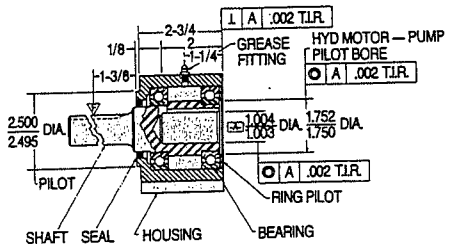
SIDE



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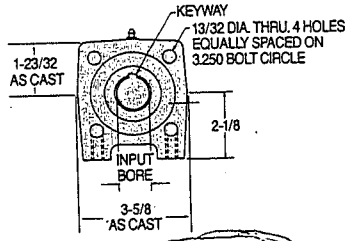
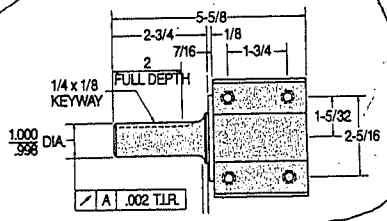
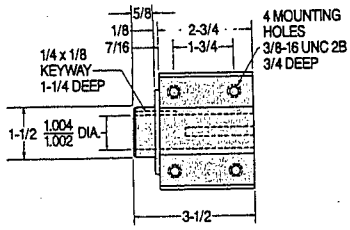


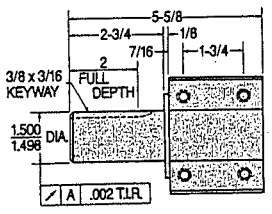
Model 410

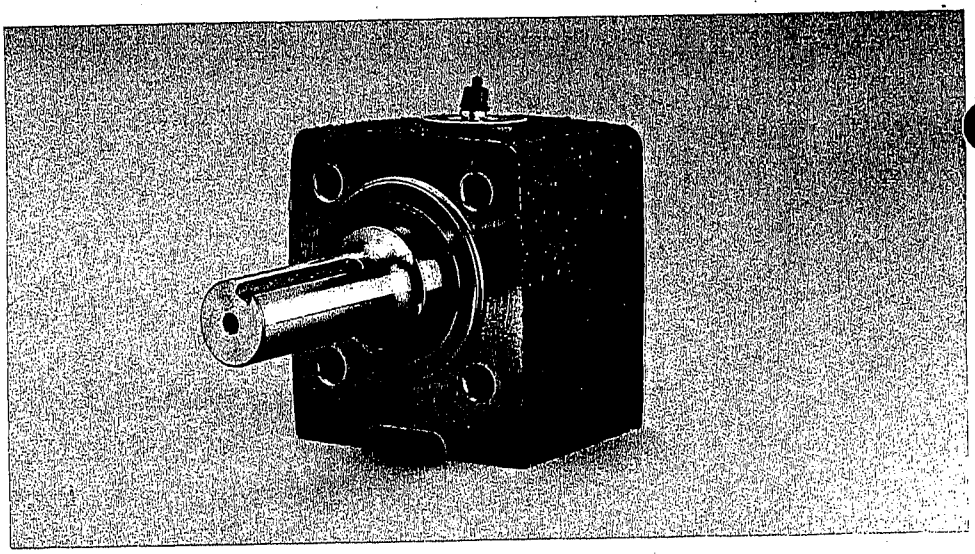


Model 410-F



Model 415





MODEL **400** ***Helland Overhung Load Adaptor***

- For applications requiring 1 inch or smaller pump or motor shafts.
- Available in 1" or 1½" output shafts. Accepts speeds up to 3600 RPM's.
- Features deep-grooved ball bearings at input and output shaft.

Improve drive systems by increasing motor durability and life with Helland Model 400 Overhung Load Adaptors. Designed for speeds up to 3600 RPM's, the Model 400 is available in a wide range of modifications to fit virtually any motor or pump application. SEE PAGE 12. Units mount quickly and easily. They are pre-drilled with appropriate holes for direct mounting using a two-bolt flange. They are also machined for foot mounting applications.

Bodies are made of 25,000 tensile strength cast iron. Shafts are made of 130,000 PSI stressproof steel. When properly mounted, Helland Overhung Load Adaptors produce smooth operation and increased system life.

HOW TO PROJECT WORKING LIFE FOR HRE OHLA'S

The working life of an HRE Model 400 Overhung Load Adaptor is equal to the life span—in hours—of their premium quality ball bearings.

Using your calculated overhung load results from Page 4 with the formula listed below will give give you the unit's service life for your application.

Remember that this formula yields an estimated life span which is defined as the period during which 90% of a group of bearings will operate under identical conditions with adequate lubrication.

IMPORTANT NOTE: All calculations on this page assume your overhung load will be positioned on the male output shaft as shown on the cross section drawing for our Model 400. Bearing life will increase significantly if your load is positioned closer to the unit.

ESTIMATING WORKING LIFE

$$\textbf{Hrs. Working Life} = (1500)\left[\frac{C_n}{(2.378)\,(\#\text{lbs. overhung load})}\right]^3$$

TABLE B (Models 200 and 400)

RPM	33⅓	50	100	200	300	500	1000	1500	1800	2500	3600	5000
Model 200 C_n and 400 C_n	2880	2500	1995	1580	1380	1175	925	810	760	685	605	540

Example: Using 500# overhung load at 100 RPM for standard Models 200 and 400.

$$\text{Hrs. Working Life} = 1500\left[\frac{1995}{2.378 \times 500}\right]^3$$

Hrs. Working Life = 1500 x 4.72

Hrs. Working Life = 7080 Hours