



Model Number	RPM		Stall Torque		Weight		Gear Ratio
	@ Max. hp	@ Free Speed	ft.-lbs.	Nm	lbs.	kg	
31MRR911M	1750	3500	2.0	2.7	3.5	1.588	4.0:1
31MRR912M	1075	2150	3.2	4.3	3.5	1.588	6.44:1
31MRR913M	650	1300	5.4	7.3	3.5	1.588	10.8:1
31MRR914M	500	1000	6.5	8.8	3.6	1.633	14.28:1
31MRR915M	425	850	8.0	10.8	3.8	1.723	16.0:1
31MRR916M	250	500	12.8	17.4	3.8	1.723	25.73:1
31MRR917M	150	300	21.6	29.3	3.8	1.723	43.06:1

For additional product information visit our website at:
<https://dotcotool.com/product-category/cleco-tools/cleco-air-motors/cleco-31mr-series-rotary-vane-air-motors/>

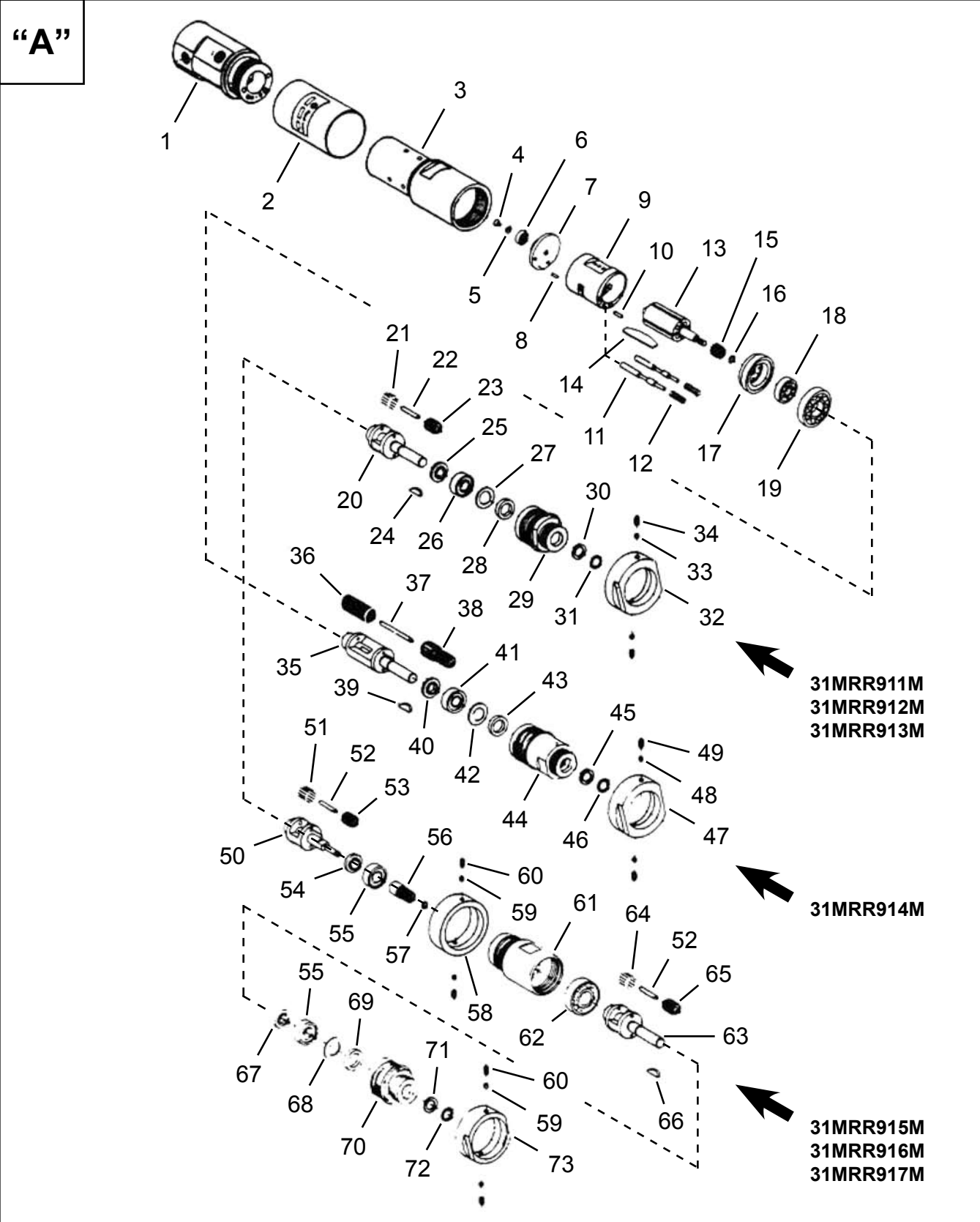


Illustration "A" - 31MRR Series Motors

Ref	Number	#	X	EN
				Description
1	1015500	1		Rear Head
2	1015653	1		Exhaust Sleeve
3	1015652	1		Motor Housing
4	1011750	1	2	Screw
5	1012518	1	2	Washer
6	1010183	1	2	Ball Bearing
7	1012500	1		Rear End Plate
8	1012591	1		Cylinder Pin
9	1012497	1		Cylinder
10	1017203	1		Cylinder Pin
11	1015049	2		Valve Plunger
12	1014027	2	4	Valve Plunger Spring
13	1012811	1		Rotor (31MRR911M, 915M)
	1012769	1		Rotor (31MRR912M, 916M)
	1012812	1		Rotor (31MRR913M, 914M, 917M)
	1008256	4	12	Rotor Blade
15	1021745	1	2	Pinion (31MRR911M, 915M)
16	800138	1	2	Retainer (31MRR911M, 915M)
17	1012487	1		Front End Plate
18	1010770	1	2	Ball Bearing
19	1008262	1	2	Ball Bearing
Gearing: 31MRR911M, 31MRR912M, 31MRR913M				
20	1015633	1		Planetary Cage (31MRR911M)
	1015632	1		Planetary Cage (31MRR912M)
	1015631	1		Planetary Cage (31MRR913M)
21	1004984	22	44	Planetary Roller
22	1004983	2	4	Planetary Pin
23	1008250	2	4	Planetary Gear (31MRR911M)
	1008252	2	4	Planetary Gear (31MRR912M)
	1008241	2	4	Planetary Gear (31MRR913M)
24	863365	1	3	Woodruff Key
25	1017051	1	2	Planetary Washer (31MRR911M)
	1017053	1	2	Planetary Washer (31MRR912M)
	1017052	1	2	Planetary Washer (31MRR913M)
26	847095	1	2	Ball Bearing
27	1005051	1		Steel Washer
28	1005044	1	3	Felt Washer
29	1008961	1		Gear Housing (31MRR911M)
	1008960	1		Gear Housing (31MRR912M, 913M)
30	1015753	1		Steel Washer
31	1012001	1	2	Retaining Ring
32	1015659	1		Lock Collar
33	1015203	2	4	Pad
34	B108F	2	4	Set Screw
Gearing: 31MRR914M				
35	1015634	1		Planetary Cage
36	1005024	22	44	Planetary Roller
37	1005010	2	4	Planetary Pin
38	1008952PT	2	4	Planetary Gear
39	863365	1	3	Woodruff Key

Ref	Number	#	X	EN
				Description
40	1017052	1	2	Planetary Washer
41	847095	1	2	Ball Bearing
42	1005051	1		Steel Washer
43	1005044	1	3	Felt Washer
44	1008963	1		Gear Housing
45	1015753	1		Steel Washer
46	1012001	1	2	Retaining Ring
47	1015659	1		Lock Collar
48	1015203	2	4	Pad
49	B108F	2	4	Set Screw
Gearing: 31MRR915M, 31MRR916M, 31MRR917M				
50	1008319	1		Planetary Cage (31MRR915M)
	1008318	1		Planetary Cage (31MRR916M)
	1008317	1		Planetary Cage (31MRR917M)
51	1004984	22	44	Planetary Roller
52	1004983	4	8	Planetary Pin
53	1008250	2	4	Planetary Gear (31MRR915M)
	1008252	2	4	Planetary Gear (31MRR916M)
	1008241	2	4	Planetary Gear (31MRR917M)
54	1017051	1	2	Planetary Washer (31MRR915M)
	1017053	1	2	Planetary Washer (31MRR916M)
	1017052	1	2	Planetary Washer (31MRR917M)
55	847095	2	4	Ball Bearing
56	1021745	1	2	Pinion
57	800138	1	2	Retaining Ring
58	1015658	1		Lock Collar
59	1015203	4	8	Pad
60	B108F	4	8	Set Screw
61	1008955	1		Gear Housing (31MRR915M)
	1110707	1		Gear Housing (31MRR916M, 917M)
62	1008262	1	2	Ball Bearing
63	1015633	1		Planetary Cage
64	1004984	22	44	Planetary Roller
65	1008250	2	4	Planetary Gear
66	863365	1	3	Woodruff Key
67	1017051	1	2	Planetary Washer
68	1005051	1		Steel Washer
69	1005044	1	3	Felt Washer
70	1008961	1		Gear Housing
71	1015753	1		Steel Washer
72	1012001	1	2	Retaining Ring
73	1015660	1		Lock Collar

(#) Quantity
(X) Recommended Spare Parts (quantity shown based on 1-5 tools in operation)

Sales & Service Centers

Note: All locations may not service all products. Please contact the nearest Sales & Service Center for the appropriate facility to handle your service requirements.

Detroit, Michigan

**Apex Tool Group
Sales & Service Center**
2630 Superior Court
Auburn Hills, MI 48326
Tel: (248) 393-5640
Fax: (248) 391-6295

Houston, Texas

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Sales & Service Center**
6550 West Sam Houston
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Fax: (713) 849-2047

Lexington, South Carolina

Apex Tool Group
670 Industrial Drive
Lexington, SC 29072
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Fax: (803) 358-7681

Los Angeles, California

**Apex Tool Group
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