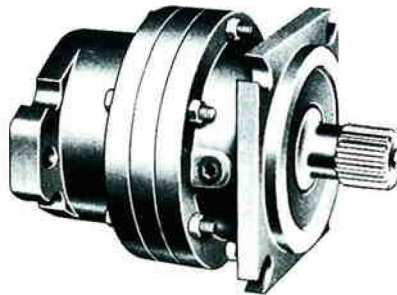
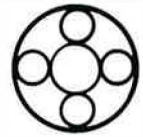




## OTHER PRODUCTS

## REDUCER/INCREASER 50 PGR Series Specification Sheet



The CROSS Series 50 PGR gear reducer is a high torque, low speed unit with a peak output of 10,000 in. lbs. and a maximum continuous output torque of 8,000 in. lbs. This 5.33 to 1 planetary reducer also provides a radial load capacity almost double that of competitive units. Designed for use with the Cross 50 Series hydraulic motors, or other equivalent motors, they may be used for many general mechanical speed reduction or increase applications.

### GENERAL SPECIFICATIONS:

Reduction ratio . . . . .	5.33 to 1 / increaser ratio . . . . .	1 to 5.33
Efficiency (average) . . . . .		96%
Maximum output speed . . . . .		750 RPM
Maximum output torque (continuous) . . . . .		8,000 in. lbs. (92 KG-M)
Peak output torque (intermittent - 2% duty cycle) . . . . .		10,000 in. lbs. (115 KG-M)
Maximum horsepower (at rated speed and torque) . . . . .		95 hp (71 Kw)
Input mounting . . . . .		SAE "B" 2-bolt
Input shaft (female) . . . . .		7/8" spline, 13 tooth, 16/32 pitch, 30° P.A. flat root side fit
Output mounting . . . . .		SAE "C" 4-bolt
Output shaft . . . . .		SEE Standard SHAFT CHART on BACK
Weight . . . . .		21 pounds

### MATERIAL SPECIFICATIONS:

Housing . . . . .	sandcast aluminum alloy
Gears . . . . .	hardened steel cut
Shaft . . . . .	ductile iron

### STANDARD FEATURES:

Tapered roller bearings for end load and side thrust

### OPTIONAL FEATURES:

Output shafts - 1½" spline - 17 tooth, 1¼" spline - 14 tooth; 1½" and 1¼" Keyed

### APPLICATION INFORMATION:

Can be mounted in any position, maximum input speed-4000 RPM, maximum input torque 1500 in. lbs. (17KG-M) continuous, 1875 in. lbs. (22KG-M) intermittent.

### LUBRICATION REQUIREMENTS:

Use EP 90 wt. gear lubricant. Change after first 50 hours of use and periodically thereafter as indicated by inspection for contamination. Capacity 150-160 CC.



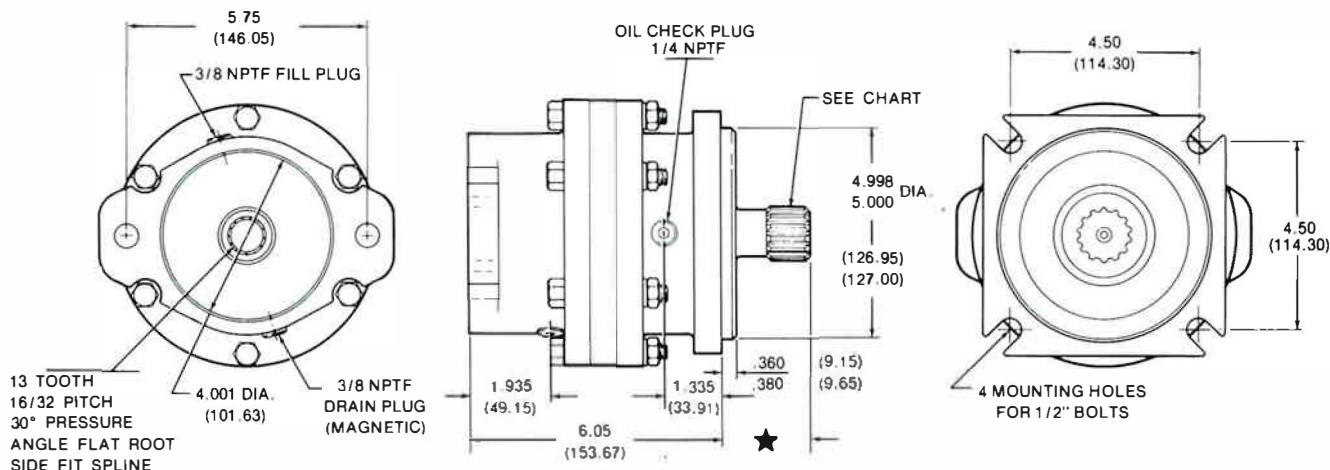
1800-OILSOL  
1800-645765

<https://oilsolutions.com.au/>

[sales@oilsolutions.com.au](mailto:sales@oilsolutions.com.au)



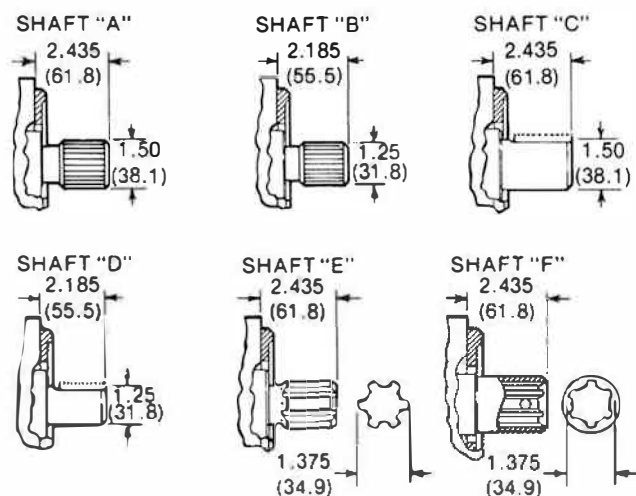
**DIMENSIONAL DATA: in inches and (millimeters)**



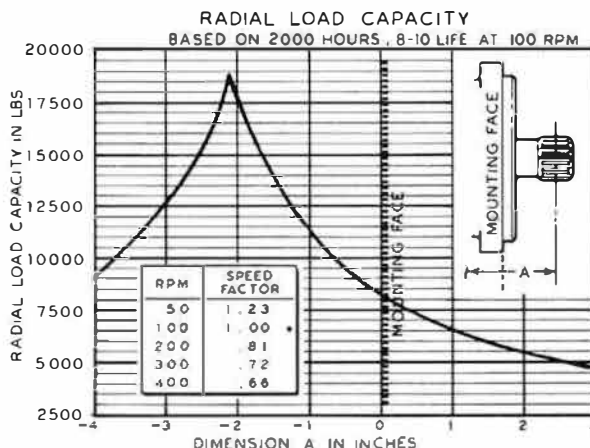
★ This Dimension is 2.185 for the 1 1/4" Shaft; 2.435 for the 1 1/2" Shaft.  
(55.50) (61.85)

**OUTPUT SHAFT:**

Shaft Type:	DESCRIPTION
A	1 1/2" spline, 17 tooth, 12/24 pitch, 30° pressure angle, flat root side fit
B	1 1/4" spline, 14 tooth, 12/24 pitch, 30° pressure angle, flat root side fit
C	1 1/2" dia. with keyway for 3/8" key
D	1 1/4" dia. with keyway for 5/16" key



**TYPICAL PERFORMANCE DATA**



**ORDERING INFORMATION**

5P0020-066 For A Type Shaft	5P0020-071 For C Type Shaft	5P0020-071 For C Type Shaft
5P0020-069 For B Type Shaft	5P0020-073 For D Type Shaft	5P0020-073 For D Type Shaft



**CROSS MANUFACTURING, INC.**

100 Factory Street

Lewis, Kansas 67552

Phone 620/324-5525; FAX 620/324-5737; e-mail: [info@crossmfg.com](mailto:info@crossmfg.com)



1800-OILSOL  
1800-645765

<https://oilsolutions.com.au/>

[sales@oilsolutions.com.au](mailto:sales@oilsolutions.com.au)