

Recoil Kits/Tools Metric

Thread Size/Pitch	Kits	Installation Tools	Production Insertion Tools			Electric Mandrels	Tangbreak Tools	Extraction Tool	Gauges	
			Pre- Winder	Light - Winder	Non - Captive				4H5H Tol.	5H MED
*M2 - 0.4	35028	50061-20				55027B	59060M	50002	65024	65025
*M2.2 - 0.45	35018	50061-21	55011				59060M	50002	65014	65015
*M2.5 - 0.45	35258	50069-17	55251			55257B	59070M	50002	65254	65255
*M3 - 0.5	35038	50089-17	55031	55032U		55037B	59090M	50002	65034	65035
*M3.5 - 0.6	35358	50095-15	55351				59100M	50002	65354	65355
*M4 - 0.7	35048	50125-13	55041	55042U		55047B	59130M	50003	65044	65045
*M5 - 0.8	35058	50156-9	55051	55052U		55057B	59160M	50003	65054	65055
*M6 - 1	35068	50188-5	55061	55062U		55067B	59190M	50003	65064	65065
*M7 - 1	35078	50219-4	55071				59220M	50003	65074	65075
M8 - 0.75	N/A	50250-0						50003		
*M8 - 1	37088	50250-7	57081				59250M	50003	67084	67085
*M8 - 1.25	35088	50250-7	55081	55082U		55087B	59250M	50003	65084	65085
*M9 - 1	37098	50281-5					59280M	50003	67094	67095
*M9 - 1.25	35098	50281-5					59280M	50003	65094	65095
*M10 - 1	38108	50313-12	58101			58107B	59310M	50003		
*M10 - 1.25	37108	50281-4	57101	57102U			59310M	50003	67104	67105
*M10 - 1.5	35108	50281-4	55101	55102U		55107B	59280M	50003	65104	65105
*M11 - 1	38118	50344-4					59340M	50003	68114	68115
*M11 - 1.25	37118	50344-4					59340M	50003	67114	67115
*M11 - 1.5	35118	50344-4					59340M	50003	65114	65115
*M12 - 1	N/A	50375-0								
*M12 - 1.25	38128	50375-1	58121				59380M	50003		
*M12 - 1.5	37128	50375-1	57121	57122U		57127B	59380M	50003	67124	67125
*M12 - 1.75	35128	50375-1	55121	55122U		55127B	59380M	50003	65124	65125
M13 - 1.25	38138	50375-0						50003	68134	68135
M13 - 1.5	37138	50375-0						50003	67134	67135
M13 - 1.75	35138	50375-0						50003	65134	65135
M14 - 1.25	38148-1	50468-0						50003		
M14 - 1.5	37148	50438-0	57141					50003	67144	67145
M14 - 2	35148	50438-0	55146					50003	65144	65145
M15 - 1.5	37150	50438-0						50003	67154	67155
M15 - 2	35158	50438-0						50003	65154	65155
M16 - 1.5	37168	50500-0			57161			50003	67164	67165
M16 - 2	35168	50500-0	55166		55161			50003	65164	65165
M18 - 1.5	38188-1	50591-0	57181					50003		
M18 - 2	37188	50591-0						50003	67184	67185
M18 - 2.5	35188	50591-0	55186					50003	65184	65185
M20 - 1.5	38200	50591-0			58201			50004	68204	68205
M20 - 2	37208	50591-0						50004	67204	67205
M20 - 2.5	35208	50591-0						50004	65204	65205
M22 - 1.5	38220	50688						50004	68224	68225
M22 - 2	37220	50688						50004	67224	67225
M22 - 2.5	35220	50688						50004	65224	65225
M24 - 1.5	38240	50750						50004	68244	68245
M24 - 2	37240	50750						50004	67244	67245
M24 - 3	35240	50750						50004	65244	65245
M26 - 1.5	38260	50875						50004	68264	68265
M27 - 1.5	38270	50875						50004	68274	68275
M27 - 2	37270	50875			57271				67274	67305
M27 - 3	35270	50875							65274	65275
M30 - 1.5	38300	51000							68304	68305
M30 - 2	37300	51000							67304	67305
M30 - 3	35300-3	51000							65304-3	65305-3
M30 - 3.5	35300	51000							65304	65305
M33 - 2	37330	51063								
M33 - 3.5	35330	51063								
M36 - 1.5	38360	51125							68364	68365

* Drill and magnetic tangbreak tool included

Recoil Kits/Tools Metric

Thread Size/Pitch	Kits	Installation Tools	Production Insertion Tools			Electric Mandrels	Tangbreak Tools	Extraction Tool	Gauges	
			Pre- Winder	Light - Winder	Non - Captive				4H5H Tol.	5H MED
M36 - 3	37360	51125			57361					
M36 - 4	35360	51125						65364	65365	
M39 - 2	38390	51250						68394	68395	
M39 - 3	37390	51250						67394	67395	
M39 - 4	35390	51250						65394	65395	
M42 - 2	38420	51250						68424	68425	
M42 - 3	37420	51250			57421			67424	67425	
M42 - 4	35420-4	51250						65424-4	65425-4	
M42 - 4.5	35420	51250			55421					
M45 - 3	N/A	51250								
M45 - 4.5	35450	51250						65424	65425	
M48 - 3	N/A	51500								
M48 - 4	N/A	51500								
M48 - 5	N/A	51500								
M52 - 3	N/A	51500			57421					
M52 - 5	N/A	51500			55521					

Recoil Kits/Tools Unified

Thread Size/Pitch UNC	Kits	Installation Tools	Production Insertion Tools			Electric Mandrels	Tangbreak Tools	Extraction Tool	Gauges	
			Pre- Winder	Mandrel	Light - Weight				Non - Captive	3BCLOSE
*#2 - 56	33528	50061-17	53521		53522U	53527B	59060M		63523	63522
*#3 - 48	33538	50069-17	53531	53536	53532U		59070M		63533	63532
*#4 - 40	33548	50077-17	53541		53542U	53547B	59100M	50002	63543	63542
*#5 - 40	33558	50089-18	53551		53542U		59090M	50002	63553	63552
*#6 - 32	33568	50095-16	53561		53562U	53576B	59100M	50002	63563	63562
*#8 - 32	33588	50125-14	53581		53582U	53587B	59130M	50002	63583	63582
*#10 - 24	33608	50140-11	53601		53602U	53607B	59140M	50002	63603	63602
*#12 - 24	33628	50156-10	53621		53622U		59160M	50002	63623	63622
*1/4 - 20	33048	50188-10	53041		53042U	53047B	59190M	50002	63043	63042
*5/16 - 18	33058	50219-8	53051		53052U	53057B	59220M	50002	63053	63052
*3/8 - 16	33068	50281-4	53061		53062U	53067B	59280M	50002	63063	63062
*7/16 - 14	33078	50344-3	53071		53072U	53077B	59310M	50003	63073	63072
*1/2 - 13	33088	50375-2	53081		53082U	53087B	59380M	50003	63083	63082
9/16 - 12	33098	50438-0	53091	53096				50003	63093	63092
5/8 - 11	33108	50500-0		53106		53101		50003	63103	63102
11/16 - 11	33110	50500-0				53111		50003	63113	63112
3/4 - 10	33128	50591-0		53126		53121		50003	63123	63122
7/8 - 9	33140	50688		53146		53141		50003	63143	63142
1" - 8	33160	50750		53166		53161		50003	63163	63162
1 1/8 - 7	33180	50875		53186				50004	63183	63182
1 1/4 - 7	33200	51000		53206				50004	63203	63202
1 3/8 - 6	33220	51063		53226				50004	63223	63222
1 1/2 - 6	33240	51125		53246				50004	63243	63242

* Drill and magnetic tangbreak tool included

Recoil Kits/Tools Unified

Thread Size/Pitch	Kits	Installation Tools	Production Insertion Tools			Electric Mandrels	Tangbreak Tools	Extraction Tool	Gauges	
			Pre- Winder	Mandrel	Light - Weight				Non - Captive	3BCLOSE
UNF										
*#3 - 56	34538	50069-17	54531				59070M	50002	64533	64532
*#4 - 48	34548	50077-17	54541		54542U		59080M	50002	64543	64542
*#6 - 40	34568	50095-17	54561		54562U		59100M	50002	64563	64562
*#8 - 36	34588	50125-14	54581		54582U		59130M	50002	64583	64582
*#10 - 32	34608	50156-11	54601		54602U	54607B	59160M	50002	64603	64602
*#12 - 28	34628	50156-10					59160M	50002		
*1/4 - 28	34048	50188-10	54041		54042U	54047B	59190M	50002	64043	64042
*5/16 - 24	34058	50250-8	54051		54052U	54057B	59250M	50002	64053	64052
*3/8 - 24	34068	50313-6	54061		54062U	54067B	59280M	50002	64063	64062
*7/16 - 20	34078	50344-4	54071		54072U	54077B	59310M	50003	64073	64072
*1/2 - 20	34088	50375-3	54081		54082U	54087B	59380M	50003	64083	64082
9/16 - 18	34098	50438-0				54091		50003	64093	64092
5/8 - 18	34108	50500-0				54101		50003	64103	64102
3/4 - 16	34128	50591-0				54121		50003	64123	64122
7/8 - 14	34140	50688				54141		50003	64143	64142
1" - 12	34160	50750				54161		50003	64163	64162
1" - 14	34160-14	50750				54171		50003	64163-14	64162-14
1 1/8 - 12	34180	51000				54181		50004	64183	64182
1 1/4 - 12	34200	51063						50004	64203	64202
1 3/8 - 12	34220	51125						50004	64223	64222
1 1/2 - 12	34240	51250						50004	64243	64242
BA										
	Kits	Tools								
*0BA	30508	50188-5					59190M	50002		60502
*2BA	30528	50140-9					59140M	50002		60522
*4BA	30548	50095-15					59100M	50002		60542
*6BA	30568	50077-17					59070M	50002		60562
BSC										
*5/16 - 26	36508	50250-4					59250M	50002		66502
*3/8 - 26	36608	50313-5					59310M	50002		66602
*7/16 - 26	36708	50344-4					59340M	50003		66702
*1/2 - 26	36808	50375-1					59380M	50003		66802
BSF										
*3/16 - 32	30038	50156-9					59160M	50002		60032
*1/4 - 26	30048	50188-5					59190M	50002		60042
*5/16 - 22	30058	50250-5					59250M	50002		60052
*3/8 - 20	30068	50281-5					59280M	50002		60062
*7/16 - 18	30078	50344-4					59340M	50003		60072
*1/2 - 16	30088	50375-1					59380M	50003		60082
9/16 - 16	30098	50438-0						50003		60092
5/8 - 14	30108	50500-0						50003		60102
3/4 - 12	30128	50591-0						50003		60122
7/8 - 11	30140	50688						50003		60142
1" - 10	30160	50750						50003		60162
1 1/4 - 9	30200*	51000								60202

* Drill and magnetic tangbreak tool included

Recoil Kits/Tools Unified

Thread Size/Pitch	Kits	Installation Tools	Production Insertion Tools			Electric Mandrels	Tangbreak Tools	Extraction Tool	Gauges	
			Pre- Winder	Mandrel	Light - Weight				Non - Captive	3BCLOSE
BSP										
*1/8 - 28	31028	50313-5					59310M	50002		61022
1/4 - 19	31048	50438-0						50002		61042
3/8 - 19	31068	50500-0						50002		61062
1/2 - 14	31080	50688						50003		64082
5/8 - 14	31100	50875						50003		61102
3/4 - 14	31120	51125						50003		61122
1" - 11	31160							50003		61162
BSW										
*1/8 - 40	32028	50089-19					59090M	50002		62022
*3/16 - 24	32038	50140-9					59140M	50002		62032
*1/4 - 20	32048	50188-5					59190M	50002		62042
*5/16 - 18	32058	50219-8					59200M	50002		62052
*3/8 - 16	32068	50281-4					59280M	50002		62062
*7/16 - 14	32078	50344-1					59340M	50003		62072
*1/2 - 12	32088	50375-1					59380M	50003		62082
9/16 - 12	32098	50438-0						50003		62092
5/8 - 11	32108	50500-0						50003		62102
3/4 - 10	32128	50591-0						50003		62122
7/8 - 9	32140	50688						50003		62142
1" - 8	32160	50750						50003		62162
1 1/8 - 7	32180	50875						50004		62182
1 1/4 - 7	32200	51000						50004		62202
1 3/8 - 6	32220	50875						50004		62222
1 1/2 - 6	32240	51125						50004		62242
NPT										
*1/8 - 27	36028	50313-1					59310M	50002		
1/4 - 18	36048	50438-0						50003		
3/8 - 18	36068	50500-0						50003		
1/2 - 14	36080	50688						50004		
3/4 - 14	36120	50875						50004		
1 - 11 1/2	36160	51125						50004		
8 TPI UN										
1 1/8 - 8	36180	50875						50004	66183	66182
1 1/4 - 8	36200	51000				56201		50004	66204	66202
1 3/8 - 8	36220	51063				56226		50004	66223	66222
1 1/2 - 8	36240	51125				56241		50004	66243	66242
1 5/8 - 8	36260	51250				56261		50005	66263	66262
1 3/4 - 8	36280	51250				56281		50005	66283	66282
1 7/8 - 8	36300	51500						50005	66303	66302
2" - 8	36320	51500				56321		50005	66323	66322
2 1/8 - 8	N/A					56341		50005		
2 1/4 - 8	N/A					56361		50005		
2 1/2 - 8	N/A	52125				56401		50005		
2 3/4 - 8	N/A					56441		50005		
3" - 8	N/A	52500				56481		50005		

Spark Plug Sizes	Kits	
M10 - 1 SPK	38108-2	
M12 - 1.25 SPK	38120-2	
M14 - 1.25	38140	
M14 - 1.25 SPK	38148-2	Contains 5 each x 3/4" and 3/8" spark plug inserts
M18 - 1.5	38188	

Plugsaver Sizes	
M14 - 1.25 SPK	38148

Exhaust Analysis Size	
M18 - 1.5	38188-X

* Drill and magnetic tangbreak tool included

Production Installation Tooling

Power Tools

The Recoil range of power tooling ensures consistent high volume thread insert installation for a variety of applications. Recoil powered installation tools may be supplied for use with either a compressed air supply or via a stabilized low voltage power supply to suit your particular requirements. Both equipment types offer significant productivity gains for high volume insert use.

Pneumatic Power Tooling

- Wide thread size range #2-56 through 3/4", or M2.5 through M16, coarse and fine
- Rugged and versatile air motor
- May be used with captive strip feed or bulk insert insertion
- Standard speed 1500 rpm
- Auto reverse on release of trigger The complete pneumatic insert installation tool comprises three components:
 - Air motor with single lever control to install and retract
 - Adaptor - connect the motor to the insert drive nozzle - small and large types
 - Front end assembly nozzle to suit the particular insert thread size

Electric Power Tooling

- Size range #2-56 through 1/4", M2 through M10
- Auto reverse on installation
- Clean, lightweight, quiet
- Suitable for bulk insert only
- Easy Adjust Depth Control Collar
- Suitable for use with torque control
- Hardened Steel Hex Drive Mandrel screwdrivers
 - alpha - 5000
 - SB7 - 50

Compressed Air Supply for Pneumatic Installation Tools chart

PRESSURE RECOMMENDATIONS FOR INSERT SIZES										
Inch	#2 #4	#5	#6	#8 #10	1/4"	5/16"	3/8"	7/16"	1/2"	
Metric	M2 - 2.5, M2.5	M3	M3.5	M4, M5	M6, M7	M8	M10	-	M12	
RECOMMENDED PRESSURE										
psi	25	20-30	25-30	40	45	50-60	60	70	70-80	90
bar	1.70	1.3-2.0	1.7-2.0	2.72	3.06	3.4-4.0	4.0	4.76	4.7-5.4	6.0
MPa	0.172	0.138-0.206	0.172-0.206	0.275	0.310	.344-0.413	0.413	0.482	0.482-0.551	0.620

If difficulty is encountered within the above settings, reduce the pressure until the optimum setting is found. It is imperative that a regulated moisture-free and filtered air supply is used with all Recoil pneumatic tooling. Reliability will be affected if an adequate and regulated air supply is not used with these tools. Guidelines for typical Recoil insert tool pressure requirements are shown above.

Strip-Feed Inserts

To complete the Recoil power installation tools, Recoil has inserts available on strip (M2.5-M12, #2-5/16) to optimize production with increased installation cycles and reduced operator fatigue. Recoil strip feed inserts provide many advantages such as minimized handling costs, faster, more economical assembly and positive inventory control. When used in combination with Recoil pneumatic installation tooling, each insert is retained in plastic strip which is passed through a slot in the front end assembly nozzle, indexing the insert to the installation mandrel. Recoil Strip-Feed inserts are available in most common thread diameters and lengths in addition to the various surface finishes which are available on standard Recoil bulk inserts. The table shows some commonly supplied Recoil Strip-Feed inserts and defines the typical quantity of inserts supplied per reel for each given thread size. Additional insert diameters and lengths may be available to special order.

Pneumatic Power Tool



Front End Assembly



Electric Power Tool with Mandrel



Electric Mandrel Specifications Metric

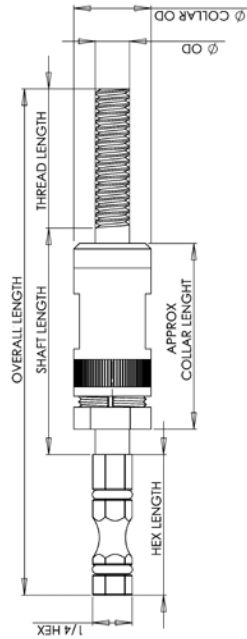
Electric Mandrel Metric																
Size	Part No.	OD (mm)	OD (inch)	Thread Length (mm)	Thread Length (inch)	Collar OD (mm)	Collar OD (inch)	Approx Collar Length (mm)	Approx Collar Length (inch)	Shaft Length (mm)	Shaft Length (inch)	Hex Length (mm)	Hex Length (inch)	Hex Drive	Overall Length (mm)	Overall Length (inch)
M2 x 0.4	55027B	2.05	0.080	13	0.512	6	0.236	25.5	1.004	35	1.378	25.6	1.008	1/4"	73.5	2.894
M2 x 0.45	55257B	2.5	0.098	13	0.512	6	0.236	25.5	1.004	35	1.378	25.6	1.008	1/4"	73.5	2.894
M3 x 0.5	55037B	2.85	0.112	13	0.512	6	0.236	25.5	1.004	35	1.378	25.6	1.008	1/4"	73.5	2.894
M4 x 0.7	55047B	3.7	0.145	15	0.591	10	0.394	25	0.984	45	1.772	25.6	1.008	1/4"	85.5	3.366
M5 x 0.8	55057B	4.7	0.185	25	0.984	10	0.394	33	1.299	43.5	1.713	25.6	1.008	1/4"	94	3.701
M6 x 1.0	55067B	5.75	0.226	25	0.984	10	0.394	33	1.299	43.5	1.713	25.6	1.008	1/4"	94	3.701
M8 x 1.25	55087B	7.2	0.283	25	0.984	14	0.551	35	1.378	43.5	1.713	25.6	1.008	1/4"	94	3.701
M10 x 1.0	58107B	9.75	0.383	35	1.378	16	0.630	37	1.457	40.5	1.594	25.6	1.008	1/4"	101	3.976
M10 x 1.25	57107B	9.75	0.383	35	1.378	16	0.630	37	1.457	40.5	1.594	25.6	1.008	1/4"	101	3.976
M10 x 1.5	55107B	9.35	0.368	35	1.378	16	0.630	37	1.457	40.5	1.594	25.6	1.008	1/4"	101	3.976
M12 x 1.5	57127B	11.55	0.454	40	1.575	18	0.709	45	1.772	45.5	1.791	25.6	1.008	1/4"	111	4.370
M12 x 1.75	55127B	11.6	0.456	40	1.575	18	0.709	45	1.772	45.5	1.791	25.6	1.008	1/4"	111	4.370

Electric Mandrel UNC																
Size	Part No.	OD (mm)	OD (inch)	Thread Length (mm)	Thread Length (inch)	Collar OD (mm)	Collar OD (inch)	Approx Collar Length (mm)	Approx Collar Length (inch)	Shaft Length (mm)	Shaft Length (inch)	Hex Length (mm)	Hex Length (inch)	Hex Drive	Overall Length (mm)	Overall Length (inch)
UNC #2-56	53527B	2.15	0.085"	15	0.591	6	0.236	25.5	1.004	43.5	1.713	25.6	1.008	1/4"	84	3.307
UNC #4-40	53547B	2.7	0.106"	15	0.591	6	0.236	24.5	0.965	43.5	1.713	25.6	1.008	1/4"	84	3.307
UNC #6-32	53567B	3.2	0.128"	16	0.630	6	0.236	25.6	1.008	43.5	1.713	25.6	1.008	1/4"	85	3.346
UNC #8-32	53587B	3.9	0.154"	18	0.709	10	0.394	30	1.181	43.5	1.713	25.6	1.008	1/4"	87	3.425
UNC #10-24	53607B	4.5	0.177"	18	0.709	10	0.394	30	1.181	43.5	1.713	25.6	1.008	1/4"	87	3.425
UNC 1/4-20	53047B	6.2	0.244"	26	1.024	14	0.551	35	1.378	40.5	1.594	25.6	1.008	1/4"	92	3.622
UNC 5/16-18	53057B	7.3	0.287"	25	0.984	14	0.551	35	1.378	36.5	1.437	25.6	1.008	1/4"	87	3.429
UNC 3/8-16	53067B	9.1	0.358"	35	1.378	16	0.630	41	1.614	45.5	1.791	25.6	1.008	1/4"	106	4.177
UNC 7/16-20	53077B	10.5	0.413"	38	1.496	16	0.630	43	1.693	42.5	1.673	25.6	1.008	1/4"	106	4.177
UNC 1/2-13	53087B	12.1	0.476"	45	1.772	18	0.709	45	1.772	45.5	1.791	25.6	1.008	1/4"	116	4.571

Dimensions are reference only

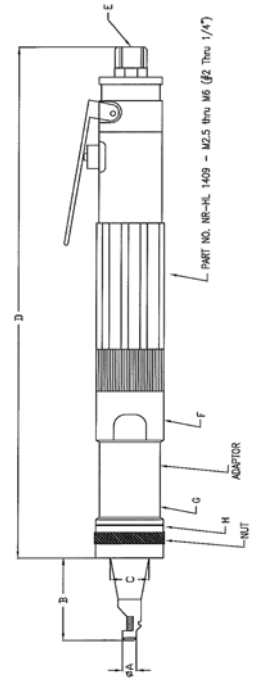
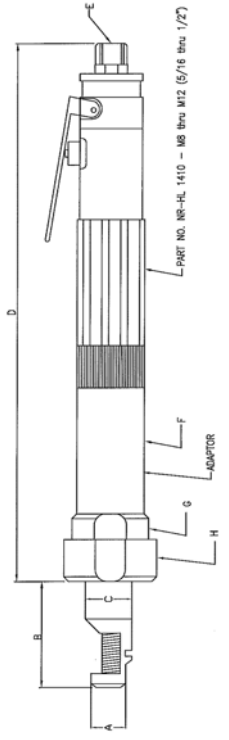
Electric Mandrel Specifications Unified

Electric Mandrel UNF		Part No.	OD (mm)	OD (inch)	Thread Length (mm)	Thread Length (inch)	Collar OD (mm)	Collar OD (inch)	Approx Collar Length (mm)	Approx Collar Length (inch)	Shaft Length (mm)	Shaft Length (inch)	Hex Length (mm)	Hex Length (inch)	Hex Drive	Overall Length (mm)	Overall Length (inch)
UNC #10-32	54607B	4.5	0.177	21	0.827	10	0.394	35	1.378	35	1.378	35	1.378	1/4"	1/4"	81.5	3.209
UNC 1/4-28	54047B	6.3	0.248	25	0.984	14	0.551	37	1.457	36.5	1.437	36.5	1.437	1/4"	1/4"	87	3.425
UNC 5/16-24	54057B	7.4	0.291	25	0.984	14	0.551	35	1.378	40	1.575	40	1.575	1/4"	1/4"	90.5	3.563
UNC 3/8-24	54067B	8.9	0.350	35	1.378	16	0.630	41	1.614	40.5	1.594	40.5	1.594	1/4"	1/4"	101.5	3.996
UNC 7/16-20	54077B	10.9	0.429	41	1.614	18	0.709	43	1.693	42	1.654	42	1.654	1/4"	1/4"	108.5	4.272
UNC 1/2-20	54087B	12.3	0.484	45	1.772	18	0.709	45	1.772	40.5	1.594	40.5	1.594	1/4"	1/4"	111	4.370



Part No. NR-HL 1410		Size	A	B	C	D	E	F	G	H
1/4-28	Ø20	Ø20	71	Ø25	230mm	BSP 1/8-28	Ø29	Ø33	Ø40	Ø40
1/2-13	Ø20	Ø20	71	Ø25	230mm	BSP 1/8-28	Ø29	Ø33	Ø40	Ø40
7/16-20	Ø20	Ø20	65	Ø25	230mm	BSP 1/8-28	Ø29	Ø33	Ø40	Ø40
7/16-14	Ø20	Ø20	65	Ø25	230mm	BSP 1/8-28	Ø29	Ø33	Ø40	Ø40
3/8-24	Ø17.5	Ø17.5	55	Ø22.5	230mm	BSP 1/8-28	Ø29	Ø33	Ø40	Ø40
3/8-16	Ø17.5	Ø17.5	55	Ø22.5	230mm	BSP 1/8-28	Ø29	Ø33	Ø40	Ø40
5/16-24	Ø15	Ø15	50	Ø20	230mm	BSP 1/8-28	Ø29	Ø33	Ø40	Ø40
5/16-18	Ø15	Ø15	50	Ø20	230mm	BSP 1/8-28	Ø29	Ø33	Ø40	Ø40
M12x1.75	Ø20	Ø20	71	Ø25	230mm	BSP 1/8-28	Ø29	Ø33	Ø40	Ø40
M10x1.5	Ø17.5	Ø17.5	55	Ø22.5	230mm	BSP 1/8-28	Ø29	Ø33	Ø40	Ø40
M8x1.25	Ø15	Ø15	50	Ø20	230mm	BSP 1/8-28	Ø29	Ø33	Ø40	Ø40

Part No. NR-HL 1409		Size	A	B	C	D	E	F	G	H
1/4-28	Ø11	Ø11	41.5	Ø16	217mm	BSP 1/8-28	Ø28	Ø26	Ø29.5	Ø29.5
10-32	Ø9.5	Ø9.5	41.5	Ø18.5	217mm	BSP 1/8-28	Ø28	Ø26	Ø29.5	Ø29.5
1/4-20	Ø11	Ø11	41.5	Ø16	217mm	BSP 1/8-28	Ø28	Ø26	Ø29.5	Ø29.5
#10-24	Ø9.5	Ø9.5	41.5	Ø18.5	217mm	BSP 1/8-28	Ø28	Ø26	Ø29.5	Ø29.5
#8-32	Ø8	Ø8	41.5	Ø18.5	217mm	BSP 1/8-28	Ø28	Ø26	Ø29.5	Ø29.5
#6-32	Ø8	Ø8	41.5	Ø18	217mm	BSP 1/8-28	Ø28	Ø26	Ø29.5	Ø29.5
#4-40	Ø6	Ø6	41.5	Ø16	217mm	BSP 1/8-28	Ø28	Ø26	Ø29.5	Ø29.5
M6x1	Ø11	Ø11	41.5	Ø16	217mm	BSP 1/8-28	Ø28	Ø26	Ø29.5	Ø29.5
M5x0.8	Ø10	Ø10	41.5	Ø18.5	217mm	BSP 1/8-28	Ø28	Ø26	Ø29.5	Ø29.5
M4x0.7	Ø8	Ø8	41.5	Ø18.5	217mm	BSP 1/8-28	Ø28	Ø26	Ø29.5	Ø29.5
M30.5	Ø6	Ø6	41.5	Ø16	217mm	BSP 1/8-28	Ø28	Ø26	Ø29.5	Ø29.5



Pneumatic Installation Tooling

The following table denotes the part numbers of all pneumatic installation tooling for the most popular thread size ranges.

SUIT ARO & NR SERIES		SPARES FOR FRONT END ASSEMBLY			
FRONT END ASSEMBLY		NR MOTOR & ADAPTOR		FRONT END ASSEMBLY	
SIZE	PART NO.	PART NO.	SIZE	NOZZLE	MANDREL
METRIC COARSE		METRIC COARSE			
M2.2 x .45	55250	NR-HL 1409	M2.2 x 0.45	55258	55259
M2.5 x .45	55250	NR-HL 1409	M2.5 x 0.45	55258	55259
M3 x 0.5	M8751-3-15	NR-HL 1409	M3 x 0.5	M8769-3-15	M8757-3
M3.5 x 0.6	M8751-3.5-15	NR-HL 1409	M3.5 x 0.6	M8769-3.5-15	M8757-3.5
M4 x 0.7	M8751-4-15	NR-HL 1409	M4 x 0.7	M8769-4-15	M8757-4
M5 x 0.8	M8751-5-15	NR-HL 1409	M5 x 0.8	M8769-5-15	M8757-5
M6 x 1	M8751-6-15	NR-HL 1409	M6 x 1	M8769-6-15	M8757-6
M7 x 1	55070	NR-HL 1410	M7 x 1	55078	55079
M8 x 1.25	M8751-8-15	NR-HL 1410	M8 x 1.25	M8769-8-15	M8757-8
M10 x 1.5	M8751-10-15	NR-HL 1410	M10 x 1.5	M8769-10-15	M8757-10
M12 x 1.75	M8751-12-15	NR-HL 1410	M12 x 1.75	M8769-12-15	M8757-12
M16 x 2	55160	NR-HL 1410	M16 x 2	55168	55169
METRIC FINE		METRIC FINE			
M8 x 1	57080	NR-HL 1410	M8 x 1	57088	57089
M10 x 1	58100	NR-HL 1410	M10 x 1	58108	58109
M10 x 1.25	57100	NR-HL 1410	M10 x 1.25	57108	57109
M12 x 1.25	58120	NR-HL 1410	M12 x 1.25	58128	58129
M12 x 1.5	57120	NR-HL 1410	M12 x 1.5	57128	57129
M14 x 1.5	M8753-14	NR-HL 1410	M14 x 1.5	M8773-14	M8774-14
UNC		UNC			
2 - 56	53520	NR-HL 1409	2 - 56	53528	53529
4 - 40	M8551-04-15	NR-HL 1409	4 - 40	M8557-04-15	M8553-04
5 - 40	M8851-05-15	NR-HL 1409	5 - 40	M8557-05-15	M8553-05
6 - 32	M8551-06-15	NR-HL 1409	6 - 32	M8557-06-15	M8553-06
8 - 32	M8551-2-15	NR-HL 1409	8 - 32	M8557-2-15	M8553-2
10 - 24	M8551-3-15	NR-HL 1409	10 - 24	M8557-3-15	M8553-3
1/4 - 20	M8551-4-15	NR-HL 1409	1/4 - 20	M8557-4-15	M8553-4
5/16-18	M8251-5-15	NR-HL 1410	5/16 - 18	M8257-5-15	M8253-5
3/8 - 16	M8251-6-16	NR-HL 1410	3/8 - 16	M8257-6-15	M8253-6
7/16 - 14	M8251-7-15	NR-HL 1410	7/16 - 14	M8257-7-15	M8253-7
1/2 - 13	M8251-8-15	NR-HL 1410	1/2 - 13	M8257-8-15	M8253-8
5/8 - 11	53100	NR-HL 1410	5/8 - 11	53108	53109
3/4 - 10	53120	NR-HL 1410	3/4 - 10	53128	53129
UNF		UNF			
6 - 40	54560	NR-HL 1409	6 - 40	54568	54569
10 - 32	M8552-3-15	NR-HL 1409	10 - 32	M8558-3-15	M8554-3
1/4 - 28	M8552-4-15	NR-HL 1409	1/4 - 28	M8558-4-15	M8554-4
5/16 - 24	M8252-5-15	NR-HL 1410	5/16 - 24	M8258-5-15	M8254-5
3/8 - 24	54060	NR-HL 1410	3/8 - 24	54068	54069
7/16 - 20	M8252-7-15	NR-HL 1410	7/16 - 20	M8258-7-15	M8254-7
1/2 - 20	M8252-8-15	NR-HL 1410	1/2 - 20	M8258-8-15	M8254-8
5/8 - 18	M8252-9	NR-HL 1410	5/8 - 18	M8258-9	M8254-9
3/4 - 16	54120	NR-HL 1410	3/4 - 16	54128	54129