

S50A1

Performance Data

Continuous	Intermittent	Peak
500,000 lb-in	1,000,000 lb-in	
41,667 lb-ft	83,333 lb-ft	Contact Fairfield
56,453 Nm	112,906 Nm	
5,760 kg-m	11,520 kg-m	

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

Speed Limitations

Input Speed: 3,000 RPM Maximum Intermittent

(Contact Fairfield for specific speed and horsepower information.)

Weight

Approximately 1,460 lbs (662kg)

Note: Specific models will change weights.

S50A2 Model Formula

Oil

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

Approximate Volume 500 oz. (15.63 quarts)

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

Conditions of Bearing Curve

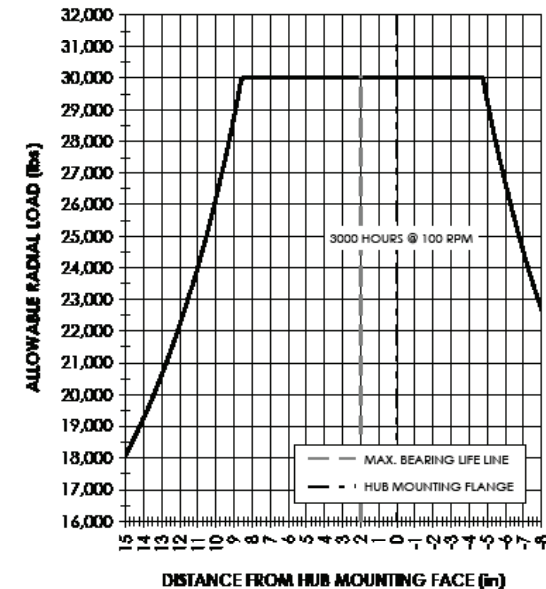
Life = 3,000 hours B-10

Speed = 100 RPM output

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

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

Bearing Curve



S 50 A 2 5 5 40 R V

S – Torque-Hub® Shaft Output

50 – Series

	Shaft	Hub	
	Configuration	Hub Flange Thickness	Flange B.C.
A1	1-1/2" Keyway 5.125" Dia.	No Flange	(20) 3/4-10 Holes 21.900 B.C.
A2	5.125" Dia. 40T, 8/16 Spline	No Flange	(20) 3/4-10 Holes 21.900 B.C.

Note: Other models available, please contact Fairfield.

Special Features
V – Viton Seals

Special Features
R – Redesigned Input Carrier

Reduction
25 – 24.95:1
40 – 39.71:1
94 – 93.59:1 (25:1 with S6C 3.75:1)

Input Spindle Side
5 – 13T, 8/16 Spline

Motor Mount
5 – S.A.E. "D" (6.005/6.002) Pilot 4 Bolt

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