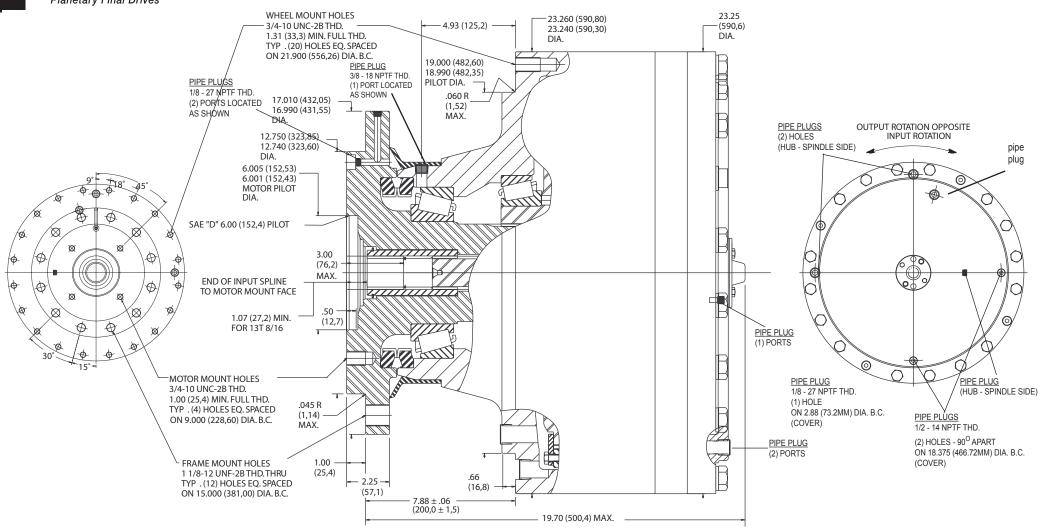
W20D1 Application Sheet

TORQUE-HUB. Planetary Final Drives





W20D1

Oil **Bearing Curve Performance Data** Continuous Intermittent Peak Fill to half full with 90 weight gear lube with EP additive 44,000 42,000 on most applications. 250.000 lb-in 500.000 lb-in Contact Fairfield 40,000 20.833 lb-ft 41.667 lb-ft 38,000 28,227 Nm 56,453 Nm Approximate Volume 256 oz. (7,573 cm³) 36,000 2,880 kg-m 5,760 kg-m 34,000 RADIAL LOAD (Ibs) 32,000 For ultimate torque and horsepower capacities, contact a Torque-Hub® Note: Oil level and type will vary with specific model and application. 30,000 representative. 28,000 **Conditions of Bearing Curve** 26,000 Speed Limitations 24,000 Input Speed: 1,500-1,800 RPM Maximum Intermittent Life = 3,000 hours B-10 22,000 Speed = 100 RPM output 20,000 18,000 16,000 To adjust for loads and speeds other than shown on curve: 14,000 Weight 12.000 Adjusted Life (hrs) = $3{,}000 \left(\frac{100 \text{ RPM}}{\text{Speed (Adjusted)}}\right) x$ Approximately 1,250 lbs (563 kg) 10,000 Load (Adjusted) 8,000 Note: Specific models will change weights. 6,000 MAX. BEARING LIFE LINE 4,000 - HUB MOUNTING FLANGE 2,000 W20D1 Model Formula 20 **D1** 115 Z=0008V004E01−0−046440√8v0=Z DISTANCE FROM HUB MOUNTING FACE (in) W - Torque-Hub® Wheel Drive 20 - Series **Special Features** X - Coupling Subassembly Hub Spindle with Antidisengage Spacer Flange Mounting Flange B.C. Motor Mount Motor B.C. Frame B.C. Mounting Dia. Dia. 12.750 (4) 3/4-10 (20) 3/4-10 (12) 1 1/8-12 23.260 D1 SAE "D" 9.000 B.C. 12.740 15.000 B.C. 23.240 21.900 B.C. S.A.E. "C" model available. Please contact Fairfield. Reduction **26** - 26.2:1 Input **36** - 36.6:1 4 - 14T, 12/24 Spline **53** - 53.1:1 5 - 13T, 8/16 Spline **œrlikon** 61 - 61.2:1 **85** - 85.3:1 **Options** fairfield **115** - 115.3:1 0 - Blank Z - Seal Boot **Internal Gear** Fairfield Manufacturing Company, Inc. 4 - Reduction 26:1 & 53:1 First in Custom Gears and Drive Systems 5 - Reduction 36:1 & 61:1 www.fairfieldmfg.com 9 - Reduction 85:1 & 115:1

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