CN-750	TNC-4C-750	208C4-750
5/16-18	1	0.312	<b>03052</b>	122082	1185-5CN-0312	TNC-5C-0312	208C5-0312
	1.5	0.469	<b>03053</b>	122122	1185-5CN-469	TNC-5C-469	208C5-469
	2	0.625	<b>03054</b>	122162	1185-5CN-625	TNC-5C-625	208C5-625
	2.5	0.781	<b>03055</b>	122202	1185-5CN-781	TNC-5C-781	208C5-781
	3	0.938	<b>03056</b>	122242	1185-5CN-938	TNC-5C-938	208C5-938
3/8-16	1	0.375	<b>03062</b>	122083	1185-6CN-0375	TNC-6C-0375	208C6-0375
	1.5	0.562	<b>03063</b>	122123	1185-6CN-562	TNC-6C-562	208C6-562
	2	0.75	<b>03064</b>	122163	1185-6CN-750	TNC-6C-750	208C6-750
	2.5	0.938	<b>03065</b>	122203	1185-6CN-938	TNC-6C-938	208C6-938
	3	1.125	<b>03066</b>	122243	1185-6CN-1125	TNC-6C-1125	208C6-1125

## Free-Running - UNC (cont.)

THREAD SIZE	LENGTH (IN DIA'S)	LENGTH	RECOIL PART NUMBER	ACTIVE M.S. NUMBER	HELICOIL® PART NUMBER	COILTHREAD® PART NUMBER	PERM-A-THREAD PART NUMBER
7/16-14	1	0.438	<b>03072</b>	122084	1185-7CN-0438	TNC-7C-0438	208C7-0438
	1.5	0.656	<b>03073</b>	122124	1185-7CN-656	TNC-7C-656	208C7-656
	2	0.875	<b>03074</b>	122164	1185-7CN-875	TNC-7C-872	208C7-872
	2.5	1.094	<b>03075</b>	122204	1185-7CN-1094	TNC-7C-1094	208C7-1094
	3	1.312	<b>03076</b>	122244	1185-7CN-1312	TNC-7C-1312	208C7-1312
1/2-13	1	0.5	<b>03082</b>	122085	1185-8CN-0500	TNC-8C-0500	208C8-0500
	1.5	0.75	<b>03083</b>	122125	1185-8CN-750	TNC-8C-750	208C8-750
	2	1	<b>03084</b>	122165	1185-8CN-1000	TNC-8C-1000	208C8-1000
	2.5	1.25	<b>03085</b>	122205	1185-8CN-1250	TNC-8C-1250	208C8-1250
	3	1.5	<b>03086</b>	122245	1185-8CN-1500	TNC-8C-1500	208C8-1500
9/16-12	1	0.562	<b>03092</b>	122086	1185-9CN-0562	TNC-9C-0562	208C9-0562
	1.5	0.844	<b>03093</b>	122126	1185-9CN-844	TNC-9C-844	208C9-844
	2	1.125	<b>03094</b>	122166	1185-9CN-1125	TNC-9C-1125	208C9-1125
	2.5	1.406	<b>03095</b>	122206	1185-9CN-1406	TNC-9C-1406	208C9-1406
	3	1.688	<b>03096</b>	122246	1185-9CN-1688	TNC-9C-1688	208C9-1688
5/8-11	1	0.625	<b>03102</b>	122087	1185-10CN-0625	TNC-10C-0625	208C10-0625
	1.5	0.938	<b>03103</b>	122127	1185-10CN-938	TNC-10C-938	208C10-938
	2	1.25	<b>03104</b>	122167	1185-10CN-1250	TNC-10C-1250	208C10-1250
	2.5	1.562	<b>03105</b>	122207	1185-10CN-1562	TNC-10C-1562	208C10-1562
	3	1.875	<b>03106</b>	122247	1185-10CN-1875	TNC-10C-1875	208C10-1875
3/4-10	1	0.75	<b>03122</b>	122088	1185-12CN-0750	TNC-12C-0750	208C12-0750
	1.5	1.25	<b>03123</b>	122128	1185-12CN-1125	TNC-12C-1125	208C12-1125
	2	1.5	<b>03124</b>	122168	1185-12CN-1500	TNC-12C-1500	208C12-1500
	2.5	1.875	<b>03125</b>	122208	1185-12CN-1875	TNC-12C-1875	208C12-1875
	3	2.25	<b>03126</b>	122248	1185-12CN-2250	TNC-12C-2250	208C12-2250
7/8-9	1	0.875	<b>03142</b>	122089	1185-14CN-0875	TNC-14C-0875	208C14-0875
	1.5	1.312	<b>03143</b>	122129	1185-14CN-1312	TNC-14C-1312	208C14-1312
	2	1.75	<b>03144</b>	122169	1185-14CN-1750	TNC-14C-1750	208C14-1750
	2.5	2.188	<b>03145</b>	122209	1185-14CN-2188	TNC-14C-2188	208C14-2188
	3	2.625	<b>03146</b>	122249	1185-14CN-2625	TNC-14C-2625	208C14-2625
1-8	1	1	<b>03162</b>	122090	1185-16CN-1000	TNC-16C-1000	208C16-1000
	1.5	1.5	<b>03163</b>	122130	1185-16CN-1500	TNC-16C-1500	208C16-1500
	2	2	<b>03164</b>	122170	1185-16CN-2000	TNC-16C-2000	208C16-2000
	2.5	2.5	<b>03165</b>	122210	1185-16CN-2500	TNC-16C-2500	208C16-2500
	3	3	<b>03166</b>	122250	1185-16CN-3000	TNC-16C-3000	208C16-3000
1 1/8-7	1	1.125	<b>03182</b>	122091	1185-18CN-1125	TNC-18C-1125	208C18-1125
	1.5	1.688	<b>03183</b>	122131	1185-18CN-1688	TNC-18C-1688	208C18-1688
	2	2.25	<b>03184</b>	122171	1185-18CN-2250	TNC-18C-2250	208C18-2250
	2.5	2.812	<b>03185</b>	122211	1185-18CN-2812	TNC-18C-2812	208C18-2812
	3	3.375	<b>03186</b>	122251	1185-18CN-3375	TNC-18C-3375	208C18-3375
1 1/4-7	1	1.25	<b>03202</b>	122092	1185-20CN-1250	TNC-20C-1250	208C20-1250
	1.5	1.875	<b>03203</b>	122132	1185-20CN-1875	TNC-20C-1875	208C20-1875
	2	2.5	<b>03204</b>	122172	1185-20CN-2500	TNC-20C-2500	208C20-2500
	2.5	3.125	<b>03205</b>	122212	1185-20CN-3125	TNC-20C-3125	208C20-3125
	3	3.75	<b>03206</b>	122252	1185-20CN-3750	TNC-20C-3750	208C20-3750
1 3/8-6	1	1.375	<b>03222</b>	122093	1185-22CN-1375	TNC-22C-1375	208C22-1375
	1.5	2.062	<b>03223</b>	122133	1185-22CN-2062	TNC-22C-2062	208C22-2062
	2	2.75	<b>03224</b>	122173	1185-22CN-2750	TNC-22C-2750	208C22-2750
	2.5	3.438	<b>03225</b>	122213	1185-22CN-3438	TNC-22C-3438	208C22-3438
	3	4.125	<b>03226</b>	122253	1185-22CN-4125	TNC-22C-4125	208C22-4125
1 1/2-6	1	1.5	<b>03242</b>	122094	1185-24CN-1500	TNC-24C-1500	208C24-1500
	1.5	2.25	<b>03243</b>	122134	1185-24CN-2250	TNC-24C-2250	208C24-2250
	2	3	<b>03244</b>	122174	1185-24CN-3000	TNC-24C-3000	208C24-3000
	2.5	3.75	<b>03245</b>	122214	1185-24CN-3750	TNC-24C-3750	208C24-3750
	3	4.5	<b>03246</b>	122254	1185-24CN-4500	TNC-24C-4500	208C24-4500



## Free-Running - UNF

THREAD SIZE	LENGTH (IN DIA'S)	LENGTH	RECOIL PART NUMBER RECOIL SPEC	RECOIL PART NUMBER MIL SPEC	ACTIVE M.S. PART NUMBER	HELICOIL® PART NUMBER	COILTHREAD® PART NUMBER	PERM-A-THREAD PART NUMBER
3-56	1	0.099	04532	04532MS124670	124670	1191-03CN-0099	TNF-03C-0099	-
	1.5	0.148	04533	04533MS124710	124710	1191-03CN-148	TNF-03C-148	-
	2	0.198	04534	04534MS124750	124750	1191-03CN-198	TNF-03C-198	-
	2.5	0.248	04535	04535MS124790	124790	1191-03CN-248	TNF-03C-248	-
	3	0.297	04536	04536MS124830	124830	1191-03CN-297	TNF-03C-297	-
4-48	1	0.112	04542	04542MS124671	124671	1191-04CN-0112	TNF-04C-0112	208F04-0112
	1.5	0.168	04543	04543MS124711	124711	1191-04CN-168	TNF-04C-168	208F04-168
	2	0.224	04544	04544MS124751	124751	1191-04CN-224	TNF-04C-224	208F04-224
	2.5	0.28	04545	04545MS124791	124791	1191-04CN-280	TNF-04C-280	208F04-280
	3	0.336	04546	04546MS124831	124831	1191-04CN-336	TNF-04C-336	208F04-336
6-40	1	0.138	04562	04562MS124653	124653	1191-06CN-0138	TNF-06C-0138	208F06-0138
	1.5	0.207	04563	04563MS124693	124693	1191-06CN-207	TNF-06C-207	208F06-207
	2	0.276	04564	04564MS124733	124733	1191-06CN-276	TNF-06C-276	208F06-276
	2.5	0.345	04565	04565MS124773	124773	1191-06CN-345	TNF-06C-345	208F06-345
	3	0.414	04566	04566MS124813	124813	1191-06CN-414	TNF-06C-414	208F06-414
8-36	1	0.164	04582	04581MS124654	124654	1191-2CN-0164	208F08-0164	208F08-0164
	1.5	0.246	04583	04583MS124694	124694	1191-2CN-246	208F08-246	208F08-246
	2	0.328	04584	04584MS124734	124734	1191-2CN-328	208F08-328	208F08-328
	2.5	0.41	04585	04585MS124774	124774	1191-2CN-410	208F08-410	208F08-410
	3	0.492	04586	04586MS124814	124814	1191-2CN-492	208F08-492	208F08-492
10-32	1	0.19	04602	04602MS124655	124655	1191-3CN-0190	208F1-0190	208F1-0190
	1.5	0.285	04603	04603MS124695	124695	1191-3CN-285	208F1-285	208F1-285
	2	0.38	04604	04604MS124735	124735	1191-3CN-380	208F1-380	208F1-380
	2.5	0.475	04605	04605MS124775	124775	1191-3CN-475	208F1-475	208F1-475
	3	0.57	04606	04606MS124815	124815	1191-3CN-570	208F1-570	208F1-570
1/4 - 28	1	0.25	04042	04042MS124656	124656	1191-4CN-0250	208F4-0250	208F4-0250
	1.5	0.375	04043	04043MS124696	124696	1191-4CN-375	208F4-375	208F4-375
	2	0.5	04044	04044MS124736	124736	1191-4CN-500	208F4-500	208F4-500
	2.5	0.625	04045	04045MS124776	124776	1191-4CN-625	208F4-625	208F4-625
	3	0.75	04046	04046MS124816	124816	1191-4CN-750	208F4-750	208F4-750
5/16-24	1	0.312	04052	04052MS124657	124657	1191-5CN-0312	208F5-0312	208F5-0312
	1.5	0.469	04053	04053MS124697	124697	1191-5CN-469	208F5-469	208F5-469
	2	0.625	04054	04054MS124737	124737	1191-5CN-625	208F5-625	208F5-625
	2.5	0.781	04055	04055MS124777	124777	1191-5CN-481	208F5-781	208F5-781
	3	0.938	04056	04056MS124817	124817	1191-5CN-938	208F5-938	208F5-938
3/8 - 24	1	0.375	04062	04062MS124658	124658	1191-6CN-0375	208F6-0375	208F6-0375
	1.5	0.562	04063	04063MS124698	124698	1191-6CN-562	208F6-562	208F6-562
	2	0.75	04064	04064MS124738	124738	1191-6CN-750	208F6-750	208F6-750
	2.5	0.938	04065	04065MS124778	124778	1191-6CN-938	208F6-938	208F6-938
	3	1.125	04066	04066MS124818	124818	1191-6CN-1125	208F6-1125	208F6-1125
7/16-20	1	0.438	04072	04072MS124659	124659	1191-7CN-0438	208F7-0438	208F7-0438
	1.5	0.656	04073	04073MS124699	124699	1191-7CN-656	208F7-656	208F7-656
	2	0.875	04074	04074MS124739	124739	1191-7CN-875	208F7-875	208F7-875
	2.5	1.094	04075	04075MS124779	124779	1191-7CN-1094	208F7-1094	208F7-1094
	3	1.312	04076	04076MS124819	124819	1191-7CN-1312	208F7-1312	208F7-1312
1/2-20	1	0.5	04082	04082MS124660	124660	1191-8CN-0500	208F8-0500	208F8-0500
	1.5	0.75	04083	04083MS124700	124700	1191-8CN-750	208F8-750	208F8-750
	2	1	04084	04084MS124740	124740	1191-8CN-1000	208F8-1000	208F8-1000
	2.5	1.25	04085	04085MS124780	124780	1191-8CN-1250	208F8-1250	208F8-1250
	3	1.5	04086	04086MS124820	124820	1191-8CN-1500	208F8-1500	208F8-1500



## Free-Running - UNF (cont.)

THREAD SIZE	LENGTH (IN DIA'S)	LENGTH	RECOIL PART NUMBER RECOIL SPEC	RECOIL PART NUMBER MIL SPEC	ACTIVE M.S. PART NUMBER	HELICOIL® PART NUMBER	COILTHREAD® PART NUMBER	PERM-A-THREAD PART NUMBER
9/16-18	1	0.562	04092	04092MS124661	124661	1191-9CN-0562	208F9-0562	208F9-0562
	1.5	0.844	04093	04093MS124701	124701	1191-9CN-844	208F9-844	208F9-844
	2	1.125	04094	04094MS124741	124741	1191-9CN-1125	208F9-1125	208F9-1125
	2.5	1.406	04095	04095MS124781	124781	1191-9CN-1406	208F9-1406	208F9-1406
	3	1.688	04096	04096MS124821	124821	1191-9CN-1688	208F9-1688	208F9-1688
5/8-18	1	.625	04102	04102MS124662	124662	1191-10CN-0625	208F10-0625	208F10-0625
	1-1/2	.938	04103	04103MS124702	124702	1191-10CN-0938	208F10-0938	208F10-0938
	2	1.250	04104	04104MS124742	124742	1191-10CN-1250	208F10-1250	208F10-1250
	2-1/2	1.562	04105	04105MS124782	124782	1191-10CN-1562	208F10-1562	208F10-1562
	3	1.875	04106	04106MS124822	124822	1191-10CN-1875	208F10-1875	208F10-1875
3/4-16	1	.750	04122	04122MS124663	124663	1191-12CN-0750	208F12-0750	208F12-0750
	1-1/2	1.125	04123	04123MS124703	124703	1191-12CN-1125	208F12-1125	208F12-1125
	2	1.500	04124	04124MS124743	124743	1191-12CN-1500	208F12-1500	208F12-1500
	2-1/2	1.875	04125	04125MS124783	124783	1191-12CN-1875	208F12-1875	208F12-1875
	3	2.250	04126	04126MS124823	124823	1191-12CN-2250	208F12-2250	208F12-2250
7/8-14	1	.875	04142	04142MS124664	124664	1191-14CN-0875	208F14-0875	208F14-0875
	1-1/2	1.312	04143	04143MS124704	124704	1191-14CN-1312	208F14-1312	208F14-1312
	2	1.750	04144	04144MS124744	124744	1191-14CN-1750	208F14-1750	208F14-1750
	2-1/2	2.188	04145	04145MS124784	124784	1191-14CN-2188	208F14-2188	208F14-2188
	3	2.625	04146	04146MS124824	124824	1191-14CN-2625	208F14-2625	208F14-2625
1-12	1	1.000	04162	04162MS124651	124651	1191-16CN-1000	208F16-1000	208F16-1000
	1-1/2	1.500	04163	04163MS124691	124691	1191-16CN-1500	208F16-1500	208F16-1500
	2	2.000	04164	04164MS124731	124731	1191-16CN-2000	208F16-2000	208F16-2000
	2-1/2	2.500	04165	04165MS124771	124771	1191-16CN-2500	208F16-2500	208F16-2500
	3	3.000	04166	04166MS124811	124811	1191-16CN-3000	208F16-3000	208F16-3000
1-1/8-12	1	1.125	04182	04182MS124666	124666	1191-18CN-1125	208F18-1125	208F18-1125
	1-1/2	1.688	04183	04183MS124706	124706	1191-18CN-1688	208F18-1688	208F18-1688
	2	2.250	04184	04184MS124746	124746	1191-18CN-2250	208F18-2250	208F18-2250
	2-1/2	2.812	04185	04185MS124786	124786	1191-18CN-2812	208F18-2812	208F18-2812
	3	3.375	04186	04186MS124826	124826	1191-18CN-3375	208F18-3375	208F18-3375
1-1/4-12	1	1.250	04202	04202MS124667	124667	1191-20CN-1250	208F20-1250	208F20-1250
	1-1/2	1.875	04203	04203MS124707	124707	1191-20CN-1875	208F20-1875	208F20-1875
	2	2.500	04204	04204MS124747	124747	1191-20CN-2500	208F20-2500	208F20-2500
	2-1/2	3.125	04205	04205MS124787	124787	1191-20CN-3125	208F20-3125	208F20-3125
	3	3.750	04206	04206MS124827	124827	1191-20CN-3750	208F20-3750	208F20-3750
1-3/8-12	1	1.375	04222	04222MS124668	124668	1191-22CN-1375	208F22-1375	208F22-1375
	1-1/2	2.062	04223	04223MS124708	124708	1191-22CN-2062	208F22-2062	208F22-2062
	2	2.750	04224	04224MS124748	124748	1191-22CN-2750	208F22-2750	208F22-2750
	2-1/2	3.438	04225	04245MS124788	124788	1191-22CN-3438	208F22-3438	208F22-3438
	3	4.125	04226	04246MS124828	124828	1191-22CN-4125	208F22-4125	208F22-4125
1-1/2-12	1	1.500	04242	04242MS124669	124669	1191-24CN-1500	208F24-1500	208F24-1500
	1-1/2	2.250	04243	04243MS124709	124709	1191-24CN-2250	208F24-2250	208F24-2250
	2	3.000	04244	04244MS124749	124749	1191-24CN-3000	208F24-3000	208F24-3000
	2-1/2	3.750	04245	04245MS124789	124789	1191-24CN-3750	208F24-3750	208F24-3750
	3	4.500	04246	04246MS124829	124829	1191-24CN-4500	208F24-4500	208F24-4500

## Locking Series - UNC

THREAD SIZE	LENGTH (IN DIA'S)	LENGTH	RECOIL PART NUMBER	ACTIVE M.S. NUMBER	BOEING BACI2AE PART NUMBER	HELICOIL® US PART NUMBER	PERM-A-THREAD PART NUMBER
2-56	1	.086	<b>13522</b>	21209-C0210	BACI12AE-C0210	3585-02CN-0086	209C02-0086
	1-1/2	.129	<b>13523</b>	21209-C0215	BACI12AE-C0215	3585-02CN-0129	209C02-0129
	2	.172	<b>13524</b>	21209-C0220	BACI12AE-C0220	3585-02CN-0172	209C02-0172
	2-1/2	.215	<b>13525</b>	21209-C0225	BACI12AE-C0225	3585-02CN-0215	209C02-0215
	3	.258	<b>13526</b>	21209-C0230	BACI12AE-C0230	3585-02CN-0258	209C02-0258
3-48	1	.099	<b>13532</b>	21209-C0310	BACI12AE-C0310	3585-031CN-0099	209C03-0099
	1-1/2	.148	<b>13533</b>	21209-C0315	BACI12AE-C0315	3585-031CN-0148	209C03-0148
	2	.198	<b>13534</b>	21209-C0320	BACI12AE-C0320	3585-031CN-0198	209C03-0198
	2-1/2	.248	<b>13535</b>	21209-C0325	BACI12AE-C0325	3585-031CN-0248	209C03-0248
	3	.297	<b>13536</b>	21209-C0330	BACI12AE-C0330	3585-031CN-0297	209C03-0297
4-40	1	.112	<b>13542</b>	21209-C0410	BACI12AE-C0410	3585-04CN-0112	209C04-0112
	1-1/2	.168	<b>13543</b>	21209-C0415	BACI12AE-C0415	3585-04CN-0168	209C04-0168
	2	.224	<b>13544</b>	21209-C0420	BACI12AE-C0420	3585-04CN-0224	209C04-0224
	2-1/2	.280	<b>13545</b>	21209-C0425	BACI12AE-C0425	3585-04CN-0280	209C04-0280
	3	.336	<b>13546</b>	21209-C0430	BACI12AE-C0430	3585-04CN-0336	209C04-0336
5-40	1	.125	<b>13552</b>	21209-C0510	BACI12AE-C0510	3585-05CN-0125	209C05-0125
	1-1/2	.188	<b>13553</b>	21209-C0515	BACI12AE-C0515	3585-05CN-0188	209C05-0188
	2	.250	<b>13554</b>	21209-C0520	BACI12AE-C0520	3585-05CN-0250	209C05-0250
	2-1/2	.312	<b>13555</b>	21209-C0525	BACI12AE-C0525	3585-05CN-0312	209C05-0312
	3	.375	<b>13556</b>	21209-C0530	BACI12AE-C0530	3585-05CN-0375	209C05-0375
6-32	1	.138	<b>13562</b>	21209-C0610	BACI12AE-C0610	3585-06CN-0138	209C06-0138
	1-1/2	.207	<b>13563</b>	21209-C0615	BACI12AE-C0615	3585-06CN-0207	209C06-0207
	2	.276	<b>13564</b>	21209-C0620	BACI12AE-C0620	3585-06CN-0276	209C06-0276
	2-1/2	.345	<b>13565</b>	21209-C0625	BACI12AE-C0625	3585-06CN-0345	209C06-0345
	3	.414	<b>13566</b>	21209-C0630	BACI12AE-C0630	3585-06CN-0414	209C06-0414
8-32	1	.164	<b>13582</b>	21209-C0810	BACI12AE-C0810	3585-2CN-0164	209C08-0164
	1-1/2	.246	<b>13583</b>	21209-C0815	BACI12AE-C0815	3585-2CN-0246	209C08-0246
	2	.328	<b>13584</b>	21209-C0820	BACI12AE-C0820	3585-2CN-0328	209C08-0328
	2-1/2	.410	<b>13585</b>	21209-C0825	BACI12AE-C0825	3585-2CN-0410	209C08-0410
	3	.492	<b>13586</b>	21209-C0830	BACI12AE-C0830	3585-2CN-0492	209C08-0492
10-24	1	.190	<b>13602</b>	21209-C1-10	BACI12AE-C1-10	3585-3CN-0190	209C1-0190
	1-1/2	.285	<b>13603</b>	21209-C1-15	BACI12AE-C1-15	3585-3CN-0285	209C1-0285
	2	.380	<b>13604</b>	21209-C1-20	BACI12AE-C1-20	3585-3CN-0380	209C1-0380
	2-1/2	.475	<b>13605</b>	21209-C1-25	BACI12AE-C1-25	3585-3CN-0475	209C1-0475
	3	.570	<b>13606</b>	21209-C1-30	BACI12AE-C1-30	3585-3CN-0570	209C1-0570
12-24	1	.216	<b>13622</b>	21209-C2-10	BACI12AE-C2-10	3585-1CN-0216	209C2-0216
	1-1/2	.324	<b>13623</b>	21209-C2-15	BACI12AE-C2-15	3585-1CN-0324	209C2-0324
	2	.432	<b>13624</b>	21209-C2-20	BACI12AE-C2-20	3585-1CN-0432	209C2-0432
	2-1/2	.540	<b>13625</b>	21209-C2-25	BACI12AE-C2-25	3585-1CN-0540	209C2-0540
	3	.648	<b>13626</b>	21209-C2-30	BACI12AE-C2-30	3585-1CN-0648	209C2-0648
1/4-20	1	.250	<b>13042</b>	21209-C4-10	BACI12AE-C4-10	2585-4CN-0250	209C4-0250
	1-1/2	.375	<b>13043</b>	21209-C4-15	BACI12AE-C4-15	2585-4CN-0375	209C4-0375
	2	.500	<b>13044</b>	21209-C4-20	BACI12AE-C4-20	2585-4CN-0500	209C4-0500
	2-1/2	.625	<b>13045</b>	21209-C4-25	BACI12AE-C4-25	2585-4CN-0625	209C4-0625
	3	.750	<b>13046</b>	21209-C4-30	BACI12AE-C4-30	2585-4CN-0750	209C4-0750
5/16-18	1	.312	<b>13052</b>	21209-C5-10	BACI12AE-C5-10	3585-5CN-0312	209C5-0312
	1-1/2	.469	<b>13053</b>	21209-C5-15	BACI12AE-C5-15	3585-5CN-0469	209C5-0469
	2	.625	<b>13054</b>	21209-C5-20	BACI12AE-C5-20	3585-5CN-0625	209C5-0625
	2-1/2	.781	<b>13055</b>	21209-C5-25	BACI12AE-C5-25	3585-5CN-0781	209C5-0781
	3	.938	<b>13056</b>	21209-C5-30	BACI12AE-C5-30	3585-5CN-0938	209C5-0938



## Locking Series - UNC (cont.)

THREAD SIZE	LENGTH (IN DIA'S)	LENGTH	RECOIL PART NUMBER	ACTIVE M.S. NUMBER	BOEING BACI2AE PART NUMBER	HELICOIL® US PART NUMBER	PERM-A-THREAD PART NUMBER
3/8-16	1	.375	<b>13062</b>	21209-C6-10	BACI12AE-C6-10	3585-6CN-0375	209C6-0375
	1-1/2	.562	<b>13063</b>	21209-C6-15	BACI12AE-C6-15	3585-6CN-0562	209C6-0562
	2	.750	<b>13064</b>	21209-C6-20	BACI12AE-C6-20	3585-6CN-0750	209C6-0750
	2-1/2	.938	<b>13065</b>	21209-C6-25	BACI12AE-C6-25	3585-6CN-0938	209C6-0938
	3	1.125	<b>13066</b>	21209-C6-30	BACI12AE-C6-30	3585-6CN-1125	209C6-1125
7/16-14	1	.438	<b>13072</b>	21209-C7-10	BACI12AE-C7-10	3585-7CN-0438	209C7-0438
	1-1/2	.656	<b>13073</b>	21209-C7-15	BACI12AE-C7-15	3585-7CN-0656	209C7-0656
	2	.875	<b>13074</b>	21209-C7-20	BACI12AE-C7-20	3585-7CN-0875	209C7-0875
	2-1/2	1.094	<b>13075</b>	21209-C7-25	BACI12AE-C7-25	3585-7CN-1094	209C7-1094
	3	1.312	<b>13076</b>	21209-C7-30	BACI12AE-C7-30	3585-7CN-1312	209C7-1312
1/2-13	1	.500	<b>13082</b>	21209-C8-10	BACI12AE-C8-10	3585-8CN-0500	209C8-0500
	1-1/2	.750	<b>13083</b>	21209-C8-15	BACI12AE-C8-15	3585-8CN-0750	209C8-0750
	2	1.000	<b>13084</b>	21209-C8-20	BACI12AE-C8-20	3585-8CN-1000	209C8-1000
	2-1/2	1.250	<b>13085</b>	21209-C8-25	BACI12AE-C8-25	3585-8CN-1250	209C8-1250
	3	1.500	<b>13086</b>	21209-C8-30	BACI12AE-C8-30	3585-8CN-1500	209C8-1500
9/16-12	1	.5621	<b>13092</b>	21209-C9-10	BACI12AE-C9-10	3585-9CN-0562	209C9-0562
	1-1/2	.844	<b>13093</b>	21209-C--15	BACI12AE-C--15	3585-9CN-0844	209C9-0844
	2	1.125	<b>13094</b>	21209-C9-20	BACI12AE-C9-20	3585-9CN-1125	209C9-1125
	2-1/2	1.406	<b>13095</b>	21209-C9-25	BACI12AE-C9-25	3585-9CN-1406	209C9-1406
	3	1.688	<b>13096</b>	21209-C9-30	BACI12AE-C9-30	3585-9CN-1688	209C9-1688
5/8-11	1	.625	<b>13102</b>	21209-C1010	BACI12AE-C1010	3585-10CN-0625	209C10-0625
	1-1/2	.938	<b>13103</b>	21209-C1015	BACI12AE-C1015	3585-10CN-0938	209C10-0938
	2	1.250	<b>13104</b>	21209-C1020	BACI12AE-C1020	3585-10CN-1250	209C10-1250
	2-1/2	1.562	<b>13105</b>	21209-C1025	BACI12AE-C1025	3585-10CN-1562	209C10-1562
	3	1.875	<b>13106</b>	21209-C1030	BACI12AE-C1030	3585-10CN-1875	209C10-1875
3/4-10	1	.750	<b>13122</b>	21209-C1210	BACI12AE-C1210	3585-12CN-0750	209C12-0750
	1-1/2	1.125	<b>13123</b>	21209-C1215	BACI12AE-C1215	3585-12CN-1125	209C12-1125
	2	1.500	<b>13124</b>	21209-C1220	BACI12AE-C1220	3585-12CN-1500	209C12-1500
	2-1/2	1.875	<b>13125</b>	21209-C1225	BACI12AE-C1225	3585-12CN-1875	209C12-1875
	3	2.250	<b>13126</b>	21209-C1230	BACI12AE-C1230	3585-12CN-2250	209C12-2250
7/8-9	1	.875	<b>13142</b>	21209-C1410	BACI12AE-C1410	3585-14CN-0875	209C14-0875
	1-1/2	1.312	<b>13143</b>	21209-C1415	BACI12AE-C1415	3585-14CN-1125	209C14-1312
	2	1.750	<b>13144</b>	21209-C1420	BACI12AE-C1420	3585-14CN-1500	209C14-1750
	2-1/2	2.188	<b>13145</b>	21209-C1425	BACI12AE-C1425	3585-14CN-1875	209C14-2188
	3	2.625	<b>13146</b>	21209-C1430	BACI12AE-C1430	3585-14CN-2250	209C14-2625
1-8	1	1.000	<b>13162</b>	21209-C1610	BACI12AE-C1610	3585-16CN-1000	209C16-1000
	1-1/2	1.500	<b>13163</b>	21209-C1615	BACI12AE-C1615	3585-16CN-1500	209C16-1500
	2	2.000	<b>13164</b>	21209-C1620	BACI12AE-C1620	3585-16CN-2000	209C16-2000
	2-1/2	2.500	<b>13165</b>	21209-C1625	BACI12AE-C1625	3585-16CN-2500	209C16-2500
	3	3.000	<b>13166</b>	21209-C1630	BACI12AE-C1630	3585-16CN-3000	209C16-3000
1-1/8-7	1	1.125	<b>13182</b>	21209-C1810	BACI12AE-C1810	3585-18CN-1125	209C18-1125
	1-1/2	1.688	<b>13183</b>	21209-C1815	BACI12AE-C1815	3585-18CN-1688	209C18 1688
	2	2.250	<b>13184</b>	21209-C1820	BACI12AE-C1820	3585-18CN-2250	209C18-2250
	2-1/2	2.812	<b>13185</b>	21209-C1825	BACI12AE-C1825	3585-18CN-2812	209C18-2812
	3	3.375	<b>13186</b>	21209-C1830	BACI12AE-C1830	3585-18CN-3375	209C18-3375
1-1/4-7	1	1.250	<b>13202</b>	21209-C2010	BACI12AE-C2010	3585-20CN-1250	209C20-1250
	1-1/2	1.875	<b>13203</b>	21209-C2015	BACI12AE-C2015	3585-20CN-1875	209C20-1875
	2	2.500	<b>13204</b>	21209-C2020	BACI12AE-C2020	3585-20CN-2500	209C20-2500
	2-1/2	3.125	<b>13205</b>	21209-C2025	BACI12AE-C2025	3585-20CN-3125	209C20-3125
	3	3.750	<b>13206</b>	21209-C2030	BACI12AE-C2030	3585-20CN-3750	209C20-3750





## Locking Series - UNC (cont.)

THREAD SIZE	LENGTH (IN DIA'S)	LENGTH	RECOIL PART NUMBER	ACTIVE M.S. NUMBER	BOEING BACI2AE PART NUMBER	HELICOIL® US PART NUMBER	PERM-A-THREAD PART NUMBER
1-3/8-6	1	1.375	<b>13222</b>	21209-C2210	BACI12AE-C2210	3585-22CN-1375	209C22-1375
	1-1/2	1.062	<b>13223</b>	21209-C2215	BACI12AE-C2215	3585-22CN-2062	209C22-2062
	2	2.750	<b>13224</b>	21209-C2220	BACI12AE-C2220	3585-22CN-2750	209C22-2750
	2-1/2	3.438	<b>13225</b>	21209-C2225	BACI12AE-C2225	3585-22CN-3438	209C22-3438
	3	4.125	<b>13226</b>	21209-C2230	BACI12AE-C2230	3585-22CN-4125	209C22-4125
1-1/2-6	1	1.500	<b>13242</b>	21209-C2410	BACI12AE-C2410	3585-24CN-1500	209C24-1500
	1-1/2	2.250	<b>13243</b>	21209-C2415	BACI12AE-C2415	3585-24CN-2250	209C24-2250
	2	3.000	<b>13244</b>	21209-C2420	BACI12AE-C2420	3585-24CN-3000	209C24-3000
	2-1/2	3.750	<b>13245</b>	21209-C2425	BACI12AE-C2425	3585-24CN-3750	209C24-3750
	3	4.500	<b>13246</b>	21209-C2430	BACI12AE-C2430	3585-24CN-4500	209C24-4500



## Locking Series - UNF

THREAD SIZE	LENGTH (IN DIA'S)	LENGTH	RECOIL PART NUMBER	ACTIVE M.S. NUMBER	BOEING BACI2AE PART NUMBER	HELICOIL® US PART NUMBER	PERM-A-THREAD PART NUMBER
3-56	1	.099	<b>14532</b>	21209-F0310	BACI12AE-F0310	3591-03CN-0099	-
	1-1/2	.148	<b>14533</b>	21209-F0315	BACI12AE-F0315	3591-03CN-0148	-
	2	.198	<b>14534</b>	21209-F0320	BACI12AE-F0320	3591-03CN-0198	-
	2-1/2	.248	<b>14535</b>	21209-F0325	BACI12AE-F0325	3591-03CN-0248	-
	3	.297	<b>14536</b>	21209-F0330	BACI12AE-F0330	3591-03CN-0297	-
4-48	1	.112	<b>14542</b>	21209-F0410	BACI12AE-F0410	3591-041CN-0112	209F04-0112
	1-1/2	.168	<b>14543</b>	21209-F0415	BACI12AE-F0415	3591-041CN-0168	209F04-0168
	2	.224	<b>14544</b>	21209-F0420	BACI12AE-F0420	3591-041CN-0224	209F04-0224
	2-1/2	.280	<b>14545</b>	21209-F0425	BACI12AE-F0425	3591-041CN-0280	209F04-0280
	3	.336	<b>14546</b>	21209-F0430	BACI12AE-F0430	3591-041CN-0336	209F04-0336
6-40	1	.138	<b>14562</b>	21209-F0610	BACI12AE-F0610	3591-06CN-0138	209F06-0138
	1-1/2	.207	<b>14563</b>	21209-F0615	BACI12AE-F0615	3591-06CN-0207	209F06-0207
	2	.276	<b>14564</b>	21209-F0620	BACI12AE-F0620	3591-06CN-0276	209F06-0276
	2-1/2	.345	<b>14565</b>	21209-F0625	BACI12AE-F0625	3591-06CN-0345	209F06-0345
	3	.414	<b>14566</b>	21209-F0630	BACI12AE-F0630	3591-06CN-0414	209F06-0414
8-36	1	.164	<b>14582</b>	21209-F0810	BACI12AE-F0810	3591-2CN-0164	209F08-0164
	1-1/2	.246	<b>14583</b>	21209-F0815	BACI12AE-F0815	3591-2CN-0246	209F08-0246
	2	.328	<b>14584</b>	21209-F0820	BACI12AE-F0820	3591-2CN-0328	209F08-0328
	2-1/2	.410	<b>14585</b>	21209-F0825	BACI12AE-F0825	3591-2CN-0410	209F08-0410
	3	.492	<b>14586</b>	21209-F0830	BACI12AE-F0830	3591-2CN-0492	209F08-0492
10-32	1	.190	<b>14602</b>	21209-F1-10	BACI12AE-F1-10	3591-3CN-0190	209F1-0190
	1-1/2	.285	<b>14603</b>	21209-F1-15	BACI12AE-F1-15	3591-3CN-0285	209F1-0285
	2	.380	<b>14604</b>	21209-F1-20	BACI12AE-F1-20	3591-3CN-0380	209F1-0380
	2-1/2	.475	<b>14605</b>	21209-F1-25	BACI12AE-F1-25	3591-3CN-0475	209F1-0475
	3	.570	<b>14606</b>	21209-F1-30	BACI12AE-F1-30	3591-3CN-0570	209F1-0570
1/4-28	1	.250	<b>14042</b>	21209-F4-10	BACI12AE-F4-10	3591-4CN-0250	209F4-0250
	1-1/2	.375	<b>14043</b>	21209-F4-15	BACI12AE-F4-15	3591-4CN-0375	209F4-0375
	2	.500	<b>14044</b>	21209-F4-20	BACI12AE-F4-20	3591-4CN-0500	209F4-0500
	2-1/2	.625	<b>14045</b>	21209-F4-25	BACI12AE-F4-25	3591-4CN-0625	209F4-0625
	3	.750	<b>14046</b>	21209-F4-30	BACI12AE-F4-30	3591-4CN-0750	209F4-0750
5/16-24	1	.312	<b>14052</b>	21209-F5-10	BACI12AE-F5-10	3591-5CN-0312	209F5-0312
	1-1/2	.469	<b>14053</b>	21209-F5-15	BACI12AE-F5-15	3591-5CN-0469	209F5-0469
	2	.625	<b>14054</b>	21209-F5-20	BACI12AE-F5-20	3591-5CN-0625	209F5-0625
	2-1/2	.781	<b>14055</b>	21209-F5-25	BACI12AE-F5-25	3591-5CN-0781	209F5-0781
	3	.938	<b>14056</b>	21209-F5-30	BACI12AE-F5-30	3591-5CN-0938	209F5-0938
3/8-24	1	.375	<b>14062</b>	21209-F6-10	BACI12AE-F6-10	3591-6CN-0375	209F6-0375
	1-1/2	.562	<b>14063</b>	21209-F6-15	BACI12AE-F6-15	3591-6CN-0562	209F6-0562
	2	.750	<b>14064</b>	21209-F6-20	BACI12AE-F6-20	3591-6CN-0750	209F6-0750
	2-1/2	.938	<b>14065</b>	21209-F6-25	BACI12AE-F6-25	3591-6CN-0938	209F6-0938
	3	1.125	<b>14066</b>	21209-F6-30	BACI12AE-F6-30	3591-6CN-1125	209F6-1125
7/16-20	1	.438	<b>14702</b>	21209-F7-10	BACI12AE-F7-10	3591-7CN-0438	209F7-0438
	1-1/2	.656	<b>14703</b>	21209-F7-15	BACI12AE-F7-15	3591-7CN-0656	209F7-0656
	2	.875	<b>14704</b>	21209-F7-20	BACI12AE-F7-20	3591-7CN-0875	209F7-0875
	2-1/2	1.094	<b>14705</b>	21209-F7-25	BACI12AE-F7-25	3591-7CN-1094	209F7-1094
	3	1.312	<b>14706</b>	21209-F7-30	BACI12AE-F7-30	3591-7CN-1312	209F7-1312
1/2-20	1	.500	<b>14082</b>	21209-F8-10	BACI12AE-F8-10	3591-8CN-0500	209F8-0500
	1-1/2	.750	<b>14083</b>	21209-F8-15	BACI12AE-F8-15	3591-8CN-0750	209F8-0750
	2	1.000	<b>14084</b>	21209-F8-20	BACI12AE-F8-20	3591-8CN-1000	209F8-1000
	2-1/2	1.250	<b>14085</b>	21209-F8-25	BACI12AE-F8-25	3591-8CN-1250	209F8-1250
	3	1.500	<b>14086</b>	21209-F8-30	BACI12AE-F8-30	3591-8CN-1500	209F8-1500

## Locking Series - UNF (cont.)

THREAD SIZE	LENGTH (IN DIA'S)	LENGTH	RECOIL PART NUMBER	ACTIVE M.S. NUMBER	BOEING BACI2AE PART NUMBER	HELICOIL® US PART NUMBER	PERM-A-THREAD PART NUMBER
9/16-18	1	.562	<b>14092</b>	21209-F9-10	BACI12AE-F9-10	3591-9CN-0562	209F9-0562
	1-1/2	.844	<b>14093</b>	21209-F9-15	BACI12AE-F9-15	3591-9CN-0844	209F9-0844
	2	1.125	<b>14094</b>	21209-F9-20	BACI12AE-F9-20	3591-9CN-1125	209F9-1125
	2-1/2	1.406	<b>14095</b>	21209-F9-25	BACI12AE-F9-25	3591-9CN-1406	-1406 209F9
	3	1.688	<b>14096</b>	21209-F9-30	BACI12AE-F9-30	3591-9CN-1688	209F9-1688
5/8-18	1	.625	<b>14102</b>	21209-F1010	BACI12AE-F1010	3591-10CN-0625	209F10-0625
	1-1/2	.938	<b>14103</b>	21209-F1015	BACI12AE-F1015	3591-10CN-0938	209F10-0938
	2	1.250	<b>10104</b>	21209-F1020	BACI12AE-F1020	3591-10CN-1250	209F10-1250
	2-1/2	1.562	<b>14105</b>	21209-F1025	BACI12AE-F1025	3591-10CN-1562	209F10-1562
	3	1.875	<b>14106</b>	21209-F1030	BACI12AE-F1030	3591-10CN-1875	209F10-1875
3/4-16	1	.750	<b>14122</b>	21209-F1210	BACI12AE-F1210	3591-12CN-0750	209F12-0750
	1-1/2	1.125	<b>14123</b>	21209-F1215	BACI12AE-F1215	3591-12CN-1125	209F12-1125
	2	1.500	<b>14124</b>	21209-F1220	BACI12AE-F1220	3591-12CN-1500	209F12-1500
	2-1/2	1.875	<b>14125</b>	21209-F1225	BACI12AE-F1225	3591-12CN-1875	209F12-1875
	3	2.250	<b>14126</b>	21209-F1230	BACI12AE-F1230	3591-12CN-2250	209F12-2250
7/8-14	1	.875	<b>14142</b>	21209-F1410	BACI12AE-F1410	3591-14CN-0875	209F14-0875
	1-1/2	1.132	<b>14143</b>	21209-F1415	BACI12AE-F1415	3591-14CN-1312	209F14-1312
	2	1.750	<b>14144</b>	21209-F1420	BACI12AE-F1420	3591-14CN-1750	209F14-1750
	2-1/2	2.188	<b>14145</b>	21209-F1425	BACI12AE-F1425	3591-14CN-2188	209F14-2188
	3	2.625	<b>14146</b>	21209-F1430	BACI12AE-F1430	3591-14CN-2625	209F14-2625
1-12	1	1.000	<b>14162</b>	21209-F1610	BACI12AE-F1610	3591-161CN-1000	209F16-1000
	1-1/2	1.500	<b>14163</b>	21209-F1615	BACI12AE-F1615	3591-161CN-0514	209F16-1500
	2	2.000	<b>14164</b>	21209-F1620	BACI12AE-F1620	3591-161CN-2000	209F16-2000
	2-1/2	2.500	<b>14165</b>	21209-F1625	BACI12AE-F1625	3591-161CN-2500	209F16-2500
	3	3.000	<b>14166</b>	21209-F1630	BACI12AE-F1630	3591-161CN-3000	209F16-3000
1-1/8-12	1	1.125	<b>14182</b>	21209-F1810	BACI12AE-F1810	3591-18CN-1125	3591F18-1125
	1-1/2	1.688	<b>14183</b>	21209-F1815	BACI12AE-F1815	3591-18CN-1688	3591F18-1688
	2	2.250	<b>14184</b>	21209-F1820	BACI12AE-F1820	3591-18CN-2250	3591F18-2250
	2-1/2	2.812	<b>14185</b>	21209-F1825	BACI12AE-F1825	3591-18CN-2812	3591F18-2812
	3	3.375	<b>14186</b>	21209-F1830	BACI12AE-F1830	3591-18CN-3375	3591F18-3375
1-1/4-12	1	1.250	<b>14202</b>	21209-F2010	BACI12AE-F2010	3591-20CN-1250	209F20-1250
	1-1/2	1.875	<b>14203</b>	21209-F2015	BACI12AE-F2015	3591-20CN-1875	209F20-1875
	2	2.500	<b>14204</b>	21209-F2020	BACI12AE-F2020	3591-20CN-2500	209F20-2500
	2-1/2	3.125	<b>14205</b>	21209-F2025	BACI12AE-F2025	3591-20CN-3125	209F20-3125
	3	3.750	<b>14206</b>	21209-F2030	BACI12AE-F2030	3591-20CN-3750	209F20-3750
1-3/8-12	1	1.375	<b>14222</b>	21209-F2210	BACI12AE-F2210	3591-22CN-1375	209F22-1275
	1-1/2	2.062	<b>14223</b>	21209-F2215	BACI12AE-F2215	3591-22CN-2062	209F22-2062
	2	2.750	<b>14224</b>	21209-F2220	BACI12AE-F2220	3591-22CN-2750	209F22-2750
	2-1/2	3.438	<b>14225</b>	21209-F2225	BACI12AE-F2225	3591-22CN-3438	209F22-3438
	3	4.125	<b>14226</b>	21209-F2230	BACI12AE-F2230	3591-22CN-4125	209F22-4125
1-12-12	1	1.500	<b>14242</b>	21209-F2410	BACI12AE-F2410	3591-24CN-1500	209F24-1500
	1-1/2	2.250	<b>14243</b>	21209-F2415	BACI12AE-F2415	3591-24CN-2250	209F24-2250
	2	3.000	<b>14244</b>	21209-F2420	BACI12AE-F2420	3591-24CN-3000	209F24-3000
	2-1/2	3.750	<b>14245</b>	21209-F2425	BACI12AE-F2425	3591-24CN-3750	209F24-3750
	3	4.500	<b>14246</b>	21209-F2430	BACI12AE-F2430	3591-24CN-4500	209F24-4500



## Locking Type Metric

THREAD SIZE	LENGTH (IN DIA'S)	LENGTH	RECOIL STD PART NUMBER	RECOIL MA PART NUMBER	GERMAN STD DIN 8140	BRITISH STANDARD	SAE MA PART NUMBER (USA)	GERMAN AEROSPACE STD LN9499	HELICOIL® USA PART NUMBER	ARMSTRONG PART NUMBER	BOLLHOFF PART NUMBER	COILTHREAD® (KATO) PART NUMBER
M2.2 x 0.45	1	2.2	15012	15012MA3329 100	DIN 8140 BM 2.2x2.2 A2	BS7751	MA3329 100		4184 2.2CN 2.2			TLM 2.2 x 0.45 C 2.2
	1.5	3.3	15013	15013MA3329 150	DIN 8140 BM 2.2x3.3 A2	BS7751	MA3329 150		4184 2.2CN 3.3	S1022CN 3.3		TLM 2.2 x 0.45 C 3.3
	2	4.4	15014	15014MA3329 200	DIN 8140 BM 2.2x4.4 A2	BS7751	MA3329 200		4184 2.2CN 4.4	S1022CN 4.4		TLM 2.2 x 0.45 C 4.4
	2.5	5.5	15015	15015MA3329 250	DIN 8140 BM 2.2x5.5 A2	BS7751	MA3329 250		4184 2.2CN 5.5	S1022CN 5.5		TLM 2.2 x 0.45 C 5.5
	3	6.6	15016	15016MA3329 300	DIN 8140 BM 2.2x6.6 A2	BS7751	MA3329 300		4184 2.2CN 6.6	S1022CN 6.6		TLM 2.2 x 0.45 C 6.6
M2.5 x 0.45	1	2.5	15252	15252MA3329 101	DIN 8140 BM 2.5 x 2.0 A2	BS7751	MA3329 101	LN 9499 00 025	4184 2.5CN 2.5	S1025CN 2.5	4132 025 0025	TLM 2.5 x 0.45 C 2.5
	1.5	3.8	15253	15253MA3329 151	DIN 8140 BM 2.5 x 3.75 A2	BS7751	MA3329 151	LN 9499 00 037	4184 2.5CN 3.8	S1025CN 3.75	4132 025 0375	TLM 2.5 x 0.45 C 3.75
	2	5.0	15254	15254MA3329 201	DIN 8140 BM 2.5 x 5.0 A2	BS7751	MA3329 201	LN 9499 00 050	4184 2.5CN 5.0	S1025CN 5.0	4132 025 0005	TLM 2.5 x 0.45 C 5.0
	2.5	6.3	15255	15255MA3329 251	DIN 8140 BM 2.5 x 6.25 A2	BS7751	MA3329 251		4184 2.5CN 6.3	S1025CN 6.25	4132 025 0625	TLM 2.5 x 0.45 C 6.25
	3	7.5	15256	15256MA3329 301	DIN 8140 BM 2.5 x 7.5 A2	BS7751	MA3329 301		4184 2.5CN 7.5	S1025CN 7.5		TLM 2.5 x 0.45 C 7.5
M3 x 0.5	1	3.0	15032	15032MA3329 102	DIN 8140 BM 3.0 x 3.0 A2	BS7751	MA3329 102	LN 9499 01 030	4184 3CN 3.0	S103CNCN 3	4132 003 0003	TLM 3.0 x 0.5 C 3.0
		3.75									4132 003 0375	
	1.5	4.5	15033	15033MA3329 152	DIN 8140 BM 3.0 x 4.5 A2	BS7751	MA3329 152	LN 9499 01 045	4184 3CN 4.5	S103CN 4.5	4132 003 0045	TLM 3.0 x 0.5 C 4.5
	2	6.0	15034	15034MA3329 202	DIN 8140 BM 3.0 x 6.0 A2	BS7751	MA3329 202	LN 9499 01 060	4184 3CN 6.0	S103CN 6	4132 003 0006	TLM 3.0 x 0.5 C 6.0
	2.5	7.5	15035	15035MA3329 252	DIN 8140 BM 3.0 x 7.5 A2	BS7751	MA3329 252		4184 3CN 7.5	S103CN 7.5	4132 003 0075	TLM 3.0 x 0.5 C 7.5
M3.5 x 0.6	1	3.5	15352	15352MA3329 103	DIN8140 BM 3.5 x 3.5 A2	BS7751	MA3329 103		4184 3.5CN 3.5	S1035CN 3.5		TLM 3.5 x 0.6 C 3.5
	1.5	5.3	15353	15353MA3329 153	DIN8140 BM 3.5 x 5.25 A2	BS7751	MA3329 153		4184 3.5CN 5.3	S1035CN 5.25		TLM 3.5 x 0.6 C 5.25
	2	7.0	15354	15354MA3329 203	DIN8140 BM 3.5 x 7.0 A2	BS7751	MA3329 203		4184 3.5CN 7.0	S1035CN 7		TLM 3.5 x 0.6 C 7.0
	2.5	8.8	15355	15355MA3329 253	DIN8140 BM 3.5 x 8.75 A2	BS7751	MA3329 253		4184 3.5CN 8.8	S1035CN 8.75		TLM 3.5 x 0.6 C 8.75
	3	10.5	15356	15356MA3329 303	DIN8140 BM 3.5 x 10.5 A2	BS7751	MA3329 303		4184 3.5CN 10.5	S1035CN 10.5		TLM 3.5 x 0.6 C 10.5
M4 x 0.7	1	4.0	15042	15042MA3329 104	DIN 8140 BM 4.0 x 4.0 A2	BS7751	MA3329 104	LN 9499 02 040	4184 4CN 4.0	S104CN 4	4132 004 0004	TLM 4 x 0.7 C 4.0
		5.0									4132 004 0005	
	1.5	6.0	15043	15043MA3329 154	DIN 8140 BM 4.0 x 6.0 A2	BS7751	MA3329 154	LN 9499 02 060	4184 4CN 6.0	S104CN 6	4132 004 0006	TLM 4 x 0.7 C 6.0
	2	8.0	15044	15044MA3329 204	DIN 8140 BM 4.0 x 8.0 A2	BS7751	MA3329 204	LN 9499 02 080	4184 4CN 8.0	S104CN 8	4132 004 0008	TLM 4 x 0.7 C 8.0
	2.5	10.0	15045	15045MA3329 254	DIN 8140 BM 4.0 x 10.0 A2	BS7751	MA3329 254	LN 9499 02 100	4184 4CN 10.0	S104CN 10	4132 004 0010	TLM 4 x 0.7 C 10.0
M5 x 0.8	1	5.0	15052	15052MA3329 105	DIN 8140 BM 5.0 x 5.0 A2	BS7751	MA3329 105	LN 9499 02 120	4184 4CN 12.0	S104CN 12	4132 004 0012	TLM 4 x 0.7 C 12.0
		6.25						LN 9499 03 050	4184 5CN 5.0	S105CN 5	4132 005 0005	TLM 5.0 x 0.8 C 5.0
	1.5	7.5	15053	15053MA3329 155	DIN 8140 BM 5.0 x 7.5 A2	BS7751	MA3329 155	LN 9499 03 075	4184 5CN 7.5	S105CN 7.5	4132 005 0075	TLM 5.0 x 0.8 C 7.5
	2	10.0	15054	15054MA3329 205	DIN 8140 BM 5.0 x 10.0 A2	BS7751	MA3329 205	LN 9499 03 100	4184 5CN 10.0	S105CN 10	4132 005 0010	TLM 5.0 x 0.8 C 10.0
	2.5	12.5	15055	15055MA3329 255	DIN 8140 BM 5.0 x 12.5 A2	BS7751	MA3329 255	LN 9499 03 125	4184 5CN 12.5	S105CN 12.5	4132 005 0125	TLM 5.0 x 0.8 C 12.5
M6 x 1	1	6.0	15062	15062MA3329 106	DIN 8140 BM 6.0 x 6.0 A2	BS7751	MA3329 106	LN 9499 04 060	4184 6CN 6.0	S106CN 6	4132 006 0006	TLM 6.0 x 1.0 C 6.0
	1.5	9.0	15063	15063MA3329 156	DIN 8140 BM 6.0 x 9.0 A2	BS7751	MA3329 156	LN 9499 04 090	4184 6CN 9.0	S106CN 9	4132 006 0075	TLM 6.0 x 1.0 C 9.0
	2	12.0	15064	15064MA3329 206	DIN 8140 BM 6.0 x 12.0 A2	BS7751	MA3329 206	LN 9499 04 120	4184 6CN 12.0	S106CN 12	4132 006 0012	TLM 6.0 x 1.0 C 12.0
	2.5	15.0	15065	15065MA3329 256	DIN 8140 BM 6.0 x 15.0 A2	BS7751	MA3329 256	LN 9499 04 150	4184 6CN 15.0	S106CN 15	4132 006 0015	TLM 6.0 x 1.0 C 15.0
	3	18.0	15066	15066MA3329 306	DIN 8140 BM 6.0 x 18.0 A2	BS7751	MA3329 306	LN 9499 04 180	4184 6CN 18.0	S106CN 18	4132 006 0018	TLM 6.0 x 1.0 C 18.0
M7 x 1	1	7.0	15072	15072MA3329 107	DIN 8140 BM 7.0 x 7.0 A2	BS7751	MA3329 107	LN 9499 05 070	4184 7CN 7.0	S107CN 7	4132 007 0007	TLM 7.0 x 1.0 C 7.0
	1.5	10.5	15073	15073MA3329 157	DIN 8140 BM 7.0 x 10.5 A2	BS7751	MA3329 157	LN 9499 05 105	4184 7CN 0.5	S107CN 10.5	4132 007 0105	TLM 7.0 x 1.0 C 10.5
	2	14.0	15074	15074MA3329 207	DIN 8140 BM 7.0 x 14.0 A2	BS7751	MA3329 207	LN 9499 05 140	4184 7CN 14.0	S107CN 14	4132 007 0014	TLM 7.0 x 1.0 C 14.0
	2.5	17.5	15075	15075MA3329 257	DIN 8140 BM 7.0 x 17.5 A2	BS7751	MA3329 257		4184 7CN 17.5	S107CN 17.5		TLM 7.0 x 1.0 C 17.5
	3	21.0	15076	15076MA3329 307	DIN 8140 BM 7.0 x 21.0 A2	BS7751	MA3329 307		4184 7CN 21.0	S107CN 21		TLM 7.0 x 1.0 C 21.0
M8 x 1	1	8.0	17082	17082MA3329 108	DIN 8140 BM 8.0 x 1.0 x 8.0 A2	BS7751	MA3329 108	LN 9499 06 080	5255 8CN 8.0	S408CN 8	4132 008 3008	TLM 8.0 x 1.0 C 8.0
	1.5	12.0	17083	17083MA3329 158	DIN 8140 BM 8.0 x 1.0 x 12.0 A2	BS7751	MA3329 158	LN 9499 06 120	5255 8CN 12.0	S408CN 12	4132 008 3012	TLM 8.0 x 1.0 C 12.0
	2	16.0	17084	17084MA3329 208	DIN 8140 BM 8.0 x 1.0 x 16.0 A2	BS7751	MA3329 208	LN 9499 06 160	5255 8CN 16.0	S408CN 16	4132 008 3016	TLM 8.0 x 1.0 C 16.0
	2.5	20.0	17085	17085MA3329 258	DIN 8140 BM 8.0 x 1.0 x 20.0 A2	BS7751	MA3329 258		5255 8CN 20.0	S408CN 20	4132 008 3020	TLM 8.0 x 1.0 C 20.0
	3	24.0	17086	17086MA3329 308	DIN 8140 BM 8.0 x 1.0 x 24.0 A2	BS7751	MA3329 308		5255 8CN 24.0	S408CN 24		TLM 8.0 x 1.0 C 24.0
M8 x 1.25	1	8.0	15082	15082MA3329 109	DIN 8140 BM 8.0 x 8.0 A2	BS7751	MA3329 109	LN 9499 07 080	4184 8CN 8.0	S108CN 8	4132 008 0008	TLM 8.0 x 1.25 C 8.0
		10.0									4132 008 0010	
	1.5	12.0	15083	15083MA3329 159	DIN 8140 BM 8.0 x 12.0 A2	BS7751	MA3329 159	LN 9499 07 120	4184 8CN 12.0	S108CN 12	4132 008 0012	TLM 8.0 x 1.25 C 12.0
	2	16.0	15084	15084MA3329 209	DIN 8140 BM 8.0 x 16.0 A2	BS7751	MA3329 209	LN 9499 07 160	4184 8CN 16.0	S108CN 16	4132 008 0016	TLM 8.0 x 1.25 C 16.0
	2.5	20.0	15085	15085MA3329 259	DIN 8140 BM 8.0 x 20.0 A2	BS7751	MA3329 259	LN 9499 07 200	4184 8CN 20.0	S108CN 20	4132 008 0020	TLM 8.0 x 1.25 C 20.0
3	24.0	15086	15086MA3329 309	DIN 8140 BM 8.0 x 24.0 A2	BS7751	MA3329 309	LN 9499 07 240	4184 8CN 24.0	S108CN 24	4132 008 0024	TLM 8.0 x 1.25 C 24.0	



## Locking Type Metric (cont.)

THREAD SIZE	LENGTH (IN DIA'S)	LENGTH	RECOIL STD PART NUMBER	RECOIL MA PART NUMBER	GERMAN STD DIN 8140	BRITISH STANDARD	SAE MA PART NUMER (USA)	GERMAN AEROSPACE STD LN9499	HELICOIL® USA PART NUMBER	ARMSTRONG PART NUMBER	BOLLHOFF PART NUMBER	COILTHREAD® (KATO) PART NUMBER	
M10 x 1.25	1	10.0	17102	17102MA3329 110	DIN 8140 BM 10.0 x 1.25 x 10.0 A2	BS7751	MA3329 110	LN 9499 09 100	5649 10CN 10.0	S510CN 10		TLM 10.0 x 1.25 C 10.0	
	1.5	15.0	17103	17103MA3329 160	DIN 8140 BM 10.0 x 1.25 x 15.0 A2	BS7751	MA3329 160	LN 9499 09 150	5649 10CN 15.0	S510CN 15		TLM 10.0 x 1.25 C 15.0	
	2	20.0	17104	17104MA3329 210	DIN 8140 BM 10.0 x 1.25 x 20.0 A2	BS7751	MA3329 210	LN 9499 09 200	5649 10CN 20.0	S510CN 20		TLM 10.0 x 1.25 C 20.0	
	2.5	25.0	17105	17105MA332 260	DIN 8140 BM 10.0 x 1.25 x 25.0 A2	BS7751	332 260		5649 10CN 25.0	S510CN 25		TLM 10.0 x 1.25 C 25.0	
	3	30.0	17106	17106MA3329 310	DIN 8140 BM 10.0 x 1.25 x 30.0 A2	BS7751	MA3329 310		5649 10CN 30.0	S510CN 25		TLM 10.0 x 1.25 C 30.0	
M10 x 1.5	1	10.0	15102	1510MA3329 111	DIN 8140 BM 10.0 x 10.0 A2	BS7751	MA3329 111	LN 9499 10 100	4184 10CN 10.0	S110CN 10	4132 010 0010	TLM 10.0 x 1.5 C 10.0	
		12.5									4132 010 0125		
	1.5	15.0	15103	15103MA3329 161	DIN 8140 BM 10.0 x 15.0 A2	BS7751	MA3329 161	LN 9499 10 150	4184 10CN 15.0	S110CN 15	4132 010 0015	TLM 10.0 x 1.5 C 15.0	
	2	20.0	15104	15104MA3329 211	DIN 8140 BM 10.0 x 20.0 A2	BS7751	MA3329 211	LN 9499 10 200	4184 10CN 20.0	S110CN 20	4132 010 0020	TLM 10.0 x 1.5 C 20.0	
	2.5	25.0	15105	15105MA3329 261	DIN 8140 BM 10.0 x 25.0 A2	BS7751	MA3329 261	LN 9499 10 250	4184 10CN 25.0	S110CN 25	4132 010 0025	TLM 10.0 x 1.5 C 25.0	
M12 x 1.25	3	30.0	15106	15106MA3329 311	DIN 8140 BM 10.0 x 30.0 A2	BS7751	MA3329 311	LN 9499 10 300	4184 10CN 30.0	S110CN 30	4132 010 0030	TLM 10.0 x 1.5 C 30.0	
	1	12.0	18122	18122MA3329 112	DIN 8140 BM 12.0 x 1.25 x 12.0 A2	BS7751	MA3329 112	LN 9499 11 120	5649 12CN 12.0	S512CN 12		TLM 12.0 x 1.25 C 12.0	
	1.5	18.0	18123	18123MA3329 162	DIN 8140 BM 12.0 x 1.25 x 17.0 A2	BS7751	MA3329 162	LN 9499 11 180	5649 12CN 18.0	S512CN 18		TLM 12.0 x 1.25 C 18.0	
	2	24.0	18124	18124MA3329 212	DIN 8140 BM 12.0 x 1.25 x 24.0 A2	BS7751	MA3329 212	LN 9499 11 240	5649 12CN 24.0	S512CN 24		TLM 12.0 x 1.25 C 24.0	
	2.5	30.0	18125	18125MA3329 262	DIN 8140 BM 12.0 x 1.25 x 30.0 A2	BS7751	MA3329 262		5649 12CN 30.0	S512CN 30		TLM 12.0 x 1.25 C 30.0	
M12 x 1.5	3	36.0	18126	18126MA3329 312	DIN 8140 BM 12.0 x 1.25 x 36.0 A2	BS7751	MA3329 312		5649 12CN 36.0	S512CN 36		TLM 12.0 x 1.25 C 36.0	
	1	12.0	17122	17122MA3329 113	DIN 8140 BM 12.0 x 1.5 x 12.0 A2		MA3329 113	LN 9499 12 120	5145 12CN 12.0		4132 012 4012	TM 12.0 x 1.5 C 12.0	
	1.5	18.0	17123	17123MA3329 163	DIN 8140 BM 12.0 x 1.5 x 17.0 A2		MA3329 163	LN 9499 12 180	5145 12CN 18.0		4132 012 4018	TM 12.0 x 1.5 C 18.0	
	2	24.0	17124	17124MA3329 213	DIN 8140 BM 12.0 x 1.5 x 24.0 A2		MA3329 213	LN 9499 12 240	5145 12CN 24.0		4132 012 4024	TM 12.0 x 1.5 C 24.0	
	2.5	30.0	17125	17125MA3329 263	DIN 8140 BM 12.0 x 1.5 x 30.0 A2		MA3329 263	LN 9499 12 300	5145 12CN 30.0			TM 12.0 x 1.5 C 30.	
M12 x 1.75	3	36.0	17126	17126MA3329 313	DIN 8140 BM 12.0 x 1.5 x 36.0 A2		MA3329 313	LN 9499 12 360	5145 12CN 36.0			TM 12.0 x 1.5 C 36.0	
		9.0									4132 012 0009		
	1	12.0	15122	15122MA3329 114	DIN 8140 BM12.0 x 12.0 A2	BS7751	MA3329 114	LN 9499 13 120	4184 12CN 12.0	S112CN 12	4132 012 0012	TLM 12.0 x 1.75 C 12.0	
		15.0									4132 012 0015		
	1.5	18.0	15123	15123MA3329 164	DIN 8140 BM12.0 x 18.0 A2	BS7751	MA3329 164	LN 9499 13 180	4184 12CN 18.0	S112CN 18	4132 012 0018	TLM 12.0 x 1.75 C 18.0	
M14 x 1.5	2	24.0	15124	15124MA3329 214	DIN 8140 BM12.0 x 24.0 A2	BS7751	MA3329 214	LN 9499 13 240	4184 12CN 24.0	S112CN 24	4132 012 0024	TLM 12.0 x 1.75 C 24.0	
	2.5	30.0	15125	15125MA3329 264	DIN 8140 BM12.0 x 30.0 A2	BS7751	MA3329 264		4184 12CN 30.0	S112CN 30	4132 012 0030	TLM 12.0 x 1.75 C 30.0	
	3	36.0	15126	15126MA3329 314	DIN 8140 BM12.0 x 36.0 A2	BS7751	MA3329 314		4184 12CN 36.0	S112CN 36		TLM 12.0 x 1.75 C 36.0	
	1	14.0	17142	17142MA3329 115	DIN 8140 BM 14.0 x 1.5 x 14.0 A2	BS7751	MA3329 115	LN 9499 14 140	5145 14CN 14.0	S414CN 14	4132 014 4014	TLM 14.0 x 1.5 C 14.0	
	1.5	21.0	17143	17143MA3329 165	DIN 8140 BM 14.0 x 1.5 x 21.0 A2	BS7751	MA3329 165	LN 9499 14 210	5145 14CN 21.0	S414CN 21	4132 014 4021	TLM 14.0 x 1.5 C 21.0	
M14 x 2	2	28.0	17144	17144MA3329 215	DIN 8140 BM 14.0 x 1.5 x 28.0 A2	BS7751	MA3329 215	LN 9499 14 280	5145 14CN 28.0	S414CN 28	4132 014 4028	TLM 14.0 x 1.5 C 28.0	
	2.5	35.0	17145	17145MA3329 265	DIN 8140 BM 14.0 x 1.5 x 35.0 A2	BS7751	MA3329 265	LN 9499 14 350	5145 14CN 35.0	S414CN 35		TLM 14.0 x 1.5 C 35.0	
	3	42.0	17146	17146MA3329 315	DIN 8140 BM 14.0 x 1.5 x 42.0 A2	BS7751	MA3329 315	LN 9499 14 420	5145 14CN 42.0	S414CN 42		TLM 14.0 x 1.5 C 42.0	
	1	14.0	15142	15142MA3329 116	DIN 8140 BM 14.0 x 14.0 A2	BS7751	MA3329 116	LN 9499 15 140	4184 14CN 14.0	S114CN 14	4132 014 0014	TLM 14.0 x 2.0 C 14.0	
	1.5	21.0	15143	15143MA3329 166	DIN 8140 BM 14.0 x 21.0 A2	BS7751	MA3329 166	LN 9499 15 210	4184 14CN 21.0	S114CN 21	4132 014 0021	TLM 14.0 x 2.0 C 21.0	
M16 x 1.5	2	28.0	15144	15144MA3329 216	DIN 8140 BM 14.0 x 28.0 A2	BS7751	MA3329 216	LN 9499 15 280	4184 14CN 28.0	S114CN 28	4132 014 0028	TLM 14.0 x 2.0 C 28.0	
	2.5	35.0	15145	15145MA3329 266	DIN 8140 BM 14.0 x 35.0 A2	BS7751	MA3329 266		4184 14CN 35.0	S114CN 35		TLM 14.0 x 2.0 C 35.0	
	3	42.0	15146	15146MA3329 316	DIN 8140 BM 14.0 x 42.0 A2	BS7751	MA3329 316		4184 14CN 42.0	S114CN 42		TLM 14.0 x 2.0 C 42.0	
	1	16.0	17162	17162MA3329 117	DIN 8140 BM 16.0 x 1.5 x 16.0 A2	BS7751	MA3329 117	LN 9499 16 160	5145 16CN 16.0	S416CN 16	4132 016 4016	TLM 16.0 x 1.5 C 16.0	
	1.5	24.0	17163	17163MA3329 167	DIN 8140 BM 16.0 x 1.5 x 24.0 A2	BS7751	MA3329 167	LN 9499 16 240	5145 16CN 24.0	S416CN 24	4132 016 4024	TLM 16.0 x 1.5 C 24.0	
M16 x 2.0	2	32.0	17164	17164MA3329 217	DIN 8140 BM 16.0 x 1.5 x 32.0 A2	BS7751	MA3329 217	LN 9499 16 320	5145 16CN 32.0	S416CN 32	4132 016 4032	TLM 16.0 x 1.5 C 32.0	
	2.5	40.0	17165	17165MA3329 267	DIN 8140 BM 16.0 x 1.5 x 40.0 A2	BS7751	MA3329 267	LN 9499 16 400	5145 16CN 40.0	S416CN 40	4132 016 4040	TLM 16.0 x 1.5 C 40.0	
	3	48.0	17166	17166MA3329 317	DIN 8140 BM 16.0 x 1.5 x 48.0 A2	BS7751	MA3329 317	LN 9499 16 480	5145 16CN 48.0	S416CN 48		TLM 16.0 x 1.5 C 48.0	
		12.0										4132 016 0012	
	1	16.0	15162	15162MA3329 118	DIN 8140 BM 16.0 x 16.0 A2	BS7751	MA3329 118	LN 9499 17 160	4184 16CN 16	S116CN 16	4132 016 0016	TLM 16 x 2.0 C 14.0	
M16 x 2.0		20.0									4132 016 0020		
	1.5	24.0	15163	15163MA3329 168	DIN 8140 BM 16.0 x 24.0 A2	BS7751	MA3329 168	LN 9499 17 240	4184 16CN 24	S116CN 24	4132 016 0024	TLM 16 x 2.0 C 24.0	
	2	32.0	15164	15164MA3329 218	DIN 8140 BM 16.0 x 32.0 A2	BS7751	MA3329 218	LN 9499 17 320	4184 16CN 32	S116CN 32	4132 016 0032	TLM 16 x 2.0 C 32.0	
	2.5	40.0	15165	15165MA3329 268	DIN 8140 BM 16.0 x 40.0 A2	BS7751	MA3329 268		4184 16CN 40	S116CN 40	4132 016 0040	TLM 16 x 2.0 C 40.0	
	3	48.0			DIN 8140 BM 16.0 x 48.0 A2	BS7751	MA3329 318		4184 16CN 48	S116CN 48		TLM 16 x 2.0 C 48.0	



## Locking Type Metric (cont.)

THREAD SIZE	LENGTH (IN DIA'S)	LENGTH	RECOIL STD PART NUMBER	RECOIL MA PART NUMBER	GERMAN STD DIN 8140	BRITISH STANDARD	SAE MA PART NUMBER (USA)	GERMAN AEROSPACE STD LN9499	HELICOIL® USA PART NUMBER	ARMSTRONG PART NUMBER	BOLLHOFF PART NUMBER	COILTHREAD® (KATO) PART NUMBER
M18 x 1.5		9.0									4132 018 4009	
	1	18.0	18182	18182MA3329 119	DIN 8140 BM 18.0 x 1.5 x 18.0 A2	BS7751	MA3329 119	LN 9499 18.0 180	5145 18CN 18.0	S418CN 18	4132 018 4018	TLM 18.0 x 1.5 C 16.0
	1.5	27.0	18183	18183MA3329 169	DIN 8140 BM 18.0 x 1.5 x 27.0 A2	BS7751	MA3329 169	LN 9499 18.0 270	5145 18CN 27.0	S418CN 27	4132 018 4027	TLM 18.0 x 1.5 C 27.0
	2	36.0	18184	18184MA3329 219	DIN 8140 BM 18.0 x 1.5 x 36.0 A2	BS7751	MA3329 219	LN 9499 18.0 360	5145 18CN 36.0	S418CN 36		TLM 18.0 x 1.5 C 36.0
	2.5	45.0	18185	18185MA3329 269	DIN 8140 BM 18.0 x 1.5 x 45.0 A2	BS7751	MA3329 269	LN 9499 18.0 450	5145 18CN 45.0	S418CN 45		TLM 18.0 x 1.5 C 45.0
M18 x 2	3	54.0	18186	18186MA3329 319	DIN 8140 BM 18.0 x 1.5 x 54.0 A2	BS7751	MA3329 319	LN 9499 18.0 540	5145 18CN 54.0	S418CN 54		TLM 18.0 x 1.5 C 54.0
	1	18.0	17182	17182MA3329 120	DIN 8140 BM 18.0 x 2.0 x 18.0 A2		MA3329 120	LN 9499 19.0 180	5266 18CN 18.0	S218CN 18	4132 018 5018	TLM 18.0 x 2.0 C 18.0
	1.5	27.0	17183	17183MA3329 170	DIN 8140 BM 18.0 x 2.0 x 27.0 A2		MA3329 170	LN 9499 19.0 270	5145 18CN 27.0	S218CN 27		TLM 18.0 x 2.0 C 27.0
	2	36.0	17184	17184MA3329 220	DIN 8140 BM 18.0 x 2.0 x 36.0 A2		MA3329 220	LN 9499 19.0 360	5145 18CN 36.0	S218CN 36		TLM 18.0 x 2.0 C 36.0
	2.5	45.0	17185	17185MA3329 270	DIN 8140 BM 18.0 x 2.0 x 45.0 A2		MA3329 270		5145 18CN 45.0	S218CN 45		TLM 18.0 x 2.0 C 45.0
M18 x 2.5	3	54.0	17186	17186MA3329 320	DIN 8140 BM 18.0 x 2.0 x 54.0 A2		MA3329 320		5145 18CN 54.0	S218CN 54		TLM 18.0 x 2.0 C 54.0
	1	18.0	15182	15182MA3329 121	DIN 8140 BM 18.0 x 18.0 A2	BS7751	MA3329 121	LN 9499 20 180	4184 18CN 18.0	S118CN 18		TLM 18.0 x 2.5 C 18.0
	1.5	27.0	15183	15183MA3329 171	DIN 8140 BM 18.0 x 27.0 A2	BS7751	MA3329 171	LN 9499 20 270	4184 18CN 27.0	S118CN 27	4132 018 0027	TLM 18.0 x 2.5 C 27.0
	2	36.0	15184	15184MA3329 221	DIN 8140 BM 18.0 x 36.0 A2	BS7751	MA3329 221	LN 9499 20 360	4184 18CN 36.0	S118CN 36	4132 018 0036	TLM 18.0 x 2.5 C 36.0
	2.5	45.0	15185	15185MA3329 271	DIN 8140 BM 18.0 x 45.0 A2	BS7751	MA3329 271	LN 9499 20 450	4184 18CN 45.0	S118CN 45		TLM 18.0 x 2.5 C 45.0
M20 x 1.5	3	54.0	15186	15186MA3329 321	DIN 8140 BM 18.0 x 54.0 A2	BS7751	MA3329 321	LN 9499 20 540	4184 18CN 54.0	S118CN 54		TLM 18.0 x 2.5 C 54.0
		10.0									4132 020 4010	
		15.0									4132 020 4015	
	1	20.0	18202	18202MA3329 122	DIN 8140 BM 20.0 x 1.5 x 20.0 A2	BS7751	MA3329 122	LN 9499 21 200	5145 20CN 20.0	S420CN 20	4132 020 4020	TLM 20.0 x 1.5 C 20.0
	1.5	30.0	18203	18203MA3329 172	DIN 8140 BM 20.0 x 1.5 x 30.0 A2	BS7751	MA3329 172	LN 9499 21 300	5145 20CN 30.0	S410CN 30	4132 020 4030	TLM 20.0 x 1.5 C 30.0
	2	40.0	18204	18204MA3329 222	DIN 8140 BM 20.0 x 1.5 x 40.0 A2	BS7751	MA3329 222	LN 9499 21 400	5145 20CN 40.0	S410CN 40	4132 020 4040	TLM 20.0 x 1.5 C 40.0
	2.5	50.0	18205	18205MA3329 272	DIN 8140 BM 20.0 x 1.5 x 50.0 A2	BS7751	MA3329 272		5145 20CN 50.0	S410CN 50		TLM 20.0 x 1.5 C 50.0
M20 x 2	3	60.0	18206	18206MA3329 322	DIN 8140 BM 20.0 x 1.5 x 60.0 A2	BS7751	MA3329 322		5145 20CN 60.0	S410CN 60		TLM 20.0 x 1.5 C 60.0
	1	20.0	17202	17202MA3329 123	DIN 8140 BM 20.0 x 2.0 x 20.0 A2		MA3329 123	LN 9499 22 200	5145 20CN 20.0	S220CN 20	4132 020 5020	TLM 20.0 x 2.0 C 20.0
	1.5	30.0	17203	17203MA3329 173	DIN 8140 BM 20.0 x 2.0 x 30.0 A2		MA3329 173	LN 9499 22 300	30	S220CN 30	4132 020 5030	TLM 20.0 x 2.0 C 30.0
	2	40.0	17204	17204MA3329 223	DIN 8140 BM 20.0 x 2.0 x 40.0 A2		MA3329 223	LN 9499 22 400	40	S220CN 40	4132 020 5040	TLM 20.0 x 2.0 C 40.0
	2.5	50.0	17205	17205MA3329 273	DIN 8140 BM 20.0 x 2.0 x 50.0 A2		MA3329 273		50	S220CN 50		TLM 20.0 x 2.0 C 50.0
M20 x 2.5	3	60.0	17206	17206MA3329 323	DIN 8140 BM 20.0 x 2.0 x 60.0 A2		MA3329 323		60	S220CN 60		TLM 20.0 x 2.0 C 60.0
	1	20.0	15202	15202MA3329 124	DIN 8140 BM 20.0 x 20.0 A2	BS7751	MA3329 124	LN 9499 23 200	4184 20CN 20.0	S120CN 20	4132 020 0020	TLM 20.0 x 2.5 C 20.0
		0.25									4132 020 0025	
	1.5	30.0	15203	15203MA3329 174	DIN 8140 BM 20.0 x 30.0 A2	BS7751	MA3329 174	LN 9499 23 300	4184 20CN 30.0	S120CN 30	4132 020 0030	TLM 20.0 x 2.5 C 30.0
	2	40.0	15204	15204MA3329 224	DIN 8140 BM 20.0 x 40.0 A2	BS7751	MA3329 224	LN 9499 23 400	4184 20CN 40.0	S120CN 40	4132 020 0040	TLM 20.0 x 2.5 C 40.0
	2.5	50.0	15205	15205MA3329 274	DIN 8140 BM 20.0 x 50.0 A2	BS7751	MA3329 274		4184 20CN 50.0	S120CN 50		TLM 20.0 x 2.5 C 50.0
M22 x 1.5	3	60.0	15206	15206MA3329 324	DIN 8140 BM 20.0 x 60.0 A2	BS7751	MA3329 324		4184 20CN 60.0	S120CN 60		TLM 20.0 x 2.5 C 60.0
		11.0									4132 022 4011	
	1	22.0	18222	18222MA3329 125	DIN 8140 BM 22.0 x 1.5 x 22.0 A2	BS7751	MA3329 125		5145 22CN 22.0	S422CN 22	4132 022 4022	TLM 22.0 x 1.5 C 22.0
	1.5	33.0	18223	18223MA3329 175	DIN 8140 BM 22.0 x 1.5 x 33.0 A2	BS7751	MA3329 175		5145 22CN 33.0	S422CN 33		TLM 22.0 x 1.5 C 33.0
	2	44.0	18224	18224MA3329 225	DIN 8140 BM 22.0 x 1.5 x 44.0 A2	BS7751	MA3329 225		5145 22CN 44.0	S422CN 44		TLM 22.0 x 1.5 C 44.0
	2.5	55.0	18225	18225MA3329 275	DIN 8140 BM 22.0 x 1.5 x 55.0 A2	BS7751	MA3329 275		5145 22CN 55.0	S442CN 55		TLM 22.0 x 1.5 C 55.0
M22 x 2	3	66.0	18226	18226MA3329 325	DIN 8140 BM 22.0 x 1.5 x 66.0 A2	BS7751	MA3329 325		5145 22CN 66.0	S422CN 66		TLM 22.0 x 1.5 C 66.0
	1	22.0	17222	17222MA3329 126	DIN 8140 BM 22.0 x 2.0 x 22.0 A2		MA3329 126		5266 22CN 22.0	S222CN 22		TLM 22.0 x 2.0 C 22.0
	1.5	33.0	17223	17223MA3329 176	DIN 8140 BM 22.0 x 2.0 x 33.0 A2		MA3329 176		5266 22CN 33.0	S222CN 33		TLM 22.0 x 2.0 C 33.0
	2	44.0	17224	17224MA3329 226	DIN 8140 BM 22.0 x 2.0 x 44.0 A2		MA3329 226		5266 22CN 44.0	S222CN 44		TLM 22.0 x 2.0 C 44.0
	2.5	55.0	17225	17225MA3329 276	DIN 8140 BM 22.0 x 2.0 x 55.0 A2		MA3329 276		5266 22CN 55.0	S222CN 55		TLM 22.0 x 2.0 C 55.0
M22 x 2.5	3	66.0	17226	17226MA3329 326	DIN 8140 BM 22.0 x 2.0 x 66.0 A2		MA3329 326		5266 22CN 66.0	S222CN 66		TLM 22.0 x 2.0 C 66.0
	1	22.0	15222	15222MA3329 127	DIN 8140 BM 22.0 x 22.0 A2	BS7751	MA3329 127		4184 22CN 22.0	S122CN 22	4132 022 0022	TLM 22.0 x 2.5 C 22.0
	1.5	33.0	15223	15223MA3329 177	DIN 8140 BM 22.0 x 33.0 A2	BS7751	MA3329 177		4184 22CN 33.0	S122CN 33		TLM 22.0 x 2.5 C 33.0
	2	44.0	15224	15224MA3329 227	DIN 8140 BM 22.0 x 44.0 A2	BS7751	MA3329 227		4184 22CN 44.0	S122CN 44		TLM 22.0 x 2.5 C 44.0
	2.5	55.0	15225	15225MA3329 277	DIN 8140 BM 22.0 x 55.0 A2	BS7751	MA3329 277		4184 22CN 55.0	S122CN 55		TLM 22.0 x 2.5 C 55.0
	66.0	15226	15226MA3329 327	DIN 8140 BM 22.0 x 66.0 A2	BS7751	MA3329 327		4184 22CN 66.0	S122CN 66		TLM 22.0 x 2.5 C 66.0	



## Locking Type Metric (cont.)

THREAD SIZE	LENGTH (IN DIA'S)	LENGTH	RECOIL STD PART NUMBER	RECOIL MA PART NUMBER	GERMAN STD DIN 8140	BRITISH STANDARD	SAE MA PART NUMER (USA)	GERMAN AEROSPACE STD LN9499	HELICOIL® USA PART NUMBER	ARMSTRONG PART NUMBER	BOLLHOFF PART NUMBER	COILTHREAD® (KATO) PART NUMBER
M24 x 2.0	1	24.0	17242	17242MA3329 128	DIN 8140 BM 24.0 x 2.0 x 24.0 A2	BS7751	MA3329 128		5266 24CN 24.0	S224CN 24	4132 024 5024	TLM 24.0 x 2 C 24.0
	1.5	36.0	17243	17243MA3329 178	DIN 8140 BM 24.0 x 2.0 x 36.0 A2	BS7751	MA3329 178		5266 24CN 36.0	S224CN 36	4132 024 5036	TLM 24.0 x 2 C 36.0
	2	48.0	17244	17244MA3329 228	DIN 8140 BM 24.0 x 2.0 x 48.0 A2	BS7751	MA3329 228		5266 24CN 48.0	S224CN 48		TLM 24.0 x 2 C 48.0
	2.5	60.0	17245	17245MA3329 278	DIN 8140 BM 24.0 x 2.0 x 60.0 A2	BS7751	MA3329 278		5266 24CN 60.0	S224CN 60		TLM 24.0 x 2 C 60.0
	3	72.0	17246	17246MA3329 328	DIN 8140 BM 24.0 x 2.0 x 72.0 A2	BS7751	MA3329 328		5266 24CN 72.0	S224CN 72		TLM 24.0 x 2 C 72.0
M24 x 3.0	1	24.0	15242	15242MA3329 129	DIN 8140 BM 24.0 x 24.0 A2	BS7751	MA3329 129		4184 24CN 24.0	S124CN 24	4132 024 0024	TLM 24.0 x 3 C 24.0
	1.5	36.0	15243	15243MA3329 179	DIN 8140 BM 24.0 x 36.0 A2	BS7751	MA3329 179		4184 24CN 36.0	S124CN 36	4132 024 0036	TLM 24.0 x 3 C 36.0
	2	48.0	15244	15244MA3329 229	DIN 8140 BM 24.0 x 48.0 A2	BS7751	MA3329 229		4184 24CN 48.0	S124CN 48	4132 024 0048	TLM 24.0 x 3 C 48.0
	2.5	60.0	15245	15245MA3329 279	DIN 8140 BM 24.0 x 60.0 A2	BS7751	MA3329 279		4184 24CN 60.0	S124CN 60		TLM 24.0 x 3 C 60.0
	3	72.0	15246	15246MA3329 329	DIN 8140 BM 24.0 x 72.0 A2	BS7751	MA3329 329		4184 24CN 72.0	S124CN 72		TLM 24.0 x 3 C 72.0
M27 x 2.0	1	39.0	17272	17272MA3329 130	DIN 8140 BM 27.0 x 3.0 x 27.0 A2		MA3329 130			S139CN 39		TLM 27.0 x 2 C 27.0
	1.5	58.5	17273	17273MA3329 180	DIN 8140 BM 27.0 x 3.0 x 40.5 A2		MA3329 180			S139CN 58.5		TLM 27.0 x 2 C 40.5
	2	78.0	17274	17274MA3329 230	DIN 8140 BM 27.0 x 3.0 x 54.0 A2		MA3329 230			S139CN 78		TLM 27.0 x 2 C 54.0
	2.5		17275	17275MA3329 280	DIN 8140 BM 27.0 x 3.0 x 67.5 A2		MA3329 280					TLM 27.0 x 2 C 67.5
	3		17276	17276MA3329 330	DIN 8140 BM 27.0 x 3.0 x 81.0 A2		MA3329 330					TLM 27.0 x 2 C 81.0
M27 x 3.0	1	27	15272	15272MA3329 131	DIN 8140 BM 27.0 x 27.0 A2		MA3329 131			S127CN 27		TLM 27.0 x 3.0 C 27.0
	1.5	40.5	15273	15273MA3329 181	DIN 8140 BM 27.0 x 40.5 A2		MA3329 181			S127CN 40.5		TLM 27.0 x 3.0 C 40.5
	2	54	15274	15274MA3329 231	DIN 8140 BM 27.0 x 57.0 A2		MA3329 231			S127CN 54		TLM 27.0 x 3.0 C 57.0
	2.5	67.5	15275	15275MA3329 281	DIN 8140 BM 27.0 x 67.5 A2		MA3329 281			S127CN 67.5		TLM 27.0 x 3.0 C 67.5
M30 x 2.0	1	30.0	17302	17302MA3329 132	DIN 8140 BM 30.0 x 2.0 x 30.0 A2		MA3329 132					TLM 30.0 x 2.0 C 30.0
	1.5	45.0	17303	17303MA3329 182	DIN 8140 BM 30.0 x 2.0 x 45.0 A2		MA3329 182					TLM 30.0 x 2.0 C 45.0
	2	60.0	17304	17304MA3329 232	DIN 8140 BM 30.0 x 2.0 x 60.0 A2		MA3329 232					TLM 30.0 x 2.0 C 60.0
	2.5	75.0	17305	17305MA3329 282	DIN 8140 BM 30.0 x 2.0 x 75.0 A2		MA3329 282					TLM 30.0 x 2.0 C 75.0
	3		17306	17306MA3329 332	DIN 8140 BM 30.0 x 2.0 x 90.0 A2		MA3329 332					TLM 30.0 x 2.0 C 90.0
M30 x 3.0	1	30.0	15302 3	15302 3MA3329 133	DIN 8140 BM 30.0 x 30.0 A2		MA3329 133			S130CN 30		TLM 30.0 x C 30.0
	1.5	45.0	15303 3	15303 3MA3329 183	DIN 8140 BM 30.0 x 45.0 A2		MA3329 183			S130CN 45		TLM 30.0 x C 45.0
	2	60.0	15304 3	15304 3MA3329 233	DIN 8140 BM 30.0 x 60.0 A2		MA3329 233			S130CN 60		TLM 30.0 x C 60.0
	2.5	75.0	15305 3	15305 3MA3329 283	DIN 8140 BM 30.0 x 75.0 A2		MA3329 283			S130CN 75		TLM 30.0 x C 75.0
	3		15306 3	15306 3MA3329 333	DIN 8140 BM 30.0 x 90.0 A2		MA3329 333					TLM 30.0 x C 90.0
M30 x 3.5	1	30.0	15302							S130CN 30		
	1.5	45.0	15303							S130CN 45		
	2	60.0	15304							S130CN 60		
	2.5	75.0	15305							S130CN 75		
	3	90	15306									
M33 x 2.0	1	33.0	17332	17332MA3329 134	DIN 8140 BM 33.0 x 2.0 x 33.0 A2		MA3329 134					TLM 33.0 x 2 C 33.0
	1.5	49.5	17333	17333MA3329 184	DIN 8140 BM 33.0 x 2.0 x 49.5 A2		MA3329 184					TLM 33.0 x 2 C 49.5
	2	66.0	17334	17334MA3329 234	DIN 8140 BM 33.0 x 2.0 x 66.0 A2		MA3329 234					TLM 33.0 x 2 C 66.0
	2.5	82.5	17335	17335MA3329 284	DIN 8140 BM 33.0 x 2.0 x 82.5 A2		MA3329 284					TLM 33.0 x 2 C 82.5
	3	99	17336	17336MA3329 334	DIN 8140 BM 33.0 x 2.0 x 99.0 A2		MA3329 334					TLM 33.0 x 2 C 99.0
M33 x 3.0	1	33.0	17332 3	17332 3MA3329 135	DIN 8140 BM 33.0 x 33.0 A2		MA3329 135			S133CN 33		TLM 33.0 x 3 C 33.0
	1.5	49.5	17333 3	17333 3MA3329 185	DIN 8140 BM 33.0 x 49.5 A2		MA3329 185			S133CN 49.5		TLM 33.0 x 3 C 49.5
	2	66.0	17334 3	17334 3MA3329 235	DIN 8140 BM 33.0 x 66.0 A2		MA3329 235			S133CN 66		TLM 33.0 x 3 C 66.0
	2.5	82.5	17335 3	17335 3MA3329 285	DIN 8140 BM 33.0 x 82.5 A2		MA3329 285					TLM 33.0 x 3 C 82.5
	3	99	17336 3	17336 3MA3329 335	DIN 8140 BM 33.0 x 99.0 A2		MA3329 335					TLM 33.0 x 3 C 99.0



## Locking Type Metric (cont.)

THREAD SIZE	LENGTH (IN DIA'S)	LENGTH	RECOIL STD PART NUMBER	RECOIL MA PART NUMBER	GERMAN STD DIN 8140	BRITISH STANDARD	SAE MA PART NUMER (USA)	GERMAN AEROSPACE STD LN9499	HELICOIL® USA PART NUMBER	ARMSTRONG PART NUMBER	BOLLHOFF PART NUMBER	COILTHREAD® (KATO) PART NUMBER
M36 x 2.0	1	36.0	17362 2	17362 2MA3329 136	DIN 8140 BM 36.0 x 2 x 36.0 A2		MA3329 136			S136CN 36		TLM 36.0 x 2 C 36.0
	1.5	54.0	17363 2	17363 2MA3329 186	DIN 8140 BM 36.0 x 2 x 56.0 A2		MA3329 186			S136CN 54		TLM 36.0 x 2 C 56.0
	2	72.0	17364 2	17364 2MA3329 236	DIN 8140 BM 36.0 x 2 x 72.0 A2		MA3329 236			S136CN 72		TLM 36.0 x 2 C 72.0
	2.5	90	17365 2	17365 2MA3329 286	DIN 8140 BM 36.0 x 2 x 90.0 A2		MA3329 286					TLM 36.0 x 2 C 90.0
	3	108	17366 2	17366 2MA3329 336	DIN 8140 BM 36.0 x 2 x 108.0 A2		MA3329 336					TLM 36.0 x 2 C 108.0
M36 x 3.0	1	36.0	17362	17362MA3329 137	DIN 8140 BM 36.0 x 36.0 A2		MA3329 137			S136CN 36		TLM 36.0 3.0 C 37.0
	1.5	54.0	17363	17363MA3329 187	DIN 8140 BM 36.0 x 54.0 A2		MA3329 187			S136CN 54		TLM 36.0 3.0 C 54.0
	2	72.0	17364	17364MA3329 237	DIN 8140 BM 36.0 x 72.0 A2		MA3329 237			S136CN 72		TLM 36.0 3.0 C 72.0
	2.5	90	17365	17365MA3329 287	DIN 8140 BM 36.0 x 90.0 A2		MA3329 287					TLM 36.0 3.0 C 90.0
	3	108	17366	17366MA3329 337	DIN 8140 BM 36.0 x 108.0 A2		MA3329 337					TLM 36.0 3.0 C 108.0
M36 x 4.0	1	36.0	15362							S136CN 36		
	1.5	54.0	15363							S136CN 54		
	2	72.0	15364							S136CN 72		
	2.5	90	15365									
	3	108	15366									
M39 x 2.0	1	39.0			DIN 8140 BM 39.0 x 2.0 x 39.0 A2		MA3329 138			S139CN 39		TLM 39.0 x 2.0 C 39.0
	1.5	58.5			DIN 8140 BM 39.0 x 2.0 x 58.5 A2		MA3329 188			S139CN 58.5		TLM 39.0 x 2.0 C 58.5
	2	78.0			DIN 8140 BM 39.0 x 2.0 x 78.0 A2		MA3329 238			S139CN 78		TLM 39.0 x 2.0 C 78.0
	2.5	97.5			DIN 8140 BM 39.0 x 2.0 x 97.5 A2		MA3329 288					TLM 39.0 x 2.0 C 97.5
	3	117			DIN 8140 BM 39.0 x 2.0 x 117.0 A2		MA3329 338					TLM 39.0 x 2.0 C 117.0
M39 x 3.0	1	39.0	17392	17392MA3329 139	DIN 8140 BM 39.0 x 39.0 A2		MA3329 139			S139CN 39		TLM 39.0 x 3 C 39.0
	1.5	58.5	17393	17393MA3329 189	DIN 8140 BM 39.0 x 58.5 A2		MA3329 189			S139CN 58.5		TLM 39.0 x 3 C 58.5
	2	78.0	17394	17394MA3329 239	DIN 8140 BM 39.0 x 78.0 A2		MA3329 239			S139CN 78		TLM 39.0 x 3 C 78.0
	2.5	97.5		17395MA3329 289	DIN 8140 BM 39.0 x 97.5 A2		MA3329 289					TLM 39.0 x 3 C 97.5
	3	117		17396MA3329 339	DIN 8140 BM 39.0 x 117.0 A2		MA3329 339					TLM 39.0 x 3 C 117.0
M39 x 4.0	1	39.0	15392	15392MA						S139CN 39		
	1.5	58.5	15393	15393MA						S139CN 58.5		
	2	78.0	15394	15394MA						S139CN 78		
	2.5	97.5										
	3	117										





## Free Running Metric

THREAD SIZE	LENGTH (IN DIA'S)	LENGTH	RECOIL STD PART NUMBER	RECOIL SPECIAL PART NUMBER	BRITISH STANDARD	GERMAN STD DIN 8140	SAE MA PART NUMER (USA)	GERMAN AEROSPACE STD LN9039	HELICOIL® USA PART NUMBER	ARMSTRONG PART NUMBER	BOLLHOFF (HELICOIL PLUS) PART NUMBER	COILTHREAD® (KATO) PART NUMBER
M2 x 0.4	1	2	05022	05022DIN	BS7752	-	MA3279-140	-	-	F102CN-2	4130 002 0002	-
	1.5	3	05023	05023DIN	BS7752	-	MA3279-190	-	-	F102CN-3	4130 002 0003	-
	2	4	05024	05024DIN	BS7752	-	MA3279-240	-	-	F102CN-4	4130 002 0004	-
	2.5	5	05025	05025DIN	BS7752	-	MA3279-290	-	-	F102CN-5	4130 002 0005	-
	3	6	05026	05026DIN	BS7752	-	MA3279-340	-	-	F102CN-6	4130 002 0006	-
M2.2 x 0.45	1	2.2	05012			DIN 8140 - AM 2.2 x 3.3 A2	MA3279-100	-	1084-2.2CN-2.2	F1022CN-2.2	-	TNM 2.2 x 0.45 C 2.2
	1.5	3.3	05013			DIN 8140 - AM 2.2 x 2.3 A2	MA3279-150	-	1084-2.2CN-3.3	F1022CN-3.3	-	TNM 2.2 x 0.45 C 3.3
	2	4.4	05014			DIN 8140 - AM 2.2 x 4.4 A2	MA3279-200	-	1084-2.2CN-4.4	F1022CN-4.4	-	TNM 2.2 x 0.45 C 4.4
	2.5	5.5	05015			DIN 8140 - AM 2.2 x 5.5 A2	MA3279-250	-	1084-2.2CN-5.5	F1022CN-5.5	-	TNM 2.2 x 0.45 C 5.5
	3	6.6	05016			DIN 8140 - AM 2.2 x 6.6 A2	MA3279-300	-	1084-2.2CN-6.6	F1022CN-6.6	-	TNM 2.2 x 0.45 C 6.6
M2.5 x 0.45	1	2.5	05252	05252MA3279-101	BS7752	DIN 8140 - AM 2.5 x 2.0 A2	MA3279-101	LN 9039 - 00 -025	1084-2.5CN-2.5	F1025CN-2.5	4130 025 0025	TNM 2.5 x 0.45 C 2.5
	1.5	3.8	05253	05253MA3279-151	BS7752	DIN 8140 - AM 2.5 x 3.75 A2	MA3279-151	LN 9039 - 00 -037	1084-2.5CN-3.8	F1025CN-3.75	4130 025 0375	TNM 2.5 x 0.45 C 3.75
	2	5.0	05254	05254MA3279-201	BS7752	DIN 8140 - AM 2.5 x 5.0 A2	MA3279-201	LN 9039 - 00 -050	1084-2.5CN-5.0	F1025CN-5	4130 025 0005	TNM 2.5 x 0.45 C 5.0
	2.5	6.3	05255	05255MA3279-251	BS7752	DIN 8140 - AM 2.5 x 6.25 A2	MA3279-251	-	1084-2.5CN-6.3	F1025CN-6.25	4130 025 0625	TNM 2.5 x 0.45 C 6.25
	3	7.5	05256	05256MA3279-301	BS7752	DIN 8140 - AM 2.5 x 7.5 A2	MA3279-301	-	1084-2.5CN-7.5	F1025CN-7.5	4130 025 0075	TNM 2.5 x 0.45 C 7.5
M3 x 0.5	1	3.0	05032	05032MA3279-102	BS7752	DIN 8140 - AM 3.0 x 3.0 A2	MA3279-102	LN 9039 - 01 -030	1084-3CN-3.0	F103CN-3	4130 003 0003	TNM 3.0 x 0.5 C 3.0
	1.5	4.5	05033	05033MA3279-152	BS7752	DIN 8140 - AM 3.0 x 4.5 A2	MA3279-152	LN 9039 - 01 -045	1084-3CN-4.5	F103CN-4.5	4130 003 0045	TNM 3.0 x 0.5 C 4.5
	2	6.0	05034	05034MA3279-202	BS7752	DIN 8140 - AM 3.0 x 6.0 A2	MA3279-202	LN 9039 - 01 -060	1084-3CN-6.0	F103CN-6	4130 003 0006	TNM 3.0 x 0.5 C 6.0
	2.5	7.5	05035	05035MA3279-252	BS7752	DIN 8140 - AM 3.0 x 7.5 A2	MA3279-252	-	1084-3CN-7.5	F103CN-7.5	4130 003 0075	TNM 3.0 x 0.5 C 7.5
	3	9.0	05036	05036MA3279-302	BS7752	DIN 8140 - AM 3.0 x 9.0 A2	MA3279-302	-	1084-3CN-9.0	F103CN-9	4130 003 0009	TNM 3.0 x 0.5 C 9.0
M3.5 x 0.6	1	3.5	05352	05352MA3279-103	BS7752	DIN 8140 - AM 3.5 x 3.5 A2	MA3279-103	-	1084-3.5CN-3.5	F1035CN-3.5	4130 035 0035	TNM 3.5 x 0.6 C 3.5
	1.5	5.3	05353	05353MA3279-153	BS7752	DIN 8140 - AM 3.5 x 5.25 A2	MA3279-153	-	1084-3.5CN-5.3	F1035CN-5.25	4130 035 0053	TNM 3.5 x 0.6 C 5.25
	2	7.0	05354	05354MA3279-203	BS7752	DIN 8140 - AM 3.5 x 7.0 A2	MA3279-203	-	1084-3.5CN-7.0	F1035CN-7	4130 035 0007	TNM 3.5 x 0.6 C 7.0
	2.5	8.8	05355	05355MA3279-253	BS7752	DIN 8140 - AM 3.5 x 8.75 A2	MA3279-253	-	1084-3.5CN-8.8	F1035CN-8.75	4130 035 0105	TNM 3.5 x 0.6 C 8.75
	3	10.5	05356	05356MA3279-303	BS7752	DIN 8140 - AM 3.5 x 10.5 A2	MA3279-303	-	1084-3.5CN-10.5	F1035CN-10.5	4130 035 0003	TNM 3.5 x 0.6 C 10.5
M4 x 0.7	-	3.0	-	-		-		-	-		4130 004 0003	-
	1	4.0	05042	05042MA3279-104	BS7752	DIN 8140 - AM 4.0 x 4.0 A2	MA3279-104	LN 9039 - 02 -040	1084-4CN-4.0	F104CN-4	4130 004 0004	TNM 4.0 x 0.7 C 4.0
	-	5.0	-	-		-		-	-		4130 004 0005	-
	1.5	6.0	05043	05043MA3279-154	BS7752	DIN 8140 - AM 4.0 x 6.0 A2	MA3279-154	LN 9039 - 02 -060	1084-4CN-6.0	F104CN-6	4130 004 0006	TNM 4.0 x 0.7 C 6.0
	2	8.0	05044	05044MA3279-204	BS7752	DIN 8140 - AM 4.0 x 8.0 A2	MA3279-204	LN 9039 - 02 -080	1084-4CN-8.0	F104CN-8	4130 004 0008	TNM 4.0 x 0.7 C 8.0
	2.5	10.0	05045	05045MA3279-254	BS7752	DIN 8140 - AM 4.0 x 10.0 A2	MA3279-254	-	1084-4CN-10.0	F104CN-10	4130 004 0010	TNM 4.0 x 0.7 C 10.0
M5 x 0.8	3	12.0	05046	05046MA3279-304	BS7752	DIN 8140 - AM 4.0 x 12.0 A2	MA3279-304	-	1084-4CN-12.0	F104CN-12	4130 004 0012	TNM 4.0 x 0.7 C 12.0
	1	5.0	05052	05052MA3279-105	BS7752	DIN 8140 - AM 5.0 x 5.0 A2	MA3279-105	LN 9039 - 03 -050	1084-5CN-5.0	F105CN-5	4130 005 0005	TNM 5.0 x 0.8 C 5
	-	6.25	-	-		-		-	-		4130 005 0625	-
	1.5	7.5	05053	05053MA3279-155	BS7752	DIN 8140 - AM 5.0 x 7.5 A2	MA3279-155	LN 9039 - 03 -075	1084-5CN-7.5	F105CN-7.5	4130 005 0075	TNM 5.0 x 0.8 C 7.5
	2	10.0	05054	05054MA3279-205	BS7752	DIN 8140 - AM 5.0 x 8.0 A2	MA3279-205	LN 9039 - 03 -100	1084-5CN-10.0	F105CN-10	4130 005 0010	TNM 5.0 x 0.8 C 8.0
	2.5	12.5	05055	05055MA3279-255	BS7752	DIN 8140 - AM 5.0 x 12.5 A2	MA3279-255	-	1084-5CN-12.5	F105CN-12.5	4130 00 50125	TNM 5.0 x 0.8 C 12.5
M6 x 1	3	15.0	05056	05056MA3279-305	BS7752	DIN 8140 - AM 5.0 x 15.0 A2	MA3279-305	-	1084-5CN-15.0	F105CN-15	4130 005 0015	TNM 5.0 x 0.8 C 15.0
	-	3.0	-	-		-		-	-		4130 006 0003	-
	-	5.4	-	-		-		-	-		-	-
	1	6.0	05062	05062MA3279-106	BS7752	DIN 8141 - AM 7.0 x 7.0 A2	MA3279-106	LN 9039 - 04 070	1084-6CN-6.0	F106CN-6	4130 006 0006	TNM 6.0 x 1 C 6.0
	-	7.5	-	-		-		-	-		-	-
	-	8.0	-	-		-		-	-		-	-
	1.5	9.0	05063	05063MA3279-156	BS7752	DIN 8140 - A M 6.0 x 9.0 A2	MA3279-156	LN 9039 - 04 090	1084-6CN-9.0	F106CN-9	4130 006 0009	TNM 6.0 x 1 C 9.0
	-	10.0	-	-		-		-	-		-	-
	2	12.0	05064	05064MA3279-206	BS7752	DIN 8140 - AM 6.0 x 12 A2	MA3279-206	LN 9039 - 04 120	1084-6CN-12.0	F106CN-12	4130 006 0012	TNM 6.0 x 1 C 12.0
M7 x 1	2.5	15.0	05065	05065MA3279-256	BS7752	DI 8140 - AM 6.0 x 15.0 A2	MA3279-256	-	1084-6CN-15.0	F106CN-15	4130 006 0015	TNM 6.0 x A C 15.0
	3	18.0	05066	05066MA3279-306	BS7752	DIN 8140 - AM 6.0 x 18.0 A2	MA3279-306	-	1084-6CN-18.0	F106CN-18	4130 006 0018	TNM 6.0 x 1 C 18.0
	1	7.0	05072	05072MA3279-107	BS7752	DIN 8140 - AM 7.0 x 7.0 A2	MA3279-107	LN 9039 - 05 070	1084-7CN-7.0	F107CN-7	4130 007 0007	TNM 7.0 x 1 C 7.0
	1.5	10.5	05073	05073MA3279-157	BS7752	DIN 8140 - AM 7.0 x 10.5 A2	MA3279-157	LN 9039 - 05 105	1084-7CN-10.5	F107CN-10.5	4130 007 0105	TNM 7.0 x 1 C 10.5
	2	14.0	05074	05074MA3279-207	BS7752	DIN 8140 - AM 7.0 x 14.0 A2	MA3279-207	LN 9039 - 05 140	1084-7CN-14.0	F107CN-14	4130 007 0014	TNM 7.0 x 1 C 14.0
M7 x 1	2.5	17.5	05075	05075MA3279-257	BS7752	DIN 8140 - AM 7.0 x 17.5 A2	MA3279-257	-	1084-7CN-17.5	F107CN-17.5	4130 007 0175	TNM 7.0 x 1 C 17.5
	3	21.0	05076	05076MA3279-307	BS7752	DIN 8140 - AM 7.0 x 21.0 A2	MA3279-307	-	1084-7CN-21.0	F107CN-21	4130 007 0021	TNM 7.0 x 1 C 21.0



## Free Running Metric (cont.)

THREAD SIZE	LENGTH (IN DIA'S)	LENGTH	RECOIL STD PART NUMBER	RECOIL SPECIAL PART NUMBER	BRITISH STANDARD	GERMAN STD DIN 8140	SAE MA PART NUMER (USA)	GERMAN AEROSPACE STD LN9039	HELICOIL® USA PART NUMBER	ARMSTRONG PART NUMBER	BOLLHOFF (HELICOIL PLUS) PART NUMBER	COILTHREAD® (KATO) PART NUMBER
M8 x 1	1	8.0	07082	07082MA3279-108	BS7752	DIN 8140 - AM 80. X 1.0 x 8.0 A2	MA3279-108	LN 9039 - 06 080	4255-8CN-8.0	F408CN-8	4130 008 3008	TNM 8.0 x 1 C 8.0
	1.5	12.0	07083	07083MA3279-158	BS7752	DIN 8140 - AM 80. X 1.0 x 12.0 A2	MA3279-158	LN 9039 - 06 120	4255-8CN-12.0	F408CN-12	-3012	TNM 8.0 x 1 C 12.0
	2	16.0	07084	07084MA3279-208	BS7752	DIN 8140 - AM 80. X 1.0 x 16.0 A2	MA3279-208	LN 9039 - 06 160	4255-8CN-16.0	F408CN-16	-3016	TNM 8.0 x 1 C 16.0
	2.5	20.0	07085	07085MA3279-258	BS7752	DIN 8140 - AM 80. X 1.0 x 20.0 A2	MA3279-258	-	4255-8CN-20.0	F408CN-20	-3020	TNM 8.0 x 1 C 20.0
	3	24.0	07086	07086MA3279-308	BS7752	DIN 8140 - AM 80. X 1.0 x 24.0 A2	MA3279-308	-	4255-8CN-24.0	F408CN-24	-3024	TNM 8.0 x 1 C 24.0
M8 x 1.25	-	6.0	-	-		-		-	-		4130 008 0006	-
	1	8.0	05082	05082MA3279-109	BS7752	DIN 8140 - AM 8.0 x 8.0 A2	MA3279-109	LN 9039 - 07 080	1084-8CN-8.0	F108CN-8	4130 008 0008	TNM 8.0 x 1.25 C 8
	-	10.0	-	-		-		-	-			-
	1.5	12.0	05083	05083MA3279-159	BS7752	DIN 8140 - AM 8.0 x 12.0 A2	MA3279-159	LN 9039 - 07 120	1084-8CN-12.0	F108CN-12	4130 008 0012	TNM 8.0 x 1.25 C 12.0
	-	14.0	-	-		-		-	-			-
	2	16.0	05084	05084MA3279-209	BS7752	DIN 8140 - AM 8.0 x 16.0 A2	MA3279-209	LN 9039 - 07 160	1084-8CN-16.0	F108CN-16	4130 008 0016	TNM 8.0 x 1.25 C 16.0
	2.5	20.0	05085	05085MA3279-258	BS7752	DIN 8140 - AM 8.0 x 20.0 A2	MA3279-258	-	1084-8CN-20.0	F108CN-20	4130 008 0020	TNM 8.0 x 1.25 C 20.0
3	24.0	05086	05086MA3279-308	BS7752	DIN 8140 - AM 8.0 x 24.0 A2	MA3279-308	-	1084-8CN-24.0	F108CN-24	4130 008 0024	TNM 8.0 x 1.25 C 24.0	
M9 x 1.25	1	9	05092	05092		-		-	-	F109CN-9	4130 009 0009	-
	1.5	13.5	05093	05093		-		-	-	F109CN-13.5	4130 009 0135	-
	2	18	05094	05094		-		-	-	F109CN-18	4130 009 0018	-
	2.5	22.5	05095	05095		-		-	-	F109CN-22.5	4130 009 0225	-
	3	27	05096	05096		-		-	-	F109CN-27	4130 009 0027	-
M10 x 1.0	1	10.0	08102	08102MA3279-141		-	MA3279-141	-	-		4130 010 3010	-
	1.5	15.0	08103	08103MA3279-191		-	MA3279-191	-	-		4130 010 3015	-
	2	20.0	08104	08104MA3279-241		-	MA3279-241	-	-		4130 010 3020	-
	2.5	25.0	08105	08105MA3279-291		-	MA3279-291	-	-		4130 010 3025	-
	3	30.0	08106	08106MA3279-341		-	MA3279-341	-	-		4130 010 3030	-
M10 x 1.25	1	10.0	07102	07102MA3279-110	BS7752	DIN 8140 - AM 10.0 x 1.25 x 10.0 A2	MA3279-110	LN 9039 - 09 100	4649-10CN-10.0	F510CN-10	4130 010 9010	TNM 10.0 x 1.25 C 10.0
	1.5	15.0	07103	07103MA3279-160	BS7752	DIN 8140 - AM 10.0 x 1.25 x 15.0 A2	MA3279-160	LN 9039 - 09 150	4649-10CN-15.0	F510CN-15	4130 010 9015	TNM 10.0 x 1.25 C 15.0
	2	20.0	07104	07104MA3279-210	BS7752	DIN 8140 - AM 10.0 x 1.25 x 20.0 A2	MA3279-210	LN 9039 - 09 200	4649-10CN-20.0	F510CN-20	4130 010 9020	TNM 10.0 x 1.25 C 20.0
	2.5	25.0	07105	07105MA3279-260	BS7752	DIN 8140 - AM 10.0 x 1.25 x 25.0 A2	MA3279-260	-	4649-10CN-25.0	F510CN-25	4130 010 9025	TNM 10.0 x 1.25 C 25.0
	3	30.0	07106	07106MA3279-310	BS7752	DIN 8140 - AM 10.0 x 1.25 x 30.0 A2	MA3279-310	-	4649-10CN-30.0	F510CN-30	-	TNM 10.0 x 1.25 C 30.0
M10 x 1.5	1	10.0	05102	05102MA3279-111	BS7752	DIN 8140 - AM 10.0 x 10.0 A2	MA3279-111	LN 9039 - 10 100	1084-10CN-10.0	F110CN-10	4130 010 0010	TNM 10.0 x 1.5 C 10.0
	-	12.5	-	-		-		-	-		4130 010 0125	-
	1.5	15.0	05103	05103MA3279-161	BS7752	DIN 8140 - AM 10.0 x 15.0 A2	MA3279-161	LN 9039 - 10 150	1084-10CN-15.0	F110CN-15	4130 010 0015	TNM 10.0 x 1.5 C 15.0
	2	20.0	05104	05104MA3279-211	BS7752	DIN 8140 - AM 10.0 x 20.0 A2	MA3279-211	LN 9039 - 10 200	1084-10CN-20.0	F110CN-20	4130 010 0020	TNM 10.0 x 1.5 C 20.0
	2.5	25.0	05105	05105MA3279-261	BS7752	DIN 8140 - AM 10.0 x 25.0 A2	MA3279-261	-	1084-10CN-25.0	F110CN-25	4130 010 0025	TNM 10.0 x 1.5 C 25.0
	3	30.0	05106	05106MA3279-311	BS7752	DIN 8140 - AM 10.0 x 30.0 A2	MA3279-311	-	1084-10CN-30.0	F110CN-30	4130 010 0030	TNM 10.0 x 1.5 C 30.0
M11 x 1.5	1	11	05112	05112		-		-	-	F111CN-11	4130 011 0011	-
	1.5	16.5	05113	05113		-		-	-	F111CN-16.5	4130 011 0165	-
	2	22	05114	05114		-		-	-	F111CN-22	4130 011 0022	-
	2.5	27.5	05115	05115		-		-	-	F111CN-27.5	4130 011 0275	-
	3	33	05116	05116		-		-	-	F111CN-33	4130 011 0033	-
M12 x 1.0	1	12	08122-1	08122-1		-		-	-		4130 012 3012	-
	1.5	18.0	08123-1	08123-1		-		-	-		4130 012 3018	-
	2	24.0	08124-1	08124-1		-		-	-		4130 012 3024	-
M12 x 1.25	1	12.0	08122	08122MA3279-112	BS7752	DIN 8140 - AM 12.0 x 1.25 x 12.0 A2	MA3279-112	LN 9039 - 11 120	4649-12CN-12.0	F512CN-12	4130 012 9012	TNM 12.0 x 1.25 C 12.0
	1.5	18.0	08123	08123MA3279-162	BS7752	DIN 8140 - AM 12.0 x 1.25 x 18.0 A2	MA3279-162	LN 9039 - 11 180	4649-12CN-18.0	F512CN-18	4130 012 9018	TNM 12.0 x 1.25 C 18.0
	2	24.0	08124	08124MA3279-212	BS7752	DIN 8140 - AM 12.0 x 1.25 x 24.0 A2	MA3279-212	LN 9039 - 11 240	4649-12CN-24.0	F512CN-24	4130 012 9024	TNM 12.0 x 1.25 C 24.0
	2.5	30.0	08125	08125MA3279-262	BS7752	DIN 8140 - AM 12.0 x 1.25 x 30.0 A2	MA3279-262	-	4649-12CN-30.0	F512CN-30	4130 012 9030	TNM 12.0 x 1.25 C 30.0
	3	36.0	08126	08126MA3279-312	BS7752	DIN 8140 - AM 12.0 x 1.25 x 36.0 A2	MA3279-312	-	4649-12CN-36.0	F512CN-36	4130 012 9036	TNM 12.0 x 1.25 C 36.0



## Free Running Metric (cont.)

THREAD SIZE	LENGTH (IN DIA'S)	LENGTH	RECOIL STD PART NUMBER	RECOIL SPECIAL PART NUMBER	BRITISH STANDARD	GERMAN STD DIN 8140	SAE MA PART NUMER (USA)	GERMAN AEROSPACE STD LN9039	HELICOIL® USA PART NUMBER	ARMSTRONG PART NUMBER	BOLLHOFF (HELICOIL PLUS) PART NUMBER	COILTHREAD® (KATO) PART NUMBER
M12 x 1.5	1	12.0	07122	07122MA3279-113		DIN 8140 - AM 12.0 x 1.5 x 12.0 A2	MA3279-113	LN 9039 - 12 120	3745-12CN-12.0		4130 012 4012	TNM 12.0 x 1.5 C 12.0
	1.5	18.0	07123	07123MA3279-163		DIN 8140 - AM 12.0 x 1.5 x 18.0 A2	MA3279-163	LN 9039 - 12 180	3745-12CN-18.0		4130 012 4018	TNM 12.0 x 1.5 C 18.0
	2	24.0	07124	07124MA3279-213		DIN 8140 - AM 12.0 x 1.5 x 24.0 A2	MA3279-213	LN 9039 - 12 240	3745-12CN-24.0		4130 012 4024	TNM 12.0 x 1.5 C 24.0
	2.5	30.0	07125	07125MA3279-263		DIN 8140 - AM 12.0 x 1.5 x 30.0 A2	MA3279-263	LN 9039 - 12 300	3745-12CN-30.0		4130 012 4030	TNM 12.0 x 1.5 C 30.0
	3	36.0	07126	07126MA3279-313		DIN 8140 - AM 12.0 x 1.5 x 36.0 A2	MA3279-313	LN 9039 - 12 360	3745-12CN-36.0		4130 012 4036	TNM 12.0 x 1.5 C 36.0
M12 x 1.75	-	9.0	-	-		-		-	-			-
	1	12.0	05122	05122MA3279-114	BS7752	DIN 8140 - AM 12.0 x 12.0 A2	MA3279-114	LN 9039 - 13 120	1084-12CN-12.0	F112CN-12	4130 012 0012	TNM 12.0 x 1.75 C 12.0
	-	15.0	-	-		-		-	-			-
	1.5	18.0	05123	05123MA3279-164	BS7752	DIN 8140 - AM 12.0 x 18.0 A2	MA3279-164	LN 9039 - 13 180	1084-12CN-18.0	F112CN-18	4130 012 0018	TNM 12.0 x 1.75 C 18.0
	2	24.0	05124	05124MA3279-214	BS7752	DIN 8140 - AM 12.0 x 24.0 A2	MA3279-214	LN 9039 - 13 240	1084-12CN-24.0	F112CN-24	4130 012 0024	TNM 12.0 x 1.75 C 24.0
	2.5	30.0	05125	05125MA3279-264	BS7752	DIN 8140 - AM 12.0 x 30.0 A2	MA3279-264	-	1084-12CN-30.0	F112CN-30	4130 012 0030	TNM 12.0 x 1.75 C 30.0
M14 x 1.5	-	10.5	-	-		-		-	-			-
	1	14.0	07142	07142MA3279-115	BS7752	DIN 8140 - AM 14.0 x 1.5 x 14.0 A2	MA3279-115	LN 9039 - 15 140	3745-14CN-14.0	F414CN-14	4130 014 4014	TNM 14.0 x 1.5 C 14.0
	1.5	21.0	07143	07143MA3279-165	BS7752	DIN 8140 - AM 14.0 x 1.5 x 21.0 A2	MA3279-165	LN 9039 - 15 210	3745-14CN-21.0	F414CN-21	4130 014 4021	TNM 14.0 x 1.5 C 21.0
	2	28.0	07144	07144MA3279-215	BS7752	DIN 8140 - AM 14.0 x 1.5 x 28.0 A2	MA3279-215	LN 9039 - 15 280	3745-14CN-28.0	F414CN-28	4130 014 4028	TNM 14.0 x 1.5 C 28.0
	2.5	35.0	07145	07145MA3279-265	BS7752	DIN 8140 - AM 14.0 x 1.5 x 35.0 A2	MA3279-265	-	3745-14CN-35.0	F414CN-35	-	TNM 14.0 x 1.5 C 35.0
M14 x 2	-	10.5	-	-		-		-	-			-
	1	14.0	05142	05142MA3279-116	BS7752	DIN 8140 - AM 14.0 x 14.0 A2	MA3279-116	LN 9039 - 16 140	1084-14CN-14.0	F114CN-14	4130 014 0014	TNM 14.0 x 2.0 C 14
	1.5	21.0	05143	05143MA3279-166	BS7752	DIN 8140 - AM 14.0 x 21.0 A2	MA3279-166	LN 9039 - 16 210	1084-14CN-21.0	F114CN-21	4130 014 0021	TNM 14.0 x 2.0 C 21.0
	2	28.0	05144	05144MA3279-216	BS7752	DIN 8140 - AM 14.0 x 28.0 A2	MA3279-216	LN 9039 - 16 280	1084-14CN-28.0	F114CN-28	4130 014 0028	TNM 14.0 x 2.0 C 28.0
	2.5	35.0	05145	05145MA3279-266	BS7752	DIN 8140 - AM 14.0 x 35.0 A2	MA3279-266	-	1084-14CN-35.0	F114CN-35	4130 014 0035	TNM 14.0 x 2.0 C 35.0
M16 x 1.5	-	42.0	05146	05146MA3279-316	BS7752	DIN 8140 - AM 14.0 x 42.0 A2	MA3279-316	-	1084-14CN-42.0	F114CN-42	-	TNM 14.0 x 2.0 C 42.0
	1	16.0	07162	07162MA3279-117	BS7752	DIN 8140 - AM 16.0 x 1.5 x 16.0 A2	MA3279-117	LN 9039 - 17 160	3745-16CN-16.0	F416CN-16	4130 016 4016	TNM 16.0 x 1.5 C 16.0
	1.5	24.0	07163	07163MA3279-167	BS7752	DIN 8140 - AM 16.0 x 1.5 x 24.0 A2	MA3279-167	LN 9039 - 17 240	3745-16CN-24.0	F416CN-24	4130 016 4024	TNM 16.0 x 1.5 C 24.0
	2	32.0	07164	07164MA3279-217	BS7752	DIN 8140 - AM 16.0 x 1.5 x 32.0 A2	MA3279-217	LN 9039 - 17 320	3745-16CN-32.0	F416CN-32	4130 016 4032	TNM 16.0 x 1.5 C 32.0
M16 x 2.0	2.5	40.0	07165	07165MA3279-267	BS7752	DIN 8140 - AM 16.0 x 1.5 x 40.0 A2	MA3279-267	-	3745-16CN-40.0	F416CN-40	4130 016 4040	TNM 16.0 x 1.5 C 40.0
	3	48.0	07166	07166MA3279-317	BS7752	DIN 8140 - AM 16.0 x 1.5 x 48.0 A2	MA3279-317	-	3745-16CN-48.0	F416CN-48	-	TNM 16.0 x 1.5 C 48.0
	-	12.0	-	-		-		-	-			-
	-	16.0	05162	05162MA3279-118	BS7752	DIN 8140 - AM 16.0 x 16.0 A2	MA3279-118	LN 9039 - 18 160	1084-16CN-16	F116CN-16	4130 016 0016	TNM 16.0 x 2 C 16.0
	-	20.0	-	-		-		-	-			-
	-	24.0	05163	05163MA3279-168	BS7752	DIN 8140 - AM 16.0 x 24.0 A2	MA3279-168	LN 9039 - 18 240	1084-16CN-24	F116CN-24	4130 016 0024	TNM 16.0 x 2 C 24.0
M18 x 1.5	-	28.0	-	-		-		-	-			-
	-	32.0	05164	05164MA3279-218	BS7752	DIN 8140 - AM 16.0 x 32.0 A2	MA3279-218	LN 9039 - 18 320	1084-16CN-32	F116CN-32	4130 016 0032	TNM 16.0 x 2 C 32.0
	-	40.0	05165	05165MA3279-268	BS7752	DIN 8140 - AM 16.0 x 40.0 A2	MA3279-268	-	1084-16CN-40	F116CN-40	4130 016 0040	TNM 16.0 x 2 C 40.0
	-	48.0	05166	05166MA3279-318	BS7752	DIN 8140 - AM 16.0 x 48.0 A2	MA3279-318	-	1084-16CN-48	F116CN-48	4130 016 0048	TNM 16.0 x 2 C 48.0
	-	9.0	-	-		-		-	-		4130 018 4009	-
	-	12.0	-	-		-		-	-		4130 018 4012	-
	-	13.5	-	-		-		-	-		4130 018 4135	-
	-	15.0	-	-		-		-	-		4130 018 4015	-
	1	18.0	08182	08182MA3279-119	BS7752	DIN 8140 - AM 18.0 x 1.5 x 18.0 A2	MA3279-119	LN 9039 - 19 180	3745-18CN-18.0	F418CN-18	4130 018 4018	TNM 18.0 x 1.5 C 16.0
M18 x 2	-	22.5	-	-		-		-	-		4130 018 4225	-
	-	25.5	-	-		-		-	-		4130 018 4255	-
	1.5	27.0	08183	08183MA3279-169	BS7752	DIN 8140 - AM 18.0 x 1.5 x 27.0 A2	MA3279-169	LN 9039 - 19 270	3745-18CN-27.0	F418CN-27	4130 018 4027	TNM 18.0 x 1.5 C 27.0
	2	36.0	08184	08184MA3279-219	BS7752	DIN 8140 - AM 18.0 x 1.5 x 36.0 A2	MA3279-219	LN 9039 - 19 360	3745-18CN-36.0	F418CN-36	4130 018 4036	TNM 18.0 x 1.5 C 36.0
	2.5	45.0	08185	08185MA3279-269	BS7752	DIN 8140 - AM 18.0 x 1.5 x 45.0 A2	MA3279-269	-	3745-18CN-45.0	F418CN-45	-	TNM 18.0 x 1.5 C 45.0
	3	54.0	08186	08186MA3279-319	BS7752	DIN 8140 - AM 18.0 x 1.5 x 54.0 A2	MA3279-319	-	3745-18CN-54.0	F418CN-54	-	TNM 18.0 x 1.5 C 54.0
	1	18.0	07182	07182MA3279-120		DIN 8140 - AM 18.0 x 2.0 x 18.0 A2	MA3279-120	LN 9039 - 20 180	4266-18CN-18.0	F218CN-18	4130 018 5018	TNM 18.0 x 2 C 18.0
	1.5	27.0	07183	07183MA3279-170		DIN 8140 - AM 18.0 x 2.0 x 27.0 A2	MA3279-170	LN 9039 - 20 270	4266-18CN-27.0	F218CN-27	4130 018 5027	TNM 18.0 x 2 C 27.0
2	36.0	07184	07184MA3279-220		DIN 8140 - AM 18.0 x 2.0 x 36.0 A2	MA3279-220	LN 9039 - 20 360	4266-18CN-36.0	F218CN-36	4130 018 5036	TNM 18.0 x 2 C 36.0	
2.5	45.0	07185	07185MA3279-270		DIN 8140 - AM 18.0 x 2.0 x 45.0 A2	MA3279-270	-	4266-18CN-45.0	F218CN-45	-	TNM 18.0 x 2 C 45.0	
3	54.0	07186	07186MA3279-320		DIN 8140 - AM 18.0 x 2.0 x 54.0 A2	MA3279-320	-	4266-18CN-54.0	F218CN-54	-	TNM 18.0 x 2 C 54.0	

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## Free Running Metric (cont.)

THREAD SIZE	LENGTH (IN DIA'S)	LENGTH	RECOIL STD PART NUMBER	RECOIL SPECIAL PART NUMBER	BRITISH STANDARD	GERMAN STD DIN 8140	SAE MA PART NUMER (USA)	GERMAN AEROSPACE STD LN9039	HELICOIL® USA PART NUMBER	ARMSTRONG PART NUMBER	BOLLHOFF (HELICOIL PLUS) PART NUMBER	COILTHREAD® (KATO) PART NUMBER
M18 x 2.5	-	13.5	-	-		-		-	-		4130 018 0135	-
	1	18.0	05182	05182MA3279-121	BS7752	DIN 8140 - AM 18.0 x 18.0 A2	MA3279-121	LN 9039 - 21 180	1084-18CN-18.0	F118CN-18	4130 018 0018	TNM 18.0 x 2.5 C 18.0
	1.5	27.0	05183	05183MA3279-171	BS7752	DIN 8140 - AM 18.0 x 27.0 A2	MA3279-171	LN 9039 - 21 270	1084-18CN-27.0	F118CN-27	4130 018 0027	TNM 18.0 x 2.5 C 27.0
	2	36.0	05184	05184MA3279-221	BS7752	DIN 8140 - AM 18.0 x 36.0 A2	MA3279-221	LN 9039 - 21 360	1084-18CN-36.0	F118CN-36	4130 018 0036	TNM 18.0 x 2.5 C 36.0
	2.5	45.0	05185	05185MA3279-271	BS7752	DIN 8140 - AM 18.0 x 45.0 A2	MA3279-271	-	1084-18CN-45.0	F118CN-45	-	TNM 18.0 x 2.5 C 45.0
	3	54.0	05186	05186MA3279-321	BS7752	DIN 8140 - AM 18.0 x 54.0 A2	MA3279-321	-	1084-18CN-54.0	F118CN-54	-	TNM 18.0 x 2.5 C 54.0
M20 x 1.5	-	10.0	-	-		-		-	-		4130 020 4010	-
	-	15.0	-	-		-		-	-		-4015	-
	1	20.0	08202	08202MA3279-122	BS7752	DIN 8140 - AM 20.0 x 1.5 x 20.0 A2	MA3279-122	LN 9039 - 22 200	3745-20CN-20.0	F420CN-20	-4020	TNM 20.0 x 1.5 C 20.0
	1.5	30.0	08203	08203MA3279-172	BS7752	DIN 8140 - AM 20.0 x 1.5 x 30.0 A2	MA3279-172	LN 9039 - 22 300	3745-20CN-30.0	F420CN-30	-4030	TNM 20.0 x 1.5 C 30.0
	2	40.0	08204	08204MA3279-222	BS7752	DIN 8140 - AM 20.0 x 1.5 x 40.0 A2	MA3279-222	LN 9039 - 22 400	3745-20CN-40.0	F420CN-40	-4040	TNM 20.0 x 1.5 C 40.0
	2.5	50.0	08205	08205MA3279-272	BS7752	DIN 8140 - AM 20.0 x 1.5 x 50.0 A2	MA3279-272	-	3745-20CN-50.0	F420CN-50	-	TNM 20.0 x 1.5 C 50.0
	3	60.0	08206	08206MA3279-322	BS7752	DIN 8140 - AM 20.0 x 1.5 x 60.0 A2	MA3279-322	-	3745-20CN-60.0	F420CN-60	-	TNM 20.0 x 1.5 C 60.0
M20 x 2	-	15.0	-	-		-		-	-	CN-	4130 020 5015	-
	1	20.0	07202	07202MA3279-123		DIN 8140 - AM 20.0 x 2.0 x 20.0 A2	MA3279-123	LN 9039 - 23 200	4266-20CN-20.0	F220CN-20	4130 020 5020	TNM 20.0 x 2.0 C 20.0
	1.5	30.0	07203	07203MA3279-173		DIN 8140 - AM 20.0 x 2.0 x 30.0 A2	MA3279-173	LN 9039 - 23 300	4266-20CN-20.0	F220CN-30	4130 020 5030	TNM 20.0 x 2.0 C 30.0
	2	40.0	07204	07204MA3279-223		DIN 8140 - AM 20.0 x 2.0 x 40.0 A2	MA3279-223	LN 9039 - 23 400	4266-20CN-40.0	F220CN-40	4130 020 5040	TNM 20.0 x 2.0 C 40.0
	2.5	50.0	07205	07205MA3279-273		DIN 8140 - AM 20.0 x 2.0 x 50.0 A2	MA3279-273	-	4266-20CN-50.0	F220CN-50	-	TNM 20.0 x 2.0 C 50.0
	3	60.0	07206	07206MA3279-323		DIN 8140 - AM 20.0 x 2.0 x 60.0 A2	MA3279-323	-	4266-20CN-60.0	F220CN-60	-	TNM 20.0 x 2.0 C 60.0
M20 x 2.5	-	10.0	-	-		-		-	-		4130 020 0010	-
	-	15.0	-	-		-		-	-		4130 020 0015	-
	1	20.0	05202	05202MA3279-124	BS7752	DIN 8140 - AM 20.0 x 20.0 A2	MA3279-124	LN 9039 - 24 200	1084-20CN-20.0	F120CN-20	4130 020 0020	TNM 20.0 x 2.5 C 20.0
	-	25.0	-	-		-		-	-		4130 020 0025	-
	1.5	30.0	05203	05203MA3279-174	BS7752	DIN 8140 - AM 20.0 x 30.0 A2	MA3279-174	LN 9039 - 24 300	1084-20CN-30.0	F120CN-30	4130 020 0030	TNM 20.0 x 2.5 C 30.0
	2	40.0	05204	05204MA3279-224	BS7752	DIN 8140 - AM 20.0 x 40.0 A2	MA3279-224	LN 9039 - 24 400	40.0	F120CN-40	4130 020 0040	TNM 20.0 x 2.5 C 40.0
	2.5	50.0	05205	05205MA3279-274	BS7752	DIN 8140 - AM 20.0 x 50.0 A2	MA3279-274	-	1084-20CN-50.0	F120CN-50	-	TNM 20.0 x 2.5 C 50.0
	3	60.0	05206	05206MA3279-324	BS7752	DIN 8140 - AM 20.0 x 60.0 A2	MA3279-324	-	1084-20CN-60.0	F120CN-60	4130 020 -0060	TNM 20.0 x 2.5 C 60.0
M22 x 1.5	-	11.0	-	-		-		-	-		4130 022 4011	-
	-	16.5	-	-		-		-	-		4130 022 4165	-
	1	22.0	08222	08222MA3279-125	BS7752	DIN 8140 - AM 22.0 x 1.5 x 22.0 A2	MA3279-125	LN 9039 - 25 220	3745-22CN-22.0	F422CN-22	4130 022 4022	TNM 22.0 x 1.5 C 22.0
	1.5	33.0	08223	08223MA3279-175	BS7752	DIN 8140 - AM 22.0 x 1.5 x 33.0 A2	MA3279-175	LN 9039 - 25 330	3745-22CN-33.0	F422CN-33	4130 022 4033	TNM 22.0 x 1.5 C 33.0
	2	44.0	08224	08224MA3279-225	BS7752	DIN 8140 - AM 22.0 x 1.5 x 44.0 A2	MA3279-225	-	3745-22CN-44.0	F422CN-44	4130 022 4044	TNM 22.0 x 1.5 C 44.0
	2.5	55.0	08225	08225MA3279-275	BS7752	DIN 8140 - AM 22.0 x 1.5 x 55.0 A2	MA3279-275	-	3745-22CN-55.0	F422CN-55	-	TNM 22.0 x 1.5 C 55.0
	3	66.0	08226	08226MA3279-325	BS7752	DIN 8140 - AM 22.0 x 1.5 x 66.0 A2	MA3279-325	-	3745-22CN-66.0	F422CN-66	-	TNM 22.0 x 1.5 C 66.0
M22 x 2	1	22.0	07222	07222MA3279-126		DIN 8140 - AM 22.0 x 2.0 x 22.0 A2	MA3279-126	LN 9039 - 26 220	4266-22CN-22.0	F222CN-22	4130 022 0022	TNM 22.0 x 2.0 C 22.0
	1.5	33.0	07223	07223MA3279-176		DIN 8140 - AM 22.0 x 2.0 x 33.0 A2	MA3279-176	LN 9039 - 26 330	4266-22CN-33.0	F222CN-33	4130 022 0033	TNM 22.0 x 2.0 C 33.0
	2	44.0	07224	07224MA3279-226		DIN 8140 - AM 22.0 x 2.0 x 44.0 A2	MA3279-226	LN 9039 - 26 440	4266-22CN-44.0	F222CN-44	4130 022 0044	TNM 22.0 x 2.0 C 44.0
	2.5	55.0	07225	07225MA3279-276		DIN 8140 - AM 22.0 x 2.0 x 55.0 A2	MA3279-276	-	4266-22CN-55.0	F222CN-55	-	TNM 22.0 x 2.0 C 55.0
	3	66.0	07226	07226MA3279-326		DIN 8140 - AM 22.0 x 2.0 x 66.0 A2	MA3279-326	-	4266-22CN-66.0	F222CN-66	-	TNM 22.0 x 2.0 C 66.0
M22 x 2.5	1	22.0	05222	05222MA3279-127	BS7752	DIN 8140 - AM 22.0 x 22.0 A2	MA3279-127	LN 9030 - 27 220	1084-22CN-22.0	F122CN-22	-	TNM 22.0 x 2.5 C 22.0
	1.5	33.0	05223	05223MA3279-177	BS7752	DIN 8140 - AM 22.0 x 33.0 A2	MA3279-177	LN 9030 - 27 330	1084-22CN-33.0	F122CN-33	-	TNM 22.0 x 2.5 C 33.0
	2	44.0	05224	05224MA3279-227	BS7752	DIN 8140 - AM 22.0 x 44.0 A2	MA3279-227	LN 9030 - 27 440	1084-22CN-44.0	F122CN-44	-	TNM 22.0 x 2.5 C 44.0
	2.5	55.0	05225	05225MA3279-277	BS7752	DIN 8140 - AM 22.0 x 55.0 A2	MA3279-277	-	1084-22CN-55.0	F122CN-55	-	TNM 22.0 x 2.5 C 55.0
	3	66.0	05226	05226MA3279-327	BS7752	DIN 8140 - AM 22.0 x 66.0 A2	MA3279-327	-	1084-22CN-66.0	F122CN-66	-	TNM 22.0 x 2.5 C 66.0
M24 x 1.5	1	12.0	08242	08242		-		-	-		4130 024 4012	-
	1.5	18.0	08243	08243		-		-	-		4130 024 4018	-
	2	24.0	08244	08244		-		-	-		4130 024 4024	-
	2.5	36.0	08245	08245		-		-	-		4130 024 4036	-
	3	48.0	08246	08246		-		-	-		4130 024 4048	-



## Free Running Metric (cont.)

THREAD SIZE	LENGTH (IN DIA'S)	LENGTH	RECOIL STD PART NUMBER	RECOIL SPECIAL PART NUMBER	BRITISH STANDARD	GERMAN STD DIN 8140	SAE MA PART NUMER (USA)	GERMAN AEROSPACE STD LN9039	HELICOIL® USA PART NUMBER	ARMSTRONG PART NUMBER	BOLLHOFF (HELICOIL PLUS) PART NUMBER	COILTHREAD® (KATO) PART NUMBER
M24 x 2	-	12.0	-	-		-		-	-		4130 024 5012	-
	-	18.0	-	-		-		-	-		4130 024 5018	-
	1	24.0	<b>07242</b>	<b>07242MA3279-128</b>	BS7752	DIN 8140 - AM 24.0 x 2.0 x 24.0 A2	MA3279-128	LN 9039 - 29 240	4266-24CN-24.0	F224CN-24	4130 024 5024	TNM 24.0 x 2.0 C 24.0
	1.5	36.0	<b>07243</b>	<b>07243MA3279-178</b>	BS7752	DIN 8140 - AM 24.0 x 2.0 x 36.0 A2	MA3279-178	LN 9039 - 29 360	4266-24CN-36.0	F224CN-36	4130 024 5036	TNM 24.0 x 2.0 C 36.0
	2	48.0	<b>07244</b>	<b>07244MA3279-228</b>	BS7752	DIN 8140 - AM 24.0 x 2.0 x 48.0 A2	MA3279-228	LN 9039 - 29 480	4266-24CN-48.0	F224CN-48	4130 024 5048	TNM 24.0 x 2.0 C 48.0
	2.5	60.0	<b>07245</b>	<b>07245MA3279-278</b>	BS7752	DIN 8140 - AM 24.0 x 2.0 x 60.0 A2	MA3279-278	-	4266-24CN-60.0	F224CN-60	-	TNM 24.0 x 2.0 C 60.0
	3	72.0	<b>07246</b>	<b>07246MA3279-328</b>	BS7752	DIN 8140 - AM 24.0 x 2.0 x 72.0 A2	MA3279-328	-	4266-24CN-72.0	F224CN-72	-	TNM 24.0 x 2.0 C 72.0
M24 x 3	-	12.0	-	-		-		-	-		4130 024 0012	-
	-	18.0	-	-		-		-	-		4130 024 0018	-
	1	24.0	<b>05242</b>	<b>05242MA3279-129</b>	BS7752	DIN 8140 - AM 24.0 x 24.0 A2	MA3279-129	LN 9039 - 27 240	1084-24CN-24.0	F124CN-24	4130 024 0024	TNM 24.0 x 3.0 C 24.0
	-	30.0	-	-		-		-	-		4130 024 0030	-
	1.5	36.0	<b>05243</b>	<b>05243MA3279-179</b>	BS7752	DIN 8140 - AM 24.0 x 36.0 A2	MA3279-179	LN 9039 - 27 360	1084-24CN-36.0	F124CN-36	4130 024 0036	TNM 24.0 x 3.0 C 36.0
	2	48.0	<b>05244</b>	<b>05244MA3279-229</b>	BS7752	DIN 8140 - AM 24.0 x 48.0 A2	MA3279-229	LN 9039 - 27 480	1084-24CN-48.0	F124CN-48	4130 024 0048	TNM 24.0 x 3.0 C 48.0
	2.5	60.0	<b>05245</b>	<b>05245MA3279-279</b>	BS7752	DIN 8140 - AM 24.0 x 60.0 A2	MA3279-279	-	1084-24CN-60.0	F124CN-60	4130 024 0060	TNM 24.0 x 3.0 C 60.0
	3	72.0	<b>05246</b>	<b>05246MA3279-329</b>	BS7752	DIN 8140 - AM 24.0 x 72.0 A2	MA3279-329	-	1084-24CN-72.0	F124CN-72	-	TNM 24.0 x 3.0 C 72.0
M26 X 1.5	-	13.0	-	-		-		-	-		4130 026 4013	-
	-	19.5	-	-		-		-	-		4130 026 4195	-
	1	26.0	<b>08262</b>	-		-		-	-		4130 026 4026	-
	1.5	39.0	<b>08263</b>	-		-		-	-		4130 026 4039	-
M27 x 1.5	1	27.0	<b>08272</b>	-		-		-	-		4130 027 4027	-
	1.5	40.5	<b>08273</b>	-		-		-	-		4130 027 4405	-
M27 x 2.0	-	13.5	-	-		-		-	-		4130 027 5135	-
	-	20.3	-	-		-		-	-		4130 027 5203	-
	1	27.0	<b>07272</b>	<b>07272MA3279-130</b>		DIN 8140 - AM 27.0 x 3.0 x 27.0 A2	MA3279-130	LN 9039 - 31 270	-		4130 027 5027	TNM 27.0 x 2 C 27.0
	1.5	40.5	<b>07273</b>	<b>07273MA3279-180</b>		DIN 8140 - AM 27.0 x 3.0 x 40.5 A2	MA3279-180	LN 9039 - 31 405	-		4130 027 5405	TNM 27.0 x 2 C 40.5
	2	54.0	<b>07274</b>	<b>07274MA3279-230</b>		DIN 8140 - AM 27.0 x 3.0 x 54.0 A2	MA3279-230	-	-		-	TNM 27.0 x 2 C 54.0
	2.5	67.5	<b>07275</b>	<b>07275MA3279-280</b>		DIN 8140 - AM 27.0 x 3.0 x 67.5 A2	MA2379-280	-	-		-	TNM 27.0 x 2 C 67.5
	3	81.0	<b>07276</b>	<b>07276MA3279-330</b>		DIN 8140 - AM 27.0 x 3.0 x 81.0 A2	MA3279-330	-	-		-	TNM 27.0 x 2 C 81.0
M27 x 3.0	-	20.3	-	-		-		-	-		4130 027 0203	-
	1	27.0	<b>05272</b>	<b>05272MA3279-131</b>		DIN 8140 - AM 27.0 x 27.0 A2	MA3279-131	LN 9039 - 32 270	-	F127CN-27	4130 027 0027	TNM 27.0 x 3.0 C 27.0
	1.5	40.5	<b>05273</b>	<b>05273MA3279-161</b>		DIN 8140 - AM 27.0 x 40.5 A2	MA3279-161	LN 9039 - 32 405	-	F12740.5	4130 027 0405	TNM 27.0 x 3.0 C 40.5
	2	54.0	<b>05274</b>	<b>05274MA3279-231</b>		DIN 8140 - AM 27.0 x 54.0 A2	MA3279-231	LN 9039 - 32 540	-	F127CN-54	4130 027 0054	TNM 27.0 x 3.0 C 54.0
	2.5	67.5	<b>05275</b>	<b>05275MA3279-281</b>		DIN 8140 - AM 27.0 x 67.5 A2	MA3279-281	-	-	F127CN-67.5	-	TNM 27.0 x 3.0 C 67.5
	3	81.0	<b>05276</b>	<b>05276MA3279-331</b>		DIN 8140 - AM 27.0 x 81.0 A2	MA3279-331	-	-	-	-	TNM 27.0 x 3.0 C 81.0
M30 x 1.5	1	15.0	<b>08302</b>	-		-		-	-		4130 030 4015	-
	1.5	22.5	<b>08303</b>	-		-		-	-		4130 030 4225	-
	2	30.0	<b>08304</b>	-		-		-	-		4130 030 4030	-
	2.5	45.0	<b>08305</b>	-		-		-	-		4130 030 4045	-
	3	60.0	<b>08306</b>	-		-		-	-		4130 030 4060	-
M30 x 2.0	-	15.0	-	-		-		-	-		4130 030 5015	-
	-	22.5	-	-		-		-	-		4130 030 5225	-
	1	30.0	<b>07302</b>	<b>07302MA3279-132</b>		DIN 8140 - AM 30.0 x 2.0 x 30.0 A2	MA3279-132	LN 9039 - 34 300	-		4130 030 5030	TNM 30.0 x 2 C 30.0
	1.5	45.0	<b>07303</b>	<b>07303MA3279-182</b>		DIN 8140 - AM 30.0 x 2.0 x 45.0 A2	MA3279-182	LN 9039 - 34 450	-		4130 030 5045	TNM 30.0 x 2 C 45.0
	2	60.0	<b>07304</b>	<b>07304MA3279-232</b>		DIN 8140 - AM 30.0 x 2.0 x 60.0 A2	MA3279-232	-	-		4130 030 5060	TNM 30.0 x 2 C 60.0
	2.5	75.0	<b>07305</b>	<b>07305MA3279-282</b>		DIN 8140 - AM 30.0 x 2.0 x 75.0 A2	MA3279-282	-	-		-	TNM 30.0 x 2 C 75.0
	3	90.0	<b>07306</b>	<b>07306MA3279-332</b>		DIN 8140 - AM 30.0 x 2.0 x 90.0 A2	MA2379-332	-	-		-	TNM 30.0 x 2 C 90.0
M30 x 3	1	30.0	<b>05302-3</b>	<b>05302-3MA3279-133</b>		DIN 8140 - AM 30.0 x 30.0 A2	MA3279-133	LN 9039 - 35 300	-		-	TNM 30.0 x 3.0 C 30.0
	1.5	45.0	<b>05303-3</b>	<b>05303-3MA3279-183</b>		DIN 8140 - AM 30.0 x 45.0 A2	MA3279-183	LN 9039 - 35 450	-		-	TNM 30.0 x 3.0 C 45.0
	2	60.0	<b>05304-3</b>	<b>05304-3MA3279-233</b>		DIN 8140 - AM 30.0 x 60.0 A2	MA3279-233	LN 9039 - 35 600	-		-	TNM 30.0 x 3.0 C 60.0
	2.5	75.0	<b>05305-3</b>	<b>05305-3MA3279-283</b>		DIN 8140 - AM 30.0 x 75.0 A2	MA3279-283	-	-		-	TNM 30.0 x 3.0 C 75.0
	3	90.0	<b>05360-3</b>	<b>05360-3MA3279-333</b>		DIN 8140 - AM 30.0 x 90.0 A2	MA3279-333	-	-		-	TNM 30.0 x 3.0 C 90.0



## Free Running Metric (cont.)

THREAD SIZE	LENGTH (IN DIA'S)	LENGTH	RECOIL STD PART NUMBER	RECOIL SPECIAL PART NUMBER	BRITISH STANDARD	GERMAN STD DIN 8140	SAE MA PART NUMER (USA)	GERMAN AEROSPACE STD LN9039	HELICOIL® USA PART NUMBER	ARMSTRONG PART NUMBER	BOLLHOFF (HELICOIL PLUS) PART NUMBER	COILTHREAD® (KATO) PART NUMBER
M30 x 3.5	-	22.5				-		-	-		4130 030 0225	-
	1	30.0	05302			-		-	-	F130CN-30	4130 030 0030	-
	-	37.5				-		-	-		4130 030 0375	-
	1.5	45.0	05303			-		-	-	F130CN-45	4130 030 0045	-
	2	60.0	05304			-		-	-	F130CN-60	4130 030 0060	-
	2.5	75.0	05305			-		-	-	F130CN-75	-	-
	3	90	05306			-		-	-		-	-
M33 x 2.0	-	16.5	-	-					-		4130 033 5165	
	1	33.0	07332	07332MA3279-134		DIN 8140 - AM 33.0 x 2.0 x 33.0 A2	MA3279-134	LN 9039 - 37 330	-		4130 033 5033	TNM 33.0 x 2.0 C 33.0
	-	41.25	-	-		-		-	-		4130 033 5413	-
	1.5	49.5	07333	07333MA3279-184		DIN 8140 - AM 33.0 x 2.0 x 49.5 A2	MA3279-184	LN 9039 - 37 495	-		4130 033 5495	TNM 33.0 x 2.0 C 49.5
	2	66.0	07334	07334MA3279-234		DIN 8140 - AM 33.0 x 2.0 x 66.0 A2	MA3279-234	-	-			TNM 33.0 x 2.0 C 66.0
	2.5	82.5	07335	07335MA3279-284		DIN 8140 - AM 33.0 x 2.0 x 82.5 A2	MA3279-284	-	-			TNM 33.0 x 2.0 C 82.5
	3	99.0	07336	07336MA3279-334		DIN 8140 - AM 33.0 x 2.0 x 99.0 A2	MA3279-334	-	-			TNM 33.0 x 2.0 C 99.0
M33 x 3.0	1	33.0	07332-3	07332-3MA3279-135		DIN 8140 - AM 33.0 x 33.0 A2	MA3279-135	LN 9039 - 38 330				TNM 33.0 x 3.0 C 33.0
	1.5	49.5	07333-3	07333-3MA3279-185		DIN 8140 - AM 33.0 x 49.5 A2	MA3279-185	LN 9039 - 38 495				TNM 33.0 x 3.0 C 49.5
	2	66.0	07334-3	07334-3MA3279-235		DIN 8140 - AM 33.0 x 66.0 A2	MA3279-235	-	-			TNM 33.0 x 3.0 C 66.0
	2.5	82.5	07335-3	07335-3MA3279-285		DIN 8140 - AM 33.0 x 82.5 A2	MA3279-285	-	-			TNM 33.0 x 3.0 C 82.5
	3	99.0	07336-3	07336-3MA3279-335		DIN 8140 - AM 33.0 x 99.0 A2	MA3279-335	-	-			TNM 33.0 x 3.0 C 99.0
M33 x 3.5	1	33.0	05332			-		-	-	F133CN-33	4030 033 0033	-
	1.5	49.5	05333			-		-	-	F133CN-49.5	4130 033 0495	-
	2	66.0	05334			-		-	-	F133CN-66	4130 033 0066	-
M36 x 1.5	-	18.0				-		-	-		4130 036 4018	-
	1	36.0	08362			-		-	-		4130 036 4036	-
	1.5	54.0	08363			-		-	-		4130 036 4054	-
	2	72.0	08364			-		-	-		4130 036 4072	-
M36 x 2.0	-	18.0	-	-					-		4130 036 5018	
	1	36.0	07362-2	07362-2MA3279-136		DIN 8140 - AM 36.0 x 2.0 x 36.0 A2	MA3279-136	-	-		4130 036 5036	TNM 36.0 x 2.0 C 36.0
	1.5	54.0	07363-2	07363-2MA3279-186		DIN 8140 - AM 36.0 x 2.0 x 56.0 A2	MA3279-186	-	-		4130 036 5054	TNM 36.0 x 2.0 C 56.0
	2	72.0	07364-2	07364-2MA3279-236		DIN 8140 - AM 36.0 x 2.0 x 72.0 A2	MA3279-236	-	-			TNM 36.0 x 2.0 C 72.0
	2.5	90.0	07365-2	07365-2MA3279-286		DIN 8140 - AM 36.0 x 2.0 x 90.0 A2	MA3279-286	-	-			TNM 36.0 x 2.0 C 90.0
	3	108	07366-2	07366-2MA3279-336		DIN 8140 - AM 36.0 x 2.0 x 108.0 A2	MA3279-336	-	-			TNM 36.0 x 2.0 C 108.0
M36 x 3.0	1	36.0	07362	07362MA3279-137		DIN 8140 - AM 36.0 x 36.0 A2	MA3279-137	LN 9039 - 40 360	-		4130 036 6036	TNM 36.0 x 3.0 C 36.0
	-	45.0	-	-		-		-	-		4130 036 6045	-
	1.5	54.0	07363	07363MA3279-187		DIN 8140 - AM 36.0 x 54.0 A2	MA3279-187	LN 9039 - 40 540	-		4130 036 6054	TNM 36.0 x 3.0 C 54.0
	2	72.0	07364	07364MA3279-237		DIN 8140 - AM 36.0 x 72.0 A2	MA3279-237	-	-		4130 036 6072	TNM 36.0 x 3.0 C 72.0
	2.5	90.0	07365	07365MA3279-287		DIN 8140 - AM 36.0 x 90.0 A2	MA3279-287	-	-			TNM 36.0 x 3.0 C 90.0
	3	108	07366	07366MA3279-337		DIN 8140 - AM 36.0 x 108.0 A2	MA3279-337	-	-			TNM 36.0 x 3.0 C 108.0
M36 x 4.0	1	36.0	05362			-		-	-	F136CN-36	4130 036 0036	-
	-	45.0	-			-		-	-		4130 036 0045	-
	1.5	54.0	05363			-		-	-	F136CN-54	4130 036 0054	-
	2	72.0	05364			-		-	-	F136CN-72	4130 036 0072	-
M39 x 2.0	1	39.0	08392	08392MA3279-138		DIN 8140 - AM 39.0 x 2.0 x 39.0 A2	MA3279-138	-	-			TNM 39.0 x 2 C 39.0
	1.5	58.5	08393	08393MA3279-188		DIN 8140 - AM 39.0 x 2.0 x 58.5 A2	MA3279-188	-	-			TNM 39.0 x 2 C 58.5
	2	78.0	08394	08394MA3279-238		DIN 8140 - AM 39.0 x 2.0 x 78.0 A2	MA3279-238	-	-			TNM 39.0 x 2 C 78.0
	2.5	97.5	08395	08395MA3279-288		DIN 8140 - AM 39.0 x 2.0 x 97.5 A2	MA3279-288	-	-			TNM 39.0 x 2 C 97.5
	3	117	08396	08396MA3279-338		DIN 8140 - AM 39.0 x 2.0 x 117.0 A2	MA3279-338	-	-			TNM 39.0 x 2 C 117.0
M39 x 3.0	1	39.0	07392	07392MA3279-139		DIN 8140 - AM 39.0 x 39.0 A2	MA3279-139	-	-			TNM 39.0 x 3.0 C 39.0
	1.5	58.5	07393	07393MA3279-189		DIN 8140 - AM 39.0 x 58.5 A2	MA3279-189	-	-			TNM 39.0 x 3.0 C 58.5
	2	78.0	07394	07394MA3279-239		DIN 8140 - AM 39.0 x 78.0 A2	MA3279-239	-	-			TNM 39.0 x 3.0 C 78.0
	2.5	97.5	07394	07394MA3279-289		DIN 8140 - AM 39.0 x 97.5 A2	MA3279-289	-	-			TNM 39.0 x 3.0 C 97.5
	3	117	07396	07396MA3279-339		DIN 8140 - AM 39.0 x 117.0 A2	MA3279-339	-	-			TNM 39.0 x 3.0 C 117.0
M39 x 4.0	1	39.0	05392			-		-	-	F139CN-39	-	
	2	58.5	05393			-		-	-	F139CN-358.5	-	
	3	78.0	05394			-		-	-	F139CN-78	-	

## AGS3700 Nimonic 90 Silver Plated

SIZE	LENGTH (IN DIA'S)	RECOIL® PART NUMBER	AGS PART NUMBER
10-32 UNF	1	14602NAGS3706	AGS3706
	1-1/2	14603NAGS3731	AGS3731
	2	14604NAGS3756	AGS3756
	2-1/2	14605NAGS3781	AGS3781
	3	14606NAGS3718	AGS3718
1/4-28 UNF	1	14042NAGS3707	AGS3707
	1-1/2	14043NAGS3732	AGS3732
	2	14044NAGS3757	AGS3757
	2-1/2	14045NAGS3782	AGS3782
	3	14046NAGS3719	AGS3719
5/16-24 UNF	1	14052NAGS3708	AGS3708
	1-1/2	14053NAGS3733	AGS3733
	2	14054NAGS3758	AGS3758
	2-1/2	14055NAGS3783	AGS3783
	3	14056NAGS3720	AGS3720
3/8-24 UNF	1	14062NAGS3709	AGS3709
	1-1/2	14063NAGS3734	AGS3734
	2	14064NAGS3759	AGS3759
	2-1/2	14065NAGS3784	AGS3784
	3	14066NAGS3721	AGS3721







Tangless FR (cont.)

TANGLESS FREE RUNNING - PHOSPHOR BRONZE (P)

THREAD SIZE	NOMINAL LENGTH (DIA)	RECOIL TANGLESS PHOSPHOR BRONZE PART NUMBER	KATO COILTHREAD TANGLESS PHOSPHOR BRONZE PART NUMBER	NA/NAS TANGLESS PHOSPHOR BRONZE PART NUMBER	HELICOIL TANGLESS PHOSPHOR BRONZE PART NUMBER
METRIC					
M2-0.4	1	TL05022P	2TNM-2X.4P-2	---	---
	1.5	TL05023P	2TNM-2X.4P-3	---	---
	2	TL05024P	2TNM-2X.4P-4	---	---
M2.5-0.45	1	TL05252P	2TNM-2.5X.45P-2.5	---	---
	1.5	TL05253P	2TNM-2.5X.45P-3.8	---	---
	2	TL05254P	2TNM-2.5X.45P-5	---	---
	2.5	TL05255P	2TNM-2.5X.45P-6.3	---	---
M3-0.5	3	TL05256P	2TNM-2.5X.45P-7.5	---	---
	1	TL05032P	2TNM-3X.5P-3	---	---
	1.5	TL05033P	2TNM-3X.5P-4.5	---	---
	2	TL05034P	2TNM-3X.5P-6	---	---
	2.5	TL05035P	2TNM-3X.5P-7.5	---	---
M4-0.7	3	TL05036P	2TNM-3X.5P-9	---	---
	1	TL05042P	2TNM-4X.7P-4	---	---
	1.5	TL05043P	2TNM-4X.7P-6	---	---
	2	TL05044P	2TNM-4X.7P-8	---	---
M5-0.8	2.5	TL05045P	2TNM-4X.7P-10	---	---
	3	TL05046P	2TNM-4X.7P-12	---	---
	1	TL05052P	2TNM-5X.8P-5	---	---
	1.5	TL05053P	2TNM-5X.8P-7.5	---	---
M6-1	2	TL05054P	2TNM-5X.8P-10	---	---
	2.5	TL05055P	2TNM-5X.8P-12.5	---	---
	3	TL05056P	2TNM-5X.8P-15	---	---
	1	TL05062P	2TNM-6X1P-6	---	---
M8-1.25	1.5	TL05063P	2TNM-6X1P-9	---	---
	2	TL05064P	2TNM-6X1P-12	---	---
	2.5	TL05065P	2TNM-6X1P-15	---	---
	3	TL05066P	2TNM-6X1P-18	---	---
M10-1.5	1	TL05082P	2TNM-8X1.25P-8	---	---
	1.5	TL05083P	2TNM-8X1.25P-12	---	---
	2	TL05084P	2TNM-8X1.25P-16	---	---
	2.5	TL05085P	2TNM-8X1.25P-20	---	---
M12-1.75	3	TL05086P	2TNM-8X1.25P-24	---	---
	1	TL05102P	2TNM-10X1.5P-10	---	---
	1.5	TL05103P	2TNM-10X1.5P-15	---	---
	2	TL05104P	2TNM-10X1.5P-20	---	---
M14-2	2.5	TL05105P	2TNM-10X1.5P-25	---	---
	3	TL05106P	2TNM-10X1.5P-30	---	---
	1	TL05122P	2TNM-12X1.75P-12	---	---
	1.5	TL05123P	2TNM-12X1.75P-18	---	---
M16-2	2	TL05124P	2TNM-12X1.75P-24	---	---
	2.5	TL05125P	2TNM-12X1.75P-30	---	---
	3	TL05126P	2TNM-12X1.75P-36	---	---
	1	---	---	---	---
M16-2	1.5	---	---	---	---
	2	---	---	---	---
	2.5	---	---	---	---
	3	---	---	---	---

TANGLESS FREE RUNNING - INCONEL X750 (X)

RECOIL TANGLESS INCONEL X750 PART NUMBER	KATO COILTHREAD TANGLESS INCONEL X750 PART NUMBER	NA/NAS TANGLESS INCONEL X750 PART NUMBER	HELICOIL® TANGLESS INCONEL X750 PART NUMBER
TL05022X	2TNM-2X.4T-2	---	---
TL05023X	2TNM-2X.4T-3	---	---
TL05024X	2TNM-2X.4T-4	---	---
TL05252X	2TNM-2.5X.45T-2.5	---	---
TL05253X	2TNM-2.5X.45T-3.8	---	---
TL05254X	2TNM-2.5X.45T-5	---	---
TL05255X	2TNM-2.5X.45T-6.3	---	---
TL05256X	2TNM-2.5X.45T-7.5	---	---
TL05032X	2TNM-3X.5T-3	---	---
TL05033X	2TNM-3X.5T-4.5	---	---
TL05034X	2TNM-3X.5T-6	---	---
TL05035X	2TNM-3X.5T-7.5	---	---
TL05036X	2TNM-3X.5T-9	---	---
TL05042X	2TNM-4X.7T-4	---	---
TL05043X	2TNM-4X.7T-6	---	---
TL05044X	2TNM-4X.7T-8	---	---
TL05045X	2TNM-4X.7T-10	---	---
TL05046X	2TNM-4X.7T-12	---	---
TL05052X	2TNM-5X.8T-5	---	---
TL05053X	2TNM-5X.8T-7.5	---	---
TL05054X	2TNM-5X.8T-10	---	---
TL05055X	2TNM-5X.8T-12.5	---	---
TL05056X	2TNM-5X.8T-15	---	---
TL05062X	2TNM-6X1T-6	---	---
TL05063X	2TNM-6X1T-9	---	---
TL05064X	2TNM-6X1T-12	---	---
TL05065X	2TNM-6X1T-15	---	---
TL05066X	2TNM-6X1T-18	---	---
TL05082X	2TNM-8X1.25T-8	---	---
TL05083X	2TNM-8X1.25T-12	---	---
TL05084X	2TNM-8X1.25T-16	---	---
TL05085X	2TNM-8X1.25T-20	---	---
TL05086X	2TNM-8X1.25T-24	---	---
TL05102X	2TNM-10X1.5T-10	---	---
TL05103X	2TNM-10X1.5P-15	---	---
TL05104X	2TNM-10X1.5T-20	---	---
TL05105X	2TNM-10X1.5T-25	---	---
TL05106X	2TNM-10X1.5T-30	---	---
TL05122X	2TNM-12X1.75T-12	---	---
TL05123X	2TNM-12X1.75T-18	---	---
TL05124X	2TNM-12X1.75T-24	---	---
TL05125X	2TNM-12X1.75T-30	---	---
TL05126X	2TNM-12X1.75T-36	---	---
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Heli-Coil® is a registered trademark of Newfrey LLC. CoilThread® is a registered trademark of Advanex Inc.



## Tangless FR (cont.)

### TANGLESS FREE RUNNING - STRIPFEED (SF)

THREAD SIZE	NOMINAL LENGTH (DIA)	RECOIL TANGLESS STRIPFEED PART NUMBER	KATO COILTHREAD TANGLESS STRIPFEED PART NUMBER	NA/NAS TANGLESS STRIPFEED PART NUMBER	HELICOIL TANGLESS STRIPFEED PART NUMBER
M2-0.4	1	TL05022SF	2TNM-2X.4C-2SF	---	---
	1.5	TL05023SF	2TNM-2X.4C-3SF	---	---
	2	TL05024SF	2TNM-2X.4C-4SF	---	---
M2.5-0.45	1	TL05252SF	2TNM-2.5X.45C-2.5SF	---	T1084-2.5C025S
	1.5	TL05253SF	2TNM-2.5X.45C-3.8SF	---	T1084-2.5C038S
	2	TL05254SF	2TNM-2.5X.45C-5SF	---	T1084-2.5C050S
	2.5	TL05255SF	2TNM-2.5X.45C-6.3SF	---	---
	3	TL05256SF	2TNM-2.5X.45C-7.5SF	---	---
M3-0.5	1	TL05032SF	2TNM-3X.5C-3SF	---	T1084-3C030S
	1.5	TL05033SF	2TNM-3X.5C-4.5SF	---	T1084-3C045S
	2	TL05034SF	2TNM-3X.5C-6SF	---	T1084-3C060S
	2.5	TL05035SF	2TNM-3X.5C-7.5SF	---	---
	3	TL05036SF	2TNM-3X.5C-9SF	---	---
M4-0.7	1	TL05042SF	2TNM-4X.7C-4SF	---	T1084-4C040S
	1.5	TL05043SF	2TNM-4X.7C-6SF	---	T1084-4C060S
	2	TL05044SF	2TNM-4X.7C-8SF	---	T1084-4C080S
	2.5	TL05045SF	2TNM-4X.7C-10SF	---	---
	3	TL05046SF	2TNM-4X.7C-12SF	---	---
M5-0.8	1	TL05052SF	2TNM-5X.8C-5SF	---	T1084-5C050S
	1.5	TL05053SF	2TNM-5X.8C-7.5SF	---	T1084-5C075S
	2	TL05054SF	2TNM-5X.8C-10SF	---	T1084-5C100S
	2.5	TL05055SF	2TNM-5X.8C-12.5SF	---	---
	3	TL05056SF	2TNM-5X.8C-15SF	---	---
M6-1	1	TL05062SF	2TNM-6X1C-6SF	---	T1084-6C060S
	1.5	TL05063SF	2TNM-6X1C-9SF	---	T1084-6C090S
	2	TL05064SF	2TNM-6X1C-12SF	---	T1084-6C120S
	2.5	TL05065SF	2TNM-6X1C-15SF	---	---
	3	TL05066SF	2TNM-6X1C-18SF	---	---
M8-1.25	1	TL05082SF	2TNM-8X1.25C-8SF	---	---
	1.5	TL05083SF	2TNM-8X1.25C-12SF	---	---
	2	TL05084SF	2TNM-8X1.25C-16SF	---	---
	2.5	TL05085SF	2TNM-8X1.25C-20SF	---	---
	3	TL05086SF	2TNM-8X1.25C-24SF	---	---
M10-1.5	1	TL05102SF	2TNM-10X1.5C-10SF	---	---
	1.5	TL05103SF	2TNM-10X1.5C-15SF	---	---
	2	TL05104SF	2TNM-10X1.5C-20SF	---	---
	2.5	TL05105SF	2TNM-10X1.5C-25SF	---	---
	3	TL05106SF	2TNM-10X1.5C-30SF	---	---
M12-1.75	1	TL05122SF	---	---	---
	1.5	TL05123SF	---	---	---
	2	TL05124SF	---	---	---
	2.5	TL05125SF	---	---	---
	3	TL05126SF	---	---	---
M14-2	1	---	---	---	---
	1.5	---	---	---	---
	2	---	---	---	---
	2.5	---	---	---	---
	3	---	---	---	---
M16-2	1	---	---	---	---
	1.5	---	---	---	---
	2	---	---	---	---
	2.5	---	---	---	---
	3	---	---	---	---

### TANGLESS FREE RUNNING - CAD PLATED (C)

RECOIL TANGLESS CAD PLATED PART NUMBER	KATO COILTHREAD TANGLESS CAD PLATED PART NUMBER	NA/NAS TANGLESS CAD PLATED PART NUMBER	HELICOIL® TANGLESS CAD PLATED PART NUMBER
METRIC			
TL05022C	2TNM-2X.4C-2Y	---	---
TL05023C	2TNM-2X.4C-3Y	---	---
TL05024C	2TNM-2X.4C-4Y	---	---
TL05252C	2TNM-2.5X.45C-2.5Y	NA0276M2A-10P	T1084-2.5C025Y
TL05253C	2TNM-2.5X.45C-3.8Y	NA0276M2A-15P	T1084-2.5C038Y
TL05254C	2TNM-2.5X.45C-5Y	NA0276M2A-20P	T1084-2.5C050Y
TL05255C	2TNM-2.5X.45C-6.3Y	NA0276M2A-25P	---
TL05256C	2TNM-2.5X.45C-7.5Y	NA0276M2A-30P	---
TL05032C	2TNM-3X.5C-3Y	NA0276M3-10P	T1084-3C030Y
TL05033C	2TNM-3X.5C-4.5Y	NA0276M3-15P	T1084-3C045Y
TL05034C	2TNM-3X.5C-6Y	NA0276M3-20P	T1084-3C060Y
TL05035C	2TNM-3X.5C-7.5Y	NA0276M3-25P	---
TL05036C	2TNM-3X.5C-9Y	NA0276M3-30P	---
TL05042C	2TNM-4X.7C-4Y	NA0276M4-10P	T1084-4C040Y
TL05043C	2TNM-4X.7C-6Y	NA0276M4-15P	T1084-4C060Y
TL05044C	2TNM-4X.7C-8Y	NA0276M4-20P	T1084-4C080Y
TL05045C	2TNM-4X.7C-10Y	NA0276M4-25P	---
TL05046C	2TNM-4X.7C-12Y	NA0276M4-30P	---
TL05052C	2TNM-5X.8C-5Y	NA0276M5-10P	T1084-5C050Y
TL05053C	2TNM-5X.8C-7.5Y	NA0276M5-15P	T1084-5C075Y
TL05054C	2TNM-5X.8C-10Y	NA0276M5-20P	T1084-5C100Y
TL05055C	2TNM-5X.8C-12.5Y	NA0276M5-25P	---
TL05056C	2TNM-5X.8C-15Y	NA0276M5-30P	---
TL05062C	2TNM-6X1C-6Y	NA0276M6-10P	T1084-6C060Y
TL05063C	2TNM-6X1C-9Y	NA0276M6-15P	T1084-6C090Y
TL05064C	2TNM-6X1C-12Y	NA0276M6-20P	T1084-6C120Y
TL05065C	2TNM-6X1C-15Y	NA0276M6-25P	---
TL05066C	2TNM-6X1C-18Y	NA0276M6-30P	---
TL05082C	2TNM-8X1.25C-8Y	NA0276M8-10P	---
TL05083C	2TNM-8X1.25C-12Y	NA0276M8-15P	---
TL05084C	2TNM-8X1.25C-16Y	NA0276M8-20P	---
TL05085C	2TNM-8X1.25C-20Y	NA0276M8-25P	---
TL05086C	2TNM-8X1.25C-24Y	NA0276M8-30P	---
TL05102C	2TNM-10X1.5C-10Y	NA0276M10-10P	---
TL05103C	2TNM-10X1.5C-15Y	NA0276M10-15P	---
TL05104C	2TNM-10X1.5C-20Y	NA0276M10-20P	---
TL05105C	2TNM-10X1.5C-25Y	NA0276M10-25P	---
TL05106C	2TNM-10X1.5C-30Y	NA0276M10-30P	---
TL05122C	2TNM-12X1.75C-12Y	NA0276M12-10P	---
TL05123C	2TNM-12X1.75C-18Y	NA0276M12-15P	---
TL05124C	2TNM-12X1.75C-24Y	NA0276M12-20P	---
TL05125C	2TNM-12X1.75C-30Y	NA0276M12-25P	---
TL05126C	2TNM-12X1.75C-36Y	NA0276M12-30P	---
TL05142C	---	---	---
TL05143C	---	---	---
TL05144C	---	---	---
TL05145C	---	---	---
TL05146C	---	---	---
TL05162C	---	---	---
TL05163C	---	---	---
TL05164C	---	---	---
TL05165C	---	---	---
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### TANGLESS FREE RUNNING - DRY FIL LUBE (D)

RECOIL TANGLESS DRY FIL LUBE PART NUMBER	KATO COILTHREAD TANGLESS DRY FIL LUBE PART NUMBER	NA/NAS TANGLESS DRY FIL LUBE PART NUMBER	HELICOIL® TANGLESS DRY FIL LUBE PART NUMBER
TL05022D	2TNM-2X.4C-2W	---	---
TL05023D	2TNM-2X.4C-3W	---	---
TL05024D	2TNM-2X.4C-4W	---	---
TL05252D	2TNM-2.5X.45C-2.5W	NA0276M2A-10D	T1084-2.5C025W
TL05253D	2TNM-2.5X.45C-3.8W	NA0276M2A-15D	T1084-2.5C038W
TL05254D	2TNM-2.5X.45C-5W	NA0276M2A-20D	T1084-2.5C050W
TL05255D	2TNM-2.5X.45C-6.3W	NA0276M2A-25D	---
TL05256D	2TNM-2.5X.45C-7.5W	NA0276M2A-30D	---
TL05032D	2TNM-3X.5C-3W	NA0276M3-10D	T1084-3C030W
TL05033D	2TNM-3X.5C-4.5W	NA0276M3-15D	T1084-3C045W
TL05034D	2TNM-3X.5C-6W	NA0276M3-20D	T1084-3C060W
TL05035D	2TNM-3X.5C-7.5W	NA0276M3-25D	---
TL05036D	2TNM-3X.5C-9W	NA0276M3-30D	---
TL05042D	2TNM-4X.7C-4W	NA0276M4-10D	T1084-4C040W
TL05043D	2TNM-4X.7C-6W	NA0276M4-15D	T1084-4C060W
TL05044D	2TNM-4X.7C-8W	NA0276M4-20D	T1084-4C080W
TL05045D	2TNM-4X.7C-10W	NA0276M4-25D	---
TL05046D	2TNM-4X.7C-12W	NA0276M4-30D	---
TL05052D	2TNM-5X.8C-5W	NA0276M5-10D	T1084-5C050W
TL05053D	2TNM-5X.8C-7.5W	NA0276M5-15D	T1084-5C075W
TL05054D	2TNM-5X.8C-10W	NA0276M5-20D	T1084-5C100W
TL05055D	2TNM-5X.8C-12.5W	NA0276M5-25D	---
TL05056D	2TNM-5X.8C-15W	NA0276M5-30D	---
TL05062D	2TNM-6X1C-6W	NA0276M6-10D	T1084-6C060W
TL05063D	2TNM-6X1C-9W	NA0276M6-15D	T1084-6C090W
TL05064D	2TNM-6X1C-12W	NA0276M6-20D	T1084-6C120W
TL05065D	2TNM-6X1C-15W	NA0276M6-25D	---
TL05066D	2TNM-6X1C-18W	NA0276M6-30D	---
TL05082D	2TNM-8X1.25C-8W	NA0276M8-10D	---
TL05083D	2TNM-8X1.25C-12W	NA0276M8-15D	---
TL05084D	2TNM-8X1.25C-16W	NA0276M8-20D	---
TL05085D	2TNM-8X1.25C-20W	NA0276M8-25D	---
TL05086D	2TNM-8X1.25C-24W	NA0276M8-30D	---
TL05102D	2TNM-10X1.5C-10W	NA0276M10-10D	---
TL05103D	2TNM-10X1.5C-15W	NA0276M10-15D	---
TL05104D	2TNM-10X1.5C-20W	NA0276M10-20D	---
TL05105D	2TNM-10X1.5C-25W	NA0276M10-25D	---
TL05106D	2TNM-10X1.5C-30W	NA0276M10-30D	---
TL05122D	2TNM-12X1.75C-12W	NA0276M12-10D	---
TL05123D	2TNM-12X1.75C-18W	NA0276M12-15D	---
TL05124D	2TNM-12X1.75C-24W	NA0276M12-20D	---
TL05125D	2TNM-12X1.75C-30W	NA0276M12-25D	---
TL05126D	2TNM-12X1.75C-36W	NA0276M12-30D	---
TL05142D	---	---	---
TL05143D	---	---	---
TL05144D	---	---	---
TL05145D	---	---	---
TL05146D	---	---	---
TL05162D	---	---	---
TL05163D	---	---	---
TL05164D	---	---	---
TL05165D	---	---	---
---	---	---	---



Tangless FR (cont.)

TANGLESS UNIFIED COARSE - FREE RUNNING - 304 STAINLESS STEEL

THREAD SIZE	NOMINAL LENGTH (DIA)	RECOIL PART NUMBER	KATO COILTHREAD TANGLESS PART NUMBER	NA/NAS TANGLESS PART NUMBER	HELICOIL PART NUMBER	BOLHOFF PART NUMBER
UNIFIED COARSE						
#2-56	1	TL03522	2TNC-02C-0086	NAS1130-02-10	T1185-02C086	---
	1.5	TL03523	2TNC-02C-0129	NAS1130-02-15	T1185-02C129	---
	2	TL03524	2TNC-02C-0172	NAS1130-02-20	T1185-02C172	---
	2.5	TL03525	2TNC-02C-0215	NAS1130-02-25	---	---
	3	TL03526	2TNC-02C-0258	NAS1130-02-30	---	---
#4-40	1	TL03542	2TNC-04C-0112	NAS1130-04-10	T1185-04C112	5130 065 6004
	1.5	TL03543	2TNC-04C-0168	NAS1130-04-15	T1185-04C168	5130 065 6006
	2	TL03544	2TNC-04C-0224	NAS1130-04-20	T1185-04C224	5130 065 6008
	2.5	TL03545	2TNC-04C-0280	NAS1130-04-25	---	---
	3	TL03546	2TNC-04C-0336	NAS1130-04-30	---	---
#6-32	1	TL03562	2TNC-06C-0138	NAS1130-06-10	T1185-06C138	5130 067 6004
	1.5	TL03563	2TNC-06C-0207	NAS1130-06-15	T1185-06C207	5130 067 6006
	2	TL03564	2TNC-06C-0276	NAS1130-06-20	T1185-06C276	5130 067 6008
	2.5	TL03565	2TNC-06C-0345	NAS1130-06-25	---	---
	3	TL03566	2TNC-06C-0414	NAS1130-06-30	---	---
#8-32	1	TL03582	2TNC-2C-0164	NAS1130-08-10	T1185-2C164	5130 068 6004
	1.5	TL03583	2TNC-2C-0246	NAS1130-08-15	T1185-2C246	5130 068 6006
	2	TL03584	2TNC-2C-0328	NAS1130-08-20	T1185-2C328	5130 068 6008
	2.5	TL03585	2TNC-2C-0410	NAS1130-08-25	---	---
	3	TL03586	2TNC-2C-0492	NAS1130-08-30	---	---
#10-24	1	TL03602	2TNC-3C-0190	NAS1130-3C-10	T1185-3C190	---
	1.5	TL03603	2TNC-3C-0285	NAS1130-3C-15	T1185-3C285	---
	2	TL03604	2TNC-3C-0380	NAS1130-3C-20	T1185-3C380	---
	2.5	TL03605	2TNC-3C-0475	NAS1130-3C-25	---	---
	3	TL03606	2TNC-3C-0570	NAS1130-3C-30	---	---
1/4-20	1	TL03042	2TNC-4C-0250	NAS1130-4-10	T1185-4C250	5130 074 6004
	1.5	TL03043	2TNC-4C-0375	NAS1130-4-15	T1185-4C375	5130 074 6006
	2	TL03044	2TNC-4C-0500	NAS1130-4-20	T1185-4C500	5130 074 6008
	2.5	TL03045	2TNC-4C-0625	NAS1130-4-25	---	---
	3	TL03046	2TNC-4C-0750	NAS1130-4-30	---	---
5/16-18	1	TL03052	2TNC-5C-0312	NAS1130-5C-10	---	---
	1.5	TL03053	2TNC-5C-0469	NAS1130-5C-15	---	---
	2	TL03054	2TNC-5C-0625	NAS1130-5C-20	---	---
	2.5	TL03055	2TNC-5C-0781	NAS1130-5C-25	---	---
	3	TL03056	2TNC-5C-0938	NAS1130-5C-30	---	---
3/8-16	1	TL03062	2TNC-6C-0375	NAS1130-6C-10	---	---
	1.5	TL03063	2TNC-6C-0562	NAS1130-6C-15	---	---
	2	TL03064	2TNC-6C-0750	NAS113-06C-20	---	---
	2.5	TL03065	2TNC-6C-0938	NAS113-06C-25	---	---
	3	TL03066	---	---	---	---
1/2-13	1	TL03082	---	---	---	---
	1.5	TL03083	---	---	---	---
	2	TL03084	---	---	---	---
	2.5	TL03085	---	---	---	---
	3	TL03086	---	---	---	---

TANGLESS UNIFIED COARSE - FREE RUNNING - NITRONIC 60 (T)

RECOIL TANGLESS NITRONIC 60 PART NUMBER	KATO COILTHREAD TANGLESS NITRONIC 60 PART NUMBER	NA/NAS TANGLESS NITRONIC 60 PART NUMBER	HELICOIL® NITRONIC 60 PART NUMBER
TL03522T	2TNC-02N-0086	---	T1185-02E086
TL03523T	2TNC-02N-0129	---	T1185-02E129
TL03524T	2TNC-02N-0172	---	T1185-02E172
TL03525T	2TNC-02N-0215	---	---
TL03526T	2TNC-02N-0258	---	---
TL03542T	2TNC-04N-0112	---	T1185-04E112
TL03543T	2TNC-04N-0168	---	T1185-04E168
TL03544T	2TNC-04N-0224	---	T1185-04E224
TL03545T	2TNC-04N-0280	---	---
TL03546T	2TNC-04N-0336	---	---
TL03562T	2TNC-06N-0138	---	T1185-06E138
TL03563T	2TNC-06N-0207	---	T1185-06E207
TL03564T	2TNC-06N-0276	---	T1185-06E276
TL03565T	2TNC-06N-0345	---	---
TL03566T	2TNC-06N-0414	---	---
TL03582T	2TNC-2N-0164	---	T1185-2E164
TL03583T	2TNC-2N-0246	---	T1185-2E246
TL03584T	2TNC-2N-0328	---	T1185-2E328
TL03585T	2TNC-2N-0410	---	---
TL03586T	2TNC-2N-0492	---	---
TL03602T	2TNC-3N-0190	---	T1185-3E190
TL03603T	2TNC-3N-0285	---	T1185-3E285
TL03604T	2TNC-3N-0380	---	T1185-3E380
TL03605T	2TNC-3N-0475	---	---
TL03606T	2TNC-3N-0570	---	---
TL03042T	2TNC-4N-0250	---	T1185-4E250
TL03043T	2TNC-4N-0375	---	T1185-4E375
TL03044T	2TNC-4N-0500	---	T1185-4E500
TL03045T	2TNC-4N-0625	---	---
TL03046T	2TNC-4N-0750	---	---
TL03052T	2TNC-5N-0312	---	---
TL03053T	2TNC-5N-0469	---	---
TL03054T	2TNC-5N-0625	---	---
TL03055T	2TNC-5N-0781	---	---
TL03056T	2TNC-5N-0938	---	---
TL03062T	2TNC-6N-0375	---	---
TL03063T	2TNC-6N-0562	---	---
TL03064T	2TNC-6N-0750	---	---
TL03065T	2TNC-6N-0938	---	---
TL03066T	---	---	---
TL03082T	---	---	---
TL03083T	---	---	---
TL03084T	---	---	---
TL03085T	---	---	---
TL03086T	---	---	---



Tangless FR (cont.)

TANGLESS UNIFIED COARSE - FREE RUNNING - PHOSPHOR BRONZE (P)

THREAD SIZE	NOMINAL LENGTH (DIA)	RECOIL TANGLESS PHOSPHOR BRONZE PART NUMBER	KATO COILTHREAD TANGLESS PHOSPHOR BRONZE PART NUMBER	NA/NAS TANGLESS PHOSPHOR BRONZE PART NUMBER	HELICOIL TANGLESS PHOSPHOR BRONZE PART NUMBER
UNIFIED COARSE					
#2-56	1	TL03522P	2TNC-02P-0086	---	---
	1.5	TL03523P	2TNC-02P-0129	---	---
	2	TL03524P	2TNC-02P-0172	---	---
	2.5	TL03525P	2TNC-02P-0215	---	---
	3	TL03526P	2TNC-02P-0258	---	---
#4-40	1	TL03542P	2TNC-04P-0112	---	---
	1.5	TL03543P	2TNC-04P-0168	---	---
	2	TL03544P	2TNC-04P-0224	---	---
	2.5	TL03545P	2TNC-04P-0280	---	---
	3	TL03546P	2TNC-04P-0336	---	---
#6-32	1	TL03562P	2TNC-06P-0138	---	---
	1.5	TL03563P	2TNC-06P-0207	---	---
	2	TL03564P	2TNC-06P-0276	---	---
	2.5	TL03565P	2TNC-06P-0345	---	---
	3	TL03566P	2TNC-06P-0414	---	---
#8-32	1	TL03582P	2TNC-2P-0164	---	---
	1.5	TL03583P	2TNC-2P-0246	---	---
	2	TL03584P	2TNC-2P-0328	---	---
	2.5	TL03585P	2TNC-2P-0410	---	---
	3	TL03586P	2TNC-2P-0492	---	---
#10-24	1	TL03602P	2TNC-3P-0190	---	---
	1.5	TL03603P	2TNC-3P-0285	---	---
	2	TL03604P	2TNC-3P-0380	---	---
	2.5	TL03605P	2TNC-3P-0475	---	---
	3	TL03606P	2TNC-3P-0570	---	---
1/4-20	1	TL03042P	2TNC-4P-0250	---	---
	1.5	TL03043P	2TNC-4P-0375	---	---
	2	TL03044P	2TNC-4P-0500	---	---
	2.5	TL03045P	2TNC-4P-0625	---	---
	3	TL03046P	2TNC-4P-0750	---	---
5/16-18	1	TL03052P	2TNC-5P-0312	---	---
	1.5	TL03053P	2TNC-5P-0469	---	---
	2	TL03054P	2TNC-5P-0625	---	---
	2.5	TL03055P	2TNC-5P-0781	---	---
	3	TL03056P	2TNC-5P-0938	---	---
3/8-16	1	TL03062P	2TNC-6P-0375	---	---
	1.5	TL03063P	2TNC-6P-0562	---	---
	2	TL03064P	2TNC-6P-0750	---	---
	2.5	TL03065P	2TNC-6P-0938	---	---
	3	TL03066P	---	---	---
1/2-13	1	TL03082P	---	---	---
	1.5	TL03083P	---	---	---
	2	TL03084P	---	---	---
	2.5	TL03085P	---	---	---
	3	TL03086P	---	---	---

TANGLESS UNIFIED COARSE - FREE RUNNING - INCONEL X750 (X)

RECOIL TANGLESS INCONEL X750 PART NUMBER	KATO COILTHREAD TANGLESS INCONEL X750 PART NUMBER	NA/NAS TANGLESS INCONEL X750 PART NUMBER	HELICOIL® TANGLESS INCONEL X750 PART NUMBER
TL03522X	2TNC-02T-0086	---	---
TL03523X	2TNC-02T-0129	---	---
TL03524X	2TNC-02T-0172	---	---
TL03525X	2TNC-02T-0215	---	---
TL03526X	2TNC-02T-0258	---	---
TL03542X	2TNC-04T-0112	---	---
TL03543X	2TNC-04T-0168	---	---
TL03544X	2TNC-04T-0224	---	---
TL03545X	2TNC-04T-0280	---	---
TL03546X	2TNC-04T-0336	---	---
TL03562X	2TNC-06T-0138	---	---
TL03563X	2TNC-06T-0207	---	---
TL03564X	2TNC-06T-0276	---	---
TL03565X	2TNC-06T-0345	---	---
TL03566X	2TNC-06T-0414	---	---
TL03582X	2TNC-2T-0164	---	---
TL03583X	2TNC-2T-0246	---	---
TL03584X	2TNC-2T-0328	---	---
TL03585X	2TNC-2T-0410	---	---
TL03586X	2TNC-2T-0492	---	---
TL03602X	2TNC-3T-0190	---	---
TL03603X	2TNC-3T-0285	---	---
TL03604X	2TNC-3T-0380	---	---
TL03605X	2TNC-3T-0475	---	---
TL03606X	2TNC-3T-0570	---	---
TL03042X	2TNC-4T-0250	---	---
TL03043X	2TNC-4T-0375	---	---
TL03044X	2TNC-4T-0500	---	---
TL03045X	2TNC-4T-0625	---	---
TL03046X	2TNC-4T-0750	---	---
TL03052X	2TNC-5T-0312	---	---
TL03053X	2TNC-5T-0469	---	---
TL03054X	2TNC-5T-0625	---	---
TL03055X	2TNC-5T-0781	---	---
TL03056X	2TNC-5T-0938	---	---
TL03062X	2TNC-6T-0375	---	---
TL03063X	2TNC-6T-0562	---	---
TL03064X	2TNC-6T-0750	---	---
TL03065X	2TNC-6T-0938	---	---
TL03066X	---	---	---
TL03082X	---	---	---
TL03083X	---	---	---
TL03084X	---	---	---
TL03085X	---	---	---
TL03086X	---	---	---



## Tangless FR (cont.)

TANGLESS UNIFIED COARSE - FREE RUNNING - STRIPFEED (SF)

THREAD SIZE	NOMINAL LENGTH (DIA)	RECOIL TANGLESS STRIPFEED PART NUMBER	KATO COILTHREAD TANGLESS STRIPFEED PART NUMBER	NA/NAS TANGLESS STRIPFEED PART NUMBER	HELICOIL TANGLESS STRIPFEED PART NUMBER
#2-56	1	TL03522SF	2CNC-02C-0086SF	---	T1185-02E086S
	1.5	TL03523SF	2CNC-02C-0129SF	---	T1185-02E129S
	2	TL03524SF	2CNC-02C-0172SF	---	T1185-02E172S
	2.5	TL03525SF	2CNC-02C-0215SF	---	---
	3	TL03526SF	2CNC-02C-0258SF	---	---
#4-40	1	TL03542SF	2CNC-04C-0112SF	---	T1185-04E112S
	1.5	TL03543SF	2CNC-04C-0168SF	---	T1185-04E168S
	2	TL03544SF	2CNC-04C-0224SF	---	T1185-04E224S
	2.5	TL03545SF	2CNC-04C-0280SF	---	---
#6-32	1	TL03562SF	2CNC-06C-0138SF	---	T1185-06E138S
	1.5	TL03563SF	2CNC-06C-0207SF	---	T1185-06E207S
	2	TL03564SF	2CNC-06C-0276SF	---	T1185-06E276S
	2.5	TL03565SF	2CNC-06C-0345SF	---	---
#8-32	1	TL03582SF	2CNC-06C-0414SF	---	---
	1.5	TL03583SF	2CNC-2C-0164SF	---	T1185-2E164S
	1.5	TL03583SF	2CNC-2C-0246SF	---	T1185-2E246S
	2	TL03584SF	2CNC-2C-0328SF	---	T1185-2E328S
#10-24	2.5	TL03585SF	2CNC-2C-0410SF	---	---
	3	TL03586SF	2CNC-2C-0492SF	---	---
	1	TL03602SF	2CNC-3C-0190SF	---	T1185-3E190S
	1.5	TL03603SF	2CNC-3C-0285SF	---	T1185-3E285S
1/4-20	2	TL03604SF	2CNC-3C-0380SF	---	T1185-3E380S
	2.5	TL03605SF	2CNC-3C-0475SF	---	---
	3	TL03606SF	2CNC-3C-0570SF	---	---
	1	TL03042SF	2CNC-4C-0250SF	---	T1185-4E250S
5/16-18	1.5	TL03043SF	2CNC-4C-0375SF	---	T1185-4E375S
	2	TL03044SF	2CNC-4C-0500SF	---	T1185-4E500S
	2.5	TL03045SF	2CNC-4C-0625SF	---	---
	3	TL03046SF	2CNC-4C-0750SF	---	---
3/8-16	1	TL03052SF	---	---	---
	1.5	TL03053SF	---	---	---
	2	TL03054SF	---	---	---
	2.5	TL03055SF	---	---	---
	3	TL03056SF	---	---	---
1/2-13	1	TL03062SF	---	---	---
	1.5	TL03063SF	---	---	---
	2	TL03064SF	---	---	---
	2.5	---	---	---	---
	3	---	---	---	---

TANGLESS UNIFIED COARSE - FREE RUNNING - CAD PLATED (C)

RECOIL TANGLESS CAD PLATED PART NUMBER	KATO COILTHREAD TANGLESS CAD PLATED PART NUMBER	NA/NAS TANGLESS CAD PLATED PART NUMBER	HELICOIL® TANGLESS CAD PLATED PART NUMBER
UNIFIED COARSE			
TL03522C	2CNC-02C-0086Y	NAS1130-02-10P	T1185-02E086Y
TL03523C	2CNC-02C-0129Y	NAS1130-02-15P	T1185-02E129Y
TL03524C	2CNC-02C-0172Y	NAS1130-02-20P	T1185-02E172Y
TL03525C	2CNC-02C-0215Y	NAS1130-02-25P	---
TL03526C	2CNC-02C-0258Y	NAS1130-02-30P	---
TL03542C	2CNC-04C-0112Y	NAS1130-04-10P	T1185-04E112Y
TL03543C	2CNC-04C-0168Y	NAS1130-04-15P	T1185-04E168Y
TL03544C	2CNC-04C-0224Y	NAS1130-04-20P	T1185-04E224Y
TL03545C	2CNC-04C-0280Y	NAS1130-04-25P	---
TL03546C	2CNC-04C-0336Y	NAS1130-04-30P	---
TL03562C	2CNC-06C-0138Y	NAS1130-06-10P	T1185-06E138Y
TL03563C	2CNC-06C-0207Y	NAS1130-06-15P	T1185-06E207Y
TL03564C	2CNC-06C-0276Y	NAS1130-06-20P	T1185-06E276Y
TL03565C	2CNC-06C-0345Y	NAS1130-06-25P	---
TL03566C	2CNC-06C-0414Y	NAS1130-06-30P	---
TL03582C	2CNC-2C-0164Y	NAS1130-08-10P	T1185-2E164Y
TL03583C	2CNC-2C-0246Y	NAS1130-08-15P	T1185-2E246Y
TL03584C	2CNC-2C-0328Y	NAS1130-08-20P	T1185-2E328Y
TL03585C	2CNC-2C-0410Y	NAS1130-08-25P	---
TL03586C	2CNC-2C-0492Y	NAS1130-08-30P	---
TL03602C	2CNC-3C-0190Y	NAS1130-3C-10P	T1185-3E190Y
TL03603C	2CNC-3C-0285Y	NAS1130-3C-15P	T1185-3E285Y
TL03604C	2CNC-3C-0380Y	NAS1130-3C-20P	T1185-3E380Y
TL03605C	2CNC-3C-0475Y	NAS1130-3C-25P	---
TL03606C	2CNC-3C-0570Y	NAS1130-3C-30P	---
TL03042C	2CNC-4C-0250Y	NAS1130-4-10P	T1185-4E250Y
TL03043C	2CNC-4C-0375Y	NAS1130-4-15P	T1185-4E375Y
TL03044C	2CNC-4C-0500Y	NAS1130-4-20P	T1185-4E500Y
TL03045C	2CNC-4C-0625Y	NAS1130-4-25P	---
TL03046C	2CNC-4C-0750Y	NAS1130-4-30P	---
TL03052C	2CNC-5C-0312Y	NAS1130-5C-10P	---
TL03053C	2CNC-5C-0469Y	NAS1130-5C-15P	---
TL03054C	2CNC-5C-0625Y	NAS1130-5C-20P	---
TL03055C	2CNC-5C-0781Y	NAS1130-5C-25P	---
TL03056C	2CNC-5C-0938Y	NAS1130-5C-30P	---
TL03062C	2CNC-6C-0375Y	NAS1130-6C-10P	---
TL03063C	2CNC-6C-0562Y	NAS1130-6C-15P	---
TL03064C	2CNC-6C-0750Y	NAS113-06C-20P	---
TL03065C	2CNC-6C-0938Y	NAS113-06C-25P	---
TL03066C	---	---	---
TL03082C	---	---	---
TL03083C	---	---	---
TL03084C	---	---	---
TL03085C	---	---	---
TL03086C	---	---	---

TANGLESS UNIFIED COARSE - FREE RUNNING - DRY FILM LUBE (D)

RECOIL TANGLESS DRY FILM LUBE PART NUMBER	KATO COILTHREAD TANGLESS DRY FILM LUBE PART NUMBER	NA/NAS TANGLESS DRY FILM LUBE PART NUMBER	HELICOIL® TANGLESS DRY FILM LUBE PART NUMBER
TL03522D	2CNC-02C-0086W	NAS1130-02-10D	T1185-02CW086
TL03523D	2CNC-02C-0129W	NAS1130-02-15D	T1185-02CW129
TL03524D	2CNC-02C-0172W	NAS1130-02-20D	T1185-02CW172
TL03525D	2CNC-02C-0215W	NAS1130-02-25D	---
TL03526D	2CNC-02C-0258W	NAS1130-02-30D	---
TL03542D	2CNC-04C-0112W	NAS1130-04-10D	T1185-04CW112
TL03543D	2CNC-04C-0168W	NAS1130-04-15D	T1185-04CW168
TL03544D	2CNC-04C-0224W	NAS1130-04-20D	T1185-04CW224
TL03545D	2CNC-04C-0280W	NAS1130-04-25D	---
TL03546D	2CNC-04C-0336W	NAS1130-04-30D	---
TL03562D	2CNC-06C-0138W	NAS1130-06-10D	T1185-06CW138
TL03563D	2CNC-06C-0207W	NAS1130-06-15D	T1185-06CW207
TL03564D	2CNC-06C-0276W	NAS1130-06-20D	T1185-06CW276
TL03565D	2CNC-06C-0345W	NAS1130-06-25D	---
TL03566D	2CNC-06C-0414W	NAS1130-06-30D	---
TL03582D	2CNC-2C-0164W	NAS1130-08-10D	T1185-2CW164
TL03583D	2CNC-2C-0246W	NAS1130-08-15D	T1185-2CW246
TL03584D	2CNC-2C-0328W	NAS1130-08-20D	T1185-2CW328
TL03585D	2CNC-2C-0410W	NAS1130-08-25D	---
TL03586D	2CNC-2C-0492W	NAS1130-08-30D	---
TL03602D	2CNC-3C-0190W	NAS1130-3C-10D	T1185-3CW190
TL03603D	2CNC-3C-0285W	NAS1130-3C-15D	T1185-3CW285
TL03604D	2CNC-3C-0380W	NAS1130-3C-20D	T1185-3CW380
TL03605D	2CNC-3C-0475W	NAS1130-3C-25D	---
TL03606D	2CNC-3C-0570W	NAS1130-3C-30D	---
TL03042D	2CNC-4C-0250W	NAS1130-4-10D	T1185-4CW250
TL03043D	2CNC-4C-0375W	NAS1130-4-15D	T1185-4CW375
TL03044D	2CNC-4C-0500W	NAS1130-4-20D	T1185-4CW500
TL03045D	2CNC-4C-0625W	NAS1130-4-25D	---
TL03046D	2CNC-4C-0750W	NAS1130-4-30D	---
TL03052D	2CNC-5C-0312W	NAS1130-5C-10D	---
TL03053D	2CNC-5C-0469W	NAS1130-5C-15D	---
TL03054D	2CNC-5C-0625W	NAS1130-5C-20D	---
TL03055D	2CNC-5C-0781W	NAS1130-5C-25D	---
TL03056D	2CNC-5C-0938W	NAS1130-5C-30D	---
TL03062D	2CNC-6C-0375W	NAS1130-6C-10D	---
TL03063D	2CNC-6C-0562W	NAS1130-6C-15D	---
TL03064D	2CNC-6C-0750W	NAS113-06C-20D	---
TL03065D	2CNC-6C-0938W	NAS113-06C-25D	---
TL03066D	---	---	---
TL03082D	---	---	---
TL03083D	---	---	---
TL03084D	---	---	---
TL03085D	---	---	---
TL03086D	---	---	---



Tangless FR (cont.)

TANGLESS UNIFIED FINE - FREE RUNNING - 304 STAINLESS STEEL

THREAD SIZE	NOMINAL LENGTH (DIA)	RECOIL PART NUMBER	KATO COILTHREAD TANGLESS PART NUMBER	NA/NAS TANGLESS PART NUMBER	HELICOIL PART NUMBER	BOLHOFF PART NUMBER
UNIFIED FINE						
#10-32	1	TL04602	2TNF-3C-0190	NAS1130-3-10	T1191-3C190	5130 069 7004
	1.5	TL04603	2TNF-3C-0285	NAS1130-3-15	T1191-3C285	5130 069 7006
	2	TL04604	2TNF-3C-0380	NAS1130-3-20	T1191-3C380	5130 069 7008
	2.5	TL04605	2TNF-3C-0475	NAS1130-3-25	---	---
	3	TL04606	2TNF-3C-0570	NAS1130-3-30	---	---
1/4-28	1	TL04042	2TNF-4C-0250	NAS1130-4F-10	T1191-4C250	5130 074 7004
	1.5	TL04043	2TNF-4C-0375	NAS1130-4F-15	T1191-4C375	5130 074 7006
	2	TL04044	2TNF-4C-0500	NAS1130-4F-20	T1191-4C500	5130 074 7008
	2.5	TL04045	2TNF-4C-0625	NAS1130-4F-25	---	---
	3	TL04046	2TNF-4C-0750	NAS1130-4F-30	---	---
5/16-24	1	TL04052	2TNF-5C-0312	NAS1130-5F-10	---	---
	1.5	TL04053	2TNF-5C-0469	NAS1130-5F-15	---	---
	2	TL04054	2TNF-5C-0625	NAS1130-5F-20	---	---
	2.5	TL04055	2TNF-5C-0781	NAS1130-5F-25	---	---
	3	TL04056	---	---	---	---
3/8-24	1	TL04062	2TNF-6C-0375	NAS1130-6F-10	---	---
	1.5	TL04063	2TNF-6C-0562	NAS1130-6F-15	---	---
	2	TL04064	2TNF-6C-0750	NAS1130-6F-20	---	---
	2.5	---	---	---	---	---
	3	---	---	---	---	---

TANGLESS UNIFIED FINE - FREE RUNNING - NITRONIC 60 (T)

RECOIL TANGLESS NITRONIC 60 PART NUMBER	KATO COILTHREAD TANGLESS NITRONIC 60 PART NUMBER	NA/NAS TANGLESS NITRONIC 60 PART NUMBER	HELICOIL® NITRONIC 60 PART NUMBER
TL04602T	2TNF-3N-0190	---	T1191-3E190
TL04603T	2TNF-3N-0285	---	T1191-3E285
TL04604T	2TNF-3N-0380	---	T1191-3E380
TL04605T	2TNF-3N-0475	---	---
TL04606T	2TNF-3N-0570	---	---
TL04042T	2TNF-4N-0250	---	T1191-4E250
TL04043T	2TNF-4N-0375	---	T1191-4E375
TL04044T	2TNF-4N-0500	---	T1191-4E500
TL04045T	2TNF-4N-0625	---	---
TL04046T	2TNF-4N-0750	---	---
TL04052T	2TNF-5N-0312	---	---
TL04053T	2TNF-5N-0469	---	---
TL04054T	2TNF-5N-0625	---	---
TL04055T	2TNF-5N-0781	---	---
TL04056T	---	---	---
TL04062T	2TNF-6N-0375	---	---
TL04063T	2TNF-6N-0562	---	---
TL04064T	2TNF-6N-0750	---	---
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## Tangless FR (cont.)

### TANGLESS UNIFIED FINE - FREE RUNNING - PHOSPHOR BRONZE (P)

THREAD SIZE	NOMINAL LENGTH (DIA)	RECOIL TANGLESS PHOSPHOR BRONZE PART NUMBER	KATO COILTHREAD TANGLESS PHOSPHOR BRONZE PART NUMBER	NA/NAS TANGLESS PHOSPHOR BRONZE PART NUMBER	HELICOIL TANGLESS PHOSPHOR BRONZE PART NUMBER
UNIFIED FINE					
#10-32	1	TL04602P	2TNF-3P-0190	---	---
	1.5	TL04603P	2TNF-3P-0285	---	---
	2	TL04604P	2TNF-3P-0380	---	---
	2.5	TL04605P	2TNF-3P-0475	---	---
	3	TL04606P	2TNF-3P-0570	---	---
1/4-28	1	TL04042P	2TNF-4P-0250	---	---
	1.5	TL04043P	2TNF-4P-0375	---	---
	2	TL04044P	2TNF-4P-0500	---	---
	2.5	TL04045P	2TNF-4P-0625	---	---
	3	TL04046P	2TNF-4P-0750	---	---
5/16-24	1	TL04052P	2TNF-5P-0312	---	---
	1.5	TL04053P	2TNF-5P-0469	---	---
	2	TL04054P	2TNF-5P-0625	---	---
	2.5	TL04055P	2TNF-5P-0781	---	---
	3	TL04056P	---	---	---
3/8-24	1	TL04062P	2TNF-6P-0375	---	---
	1.5	TL04063P	2TNF-6P-0562	---	---
	2	TL04064P	2TNF-6P-0750	---	---
	2.5	---	---	---	---
	3	---	---	---	---

### TANGLESS UNIFIED FINE - FREE RUNNING - INCONEL X750 (X)

RECOIL TANGLESS INCONEL X750 PART NUMBER	KATO COILTHREAD TANGLESS INCONEL X750 PART NUMBER	NA/NAS TANGLESS INCONEL X750 PART NUMBER	HELICOIL® TANGLESS INCONEL X750 PART NUMBER
TL04602X	2TNF-3T-0190	---	---
TL04603X	2TNF-3T-0285	---	---
TL04604X	2TNF-3T-0380	---	---
TL04605X	2TNF-3T-0475	---	---
TL04606X	2TNF-3T-0570	---	---
TL04042X	2TNF-4T-0250	---	---
TL04043X	2TNF-4T-0375	---	---
TL04044X	2TNF-4T-0500	---	---
TL04045X	2TNF-4T-0625	---	---
TL04046X	2TNF-4T-0750	---	---
TL04052X	2TNF-5T-0312	---	---
TL04053X	2TNF-5T-0469	---	---
TL04054X	2TNF-5T-0625	---	---
TL04055X	2TNF-5T-0781	---	---
TL04056X	---	---	---
TL04062X	2TNF-6T-0375	---	---
TL04063X	2TNF-6T-0562	---	---
TL04064X	2TNF-6T-0750	---	---
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## Tangless FR (cont.)

### TANGLESS UNIFIED FINE - FREE RUNNING - STRIPFEED (SF)

THREAD SIZE	NOMINAL LENGTH (DIA)	RECOIL TANGLESS STRIPFEED PART NUMBER	KATO COILTHREAD TANGLESS STRIPFEED PART NUMBER	NA/NAS TANGLESS STRIPFEED PART NUMBER	HELICOIL TANGLESS STRIPFEED PART NUMBER
#10-32	1	TL04602SF	2TNF-3T-0190SF	---	T1191-3C190S
	1.5	TL04603SF	2TNF-3T-0285SF	---	T1191-3C285S
	2	TL04604SF	2TNF-3T-0380SF	---	T1191-3C380S
	2.5	TL04605SF	2TNF-3T-0475SF	---	---
	3	TL04606SF	2TNF-3T-0570SF	---	---
1/4-28	1	TL04042SF	2TNF-4T-0250SF	---	T1191-4C250S
	1.5	TL04043SF	2TNF-4T-0375SF	---	T1191-4C375S
	2	TL04044SF	2TNF-4T-0500SF	---	T1191-4C500S
	2.5	TL04045SF	2TNF-4T-0625SF	---	---
	3	TL04046SF	2TNF-4T-0750SF	---	---
5/16-24	1	TL04052SF	---	---	---
	1.5	TL04053SF	---	---	---
	2	TL04054SF	---	---	---
	2.5	TL04055SF	---	---	---
	3	---	---	---	---
3/8-24	1	TL04062SF	---	---	---
	1.5	TL04063SF	---	---	---
	2	TL04064SF	---	---	---
	2.5	---	---	---	---
	3	---	---	---	---

### TANGLESS UNIFIED FINE - FREE RUNNING - CAD PLATED (C)

RECOIL TANGLESS CAD PLATED PART NUMBER	KATO COILTHREAD TANGLESS CAD PLATED PART NUMBER	NA/NAS TANGLESS CAD PLATED PART NUMBER	HELICOIL® TANGLESS CAD PLATED PART NUMBER
UNIFIED FINE			
TL04602C	2TNF-3C-0190Y	---	T1191-3C190Y
TL04603C	2TNF-3C-0285Y	---	T1191-3C285Y
TL04604C	2TNF-3C-0380Y	---	T1191-3C380Y
TL04605C	2TNF-3C-0475Y	---	---
TL04606C	2TNF-3C-0570Y	---	---
TL04042C	2TNF-4C-0250Y	---	T1191-4C250Y
TL04043C	2TNF-4C-0375Y	---	T1191-4C375Y
TL04044C	2TNF-4C-0500Y	---	T1191-4C500Y
TL04045C	2TNF-4C-0625Y	---	---
TL04046C	2TNF-4C-0750Y	---	---
TL04052C	2TNF-5C-0312Y	---	---
TL04053C	2TNF-5C-0469Y	---	---
TL04054C	2TNF-5C-0625Y	---	---
TL04055C	2TNF-5C-0781Y	---	---
TL04056C	---	---	---
TL04062C	2TNF-6C-0375Y	---	---
TL04063C	2TNF-6C-0562Y	---	---
TL04064C	2TNF-6C-0750Y	---	---
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### TANGLESS UNIFIED FINE - FREE RUNNING - DRY FILM LUBE (D)

RECOIL TANGLESS DRY FILM LUBE PART NUMBER	KATO COILTHREAD TANGLESS DRY FILM LUBE PART NUMBER	NA/NAS TANGLESS DRY FILM LUBE PART NUMBER	HELICOIL® TANGLESS DRY FILM LUBE PART NUMBER
TL04602D	2TNF-3C-0190W	---	T1191-3C190W
TL04603D	2TNF-3C-0285W	---	T1191-3C285W
TL04604D	2TNF-3C-0380W	---	T1191-3C380W
TL04605D	2TNF-3C-0475W	---	---
TL04606D	2TNF-3C-0570W	---	---
TL04042D	2TNF-4C-0250W	---	T1191-4C250W
TL04043D	2TNF-4C-0375W	---	T1191-4C375W
TL04044D	2TNF-4C-0500W	---	T1191-4C500W
TL04045D	2TNF-4C-0625W	---	---
TL04046D	2TNF-4C-0750W	---	---
TL04052D	2TNF-5C-0312W	---	---
TL04053D	2TNF-5C-0469W	---	---
TL04054D	2TNF-5C-0625W	---	---
TL04055D	2TNF-5C-0781W	---	---
TL04056D	---	---	---
TL04062D	2TNF-6C-0375W	---	---
TL04063D	2TNF-6C-0562W	---	---
TL04064D	2TNF-6C-0750W	---	---
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## Metric Tangless Locking

### TANGLESS METRIC - LOCKING - 304 STAINLESS STEEL

THREAD SIZE	NOMINAL LENGTH (DIA)	RECOIL PART NUMBER	KATO COILTHREAD TANGLESS PART NUMBER	NA/NAS TANGLESS PART NUMBER	HELICOIL PART NUMBER	BOLHOFF PART NUMBER
<b>METRIC</b>						
M2.5-0.45	1	<b>TL15252</b>	2TLM-2.5X.45C-2.5	NA0276M2AL-10	T4184-2.5C025	
	1.5	<b>TL15253</b>	2TLM-2.5X.45C-3.8	NA0276M2AL-15	T4184-2.5C038	
	2	<b>TL15254</b>	2TLM-2.5X.45C-5	NA0276M2AL-20	T4184-2.5C050	
	2.5	<b>TL15255</b>	2TLM-2.5X.45C-6.3	NA0276M2AL-25	---	
	3	<b>TL15256</b>	2TLM-2.5X.45C-7.5	NA0276M2AL-30	---	
M3-0.5	1	<b>TL15032</b>	2TLM-3X.5C-3	NA0276M3LL-10	T4184-3C030	5132 003 0003
	1.5	<b>TL15033</b>	2TLM-3X.5C-4.5	NA0276M3L-15	T4184-3C045	5132 003 0045
	2	<b>TL15034</b>	2TLM-3X.5C-6	NA0276M3L-20	T4184-3C060	5132 003 0006
	2.5	<b>TL15035</b>	2TLM-3X.5C-9	NA0276M3L-25	---	---
	3	<b>TL15036</b>	2TLM-3X.5C-8	NA0276M3L-30	---	---
M4-0.7	1	<b>TL15042</b>	2TLM-4X.7C-4	NA0276M4L-10	T4184-4C040	5132 004 0004
	1.5	<b>TL15043</b>	2TLM-4X.7C-6	NA0276M4L-15	T4184-4C060	5132 004 0006
	2	<b>TL15044</b>	2TLM-4X.7C-8	NA0276M4L-20	T4184-4C080	5132 004 0008
		<b>TL15045</b>	2TLM-4X.7C-10	NA0276M4L-25	---	---
		<b>TL15046</b>	2TLM-4X.7C-12	NA0276M4L-30	---	---
M5-0.8	1	<b>TL15052</b>	2TLM-5X.8C-5	NA0276M5L-10	T4184-5C050	5132 005 0005
	1.5	<b>TL15053</b>	2TLM-5X.8C-7.5	NA0276M5L-15	T4184-5C075	5132 005 0075
	2	<b>TL15054</b>	2TLM-5X.8C-10	NA0276M5L-20	T4184-5C100	5132 005 0010
	2.5	<b>TL15055</b>	2TLM-5X.8C-12.5	NA0276M5L-25	---	---
	3	<b>TL15056</b>	2TLM-5X.8C-15	NA0276M5L-30	---	---
M6-1	1	<b>TL15062</b>	2TLM-6X1C-6	NA0276M6L-10	T4184-6C060	5132 006 0006
	1.5	<b>TL15063</b>	2TLM-6X1C-9	NA0276M6L-15	T4184-6C090	5132 006 0009
	2	<b>TL15064</b>	2TLM-6X1C-12	NA0276M6L-20	T4184-61120	5132 006 0012
	2.5	<b>TL15065</b>	2TLM-6X1C-15	NA0276M6L-25	---	---
	3	<b>TL15066</b>	2TLM-6X1C-18	NA0276M6L-30	---	---
M8-1.25	1	<b>TL15082</b>	2TLM-8X1.25C-8	NA0276M8L-10	---	5132 008 0008
	1.5	<b>TL15083</b>	2TLM-8X1.25C-12	NA0276M8L-15	---	5132 008 0012
	2	<b>TL15084</b>	2TLM-8X1.25C-16	NA0276M8L-20	---	5132 008 0016
	2.5	<b>TL15085</b>	2TLM-8X1.25C-20	NA0276M8L-25	---	---
	3	<b>TL15086</b>	2TLM-8X1.25C-24	NA0276M8L-30	---	---
M10-1.5	1	<b>TL15102</b>	2TLM-10X1.5C-10	NA0276M10L-10	---	5132 010 0010
	1.5	<b>TL15103</b>	2TLM-10X1.5C-15	NA0276M10L-15	---	5132 010 0015
	2	<b>TL15104</b>	2TLM-10X1.5C-20	NA0276M10L-20	---	5132 010 0020
	2.5	<b>TL15105</b>	2TLM-10X1.5C-25	NA0276M10L-25	---	---
	3	<b>TL15106</b>	2TLM-10X1.5C-30	NA0276M10L-30	---	---
M12-1.75	1	<b>TL15122</b>	2TLM-12X1.75C-12	NA0276M12L-10	---	---
	1.5	<b>TL15123</b>	2TLM-12X1.75C-18	NA0276M12L-15	---	---
	2	<b>TL15124</b>	2TLM-12X1.75C-24	NA0276M12L-20	---	---
	2.5	<b>TL15125</b>	2TLM-12X1.75C-30	NA0276M12L-25	---	---
	3	<b>TL15126</b>	2TLM-12X1.75C-36	NA0276M12L-30	---	---

### TANGLESS METRIC - LOCKING - NITRONIC 60 (T)

RECOIL TANGLESS NITRONIC 60 PART NUMBER	KATO COILTHREAD TANGLESS NITRONIC 60 PART NUMBER	NA/NAS TANGLESS NITRONIC 60 PART NUMBER	HELICOIL® NITRONIC 60 PART NUMBER
<b>TL15252T</b>	2TLM-2.5X.45N-2.5	---	T4184-2.5E025
<b>TL15253T</b>	2TLM-2.5X.45N-3.8	---	T4184-2.5E038
<b>TL15254T</b>	2TLM-2.5X.45N-5	---	T4184-2.5E050
<b>TL15255T</b>	2TLM-2.5X.45N-6.3	---	---
<b>TL15256T</b>	2TLM-2.5X.45N-7.5	---	---
<b>TL15032T</b>	2TLM-3X.5N-3	---	T4184-3E030
<b>TL15033T</b>	2TLM-3X.5N-4.5	---	T4184-3E045
<b>TL15034T</b>	2TLM-3X.5N-6	---	T4184-3E060
<b>TL15035T</b>	2TLM-3X.5N-9	---	---
<b>TL15036T</b>	2TLM-3X.5N-8	---	---
<b>TL15042T</b>	2TLM-4X.7N-4	---	T4184-4E040
<b>TL15043T</b>	2TLM-4X.7N-6	---	T4184-4E060
<b>TL15044T</b>	2TLM-4X.7N-8	---	T4184-4E080
<b>TL15045T</b>	2TLM-4X.7N-10	---	---
<b>TL15046T</b>	2TLM-4X.7N-12	---	---
<b>TL15052T</b>	2TLM-5X.8N-5	---	T4184-5E050
<b>TL15053T</b>	2TLM-5X.8N-7.5	---	T4184-5E075
<b>TL15054T</b>	2TLM-5X.8N-10	---	T4184-5E100
<b>TL15055T</b>	2TLM-5X.8N-12.5	---	---
<b>TL15056T</b>	2TLM-5X.8N-15	---	---
<b>TL15062T</b>	2TLM-6X1N-6	---	T4184-6E060
<b>TL15063T</b>	2TLM-6X1N-9	---	T4184-6E090
<b>TL15064T</b>	2TLM-6X1N-12	---	T4184-6E120
<b>TL15065T</b>	2TLM-6X1N-15	---	---
<b>TL15066T</b>	2TLM-6X1N-18	---	---
<b>TL15082T</b>	2TLM-8X1.25N-8	---	---
<b>TL15083T</b>	2TLM-8X1.25N-12	---	---
<b>TL15084T</b>	2TLM-8X1.25N-16	---	---
<b>TL15085T</b>	2TLM-8X1.25N-20	---	---
<b>TL15086T</b>	2TLM-8X1.25N-24	---	---
<b>TL15102T</b>	2TLM-10X1.5N-10	---	---
<b>TL15103T</b>	2TLM-10X1.5N-15	---	---
<b>TL15104T</b>	2TLM-10X1.5N-20	---	---
<b>TL15105T</b>	2TLM-10X1.5N-25	---	---
<b>TL15106T</b>	2TLM-10X1.5N-30	---	---
<b>TL15122T</b>	2TLM-12X1.75N-12	---	---
<b>TL15123T</b>	2TLM-12X1.75N-18	---	---
<b>TL15124T</b>	2TLM-12X1.75N-24	---	---
<b>TL15125T</b>	2TLM-12X1.75N-30	---	---
<b>TL15126T</b>	2TLM-12X1.75N-36	---	---



## Metric Tangless Locking

### TANGLESS METRIC - LOCKING - PHOSPHOR BRONZE (P)

THREAD SIZE	NOMINAL LENGTH (DIA)	RECOIL TANGLESS PHOSPHOR BRONZE PART NUMBER	KATO COILTHREAD TANGLESS PHOSPHOR BRONZE PART NUMBER	NA/NAS TANGLESS PHOSPHOR BRONZE PART NUMBER	HELICOIL TANGLESS PHOSPHOR BRONZE PART NUMBER
METRIC					
M2.5-0.45	1	TL15252P	2TLM-2.5X.45P-2.5	---	---
	1.5	TL15253P	2TLM-2.5X.45P-3.8	---	---
	2	TL15254P	2TLM-2.5X.45P-5	---	---
	2.5	TL15255P	2TLM-2.5X.45P-6.3	---	---
	3	TL15256P	2TLM-2.5X.45P-7.5	---	---
M3-0.5	1	TL15032P	2TLM-3X.5P-3	---	---
	1.5	TL15033P	2TLM-3X.5P-4.5	---	---
	2	TL15034P	2TLM-3X.5P-6	---	---
	2.5	TL15035P	2TLM-3X.5P-9	---	---
	3	TL15036P	2TLM-3X.5P-8	---	---
M4-0.7	1	TL15042P	2TLM-4X.7P-4	---	---
	1.5	TL15043P	2TLM-4X.7P-6	---	---
	2	TL15044P	2TLM-4X.7P-8	---	---
		TL15045P	2TLM-4X.7P-10	---	---
		TL15046P	2TLM-4X.7P-12	---	---
M5-0.8	1	TL15052P	2TLM-5X.8P-5	---	---
	1.5	TL15053P	2TLM-5X.8P-7.5	---	---
	2	TL15054P	2TLM-5X.8P-10	---	---
	2.5	TL15055P	2TLM-5X.8P-12.5	---	---
	3	TL15056P	2TLM-5X.8P-15	---	---
M6-1	1	TL15062P	2TLM-6X1P-6	---	---
	1.5	TL15063P	2TLM-6X1P-9	---	---
	2	TL15064P	2TLM-6X1P-12	---	---
	2.5	TL15065P	2TLM-6X1P-15	---	---
	3	TL15066P	2TLM-6X1P-18	---	---
M8-1.25	1	TL15082P	2TLM-8X1.25P-8	---	---
	1.5	TL15083P	2TLM-8X1.25P-12	---	---
	2	TL15084P	2TLM-8X1.25P-16	---	---
	2.5	TL15085P	2TLM-8X1.25P-20	---	---
	3	TL15086P	2TLM-8X1.25P-24	---	---
M10-1.5	1	TL15102P	2TLM-10X1.5P-10	---	---
	1.5	TL15103P	2TLM-10X1.5P-15	---	---
	2	TL15104P	2TLM-10X1.5P-20	---	---
	2.5	TL15105P	2TLM-10X1.5P-25	---	---
	3	TL15106P	2TLM-10X1.5P-30	---	---
M12-1.75	1	TL15122P	2TLM-12X1.75P-12	---	---
	1.5	TL15123P	2TLM-12X1.75P-18	---	---
	2	TL15124P	2TLM-12X1.75P-24	---	---
	2.5	TL15125P	2TLM-12X1.75P-30	---	---
	3	TL15126P	2TLM-12X1.75P-36	---	---

### TANGLESS METRIC - LOCKING - INCONEL X750 (X)

RECOIL TANGLESS INCONEL X750 PART NUMBER	KATO COILTHREAD TANGLESS INCONEL X750 PART NUMBER	NA/NAS TANGLESS INCONEL X750 PART NUMBER	HELICOIL® TANGLESS INCONEL X750 PART NUMBER
TL15252X	2TLM-2.5X.45T-2.5	---	---
TL15253X	2TLM-2.5X.45T-3.8	---	---
TL15254X	2TLM-2.5X.45T-5	---	---
TL15255X	2TLM-2.5X.45T-6.3	---	---
TL15256X	2TLM-2.5X.45T-7.5	---	---
TL15032X	2TLM-3X.5T-3	---	---
TL15033X	2TLM-3X.5T-4.5	---	---
TL15034X	2TLM-3X.5T-6	---	---
TL15035X	2TLM-3X.5T-9	---	---
TL15036X	2TLM-3X.5T-8	---	---
TL15042X	2TLM-4X.7T-4	---	---
TL15043X	2TLM-4X.7T-6	---	---
TL15044X	2TLM-4X.7T-8	---	---
TL15045X	2TLM-4X.7T-10	---	---
TL15046X	2TLM-4X.7T-12	---	---
TL15052X	2TLM-5X.8T-5	---	---
TL15053X	2TLM-5X.8T-7.5	---	---
TL15054X	2TLM-5X.8T-10	---	---
TL15055X	2TLM-5X.8T-12.5	---	---
TL15056X	2TLM-5X.8T-15	---	---
TL15062X	2TLM-6X1T-6	---	---
TL15063X	2TLM-6X1T-9	---	---
TL15064X	2TLM-6X1T-12	---	---
TL15065X	2TLM-6X1T-15	---	---
TL15066X	2TLM-6X1T-18	---	---
TL15082X	2TLM-8X1.25T-8	---	---
TL15083X	2TLM-8X1.25T-12	---	---
TL15084X	2TLM-8X1.25T-16	---	---
TL15085X	2TLM-8X1.25T-20	---	---
TL15086X	2TLM-8X1.25T-24	---	---
TL15102X	2TLM-10X1.5T-10	---	---
TL15103X	2TLM-10X1.5T-15	---	---
TL15104X	2TLM-10X1.5T-20	---	---
TL15105X	2TLM-10X1.5T-25	---	---
TL15106X	2TLM-10X1.5T-30	---	---
TL15122X	2TLM-12X1.75T-12	---	---
TL15123X	2TLM-12X1.75T-18	---	---
TL15124X	2TLM-12X1.75T-24	---	---
TL15125X	2TLM-12X1.75T-30	---	---
TL15126X	2TLM-12X1.75T-36	---	---



## Metric Tangless Locking

### TANGLESS METRIC - LOCKING - STRIPFEED (SF)

THREAD SIZE	NOMINAL LENGTH (DIA)	RECOIL TANGLESS STRIPFEED PART NUMBER	KATO COILTHREAD TANGLESS STRIPFEED PART NUMBER	NA/NAS TANGLESS STRIPFEED PART NUMBER	HELICOIL TANGLESS STRIPFEED PART NUMBER
M2.5-0.45	1	TL15252SF	2TLM-2.5X.45C-2.5SF	---	T4184-2.5C025S
	1.5	TL15253SF	2TLM-2.5X.45C-3.8SF	---	T4184-2.5C038S
	2	TL15254SF	2TLM-2.5X.45C-5SF	---	T4184-2.5C050S
	2.5	TL15255SF	2TLM-2.5X.45C-6.3SF	---	---
	3	TL15256SF	2TLM-2.5X.45C-7.5SF	---	---
M3-0.5	1	TL15032SF	2TLM-3X.5C-3SF	---	T4184-3C030S
	1.5	TL15033SF	2TLM-3X.5C-4.5SF	---	T4184-3C045S
	2	TL15034SF	2TLM-3X.5C-6SF	---	T4184-3C060S
	2.5	TL15035SF	2TLM-3X.5C-9SF	---	---
	3	TL15036SF	2TLM-3X.5C-8SF	---	---
M4-0.7	1	TL15042SF	2TLM-4X.7C-4SF	---	T4184-4C040S
	1.5	TL15043SF	2TLM-4X.7C-6SF	---	T4184-4C060S
	2	TL15044SF	2TLM-4X.7C-8SF	---	T4184-4C080S
		TL15045SF	2TLM-4X.7C-10SF	---	---
		TL15046SF	2TLM-4X.7C-12SF	---	---
M5-0.8	1	TL15052SF	2TLM-5X.8C-5SF	---	T4184-5C050S
	1.5	TL15053SF	2TLM-5X.8C-7.5SF	---	T4184-5C075S
	2	TL15054SF	2TLM-5X.8C-10SF	---	T4184-5C100S
	2.5	TL15055SF	2TLM-5X.8C-12.5SF	---	---
	3	TL15056SF	2TLM-5X.8C-15SF	---	---
M6-1	1	TL15062SF	2TLM-6X1C-6SF	---	T4184-6C060S
	1.5	TL15063SF	2TLM-6X1C-9SF	---	T4184-6C090S
	2	TL15064SF	2TLM-6X1C-12SF	---	T4184-6C120S
	2.5	TL15065SF	2TLM-6X1C-15SF	---	---
	3	TL15066SF	2TLM-6X1C-18SF	---	---
M8-1.25	1	TL15082SF	2TLM-8X1.25C-8SF	---	---
	1.5	TL15083SF	2TLM-8X1.25C-12SF	---	---
	2	TL15084SF	2TLM-8X1.25C-16SF	---	---
	2.5	TL15085SF	2TLM-8X1.25C-20SF	---	---
	3	TL15086SF	2TLM-8X1.25C-24SF	---	---
M10-1.5	1	TL15102SF	2TLM-10X1.5C-10SF	---	---
	1.5	TL15103SF	2TLM-10X1.5C-15SF	---	---
	2	TL15104SF	2TLM-10X1.5C-20SF	---	---
	2.5	---	2TLM-10X1.5C-25SF	---	---
	3	---	2TLM-10X1.5C-30SF	---	---
M12-1.75	1	TL15122SF	---	---	---
	1.5	TL15123SF	---	---	---
	2	TL15124SF	---	---	---
	2.5	---	---	---	---
	3	---	---	---	---

### TANGLESS METRIC - LOCKING - CAD PLATED (C)

RECOIL TANGLESS CAD PLATED PART NUMBER	KATO COILTHREAD TANGLESS CAD PLATED PART NUMBER	NA/NAS TANGLESS CAD PLATED PART NUMBER	HELICOIL® TANGLESS CAD PLATED PART NUMBER
METRIC			
TL15252C	2TLM-2.5X.45C-2.5Y	NA0276M2CL-10	T4184-2.5CY025
TL15253C	2TLM-2.5X.45C-3.8Y	NA0276M2CL-15	T4184-2.5CY038
TL15254C	2TLM-2.5X.45C-5Y	NA0276M2CL-20	T4184-2.5CY050
TL15255C	2TLM-2.5X.45C-6.3Y	NA0276M2CL-25	---
TL15256C	2TLM-2.5X.45C-7.5Y	NA0276M2CL-30	---
TL15032C	2TLM-3X.5C-3Y	NA0276M3CL-10	T4184-3CY030
TL15033C	2TLM-3X.5C-4.5Y	NA0276M3CL-15	T4184-3CY045
TL15034C	2TLM-3X.5C-6Y	NA0276M3CL-20	T4184-3CY060
TL15035C	2TLM-3X.5C-9Y	NA0276M3CL-25	---
TL15036C	2TLM-3X.5C-8Y	NA0276M3CL-30	---
TL15042C	2TLM-4X.7C-4Y	NA0276M4CL-10	T4184-4CY040
TL15043C	2TLM-4X.7C-6Y	NA0276M4CL-15	T4184-4CY060
TL15044C	2TLM-4X.7C-8Y	NA0276M4CL-20	T4184-4CY080
TL15045C	2TLM-4X.7C-10Y	NA0276M4CL-25	---
TL15046C	2TLM-4X.7C-12Y	NA0276M4CL-30	---
TL15052C	2TLM-5X.8C-5Y	NA0276M5CL-10	T4184-5CY050
TL15053C	2TLM-5X.8C-7.5Y	NA0276M5CL-15	T4184-5CY075
TL15054C	2TLM-5X.8C-10Y	NA0276M5CL-20	T4184-5CY100
TL15055C	2TLM-5X.8C-12.5Y	NA0276M5CL-25	---
TL15056C	2TLM-5X.8C-15Y	NA0276M5CL-30	---
TL15062C	2TLM-6X1C-6Y	NA0276M6CL-10	T4184-6CY060
TL15063C	2TLM-6X1C-9Y	NA0276M6CL-15	T4184-6CY090
TL15064C	2TLM-6X1C-12Y	NA0276M6CL-20	T4184-6CY120
TL15065C	2TLM-6X1C-15Y	NA0276M6CL-25	---
TL15066C	2TLM-6X1C-18Y	NA0276M6CL-30	---
TL15082C	2TLM-8X1.25C-8Y	NA0276M8CL-10	---
TL15083C	2TLM-8X1.25C-12Y	NA0276M8CL-15	---
TL15084C	2TLM-8X1.25C-16Y	NA0276M8CL-20	---
TL15085C	2TLM-8X1.25C-20Y	NA0276M8CL-25	---
TL15086C	2TLM-8X1.25C-24Y	NA0276M8CL-30	---
TL15102C	2TLM-10X1.5C-10Y	NA0276M10CL-10	---
TL15103C	2TLM-10X1.5C-15Y	NA0276M10CL-15	---
TL15104C	2TLM-10X1.5C-20Y	NA0276M10CL-20	---
TL15105C	2TLM-10X1.5C-25Y	NA0276M10CL-25	---
TL15106C	2TLM-10X1.5C-30Y	NA0276M10CL-30	---
TL15122C	2TLM-12X1.75C-12Y	NA0276M12CL-10	---
TL15123C	2TLM-12X1.75C-18Y	NA0276M12CL-15	---
TL15124C	2TLM-12X1.75C-24Y	NA0276M12CL-20	---
TL15125C	2TLM-12X1.75C-30Y	NA0276M12CL-25	---
TL15126C	2TLM-12X1.75C-36Y	NA0276M12CL-30	---

### TANGLESS METRIC - LOCKING - DRY FILM LUBE (D)

RECOIL TANGLESS DRY FILM LUBE PART NUMBER	KATO COILTHREAD TANGLESS DRY FILM LUBE PART NUMBER	NA/NAS TANGLESS DRY FILM LUBE PART NUMBER	HELICOIL® TANGLESS DRY FILM LUBE PART NUMBER
TL15252D	2TLM-2.5X.45C-2.5W	NA0276M2L-10D	T4184-2.5CW025
TL15253D	2TLM-2.5X.45C-3.8W	NA0276M2L-15D	T4184-2.5CW038
TL15254D	2TLM-2.5X.45C-5W	NA0276M2L-20D	T4184-2.5CW050
TL15255D	2TLM-2.5X.45C-6.3W	NA0276M2L-25D	---
TL15256D	2TLM-2.5X.45C-7.5W	NA0276M2L-30D	---
TL15032D	2TLM-3X.5C-3W	NA0276M3L-10D	T4184-3CW030
TL15033D	2TLM-3X.5C-4.5W	NA0276M3L-15D	T4184-3CW045
TL15034D	2TLM-3X.5C-6W	NA0276M3L-20D	T4184-3CW060
TL15035D	2TLM-3X.5C-9W	NA0276M3L-25D	---
TL15036D	2TLM-3X.5C-8W	NA0276M3L-30D	---
TL15042D	2TLM-4X.7C-4W	NA0276M4L-10D	T4184-4CW040
TL15043D	2TLM-4X.7C-6W	NA0276M4L-15D	T4184-4CW060
TL15044D	2TLM-4X.7C-8W	NA0276M4L-20D	T4184-4CW080
TL15045D	2TLM-4X.7C-10W	NA0276M4L-25D	---
TL15046D	2TLM-4X.7C-12W	NA0276M4L-30D	---
TL15052D	2TLM-5X.8C-5W	NA0276M5L-10D	T4184-5CW050
TL15053D	2TLM-5X.8C-7.5W	NA0276M5L-15D	T4184-5CW075
TL15054D	2TLM-5X.8C-10W	NA0276M5L-20D	T4184-5CW100
TL15055D	2TLM-5X.8C-12.5W	NA0276M5L-25D	---
TL15056D	2TLM-5X.8C-15W	NA0276M5L-30D	---
TL15062D	2TLM-6X1C-6W	NA0276M6L-10D	T4184-6CW060
TL15063D	2TLM-6X1C-9W	NA0276M6L-15D	T4184-6CW090
TL15064D	2TLM-6X1C-12W	NA0276M6L-20D	T4184-6CW120
TL15065D	2TLM-6X1C-15W	NA0276M6L-25D	---
TL15066D	2TLM-6X1C-18W	NA0276M6L-30D	---
TL15082D	2TLM-8X1.25C-8W	NA0276M8L-10D	---
TL15083D	2TLM-8X1.25C-12W	NA0276M8L-15D	---
TL15084D	2TLM-8X1.25C-16W	NA0276M8L-20D	---
TL15085D	2TLM-8X1.25C-20W	NA0276M8L-25D	---
TL15086D	2TLM-8X1.25C-24W	NA0276M8L-30D	---
TL15102D	2TLM-10X1.5C-10W	NA0276M10L-10D	---
TL15103D	2TLM-10X1.5C-15W	NA0276M10L-15D	---
TL15104D	2TLM-10X1.5C-20W	NA0276M10L-20D	---
TL15105D	2TLM-10X1.5C-25W	NA0276M10L-25D	---
TL15106D	2TLM-10X1.5C-30W	NA0276M10L-30D	---
TL15122D	2TLM-12X1.75C-12W	NA0276M12L-10D	---
TL15123D	2TLM-12X1.75C-18W	NA0276M12L-15D	---
TL15124D	2TLM-12X1.75C-24W	NA0276M12L-20D	---
TL15125D	2TLM-12X1.75C-30W	NA0276M12L-25D	---
TL15126D	2TLM-12X1.75C-36W	NA0276M12L-30D	---



## UNC Tangless Locking

### TANGLESS UNIFIED COARSE - LOCKING - 304 STAINLESS STEEL

THREAD SIZE	NOMINAL LENGTH (DIA)	RECOIL PART NUMBER	KATO COILTHREAD TANGLESS PART NUMBER	NA/NAS TANGLESS PART NUMBER	HELICOIL PART NUMBER	BOLHOFF PART NUMBER
UNIFIED COARSE						
#2-56	1	TL13522	2TLC-02C-0086	NAS1130-02L-10	T3585-02C086	---
	1.5	TL13523	2TLC-02C-0129	NAS1130-02L-15	T3585-02C129	---
	2	TL13524	2TLC-02C-0172	NAS1130-02L-20	T3585-02C172	---
	2.5	TL13525	2TLC-02C-0215	NAS1130-02L-25	---	---
	3	TL13526	2TLC-02C-0258	NAS1130-03L-30	---	---
#4-40	1	TL13542	2TLC-04C-0112	NAS1130-04L-10	T3585-04C112	5132 065 6004
	1.5	TL13543	2TLC-04C-0168	NAS1130-04L-15	T3585-04C168	5132 065 6006
	2	TL13544	2TLC-04C-0224	NAS1130-04L-20	T3585-04C224	5132 065 6008
	2.5	TL13545	2TLC-04C-0280	NAS1130-04L-25	---	---
	3	TL13546	2TLC-04C-0336	NAS1130-04L-30	---	---
#6-32	1	TL13562	2TLC-06C-0138	NAS1130-06L-10	T3585-06C138	5132 067 6004
	1.5	TL13563	2TLC-06C-0207	NAS1130-06L-15	T3585-06C207	5132 067 6006
	2	TL13564	2TLC-06C-0276	NAS1130-06L-20	T3585-06C276	5132 067 6008
	2.5	TL13565	2TLC-06C-0345	NAS1130-06L-25	---	---
	3	TL13566	2TLC-06C-0414	NAS1130-06L-30	---	---
#8-32	1	TL13582	2TLC-2C-0164	NAS1130-08L-10	T3585-2C164	5132 068 6004
	1.5	TL13583	2TLC-2C-0246	NAS1130-08L-15	T3585-2C246	5132 068 6006
	2	TL13584	2TLC-2C-0328	NAS1130-08L-20	T3585-2C328	5132 068 6008
	2.5	TL13585	2TLC-2C-0410	NAS1130-08L-25	---	---
	3	TL13586	2TLC-2C-0492	NAS1130-08L-30	---	---
#10-24	1	TL13602	2TLC-3C-0190	NAS1130-3CL-10	T3585-3C190	---
	1.5	TL13603	2TLC-3C-0285	NAS1130-3CL-15	T3585-3C285	---
	2	TL13604	2TLC-3C-0380	NAS1130-3CL-20	T3585-3C380	---
	2.5	TL13605	2TLC-3C-0475	NAS1130-3CL-25	---	---
	3	TL13606	2TLC-3C-0570	NAS1130-3CL-30	---	---
1/4-20	1	TL13042	2TLC-4C-0250	NAS1130-4L-10	T3585-4C250	5132 074 7004
	1.5	TL13043	2TLC-4C-0375	NAS1130-4L-15	T3585-4C375	5132 074 7006
	2	TL13044	2TLC-4C-0500	NAS1130-4L-20	T3585-4C500	5132 074 7008
	2.5	TL13045	2TLC-4C-0625	NAS1130-4L-25	---	---
	3	TL13046	2TLC-4C-0750	NAS1130-4L-30	---	---
5/16-18	1	TL13052	2TLC-5C-0312	NAS1130-5CL-10	---	---
	1.5	TL13053	2TLC-5C-0469	NAS1130-5CL-15	---	---
	2	TL13054	2TLC-5C-0625	NAS1130-5CL-20	---	---
	2.5	TL13055	2TLC-5C-0781	NAS1130-5CL-25	---	---
	3	TL13056	2TLC-5C-0938	NAS1130-5CL-30	---	---
3/8-16	1	TL13062	2TLC-6C-0375	NAS1130-6CL-10	---	---
	1.5	TL13063	2TLC-6C-0562	NAS1130-6CL-15	---	---
	2	TL13064	2TLC-6C-0750	NAS113-6CL-20	---	---
	2.5	TL13065	2TLC-6C-0938	NAS113-6CL-25	---	---
	3	TL13066	---	NAS113-6CL-30	---	---

### TANGLESS UNIFIED COARSE - LOCKING - NITRONIC 60 (T)

RECOIL TANGLESS NITRONIC 60 PART NUMBER	KATO COILTHREAD TANGLESS NITRONIC 60 PART NUMBER	NA/NAS TANGLESS NITRONIC 60 PART NUMBER	HELICOIL® NITRONIC 60 PART NUMBER
TL13522T	2TLC-02N-0086	---	T3585-02E086
TL13523T	2TLC-02N-0129	---	T3585-02E129
TL13524T	2TLC-02N-0172	---	T3585-02E172
TL13525T	2TLC-02N-0215	---	---
TL13526T	2TLC-02N-0258	---	---
TL13542T	2TLC-04N-0112	---	T3585-04E112
TL13543T	2TLC-04N-0168	---	T3585-04E168
TL13544T	2TLC-04N-0224	---	T3585-04E224
TL13545T	2TLC-04N-0280	---	---
TL13546T	2TLC-04N-0336	---	---
TL13562T	2TLC-06N-0138	---	T3585-06E138
TL13563T	2TLC-06N-0207	---	T3585-06E207
TL13564T	2TLC-06N-0276	---	T3585-06E276
TL13565T	2TLC-06N-0345	---	---
TL13566T	2TLC-06N-0414	---	---
TL13582T	2TLC-2N-0164	---	T3585-2E164
TL13583T	2TLC-2N-0246	---	T3585-2E246
TL13584T	2TLC-2N-0328	---	T3585-2E328
TL13585T	2TLC-2N-0410	---	---
TL13586T	2TLC-2N-0492	---	---
TL13602T	2TLC-3N-0190	---	T3585-3E190
TL13603T	2TLC-3N-0285	---	T3585-3E285
TL13604T	2TLC-3N-0380	---	T3585-3E380
TL13605T	2TLC-3N-0475	---	---
TL13606T	2TLC-3N-0570	---	---
TL13042T	2TLC-4N-0250	---	T3585-4E250
TL13043T	2TLC-4N-0375	---	T3585-4E375
TL13044T	2TLC-4N-0500	---	T3585-4E500
TL13045T	2TLC-4N-0625	---	---
TL13046T	2TLC-4N-0750	---	---
TL13052T	2TLC-5N-0312	---	---
TL13053T	2TLC-5N-0469	---	---
TL13054T	2TLC-5N-0625	---	---
TL13055T	2TLC-5N-0781	---	---
TL13056T	2TLC-5N-0938	---	---
TL13062T	2TLC-6N-0375	---	---
TL13063T	2TLC-6N-0562	---	---
TL13064T	2TLC-6N-0750	---	---
TL13065T	2TLC-6N-0938	---	---
TL13066T	---	---	---



## UNC Tangless Locking

TANGLESS UNIFIED COARSE - LOCKING - PHOSPHOR BRONZE (P)

THREAD SIZE	NOMINAL LENGTH (DIA)	RECOIL TANGLESS PHOSPHOR BRONZE PART NUMBER	KATO COILTHREAD TANGLESS PHOSPHOR BRONZE PART NUMBER	NA/NAS TANGLESS PHOSPHOR BRONZE PART NUMBER	HELICOIL TANGLESS PHOSPHOR BRONZE PART NUMBER
UNIFIED COARSE					
#2-56	1	TL13522P	2TLC-02P-0086	---	---
	1.5	TL13523P	2TLC-02P-0129	---	---
	2	TL13524P	2TLC-02P-0172	---	---
	2.5	TL13525P	2TLC-02P-0215	---	---
	3	TL13526P	2TLC-02P-0258	---	---
#4-40	1	TL13542P	2TLC-04P-0112	---	---
	1.5	TL13543P	2TLC-04P-0168	---	---
	2	TL13544P	2TLC-04P-0224	---	---
	2.5	TL13545P	2TLC-04P-0280	---	---
	3	TL13546P	2TLC-04P-0336	---	---
#6-32	1	TL13562P	2TLC-06P-0138	---	---
	1.5	TL13563P	2TLC-06P-0207	---	---
	2	TL13564P	2TLC-06P-0276	---	---
	2.5	TL13565P	2TLC-06P-0345	---	---
	3	TL13566P	2TLC-06P-0414	---	---
#8-32	1	TL13582P	2TLC-2P-0164	---	---
	1.5	TL13583P	2TLC-2P-0246	---	---
	2	TL13584P	2TLC-2P-0328	---	---
	2.5	TL13585P	2TLC-2P-0410	---	---
	3	TL13586P	2TLC-2P-0492	---	---
#10-24	1	TL13602P	2TLC-3P-0190	---	---
	1.5	TL13603P	2TLC-3P-0285	---	---
	2	TL13604P	2TLC-3P-0380	---	---
	2.5	TL13605P	2TLC-3P-0475	---	---
	3	TL13606P	2TLC-3P-0570	---	---
1/4-20	1	TL13042P	2TLC-4P-0250	---	---
	1.5	TL13043P	2TLC-4P-0375	---	---
	2	TL13044P	2TLC-4P-0500	---	---
	2.5	TL13045P	2TLC-4P-0625	---	---
	3	TL13046P	2TLC-4P-0750	---	---
5/16-18	1	TL13052P	2TLC-5P-0312	---	---
	1.5	TL13053P	2TLC-5P-0469	---	---
	2	TL13054P	2TLC-5P-0625	---	---
	2.5	TL13055P	2TLC-5P-0781	---	---
	3	TL13056P	2TLC-5P-0938	---	---
3/8-16	1	TL13062P	2TLC-6P-0375	---	---
	1.5	TL13063P	2TLC-6P-0562	---	---
	2	TL13064P	2TLC-6P-0750	---	---
	2.5	TL13065P	2TLC-6P-0938	---	---
	3	TL13066P	---	---	---

TANGLESS UNIFIED COARSE - LOCKING - INCONEL X750 (X)

RECOIL TANGLESS INCONEL X750 PART NUMBER	KATO COILTHREAD TANGLESS INCONEL X750 PART NUMBER	NA/NAS TANGLESS INCONEL X750 PART NUMBER	HELICOIL® TANGLESS INCONEL X750 PART NUMBER
TL13522X	2TLC-02T-0086	---	---
TL13523X	2TLC-02T-0129	---	---
TL13524X	2TLC-02T-0172	---	---
TL13525X	2TLC-02T-0215	---	---
TL13526X	2TLC-02T-0258	---	---
TL13542X	2TLC-04T-0112	---	---
TL13543X	2TLC-04T-0168	---	---
TL13544X	2TLC-04T-0224	---	---
TL13545X	2TLC-04T-0280	---	---
TL13546X	2TLC-04T-0336	---	---
TL13562X	2TLC-06T-0138	---	---
TL13563X	2TLC-06T-0207	---	---
TL13564X	2TLC-06T-0276	---	---
TL13565X	2TLC-06T-0345	---	---
TL13566X	2TLC-06T-0414	---	---
TL13582X	2TLC-2T-0164	---	---
TL13583X	2TLC-2T-0246	---	---
TL13584X	2TLC-2T-0328	---	---
TL13585X	2TLC-2T-0410	---	---
TL13586X	2TLC-2T-0492	---	---
TL13602X	2TLC-3T-0190	---	---
TL13603X	2TLC-3T-0285	---	---
TL13604X	2TLC-3T-0380	---	---
TL13605X	2TLC-3T-0475	---	---
TL13606X	2TLC-3T-0570	---	---
TL13042X	2TLC-4T-0250	---	---
TL13043X	2TLC-4T-0375	---	---
TL13044X	2TLC-4T-0500	---	---
TL13045X	2TLC-4T-0625	---	---
TL13046X	2TLC-4T-0750	---	---
TL13052X	2TLC-5T-0312	---	---
TL13053X	2TLC-5T-0469	---	---
TL13054X	2TLC-5T-0625	---	---
TL13055X	2TLC-5T-0781	---	---
TL13056X	2TLC-5T-0938	---	---
TL13062X	2TLC-6T-0375	---	---
TL13063X	2TLC-6T-0562	---	---
TL13064X	2TLC-6T-0750	---	---
TL13065X	2TLC-6T-0938	---	---
TL13066X	---	---	---



## UNC Tangless Locking

### TANGLESS UNIFIED COARSE - LOCKING - STRIPFEED (SF)

THREAD SIZE	NOMINAL LENGTH (DIA)	RECOIL TANGLESS STRIPFEED PART NUMBER	KATO COILTHREAD TANGLESS STRIPFEED PART NUMBER	NA/NAS TANGLESS STRIPFEED PART NUMBER	HELICOIL TANGLESS STRIPFEED PART NUMBER
#2-56	1	TL13522SF	2TLC-02C-0086SF	---	T3585-02C086S
	1.5	TL13523SF	2TLC-02C-0129SF	---	T3585-02C129S
	2	TL13524SF	2TLC-02C-0172SF	---	T3585-02C172S
	2.5	TL13525SF	2TLC-02C-0215SF	---	---
	3	TL13526SF	2TLC-02C-0258SF	---	---
#4-40	1	TL13542SF	2TLC-04C-0112SF	---	T3585-04C112S
	1.5	TL13543SF	2TLC-04C-0168SF	---	T3585-04C168S
	2	TL13544SF	2TLC-04C-0224SF	---	T3585-04C224S
	2.5	TL13545SF	2TLC-04C-0280SF	---	---
	3	TL13546SF	2TLC-04C-0336SF	---	---
#6-32	1	TL13562SF	2TLC-06C-0138SF	---	T3585-06C138S
	1.5	TL13563SF	2TLC-06C-0207SF	---	T3585-06C207S
	2	TL13564SF	2TLC-06C-0276SF	---	T3585-06C276S
	2.5	TL13565SF	2TLC-06C-0345SF	---	---
	3	TL13566SF	2TLC-06C-0414SF	---	---
#8-32	1	TL13582SF	2TLC-2C-0164SF	---	T3585-2C164S
	1.5	TL13583SF	2TLC-2C-0246SF	---	T3585-2C246S
	2	TL13584SF	2TLC-2C-0328SF	---	T3585-2C328S
	2.5	TL13585SF	2TLC-2C-0410SF	---	---
	3	TL13586SF	2TLC-2C-0492SF	---	---
#10-24	1	TL13602SF	2TLC-3C-0190SF	---	T3585-3C190S
	1.5	TL13603SF	2TLC-3C-0285SF	---	T3585-3C285S
	2	TL13604SF	2TLC-3C-0380SF	---	T3585-3C380S
	2.5	TL13605SF	2TLC-3C-0475SF	---	---
	3	TL13606SF	2TLC-3C-0570SF	---	---
1/4-20	1	TL13042SF	2TLC-4C-0250SF	---	T3585-4C250S
	1.5	TL13043SF	2TLC-4C-0375SF	---	T3585-4C375S
	2	TL13044SF	2TLC-4C-0500SF	---	T3585-4C500S
	2.5	TL13045SF	2TLC-4C-0625SF	---	---
	3	TL13046SF	2TLC-4C-0750SF	---	---
5/16-18	1	TL13052SF	2TLC-5C-0312SF	---	---
	1.5	TL13053SF	2TLC-5C-0469SF	---	---
	2	TL13054SF	2TLC-5C-0625SF	---	---
	2.5	TL13055SF	2TLC-5C-0781SF	---	---
	3	TL13056SF	2TLC-5C-0938SF	---	---
3/8-16	1	TL13062SF	2TLC-6C-0375SF	---	---
	1.5	TL13063SF	2TLC-6C-0562SF	---	---
	2	TL13064SF	2TLC-6C-0750SF	---	---
	2.5	TL13065SF	2TLC-6C-0938SF	---	---
	3	---	---	---	---

### TANGLESS UNIFIED COARSE - LOCKING - CAD PLATED (C)

RECOIL TANGLESS CAD PLATED PART NUMBER	KATO COILTHREAD TANGLESS CAD PLATED PART NUMBER	NA/NAS TANGLESS CAD PLATED PART NUMBER	HELICOIL® TANGLESS CAD PLATED PART NUMBER
UNIFIED COARSE			
TL13522C	2TLC-02C-0086Y	NAS1130-02CL-10P	T3585-02CY086
TL13523C	2TLC-02C-0129Y	NAS1130-02CL-15P	T3585-02CY129
TL13524C	2TLC-02C-0172Y	NAS1130-02CL-20P	T3585-02CY172
TL13525C	2TLC-02C-0215Y	NAS1130-02CL-25P	---
TL13526C	2TLC-02C-0258Y	NAS1130-02CL-30P	---
TL13542C	2TLC-04C-0112Y	NAS1130-04CL-10P	T3585-04CY112
TL13543C	2TLC-04C-0168Y	NAS1130-04CL-15P	T3585-04CY168
TL13544C	2TLC-04C-0224Y	NAS1130-04CL-20P	T3585-04CY224
TL13545C	2TLC-04C-0280Y	NAS1130-04CL-25P	---
TL13546C	2TLC-04C-0336Y	NAS1130-04CL-30P	---
TL13562C	2TLC-06C-0138Y	NAS1130-06CL-10P	T3585-06CY138
TL13563C	2TLC-06C-0207Y	NAS1130-06CL-15P	T3585-06CY207
TL13564C	2TLC-06C-0276Y	NAS1130-06CL-20P	T3585-06CY276
TL13565C	2TLC-06C-0345Y	NAS1130-06CL-25P	---
TL13566C	2TLC-06C-0414Y	NAS1130-06CL-30P	---
TL13582C	2TLC-2C-0164Y	NAS1130-08CL-10P	T3585-2CY164
TL13583C	2TLC-2C-0246Y	NAS1130-08CL-15P	T3585-2CY246
TL13584C	2TLC-2C-0328Y	NAS1130-08CL-20P	T3585-2CY328
TL13585C	2TLC-2C-0410Y	NAS1130-08CL-25P	---
TL13586C	2TLC-2C-0492Y	NAS1130-08CL-30P	---
TL13602C	2TLC-3C-0190Y	NAS1130-3CL-10P	T3585-3CY190
TL13603C	2TLC-3C-0285Y	NAS1130-3CL-15P	T3585-3CY285
TL13604C	2TLC-3C-0380Y	NAS1130-3CL-20P	T3585-3CY380
TL13605C	2TLC-3C-0475Y	NAS1130-3CL-25P	---
TL13606C	2TLC-3C-0570Y	NAS1130-3CL-30P	---
TL13042C	2TLC-4C-0250Y	NAS1130-4CL-10P	T3585-4CY250
TL13043C	2TLC-4C-0375Y	NAS1130-4CL-15P	T3585-4CY375
TL13044C	2TLC-4C-0500Y	NAS1130-4CL-20P	T3585-4CY500
TL13045C	2TLC-4C-0625Y	NAS1130-4CL-25P	---
TL13046C	2TLC-4C-0750Y	NAS1130-4CL-30P	---
TL13052C	2TLC-5C-0312Y	NAS1130-5CL-10P	---
TL13053C	2TLC-5C-0469Y	NAS1130-5CL-15P	---
TL13054C	2TLC-5C-0625Y	NAS1130-5CL-20P	---
TL13055C	2TLC-5C-0781Y	NAS1130-5CL-25P	---
TL13056C	2TLC-5C-0938Y	NAS1130-5CL-30P	---
TL13062C	2TLC-6C-0375Y	NAS1130-6CL-10P	---
TL13063C	2TLC-6C-0562Y	NAS1130-6CL-15P	---
TL13064C	2TLC-6C-0750Y	NAS1130-6CL-20P	---
TL13065C	2TLC-6C-0938Y	NAS1130-6CL-25P	---
TL13066C	---	NAS1130-6CL-30P	---

### TANGLESS UNIFIED COARSE - LOCKING - DRY FILM LUBE (D)

RECOIL TANGLESS DRY FILM LUBE PART NUMBER	KATO COILTHREAD TANGLESS DRY FILM LUBE PART NUMBER	NA/NAS TANGLESS DRY FILM LUBE PART NUMBER	HELICOIL® TANGLESS DRY FILM LUBE PART NUMBER
TL13522D	2TLC-02C-0086W	NAS1130-02L-10D	T3585-02CW086
TL13523D	2TLC-02C-0129W	NAS1130-02L-15D	T3585-02CW129
TL13524D	2TLC-02C-0172W	NAS1130-02L-20D	T3585-02CW172
TL13525D	2TLC-02C-0215W	NAS1130-02L-25D	---
TL13526D	2TLC-02C-0258W	NAS1130-02L-30D	---
TL13542D	2TLC-04C-0112W	NAS1130-04L-10D	T3585-04CW112
TL13543D	2TLC-04C-0168W	NAS1130-04L-15D	T3585-04CW168
TL13544D	2TLC-04C-0224W	NAS1130-04L-20D	T3585-04CW224
TL13545D	2TLC-04C-0280W	NAS1130-04L-25D	---
TL13546D	2TLC-04C-0336W	NAS1130-04L-30D	---
TL13562D	2TLC-06C-0138W	NAS1130-06L-10D	T3585-06CW138
TL13563D	2TLC-06C-0207W	NAS1130-06L-15D	T3585-06CW207
TL13564D	2TLC-06C-0276W	NAS1130-06L-20D	T3585-06CW276
TL13565D	2TLC-06C-0345W	NAS1130-06L-25D	---
TL13566D	2TLC-06C-0414W	NAS1130-06L-30D	---
TL13582D	2TLC-2C-0164W	NAS1130-08L-10D	T3585-2CW164
TL13583D	2TLC-2C-0246W	NAS1130-08L-15D	T3585-2CW246
TL13584D	2TLC-2C-0328W	NAS1130-08L-20D	T3585-2CW328
TL13585D	2TLC-2C-0410W	NAS1130-08L-25D	---
TL13586D	2TLC-2C-0492W	NAS1130-08L-30D	---
TL13602D	2TLC-3C-0190W	NAS1130-3L-10D	T3585-3CW190
TL13603D	2TLC-3C-0285W	NAS1130-3L-15D	T3585-3CW285
TL13604D	2TLC-3C-0380W	NAS1130-3L-20D	T3585-3CW380
TL13605D	2TLC-3C-0475W	NAS1130-3L-25D	---
TL13606D	2TLC-3C-0570W	NAS1130-3L-30D	---
TL13042D	2TLC-4C-0250W	NAS1130-4L-10D	T3585-4CW250
TL13043D	2TLC-4C-0375W	NAS1130-4L-15D	T3585-4CW375
TL13044D	2TLC-4C-0500W	NAS1130-4L-20D	T3585-4CW500
TL13045D	2TLC-4C-0625W	NAS1130-4L-25D	---
TL13046D	2TLC-4C-0750W	NAS1130-4L-30D	---
TL13052D	2TLC-5C-0312W	NAS1130-5L-10D	---
TL13053D	2TLC-5C-0469W	NAS1130-5L-15D	---
TL13054D	2TLC-5C-0625W	NAS1130-5L-20D	---
TL13055D	2TLC-5C-0781W	NAS1130-5L-25D	---
TL13056D	2TLC-5C-0938W	NAS1130-5L-30D	---
TL13062D	2TLC-6C-0375W	NAS1130-6L-10D	---
TL13063D	2TLC-6C-0562W	NAS1130-6L-15D	---
TL13064D	2TLC-6C-0750W	NAS1130-6L-20D	---
TL13065D	2TLC-6C-0938W	NAS1130-6L-25D	---
TL13066D	---	NAS1130-6L-30D	---



## UNF Tangless Locking

### TANGLESS UNIFIED FINE - LOCKING - 304 STAINLESS STEEL

THREAD SIZE	NOMINAL LENGTH (DIA)	RECOIL PART NUMBER	KATO COILTHREAD TANGLESS PART NUMBER	NA/NAS TANGLESS PART NUMBER	HELICOIL PART NUMBER	BOLHOFF PART NUMBER
UNIFIED FINE						
#10-32	1	TL14602SF	2TLF-3C-0190	NAS1130-3L-10	T3591-3C190	5132 069 7004
	1.5	TL14603SF	2TLF-3C-0285	NAS1130-3L-15	T3591-3C285	5132 069 7006
	2	TL14604SF	2TLF-3C-0380	NAS1130-3L-20	T3591-3C380	5132 069 7008
	2.5	TL14605SF	2TLF-3C-0475	NAS1130-3L-25	---	---
	3	---	2TLF-3C-0570	NAS1130-3L-30	---	---
1/4-28	1	TL14042SF	2TLF-4-0250	NAS1130-4FL-10	T3591-4C250	5132 074 7004
	1.5	TL14043SF	2TLF-4-0375	NAS1130-4FL-15	T3591-4C375	5132 074 7006
	2	TL14044SF	2TLF-4-0500	NAS1130-4FL-20	T3591-4C500	5132 074 7008
	2.5	TL14045SF	2TLF-4C-0625	NAS1130-4FL-25	---	---
	3	---	2TLF-4C-0750	NAS1130-4FL-30	---	---
5/16-24	1	TL14052SF	2TLF-5C-0312	NAS1130-5FL-10	---	---
	1.5	TL14053SF	2TLF-5C-0469	NAS1130-5FL-15	---	---
	2	TL14054SF	2TLF-5C-0625	NAS1130-5FL-20	---	---
	2.5	TL14055SF	2TLF-5C-0781	NAS1130-5FL-25	---	---
	3	---	---	---	---	---
3/8-24	1	TL14062SF	2TLF-6C-0375	NAS1130-6FL-10	---	---
	1.5	TL14063SF	2TLF-6C-0562	NAS1130-6FL-15	---	---
	2	TL14064SF	2TLF-6C-0750	NAS1130-6FL-20	---	---
	2.5	---	---	---	---	---
	3	---	---	---	---	---

### TANGLESS UNIFIED FINE - LOCKING - NITRONIC 60 (T)

RECOIL TANGLESS NITRONIC 60 PART NUMBER	KATO COILTHREAD TANGLESS NITRONIC 60 PART NUMBER	NA/NAS TANGLESS NITRONIC 60 PART NUMBER	HELICOIL® NITRONIC 60 PART NUMBER
TL14602T	2TLF-3N-0190	---	T3591-3E190
TL14603T	2TLF-3N-0285	---	T3591-3E285
TL14604T	2TLF-3N-0380	---	T3591-3E380
TL14605T	2TLF-3N-0475	---	---
TL14606T	2TLF-3N-0570	---	---
TL14042T	2TLF-4N-0250	---	T3591-4E250
TL14043T	2TLF-4N-0375	---	T3591-4E375
TL14044T	2TLF-4N-0500	---	T3591-4E500
TL14045T	2TLF-4N-0625	---	---
TL14046T	2TLF-4N-0750	---	---
TL14052T	2TLF-5N-0312	---	---
TL14053T	2TLF-5N-0469	---	---
TL14054T	2TLF-5N-0625	---	---
TL14055T	2TLF-5N-0781	---	---
---	---	---	---
TL14062T	2TLF-6N-0375	---	---
TL14063T	2TLF-6N-0562	---	---
TL14064T	2TLF-6N-0750	---	---
---	---	---	---
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## UNF Tangless Locking

TANGLESS UNIFIED FINE - LOCKING - PHOSPHOR BRONZE (P)

THREAD SIZE	NOMINAL LENGTH (DIA)	RECOIL TANGLESS PHOSPHOR BRONZE PART NUMBER	KATO COILTHREAD TANGLESS PHOSPHOR BRONZE PART NUMBER	NA/NAS TANGLESS PHOSPHOR BRONZE PART NUMBER	HELICOIL TANGLESS PHOSPHOR BRONZE PART NUMBER
UNIFIED FINE					
#10-32	1	TL14602SF	2TLF-3P-0190	---	---
	1.5	TL14603SF	2TLF-3P-0285	---	---
	2	TL14604SF	2TLF-3P-0380	---	---
	2.5	TL14605SF	2TLF-3P-0475	---	---
	3	---	2TLF-3P-0570	---	---
1/4-28	1	TL14042SF	2TLF-4P-0250	---	---
	1.5	TL14043SF	2TLF-4P-0375	---	---
	2	TL14044SF	2TLF-4P-0500	---	---
	2.5	TL14045SF	2TLF-4P-0625	---	---
	3	---	2TLF-4P-0750	---	---
5/16-24	1	TL14052SF	2TLF-5P-0312	---	---
	1.5	TL14053SF	2TLF-5P-0469	---	---
	2	TL14054SF	2TLF-5P-0625	---	---
	2.5	TL14055SF	2TLF-5P-0781	---	---
	3	---	---	---	---
3/8-24	1	TL14062SF	2TLF-6P-0375	---	---
	1.5	TL14063SF	2TLF-6P-0562	---	---
	2	TL14064SF	2TLF-6P-0750	---	---
	2.5	---	---	---	---
	3	---	---	---	---

TANGLESS UNIFIED FINE- LOCKING - INCONEL X750 (X)

RECOIL TANGLESS INCONEL X750 PART NUMBER	KATO COILTHREAD TANGLESS INCONEL X750 PART NUMBER	NA/NAS TANGLESS INCONEL X750 PART NUMBER	HELICOIL® TANGLESS INCONEL X750 PART NUMBER
TL14602X	2TLF-3T-0190	---	---
TL14603X	2TLF-3T-0285	---	---
TL14604X	2TLF-3T-0380	---	---
TL14605X	2TLF-3T-0475	---	---
TL14606X	2TLF-3T-0570	---	---
TL14042X	2TLF-4T-0250	---	---
TL14043X	2TLF-4T-0375	---	---
TL14044X	2TLF-4T-0500	---	---
TL14045X	2TLF-4T-0625	---	---
TL14046X	2TLF-4T-0750	---	---
TL14052X	2TLF-5T-0312	---	---
TL14053X	2TLF-5T-0469	---	---
TL14054X	2TLF-5T-0625	---	---
TL14055X	2TLF-5T-0781	---	---
---	---	---	---
TL14062X	2TLF-6T-0375	---	---
TL14063X	2TLF-6T-0562	---	---
TL14064X	2TLF-6T-0750	---	---
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## UNF Tangless Locking

TANGLESS UNIFIED FINE - LOCKING - STRIPFEED (SF)

THREAD SIZE	NOMINAL LENGTH (DIA)	RECOIL TANGLESS STRIPFEED PART NUMBER	KATO COILTHREAD TANGLESS STRIPFEED PART NUMBER	NA/NAS TANGLESS STRIPFEED PART NUMBER	HELICOIL TANGLESS STRIPFEED PART NUMBER
#10-32	1	<b>TL14602SF</b>	2TLF-3C-0190SF	---	T3591-3C190S
	1.5	<b>TL14603SF</b>	2TLF-3C-0285SF	---	T3591-3C285S
	2	<b>TL14604SF</b>	2TLF-3C-0380SF	---	T3591-3C380S
	2.5	<b>TL14605SF</b>	2TLF-3C-0475SF	---	---
	3	<b>TL14606SF</b>	2TLF-3C-0570SF	---	---
1/4-28	1	<b>TL14042SF</b>	2TLF-4C-0250SF	---	T3591-4C250S
	1.5	<b>TL14043SF</b>	2TLF-4C-0375SF	---	T3591-4C375S
	2	<b>TL14044SF</b>	2TLF-4C-0500SF	---	T3591-4C500S
	2.5	<b>TL14045SF</b>	2TLF-4C-0625SF	---	---
	3	<b>TL14046SF</b>	2TLF-4C-0750SF	---	---
5/16-24	1	<b>TL14052SF</b>	2TLF-5C-0312SF	---	---
	1.5	<b>TL14053SF</b>	2TLF-5C-0469SF	---	---
	2	<b>TL14054SF</b>	2TLF-5C-0625SF	---	---
	2.5	<b>TL14055SF</b>	2TLF-5C-0781SF	---	---
	3	---	---	---	---
3/8-24	1	<b>TL14062SF</b>	2TLF-6C-0375SF	---	---
	1.5	<b>TL14063SF</b>	2TLF-6C-0562SF	---	---
	2	<b>TL14064SF</b>	2TLF-6C-0750SF	---	---
	2.5	---	---	---	---
	3	---	---	---	---

TANGLESS UNIFIED FINE - LOCKING - CAD PLATED (C)

RECOIL TANGLESS CAD PLATED PART NUMBER	KATO COILTHREAD TANGLESS CAD PLATED PART NUMBER	NA/NAS TANGLESS CAD PLATED PART NUMBER	HELICOIL® TANGLESS CAD PLATED PART NUMBER
<b>UNIFIED FINE</b>			
<b>TL14602C</b>	2TLF-3C-0190Y	NAS1130-3L-10P	T3591-3CY190
<b>TL14603C</b>	2TLF-3C-0285Y	NAS1130-3L-15P	T3591-3CY285
<b>TL14604C</b>	2TLF-3C-0380Y	NAS1130-3L-20P	T3591-3CY380
<b>TL14605C</b>	2TLF-3C-0475Y	NAS1130-3L-25P	---
<b>TL14606C</b>	2TLF-3C-0570Y	NAS1130-3L-30P	---
<b>TL14042C</b>	2TLF-4C-0250Y	NAS1130-4FL-10P	T3591-4CY250
<b>TL14043C</b>	2TLF-4C-0375Y	NAS1130-4FL-15P	T3591-4CY375
<b>TL14044C</b>	2TLF-4C-0500Y	NAS1130-4FL-20P	T3591-4CY500
<b>TL14045C</b>	2TLF-4C-0625Y	NAS1130-4FL-25P	---
<b>TL14046C</b>	2TLF-4C-0750Y	NAS1130-4FL-30P	---
<b>TL14052C</b>	2TLF-5C-0312Y	NAS1130-5FL-10P	---
<b>TL14053C</b>	2TLF-5C-0469Y	NAS1130-5FL-15P	---
<b>TL14054C</b>	2TLF-5C-0625Y	NAS1130-5FL-20P	---
<b>TL14055C</b>	2TLF-5C-0781Y	NAS1130-5FL-25P	---
---	---	---	---
<b>TL14062C</b>	2TLF-6C-0375Y	NAS1130-6FL-10P	---
<b>TL14063C</b>	2TLF-6C-0562Y	NAS1130-6FL-15P	---
<b>TL14064C</b>	2TLF-6C-0750Y	NAS1130-6FL-20P	---
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TANGLESS UNIFIED FINE - LOCKING - DRY FILM LUBE (D)

RECOIL TANGLESS DRY FILM LUBE PART NUMBER	KATO COILTHREAD TANGLESS DRY FILM LUBE PART NUMBER	NA/NAS TANGLESS DRY FILM LUBE PART NUMBER	HELICOIL® TANGLESS DRY FILM LUBE PART NUMBER
<b>TL14602D</b>	2TLF-3C-0190W	NAS1130-3L-10D	T3591-3CW190
<b>TL14603D</b>	2TLF-3C-0285W	NAS1130-3L-15D	T3591-3CW285
<b>TL14604D</b>	2TLF-3C-0380W	NAS1130-3L-20D	T3591-3CW380
<b>TL14605D</b>	2TLF-3C-0475W	NAS1130-3L-25D	---
<b>TL14606D</b>	2TLF-3C-0570W	NAS1130-3L-30D	---
<b>TL14042D</b>	2TLF-4C-0250W	NAS1130-4FL-10D	T3591-4CW250
<b>TL14043D</b>	2TLF-4C-0375W	NAS1130-4FL-15D	T3591-4CW375
<b>TL14044D</b>	2TLF-4C-0500W	NAS1130-4FL-20D	T3591-4CW500
<b>TL14045D</b>	2TLF-4C-0625W	NAS1130-4FL-25D	---
<b>TL14046D</b>	2TLF-4C-0750W	NAS1130-4FL-30D	---
<b>TL14052D</b>	2TLF-5C-0312W	NAS1130-5FL-10D	---
<b>TL14053D</b>	2TLF-5C-0469W	NAS1130-5FL-15D	---
<b>TL14054D</b>	2TLF-5C-0625W	NAS1130-5FL-20D	---
<b>TL14055D</b>	2TLF-5C-0781W	NAS1130-5FL-25D	---
---	---	---	---
<b>TL14062D</b>	2TLF-6C-0375W	NAS1130-6FL-10D	---
<b>TL14063D</b>	2TLF-6C-0562W	NAS1130-6FL-15D	---
<b>TL14064D</b>	2TLF-6C-0750W	NAS1130-6FL-20D	---
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# Howmet Fastening Systems

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