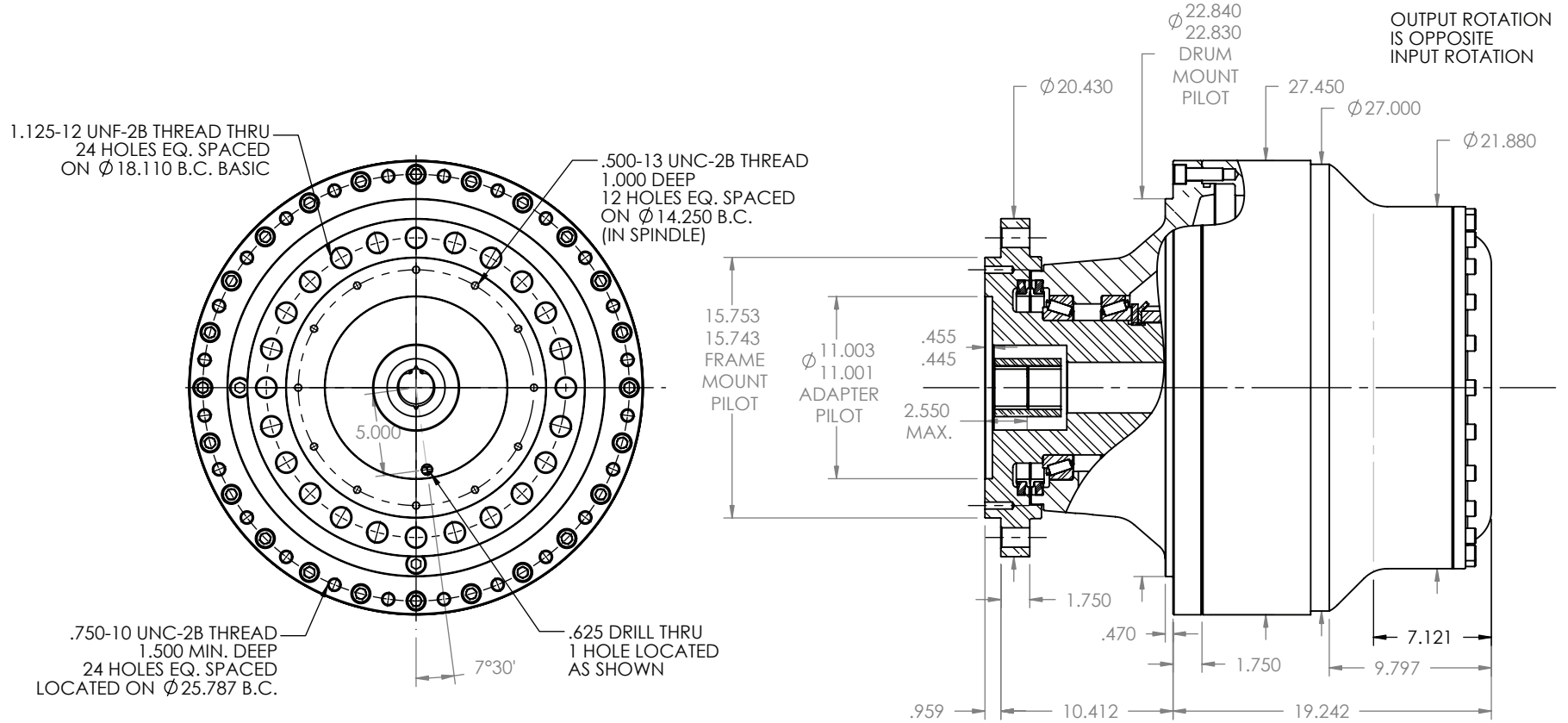


W90K Application Sheet

TORQUE-HUB®
Planetary Final Drives



oerlikon
fairfield

Catalog prints are representative of the units.
Before final design request a certified print from Fairfield.

NOTE: MM SHOWN IN ()
MOTOR CAVITY DIMENSIONS VARY WITH MODEL

OTHER MODELS ALSO AVAILABLE
FAIRFIELD BRAKE AVAILABLE

W90K

Performance Data

Continuous	Intermittent	Peak
1,470,000 lb-in	2,941,000 lb-in	
122,500 lb-ft	245,000 lb-ft	Contact Fairfield
166,110 Nm	332,333 Nm	
16,905 kg-m	33,821 kg-m	

For ultimate torque and horsepower capacities, contact a Torque-Hub® representative.

Speed Limitations

Input Speed: 2,000 RPM Maximum Intermittent

Weight

Approximately 2,250lbs (1,023kg)

Note: Specific models will change weights.

Model Formula

Oil

Fill to half full with 90 weight gear lube with EP additive on most applications.

Approximate Volume: 960oz (28387.2cc)

Note: Oil level and type will vary with specific model and application.

Conditions of Bearing Curve

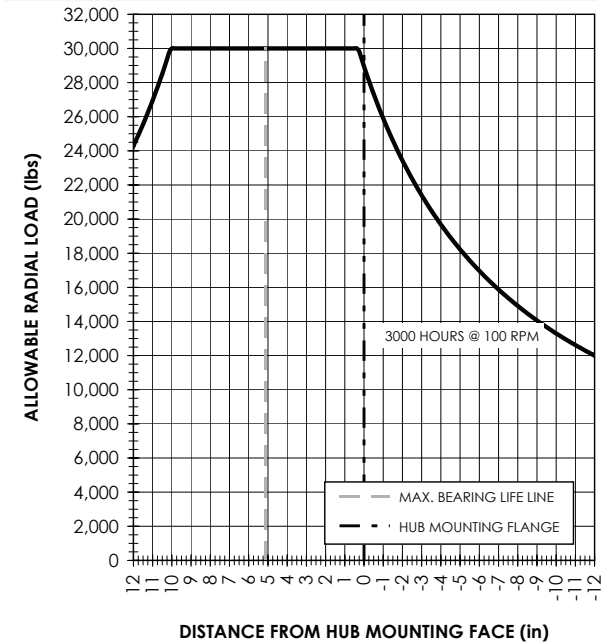
Life = 3,000 hours B10

Speed = 100 RPM output

To adjust for loads and speeds other than shown on curve:

$$\text{Adjusted Life (hrs)} = 3,000 \left(\frac{100 \text{ RPM}}{\text{Speed (Adjusted)}} \right) \left(\frac{\text{Load (Curve)}}{\text{Load (Adjusted)}} \right)^{\frac{10}{3}}$$

Bearing Curve



W 90 K1 L 25

W - Torque-Hub Wheel Drive

90

Spindle				Hub	
Adapter Pilot	Flange Mounting Dia.	Adapter B.C.	Frame B.C.	Mounting Dia.	Flange B.C.
11.003/ 11.001	15.753/ 15.743	(12) 1/2 - 13 14.250 B.C.	(24) 1.125-12 18.110 B.C.	22.840/ 22.830	(24) 3/4-10 25.787 B.C.

Reduction
25 - 25.218

Input
L - 19T 8/16 Spline

oerlikon
fairfield

Fairfield Manufacturing Company, Inc.
First in Custom Gears and Drive Systems

www.fairfieldmfg.com