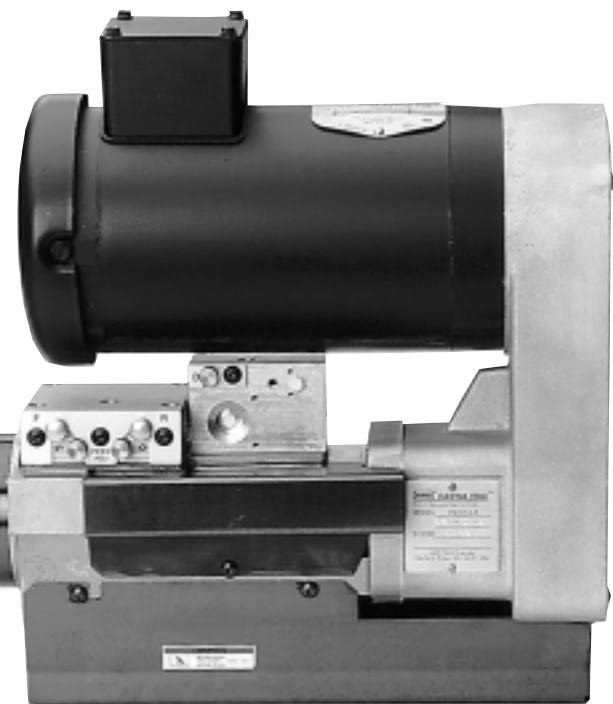
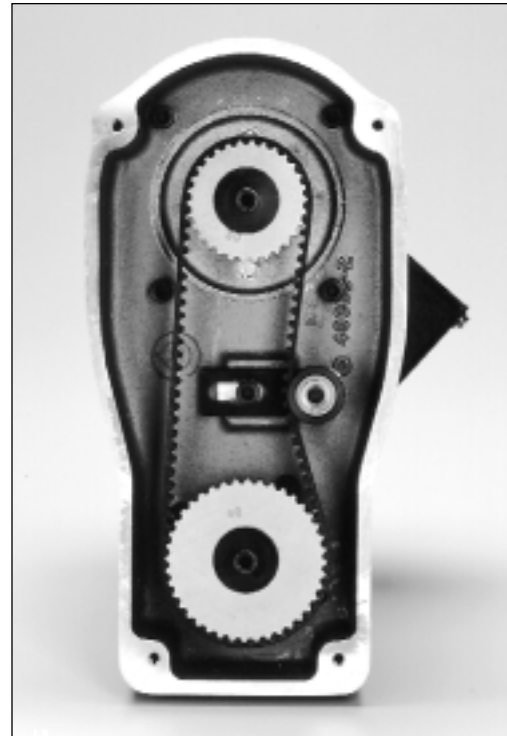


RELIABLE AND PRECISE PERFORMANCE FOR CONSISTENT RESULTS

Each unique feature of the ARO Series 34, 54 and 74 Electra-Feed Drill supports unsurpassed performance accuracy:

- A precision spindle with pre-loaded bearing support for accurate targeting, longevity, and .001 t.i.r. runout, or less.
- Built-in dwell control that holds repeatable depth within .002 inches.
- Individually adjustable feed rate control for advance and retract.
- The longest usable tool stroke length (adjustable to 110 mm [4.33 inches]) available in such a compact tool.
- Variable thrust from 150 to 330 lbs. for proper penetration power and rate.
- A heavy duty, ball-bearing supported drive train that is fully sealed and prelubed.
- Air and electric I/O's for control and feedback.

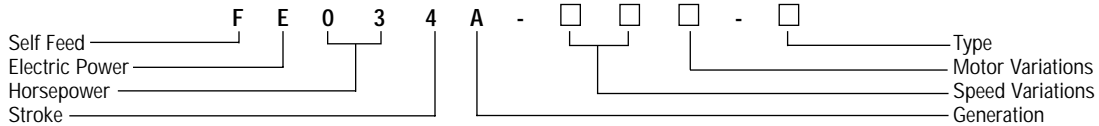


(See page 51 for more dimensions)

Electric/Pneumatic Self-Feed Drills



Made in the U.S.A. to the Following Specifications: F E O 3 4 A - 7 7 B - A
 Example of product identification



Model Number FE034A-()-A	Free Speed, R.P.M.	Load Speed Peak H.P. R.P.M.	Torque, Peak H.P. LB.FT.	Stainless 300 Series	Nominal Drilling Capacities Steel S.A.E. 1213	Aluminum 2024-T4	Med. Wood or F.R.P.
FE034A-77B-A	7690	7013	0.23	.018/.020	.036/.040	.070/.093	.078/.096
FE034A-67B-A	6750	6155	0.26	.020/.026	.040/.046	.093/.101	.096/.110
FE034A-59B-A	5954	5486	0.30	.026/.029	.046/.052	.101/.116	.110/.125
FE034A-54B-A	5400	4977	0.33	.029/.032	.052/.059	.116/.136	.125/.140
FE034A-48B-A	4800	4470	0.38	.032/.037	.059/.063	.136/.147	.140/.156
FE034A-43B-A	4274	3979	0.42	.037/.041	.063/.073	.147/.166	.156/.187
FE034A-38B-A	3808	3582	0.47	.041/.046	.073/.082	.166/.187	.187/.209
FE034A-34B-A	3398	3197	0.53	.046/.052	.082/.093	.187/.201	.209/.234
FE034A-30B-A	3030	2851	0.60	.052/.059	.093/.104	.201/.221	.234/.265
FE034A-27B-A	2700	2566	0.67	.059/.067	.104/.116	.221/.234	.265/.281
FE034A-24B-A	2400	2279	0.75	.067/.073	.116/.128	.234/.265	.281/.312
FE034A-22B-A	2178	2070	0.83	.073/.081	.128/.147	.265/.281	.312/.343
FE034A-19B-A	1920	1822	0.94	.081/.093	.147/.164	.281/.296	.343/.390
FE034A-17B-A	1685	1600	1.07	.093/.098	.164/.187	.296/.312	.390/.406
FE034A-38C-A	3845	3507	0.47	.041/.046	.073/.082	.166/.187	.187/.209
FE034A-34C-A	3375	3078	0.53	.046/.052	.082/.093	.187/.201	.209/.234
FE034A-30C-A	2977	2744	0.60	.052/.059	.093/.104	.201/.221	.234/.265
FE034A-27C-A	2700	2488	0.67	.059/.067	.104/.116	.221/.234	.265/.281
FE034A-24C-A	2400	2235	0.75	.067/.073	.116/.128	.234/.265	.281/.312
FE034A-22C-A	2137	1990	0.83	.073/.081	.128/.147	.265/.281	.312/.343
FE034A-19C-A	1904	1791	0.94	.081/.093	.147/.164	.281/.296	.343/.390
FE034A-17C-A	1699	1598	1.07	.093/.098	.164/.187	.296/.312	.390/.406
FE034A-15C-A	1516	1426	1.20	.098/.109	.187/.204	.312/.328	.406/.421
FE034A-14C-A	1350	1283	1.34	.109/.116	.204/.234	.328/.343	.421/.437
FE034A-12C-A	1199	1139	1.50	.116/.125	.234/.250	.343/.359	.437/.453
FE034A-11C-A	1089	1034	1.66	.125/.140	.250/.265	.359/.375	.453/.468
FE034A-10C-A	959	911	1.88	.140/.161	.265/.281	.375/.390	.468/.484
FE034A-08C-A	842	800	2.14	.161/.187	.281/.312	.390/.406	.484/.531

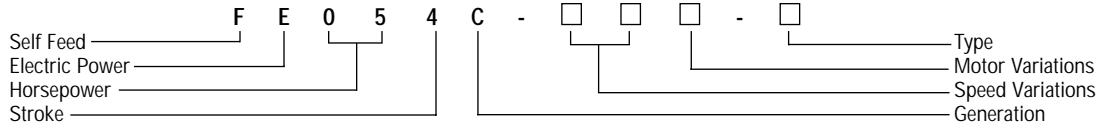
NOTE: Tools are not supplied with the required motor starter. The starter unit should conform to local/national regulations and must provide overload protection. Complete wiring and connection data are given in the tool's Operator's Manual.

Air Consump. Per Cycle	Operating Sound Level	Stroke Length	Spindle Mount	Motor "B"—Part No. 49685-1 .33 H.P., 3600 R.P.M., 220/270 VC, 380/460 VY, 3 PH, 60 Hz				Motor "C"—Part No. 49685-2 .33 H.P., 1800 R.P.M., 220/270 VC, 380/460 VY, 3 PH, 60 Hz				
				Power Air Inlet	Req. Inlet Hose Size	Remote Control Port Size	Operating Pressure Range	Power Air Inlet	Req. Inlet Hose Size	Remote Control Port Size	Operating Pressure Range	
.014 ft. ³	60 dB (A)	4.33 inches	#33 Jacobs	1/8 N.P.T.	1/4 I.D.	#10-32	50-100	1/8 N.P.T.	1/4 I.D.	#10-32	50-100	
.40 L		110 mm	Male	Female		Female	P.S.I.G.					
Thrust Output, Lbs.	330	314	297	280	264	248	231	215	198	182	165	149
Air Pressure, P.S.I.G.	100	95	90	85	80	75	70	65	60	55	50	45



Electric/Pneumatic Self-Feed Drills

Made in the U.S.A. to the Following Specifications: F E O 5 4 C - 2 2 B - A
 Example of product identification



Model Number FE054C(-)-A	Free Speed, R.P.M.	Load Speed Peak H.P. R.P.M.	Torque, Peak H.P. LB. FT.	Stainless 300 Series	Nominal Drilling Capacities Steel S.A.E. 1213	Aluminum 2024-T4	Med. Wood or F.R.P.
FE054C-77(B or D)-A	7690	7013	0.32	.018/.020	.036/.046	.070/.101	.078/.096
FE054C-67(B or D)-A	6750	6155	0.36	.020/.026	.046/.055	.101/.125	.096/.125
FE054C-59(B or D)-A	5954	5486	0.41	.026/.032	.055/.062	.125/.147	.125/.140
FE054C-54(B or D)-A	5400	4977	0.46	.032/.038	.062/.073	.147/.169	.140/.156
FE054C-48(B or D)-A	4800	4470	0.51	.038/.048	.073/.081	.169/.187	.156/.187
FE054C-43(B or D)-A	4274	3979	0.57	.048/.054	.081/.086	.187/.196	.187/.228
FE054C-38(B or D)-A	3808	3582	0.65	.054/.060	.086/.093	.196/.228	.228/.250
FE054C-34(B or D)-A	3398	3197	0.72	.060/.066	.093/.101	.228/.250	.250/.281
FE054C-30(B or D)-A	3031	2851	0.81	.066/.072	.101/.110	.250/.281	.281/.312
FE054C-27(B or D)-A	2700	2566	0.91	.072/.078	.110/.125	.281/.296	.312/.343
FE054C-24(B or D)-A	2398	2279	1.03	.078/.084	.125/.138	.296/.312	.343/.375
FE054C-22(B or D)-A	2178	2070	1.13	.084/.090	.138/.156	.312/.343	.375/.406
FE054C-19(B or D)-A	1918	1822	1.28	.090/.096	.156/.187	.343/.375	.406/.437
FE054C-17(B or D)-A	1684	1600	1.46	.096/.110	.187/.250	.375/.406	.437/.484
FE054C-38(C or E)-A	3845	3507	0.65	.054/.060	.086/.093	.196/.228	.228/.250
FE054C-34(C or E)-A	3375	3078	0.72	.060/.066	.093/.101	.228/.250	.250/.281
FE054C-30(C or E)-A	2977	2744	0.81	.066/.072	.101/.110	.250/.281	.281/.312
FE054C-27(C or E)-A	2700	2488	0.91	.072/.078	.110/.125	.281/.296	.312/.343
FE054C-24(C or E)-A	2400	2235	1.03	.078/.084	.125/.138	.296/.312	.343/.375
FE054C-22(C or E)-A	2137	1990	1.13	.084/.090	.138/.156	.312/.343	.375/.406
FE054C-19(C or E)-A	1904	1791	1.28	.090/.096	.156/.187	.343/.375	.406/.437
FE054C-17(C or E)-A	1699	1598	1.46	.096/.110	.187/.250	.375/.406	.437/.484
FE054C-15(C or E)-A	1516	1426	1.62	.110/.125	.250/.281	.406/.421	.484/.531
FE054C-14(C or E)-A	1350	1283	1.82	.125/.136	.281/.312	.421/.437	.531/.562
FE054C-12(C or E)-A	1199	1139	2.05	.136/.152	.312/.343	.437/.453	.562/.593
FE054C-11(C or E)-A	1089	1034	2.26	.152/.166	.343/.359	.453/.468	.593/.625
FE054C-10(C or E)-A	959	911	2.56	.166/.182	.359/.375	.468/.484	.625/.656
FE054C-08(C or E)-A	842	800	2.92	.182/.201	.375/.390	.484/.500	.656/.687

NOTE: Tools are not supplied with the required motor starter. The starter unit should conform to local/national regulations and must provide overload protection. Complete wiring and connection data are given in the tool's Operator's Manual.

Motor "B"—Part No. 49685-3 .50 H.P., 3600 R.P.M., 220/270 VC, 380/460 VY, 3 PH, 50/60 Hz		Motor "C"—Part No. 49685-4 .50 H.P., 1800 R.P.M., 220/270 VC, 380/460 VY, 3 PH, 50/60 Hz		Motor "D"—Part No. 49685-9 .50 H.P., 3600 R.P.M., 550/575 VY, 3 PH, 60 Hz (Eastern Canada)		Motor "E"—Part No. 49685-10 .50 H.P., 1800 R.P.M., 550/575 VY, 3 PH, 60 Hz (Eastern Canada)						
Air Consump. Per Cycle	Operating Sound Level	Stroke Length	Spindle Mount	Power Air Inlet	Req. Inlet Hose Size	Remote Control Port Size	Operating Pressure Range					
.014 ft. ³	60 dB (A)	4.33 inches	#33 Jacobs	1/8 N.P.T.	1/4 I.D.	#10-32	50-100					
.40 L		110 mm	Male	Female		Female	P.S.I.G.					
Thrust Output, Lbs.	330	314	297	280	264	248	231	215	198	182	165	149
Air Pressure, P.S.I.G.	100	95	90	85	80	75	70	65	60	55	50	45

**INTERCHANGEABLE SPINDLE ACCESSORIES
ADDRESS A MULTITUDE OF NEEDS**

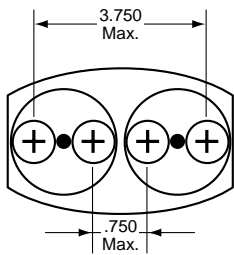
The Electra-Feed Drills can be used with an extensive selection of tapping heads, drill chucks, and collets that can be changed as your secondary machining applications demand.

This flexibility helps ensure that your investment today won't be obsolete tomorrow.

SERIES 34A, 54C & 74B SPINDLE OPTIONS



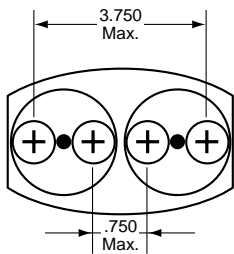
1
Twin Drill Head 47276
(see chart at right)
adjustable centers



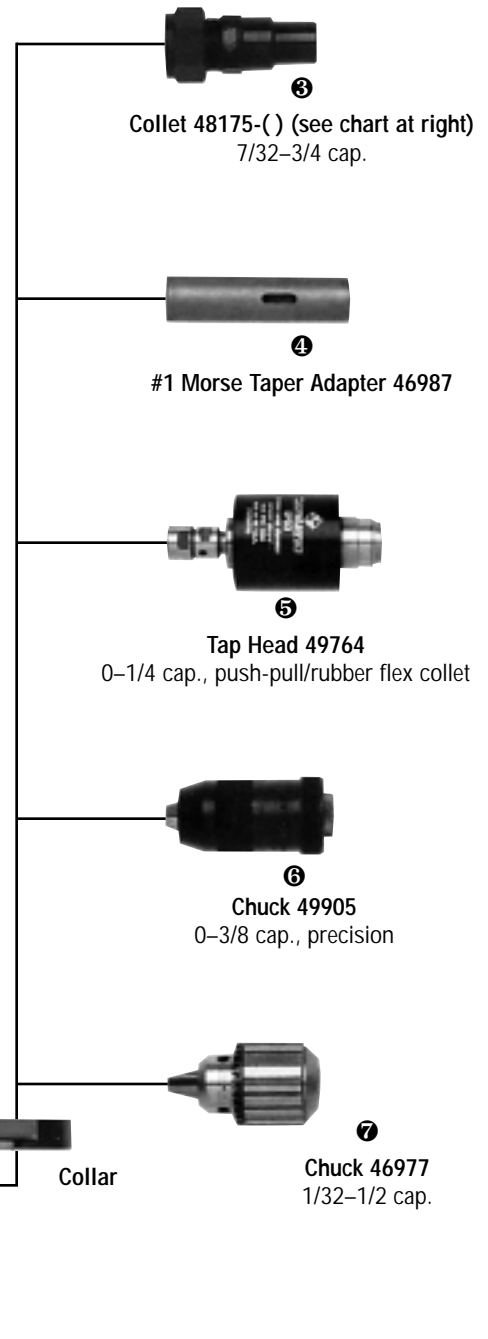
see collets 46033-()



2
Twin Tap Head 47908
(see chart at right)
adjustable centers



see collets 46033-()



① Twin Drill Collets									
Bore Diameter +000/- .0035	Drill Sizes			Collet No.	Bore Diameter +000/- .0035	Drill Sizes			Collet No.
	inch	no.	mm			inch	no.	mm	
.079"	5/64	47	2.0	46033-1	.228"	1	5.8	46033-39	
.083"		45	2.1	46033-2	.232"	-	5.9	46033-40	
.087"		44	2.2	46033-3	.236"	15/64	A	6.0	
.091"		43	2.3	46033-4	.240"	B	6.1	46033-42	
.094"	3/32	42	2.4	46033-5	.244"	C	6.2	46033-43	
.098"		40	2.5	46033-6	.248"	D	6.3	46033-44	
.102"		38	2.6	46033-7	.252"	1/4	E	6.4	
.106"		36	2.7	46033-8	.256"	F	6.5	46033-46	
.110"	7/64	35	2.8	46033-9	.260"	G	6.6	46033-47	
.114"		33	2.9	46033-10	.264"	17/64	-	6.7	
.118"		32	3.0	46033-11	.268"	H	6.8	46033-49	
.122"		31	3.1	46033-12	.272"	I	6.9	46033-50	
.126"	1/8	-	3.2	46033-13	.276"	J	7.0	46033-51	
.130"		30	3.3	46033-14	.280"	9/32	K	7.1	
.134"		29	3.4	46033-15	.283"	-	7.2	46033-53	
.138"		-	3.5	46033-16	.287"	-	7.3	46033-54	
.142"	9/64	28	3.6	46033-17	.291"	L	7.4	46033-55	
.146"		26	3.7	46033-18	.295"	M	7.5	46033-56	
.150"		25	3.8	46033-19	.299"	19/64	-	7.6	
.154"		23	3.9	46033-20	.303"	N	7.7	46033-58	
.157"	5/32	22	4.0	46033-21	.307"	-	7.8	46033-59	
.161"		20	4.1	46033-22	.311"	5/16	-	7.9	
.165"		19	4.2	46033-23	.315"	O	8.0	46033-61	
.169"		18	4.3	46033-24	.319"	-	8.1	46033-62	
.173"	11/64	17	4.4	46033-25	.323"	P	8.2	46033-63	
.177"		16	4.5	46033-26	.327"	21/64	-	8.3	
.181"		14	4.6	46033-27	.331"	Q	8.4	46033-65	
.185"		13	4.7	46033-28	.335"	-	8.5	46033-66	
.189"	3/16	12	4.8	46033-29	.339"	R	8.6	46033-67	
.193"		10	4.9	46033-30	.342"	11/32	-	8.7	
.197"		9	5.0	46033-31	.346"	-	8.8	46033-69	
.201"		7	5.1	46033-32	.350"	S	8.9	46033-70	
.205"	13/64	5	5.2	46033-33	.354"	-	9.0	46033-71	
.209"		4	5.3	46033-34	.358"	23/64	T	9.1	
.213"		3	5.4	46033-35	.362"	-	9.2	46033-73	
.216"		-	5.5	46033-36	.366"	-	9.3	46033-74	
.220"	7/32	2	5.6	46033-37	.370"	U	9.4	46033-75	
.224"		-	5.7	46033-38	.375"	3/8	-	9.5	

② Twin Tap Collets						
Tap Size	#0-#6	#8	#10	#12	1/4	5/16
Collet No.	46033-17	46033-24	46033-31	46033-37	46033-46	46033-62

③ Series 48175 Specifications

Length: 3 8/16 (84 mm)
 Taper: No. 33 Jacobs
 Outside Diameter: 1 3/4 (44 mm)
 Approx. Tooling Penetration: 1 7/8 (42.6 mm)
 Subassemblies: 48091 body
 35264-() insert

Collet No.	Size range		Insert
	in.	(mm)	
48175-1	7/32 - 1/4	(5.5-6.4)	35264-1
48175-2	1/4 - 9/32	(6.4-7.1)	35264-2
48175-3	9/32 - 5/16	(7.1-7.9)	35264-3
48175-4	5/16 - 11/32	(7.9-8.7)	35264-4
48175-5	11/32 - 3/8	(8.7-9.5)	35264-5
48175-6	3/8 - 13/32	(9.5-10.3)	35264-6
48175-7	13/32 - 7/16	(10.3-11.1)	35264-7
48175-8	7/16 - 15/32	(11.1-11.9)	35264-8
48175-9	15/32 - 1/2	(11.9-12.7)	35264-9
48175-10	1/2 - 17/32	(12.7-13.5)	35264-10
48175-11	17/32 - 9/16	(13.5-14.3)	35264-11
48175-12	9/16 - 19/32	(14.3-15.1)	35264-12
48175-13	19/32 - 5/8	(15.1-15.9)	35264-13
48175-14	5/8 - 21/32	(15.9-16.6)	35264-14
48175-15	21/32 - 11/16	(16.6-17.4)	35264-15
48175-16	11/16 - 23/32	(17.4-18.2)	35264-16
48175-17	23/32 - 3/4	(18.2-19.0)	35264-17

Wedge Set	
46983	To remove chuck from tapered spindle

Control Accessories	
49785	Switch Kit; Provides output for electric "Tool is Forward" or "Tool is Retracted" signals (AC or DC)
49786	Solenoid Kit; 120 VAC Provides input for remote "Start" or "Emergency Retract" signals
49787	Solenoid Kit; 24 VDC Provides input for remote "Start" or "Emergency Retract" signals
59764-4	Connector (10 pcs./box) Used to connect input & output ports to air signal tubing. Shown on page 37.

Feed Rate Controls	
Part No.	
38922	1" Stroke Hydraulic Check
38922-1	2" Stroke Hydraulic Check
38922-2	3" Stroke Hydraulic Check