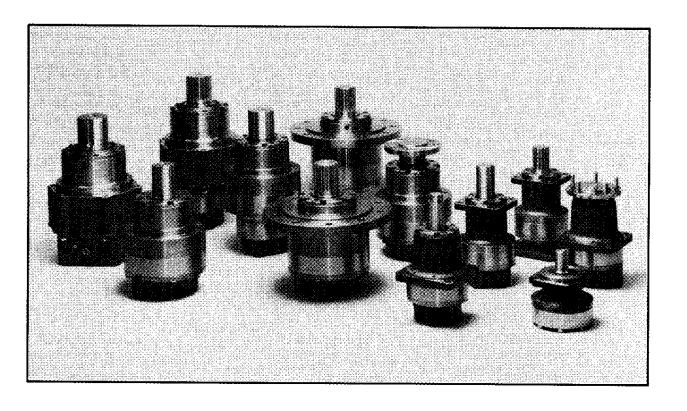
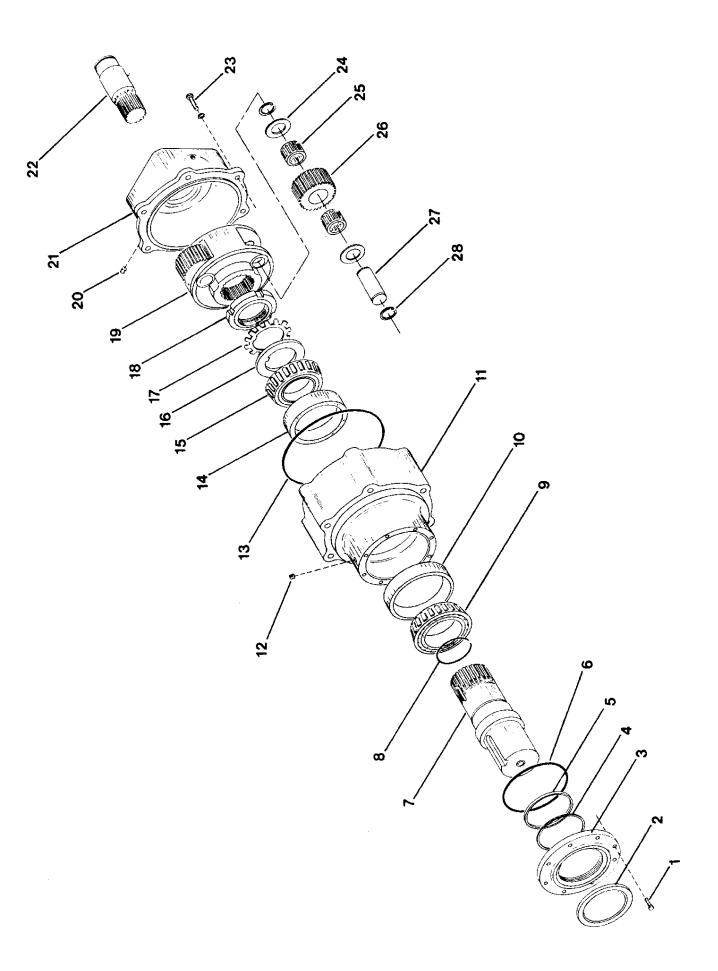
# MODEL 50

### **PARTS AND LUBRICATION INFORMATION**





	:	DESCRIPTION	QTY/ASSY	ITEM #	PART #	DESCRIPTION	OTY/ASSY
÷	50116	Bott	<b>&amp;</b>				
رز •	50111	Shaft Seal	-	_			
က်	50010	Seal Carrier	-				
4	50110	Backup Ring	-				
.5.	50109	Quad Ring	-				
رن د	50108	O Ring					
7.		Output Shaft	<u>-</u>				
	50007	3.875 Straight Keyed					
	50026	20T 6/12 Spline					
æ	50017	Retaining Ring	-				
oi o	50101	Cone	-				
10.	50102	Cup	·				
<u>;</u>	50020	Housing	-		,		
42.	15129	Pipe Plug	-	•			
	50107	O Ring	· · ·				
4.	50103	Cup	<b>,-</b>				
15.	50104	Cone		•			
6	50123	Keyed Washer	•		•		
17.	50122	Lock Washer					
<u>5</u>	50121	Locknut	-				
19.	20006	Planet Carrier	-				
50.	50120	Pipe Plug	2				
21.		Motor Adapter	-	_	<del></del>		
	50021	SAE C 2 & 4-Bolt		<b>-</b>			
	50019	SAE D 2 & 4-Bolt			•		
22.		Sun Gear Kit (Input Shaft Adapter)	-		••		
	50G	Charlynn 6000 Bearingless					
	201	1 1/4"-14 Tooth 12/24 Dp					
	507	Charlynn 10,000 Bearingless					
	Y S	1 3/4"-13 Tooth 8/16 Dp					
G	2011	1 1/2 -1/ 100tt 12/24 Dp	4				
23.	50113	Thrust Washer	<b>5</b> (c				
. ye	50110	Dlangt Bearing	· «				
56.	50002	Planet Gear	, m				
5 2	50004	Planet Pin	· m				
. 60	50112	Retaining Ring	- ω		·		
	50910	Seal Kit - Buna					
	50920	Seal Kit - Viton					
	-		-				
		Seal Kits include items indicated by *					
	<del></del> -						
			<u>-</u>	• • •			



## **LUBRICATION INSTRUCTIONS**

HECO planetary speed reducers may be lubricated as a self-contained unit (standard hydraulic motor), or as an integral part of the hydraulic system (bearingless motor).

In applications where the speed reducer is lubricated as a self-contained, horizontal unit, it is recommended that the unit be half filled with EP oil (see chart for amount and proper grade gear oil). Self-contained, vertical installations (output shaft down) require the unit to be filled to the center line of the upper planetary gear train. For self-contained vertical installations (output shaft up) consult HECO. When installed as a self-contained unit, ensure adequate ventilation is provided to allow for lubricant expansion.

The oil should be changed after the first 50 hours and 100 hours of operation, and every 1000 hours thereafter. Oil should be drained while the unit is at operating temperature. The unit should be cleaned with flushing oil (use of solvents should be avoided). NOTE: The importance of a thorough gear case cleaning with flushing oil during the first lubricant change cannot be overemphasized. If the maximum oil operating temperature is exceeded, change oil immediately.

In applications where the speed reducer is lubricated by oil flow from the bearingless hydraulic motor, ensure that a minimum oil flow of 2GPM is maintained, a separate case drain line should be connected directly from the top of the reducer (ensure the reducer remains full) to the oil reservoir. For maximum cooling and lubrication the case drain should be connected to the drain port at the opposite end of the reducer from the hydraulic motor. Reducer case pressure must not exceed 15 PSI with the standard shaft seal or 50 PSI with the optionally available high pressure seal installed.

Consult HECO for applications involving Char-Lynn 006 design 2000 series bearingless motors, or for additional information.

#### CAPACITY:

Model:	Horizontal Operation (½ Full):	Total (Capacity):
M-16	20 oz.	40 oz.
M-20	50 oz.	105 oz.
M-20D	50 oz.	105 oz.
M-50	100 oz.	200 oz.
M-50D	85 oz.	170 oz.
M-52D	85 oz.	170 oz.

#### OIL GRADE:

#### Single Reduction (RPM Out):

0-25 RPM — AGMA #5 25-100 RPM — AGMA #3 100-200 RPM — AGMA #1 200 + — Consult HECO

#### **Double Reduction (RPM Out):**

0-40 RPM --- AGMÀ #5 40-60 RPM --- AGMA #1 60 + --- Consult HĒCO

#### **MAXIMUM OIL TEMPERATURE:**

140° F Continuous 170° F Intermittent

For higher temperatures, consult HECO

#### Distributed by:



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