Cleco



22 Series

Single Reduction Rotary Vane Power Motors



For additional product information visit our website at: https://dotcotool.com/product-category/cleco-tools/cleco-air-motors/cleco-22-series-rear-exhaust-rotary-vane-air-motors/

OUTPUT SPEED - R.P.M.		3,200	4,700	EXHAUST	
RIGHT HAND ROTATION	ROUND HOUSING	22-5300 22-5340	22-5400 22-5440	SIDE	
	MOUNTING HOUSING	22M5300 22M5340	22M5400 22M5440	SIDE	
LEFT HAND ROTATION	ROUND HOUSING	22D5300 22D5340	22D5400 22D5440	SIDE	
	MOUNTING HOUSING	22V5300 22V5340	22V5400 22V5440	SIDE	

SAFETY INSTRUCTIONS AND WARNING

DOTCO Portable and Mountable Tools are air powered. USE THIS POWER PROPERLY FOR PERSONAL SAFETY.

ALWAYS COMPLY WITH:

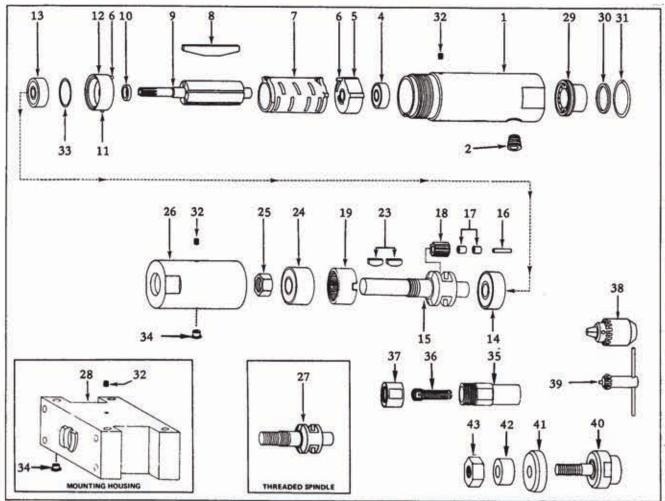
- 1. General Industry Safety & Health Regulations, Part 1910, OSHA 2206, available from: Sup't. of Documents, Gov't. Printing Office, Washington, D. C. 20402.
- 2. Safety Code for Portable Air Tools ANSI B186.1 available from: American National Standards Institute, Inc., 1430 Broadway, New York, New York 10018.
- 3. State and Local Regulations.

Portions of the above abbreviated below for quick reference to some of the most important regulations. THESE REGULA-TIONS ARE NOT ALL INCLUSIVE - STUDY AND COMPLY WITH ALL ABOVE REGULATIONS.

- 1. Tool Speed Check Before mounting any abrasive wheel, buffing wheel, wire brush, saw blade, flap wheel, or other product, after all tool repairs and whenever a tool is issued for use, the RPM shall be checked with a tachometer to insure that its actual speed does not exceed rated speed. GOVERNED TOOLS, IN USE ON THE JOB, SHALL BE CHECKED AT LEAST ONCE EVERY TWENTY HOURS OF USE, OR ONCE WEEKLY, WHICHEVER IS MORE FREQUENT.
- Tool Intent Tools shall be used only for purposes intended in their design (refer to product catolog).
 Air Supply Test and operate tools at 90 PSIG maximum unless tool is marked otherwise. Use recommended air-line filters-regulators-lubricators.
- 4. Unusual Sound or Vibration If tool vibrates or produces an unusual sound, repair immediately for correction.
- 5. Speed Rating of Wheels, etc. Speed rating of abrasive wheel, buffing wheel, wire brush, saw blade, flap wheel, or other products used, must equal or exceed speed rating of tool.
- 6. Mounting of Wheels, etc. Each type of wheel, wire brush, saw blade, flap wheel, and other product, has specific mounting procedures and regulations concerning spindles, flanges, blotters, collets, etc., which shall be used, REFER TO REGULATIONS AND/OR WHEEL MANUFACTURERS' INSTRUCTIONS.
- Wheel Guards Select proper guards for application and mount securely and properly. SEE REGULATIONS.
- 8. Inspection of Wheels. etc. Regularly inspect all wheels, etc., and discard cracked, chipped or otherwise damaged units. Redress out-of-balance wheels. SEE REGULATIONS.
- 9. Operator Protective Equipment Wear goggles or face shield at all times tool is in operation. Other protective clothing shall be worn, if necessary, for spark protection deflection, SEE REGULATIONS.
- 10. Safety Maintenance Program Employ a safety program to provide inspection and maintenance of all phases of tool operation and air supply equipment in accordance with "Safety Code for Portable Air Tools."

WARNING!! FAILURE TO COMPLY WITH ALL SAFETY REGULATIONS MAY RESULT IN SERIOUS INJURY.

EXPLODED VIEW



NOTE: ALL NUMBERS IN ABOVE DRAWING AND IN DISASSEMBLY AND ASSEMBLY INSTRUCTIONS ARE INDEX NUMBERS ONLY. REFER TO PARTS LIST FOR PART NUMBERS WHEN ORDERING.

INSTALLATION

For best tool performance, a working air pressure of **90 pounds per square inch** is recommended. Pipings, fittings and hose should be adequate to maintain **90 psig** while the tool is in operation. An air line filter and lubricator should be used. Hose should be blown out before attaching to the tool.

LUBRICATION

The motor must be lubricated and free of moisture. Use a high grade SAE spindle oil, #45-0918 (one quart). Two or three drops per minute should be sufficient.

LOSS OF POWER

A loss of power may not be related to the tool. First, check the air line pressure. It should be 90 psi at the tool while operating. Check the size of hose and fittings to be certain they are not causing air restrictions.

SERVICE INSTRUCTIONS

Do not squeeze tool or parts in a vise except as specified in ASSEMBLY or DISASSEMBLY instructions. Care must be used in the assembly and disassembly of ball bearings. When pressing bearings onto a shaft, press only on the inner race. When pressing bearings into a bore, press on the outer race only. NOTE: Ball Bearings are the shielded type. They are lubricated for life by the bearing manufacturer and should not be washed out with solvents to clean.

PARTS LIST

1	DESCRIPTION	PART NUMBERS LISTED BELOW EACH MODEL								
ZDWW ZO		MODEL NO.	22-5300 22M5300	22-5340 22M5340	22-5400 22M5400	22-5440 22M5440	22D5300 22V5300	22D5340 22V5340	22D5400 22V5400	22D5440 22V5440
		R.P.M.	3,2	100	4,7	00	3,2	00	4,	700
1	MOTOR HOUSING		2926	2870	2926	2870	2926	2870	2926	2870
2	PIPE PLUG		2957	2957	2957	2957	2957	2957	2957	2957
4	BALL BEARING	7	538	538	538	538	538	538	538	538
5	BEARING PLATE	v/Index 6	7404	7013	7404	7013	7194	7198	7194	7198
6	PIN	28/1962294-7	1041	1041	1041	1041	1041	1041	1041	1041
7	CYLINDER		2255	2255	2255	2255	2519	2519	2519	2519
8	BLADE (4 Reg'd)	3	2253	2253	2253	2253	2253	2253	2253	2253
9	ROTOR		7656	7656	7658	7658	7656	7656	7658	7658
10	SPACER		2017	2017	2017	2017	2017	2017	2017	2017
11	PIN		SPECIFICAL PROPERTY.	2964	62637747	2964	100000000	2964	**************************************	2964
12	BEARING PLATE		2508		2508	Value State	2508	common and	2508	Development of
12	BEARING PLATE	v/Index 6 & 11	13000000	2959	220203	2959	E SERVICES	2424		2424
13	BALL BEARING		500	500	500	500	500	500	500	500
18	SPUR GEAR (2 reg	d) w/Index 17	2809	2809	2956	2956	2809	2809	2956	2956
26	PLANETARY HOU	SING	Note 1	Note 1	Note 1	Note 1	Note 1	Note 1	Note 1	Note 1
28	MOUNTING HOUS	ING	Note 1	Note 1	Note 1	Note 1	Note 1	Note 1	Note 1	Note 1
29	MUFFLER		100000000000000000000000000000000000000	2685		2685	The second second	2685	and the second	2685
30	"O" RING			1838	1	1838	1	1838		1838
31	RETAINING RING			2690	1	2690		2690		2690
32	LOCK SCREW		2831	2831	2831	2831	2831	2831	2831	2831
33	SHIM PACKET		2488	2488	2488	2488	2488	2488	2488	2488
34	GREASE FITTING		1664	1664	1664	1664	1664	1664	1664	1664

NOTE 1: Models with prefix 22M and 22V use Mounting Housing No. 2819. Models with prefix 22-and 22D use Planetary Housing No. 2893.

TERMINATION PARTS LIST

TERMINATION NO.	APPLICATION	INDEX NO.	DESCRIPTION	PART NO
01	SERIES 200	14 24 16 27 19 35 37 36	BEARING BEARING PLANETARY SHAFT (2) PLANETARY CARRIER RING GEAR CHUCK BODY CHUCK CAP COLLET (1/4") WRENCH (9/16") WRENCH (3/4")	556 557 2509 2513 2533 2801 2058 208 14-0809 14-0812
38	JACOBS CHUCK 1/4" MAX	14 24 16 19 27 25 38 39	BEARING BEARING PLANETARY SHAFT (2) RING GEAR PLANETARY CARRIER HEX NUT CHUCK W/INDEX 39 KEY	556 557 2509 2533 2864 2958 14-2545 14-2548
50		14 24 16 19 15 25 23	BEARING BEARING PLANETARY SHAFT (2) RING GEAR PLANETARY CARRIER HEX NUT KEY (2)	556 557 2509 2533 2927 2958 613
JACOBS CHUCK 3/8" MAX		14 24 16 19 27 25 38 39	BEARING BEARING PLANETARY SHAFT (2) RING GEAR PLANETARY CARRIER HEX NUT CHUCK W/INDEX 39 KEY	556 557 2509 2533 2864 2958 14-2546 14-2169
53 1/2-20 EXTERNAL THREADED SPINDLE SERIES TO CHUCK		14 24 16 19 27 25 38 39	BEARING BEARING PLANETARY SHAFT (2) RING GEAR PLANETARY CARRIER HEX NUT CHUCK W/INDEX 39 KEY	556 557 2509 2533 2864 2958 14-2547 14-2549
		14 24 16 19 27 25	BEARING BEARING PLANETARY SHAFT (2) RING GEAR PLANETARY CARRIER HEX NUT WRENCH (3/4")	556 557 2509 2533 2864 2958 14-0812
		14 24 16 27 19 35 37 36	BEARING BEARING PLANETARY SHAFT (2) PLANETARY CARRIER RING GEAR CHUCK BODY CHUCK CAP COLLET (3/8") WRENCH (7/8) WRENCH (1-1/8)	556 557 2509 2513 2533 14-2254 4255 124 14-0814 14-0818
63	4" x 1" x .50" POLISHING WHEELS	14 24 16 19 27 25 40 41 43 42	BEARING BEARING PLANETARY SHAFT (2) RING GEAR PLANETARY CARRIER HEX NUT WHEEL ADAPTER WHEEL FLANGE HEX NUT SPACER WRENCH (7/8") WRENCH (1-3/8")	556 557 2509 2533 2864 2958 14-2216 14-4072 14-4073 14-4082 14-0814 14-0836
64	8" x 1" x .62" POLISHING WHEELS	14 24 16 19 27 25 40 41 43 42	BEARING BEARING PLANETARY SHAFT (2) RING GEAR PLANETARY CARRIER HEX NUT WHEEL ADAPTER WHEEL FLANGE HEX NUT SPACER WRENCH (15/16") WRENCH (1-3/8")	556 557 2509 2533 2864 2958 14-2212 14-4045 14-4037 14-4009 14-0815 14-0836

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.

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Tol: 072 641 0563

Grand Prairie, TX 75 Tel: 972-641-9563 Fax: 972-641-9674

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