

# STANDARD SINGLE PHASE SM4000 MAIN ASSEMBLY

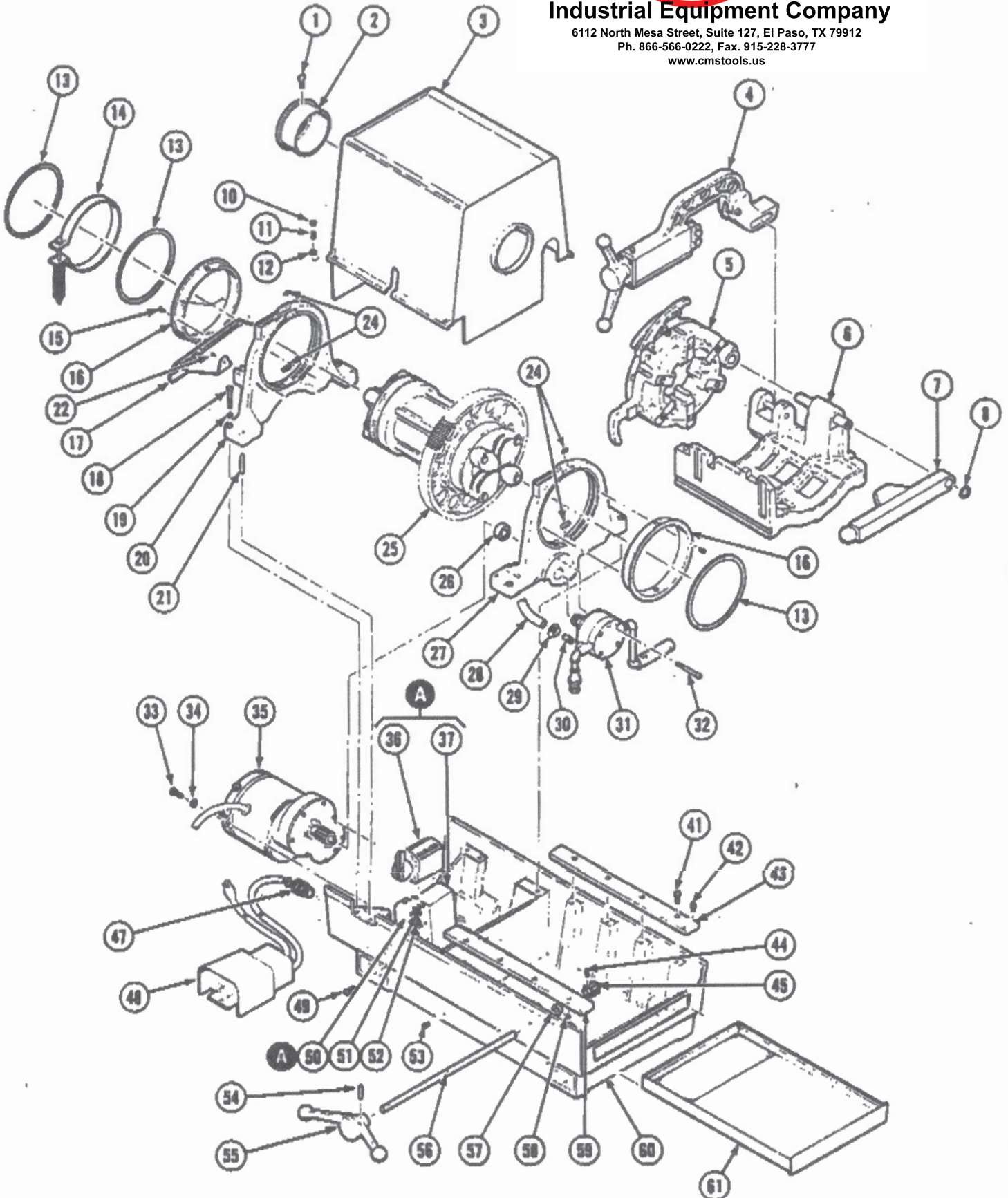


Industrial Equipment Company

6112 North Mesa Street, Suite 127, El Paso, TX 79912

Ph. 866-566-0222, Fax. 915-228-3777

www.cmstools.us



## STANDARD SM 4000 MAIN ASSEMBLY

Item	Part No.	Qty	Description
1.	03404	1	Thumbscrew, 3/8-16x1
2.	12548	1	Adapter, Small Pipe
3.	20317	1	Cover, Spindle
4.	20160	1	Cutter Assy, 1/2-4
5.	20200	1	Die Head Assy, 2 1/2-4
6.	20150	1	Carriage Assy.
7.	20170	1	Reamer Assy, 2 1/2-4
8.	Y-5100-87	1	Ring, Retaining
10.	B-354-P	4	Nut, Acorn, 1/4-20
11.	H-110-D	4	Setscrew, 1/4-20x1
12.	C-109-MP	4	Lockwasher, 1/4
13.	YKSA-775	3	Ring, Retaining
14.	20314	1	Brake Assy.
15.	P-703-H	4	Pin, Grooved, 3/16x5/8
16.	20308	2	Bearing, Spindle
17.	01244	1	Shield, Motor
18.	F-509-S	4	Screw, SHdCap, 1/2-13x2
19.	C-113-M	4	Washer, Lock, 1/2
20.	20311	1	Spindle Block, Rear
21.	O-509	4	Pin, Dowel, 3/8x2
22.	NF-503-F	2	Screw, Slf Tap, #10-24x1/2
24.	12006	4	Wick, Lube Oil
25.	20054	1	Spindle Assy, Std.
26.	01018-1	1	Bearing, Ball, 203SZZ
27.	20310	1	Spindle Block, Front
28.	20061-24	1	Tubing, Ctg Oil, 24"
29.	04514-10	2	Clamp, Ctg Oil Tube
30.	20068	2	Fitting, Ctg Oil Tube
31.	20067	1	Pump Assy.
32.	F-112-SL	1	Screw, SHdCap, 1/4-20x7/8
33.	F-206	2	Screw, SHdCap, 5/16-18x1
34.	C-110	2	Washer, Lock, 5/16
35.	20040	1	Gearmotor Assy, 115V.
	20041	1	Gearmotor Assy, 230V.
36.	01221	1	Controller, 115V/230V..
37.	01345-1	1	Resistor Assy, 115V.
	01346-1	1	Resistor Assy, 230V.
41.	E-206	8	Screw, FltHd, 5/16-18x1
42.	F-103	2	Screw, SHdCap, 1/4-20x1/2

Item	Part No.	Qty	Description
43.	20108	1	Rail, Base, Rear
44.	U-715	1	Pin, Spring, 3/16x1
45.	20111	1	Gear, Spur, 12T.
47.	01376	1	Bushing, Strm Relief
48.	20016	1	Switch&Cord Assy, 115V.
	20015	1	Switch&Cord Assy, 230V.
49.	G-107	2	Screw, BHdCap, 1/4-20x1
50.	20105	1	Bracket, Switch&Resistor
51.	C-109-M	2	Washer, Lock, 1/4
52.	L-1100	2	Screw, StdRdHd, 1/4-20x1/4
53.	01020	1	Plug, Pipe, Drain, 3/8
54.	P-906-A	1	Pin, Grooved, 1/4x1x 3/8
55.	20113	1	Handle, Oprng, Carriage
56.	20109	1	Shaft, Carriage
57.	20112	1	Collar, Carriage Shaft
58.	H-102-D	1	Setscrew, 1/4-20x1/4
59.	20107	1	Rail, Base, Front
60.	20101	1	Base
61.	20110	1	Tray, Chip

### Items not shown in the illustration

-	13735	1	Lubricator Pump. See Detailed Lube Pump Assy #20080
-	20035	1	Switch, Limit, Carriage
-	K-961	1	Screw, StdFltHd, #10-32x1

### Optional Items. See Wiring Diagram

-	20190	1	Meter, Hour, 115V. 60Hz.
-	20191	1	Meter, Hour, 230V. 50Hz.
-	20106	1	Bracket, Hour Meter Mtg.
-	H-108-D	2	Setscrew, 1/4-20x3/4
-	B-354-P	2	Nut, Acorn, 1/4-20
-	20036	1	Filter, Radio Interf.
-	G-051	2	Screw, BHdCap, #10-24x1/2
-	B-132	2	Nut, Hex, #10-24
-	20037	1	System-on Light, 115V.
-	20038	1	System-on Light, 230V.

Sub assy A 03272

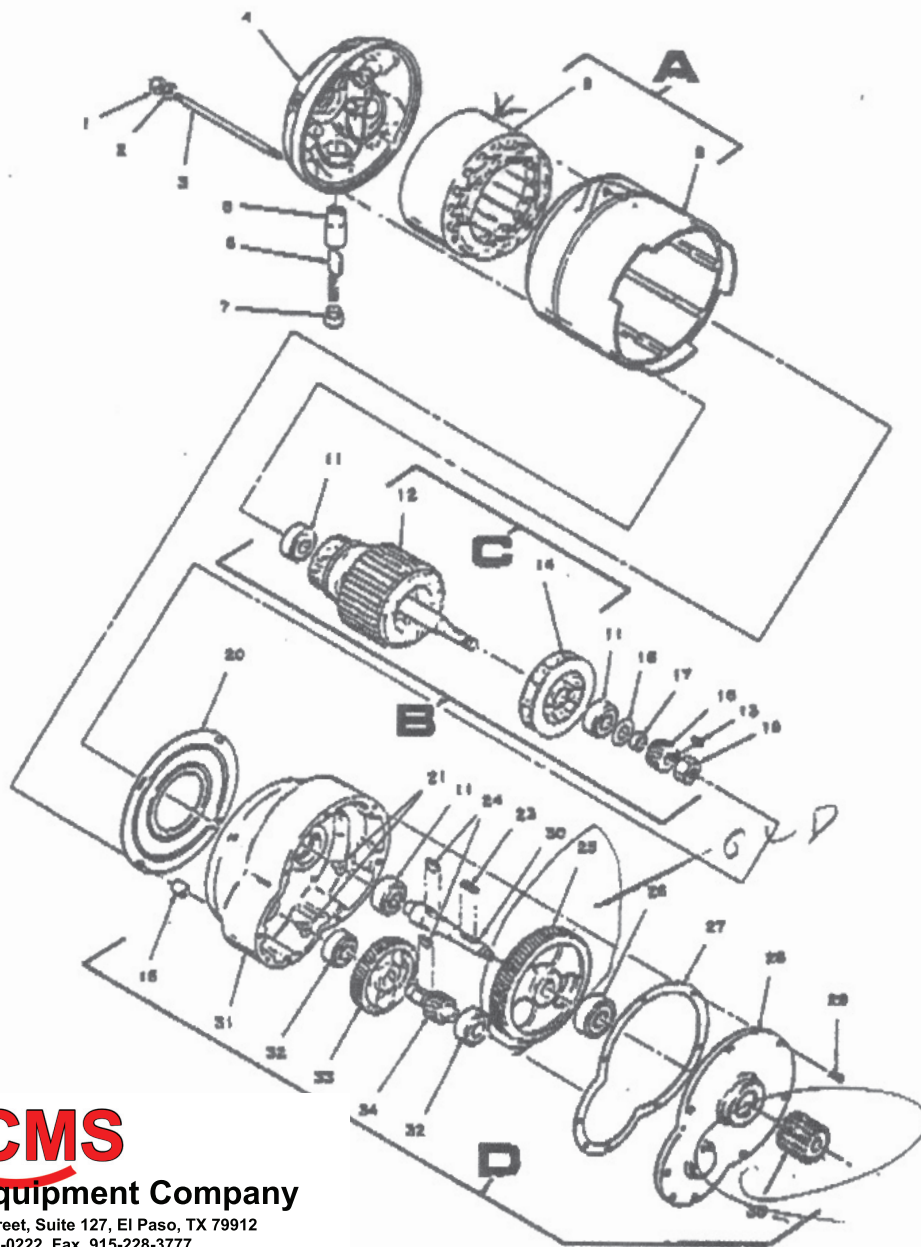


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# GEARMOTOR ASSEMBLY

115V- #20040    230V- #20041



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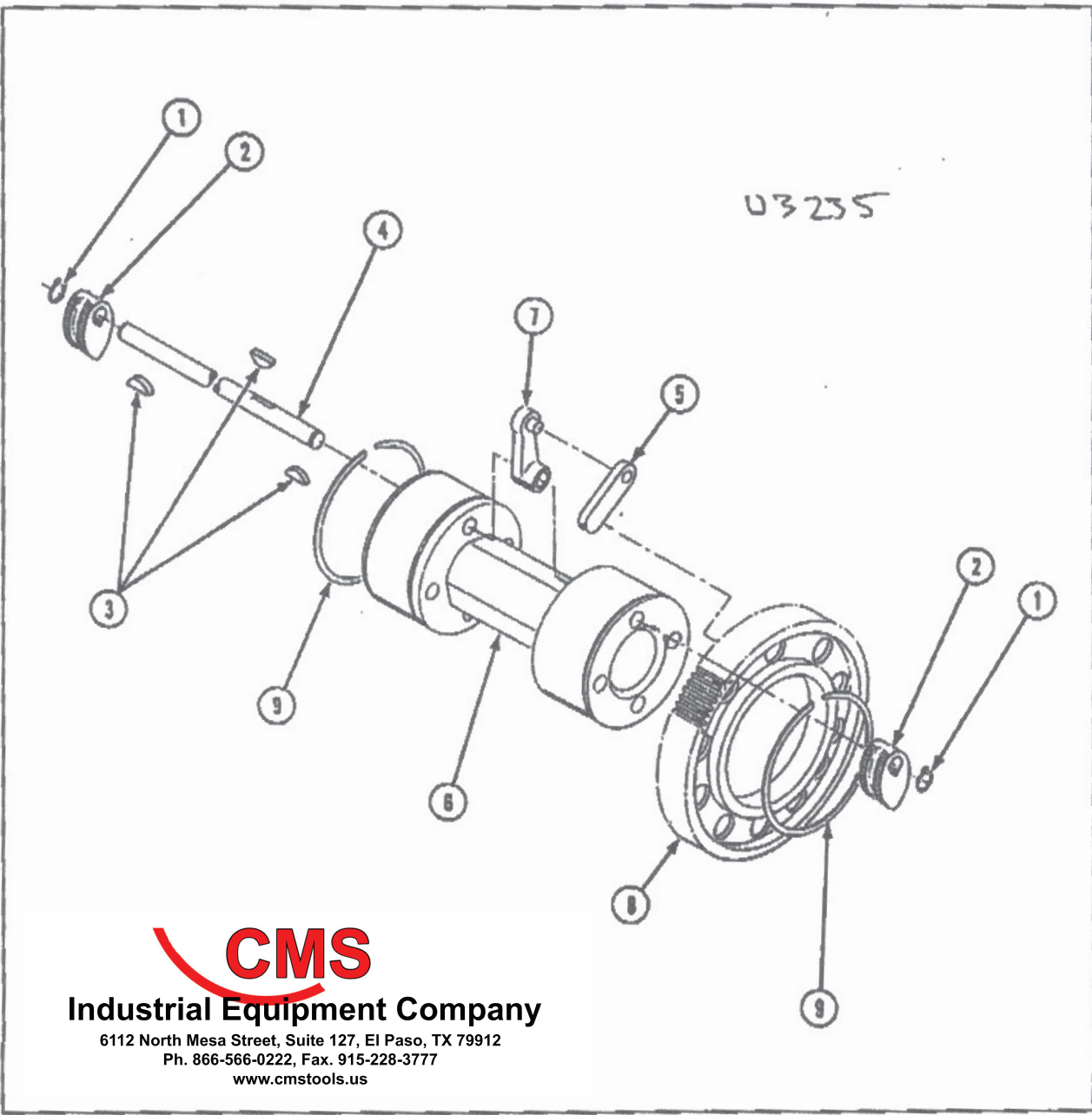
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Item	Part No.	Description	Req'd	Item	Part No.	Description	Req'd
A	20120	Housing & Stator Assy, 115V	1	14	01355	Fan Assy, Motor	1
	20119	Housing & Stator Assy, 230V	1	15	01325	Retainer, Stator Baffle, Neoprene	4
B	20130	Armature Assy, Complete 115V	1	16	01332	Spacer, Slinger	1
	20129	Armature Assy, Complete 230V	1	17	01333	Spacer, Sleeve	1
C	20131	Arm. & Fan Assy, 115V	1	18	01336	Gear, Helical	1
	20132	Arm. & Fan Assy, 230V	1	19	01334	Nut, Hex.	1
D	20140	Gearcase Assembly	1	20	01323	Baffle, Stator, Motor	1
1	B-101	Nut, Hex.	4	21	01383-1	Plug, Hole, Plastic	2
2	C-109-MP	Washer, Lock, Hel. Spg.	4	23	20321	Key, Square	1
3	01381	Tie Rod, Motor	4	24	W-808	Key, Woodruff	1
4	01351	End Bell, Motor	1	25	20049	Gear, Helical	1
5	01352	Holder, Elec. Cont. Brush	6	26	01392-1	Bearing, Ball	1
6	01360-1	Brush, Elec. Cont.	6	27	01381-1	Gasket	1
7	01355	Cap. Elec. Cont. Brush, Mtr.	6	28	01382	Cover, Gearcase Housing	1
8	20121	Stator, Motor, 115V	1	29	K-1108	Screw, Machine, SI. Fil. Hd.	7
8	20123	Stator, Motor, 230V	1	30	20320	Shaft, Output, Gearcase	1
9	20122	Housing, Stator, Motor	1	31	01381	Housing, Gearcase	1
11	01018-1	Bearing, Ball	2	32	01337	Bearing, Ball	2
12	20133	Armature only, 115V	1	33	01390	Gear, Helical	1
12	20134	Armature only, 230V	1	34	20048	Gearshaft, Helical	1
13	W-405	Key, Woodruff	1	35	20301	Gear, Spur, Gearmotor Outputshaft	1

# SPINDLE ASSEMBLY

# 20054



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Item	Part No.	Req'd	Description
1.	Y-5100-75	8	Ring, Retaining, Ext.
2.	20305	8	Jaw, Chuck, Reversible
3.	W-808	12	Key, Woodruff, 1/4 x 1 D.
4.	20308	4	Shaft, Jaw
5.	20205	4	Line, Jaw Lever
6.	20307	1	Spindle
7.	20303	4	Lever, Jaw, Spindle
8.	20302	1	Gear, Spur, Spindle, 160T.
9.	YKSA-775	8	Ring, Retaining, Ext.