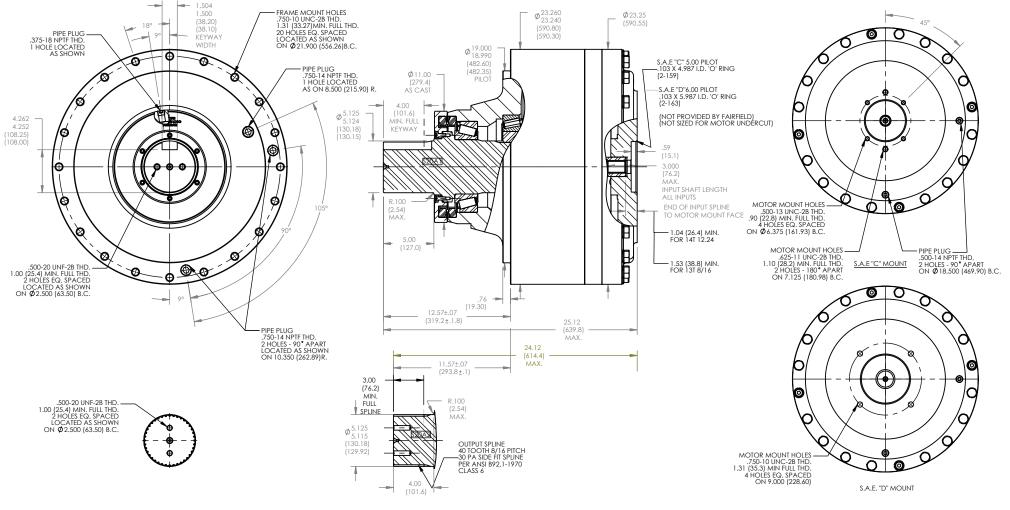
20 Series S20A1 Application Sheet





# **cerlikon** 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

# **Torque-Hub® 20 Series**

# S20A1

Performance Data				
Continuous	Intermittent	Peak		
250,000 lb-in 20,833 lb-ft 28,245 Nm 2,880 kg-m	500,000 lb-in 41,667 lb-ft 56,490 Nm 5,760 kg-m	600,000 lb-in 50,000 lb-ft 67,800 Nm 6,900 kg-m		

For ultimate torgue and horsepower capacities, contact a Torgue-Hub® representative.

#### **Speed Limitations**

Input Speed: 1,500- 1,800 RPM Maximum Intermittent

(Contact Fairfield for specific speed information.)

### Weight

Approximately 1,350 lbs (608 kg)

Note: Specific models will change weights.

## S20A1 Model Formula

S – Torque-Hub<sup>®</sup> Shaft Output

#### 20 - Series

	Shaft	Hub	
	Configuration	Hub Flange Thickness	Flange B.C.
A1	5.125 Dia. 1-1/2" Keyway	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.

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

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#### Oil

S

**Internal Gear** 

4 - Reduction 27:1 & 54:1

5 - Reduction 37:1 & 62:1

9 - Reduction 86:1 & 116:1

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

### Approximate Volume 256 oz. (7,573 cm<sup>3</sup>)

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

### **Conditions of Bearing Curve**

**A1** 

Life = 3,000 hours B-10 Speed = 100 RPM output

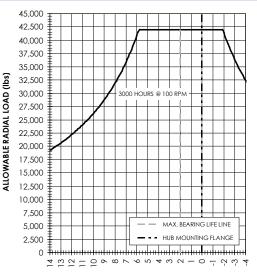
20

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

Adjusted Life (hrs) =	3,000 (100 RPM peed (Adjusted) X	$\left(\frac{\text{Load (Curve)}}{\text{Load (Adjusted})}\right)^{10/3}$
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9

## **Bearing Curve**



**DISTANCE FROM HUB MOUNTING FACE (in)** 

	<b>Reduction</b> <b>27</b> – 27.2:1 <b>37</b> – 37.6:1 <b>54</b> – 54.2:1 <b>62</b> – 62.2:1
	<b>86</b> – 86.3:1 <b>116</b> – 116.3:7
	<b>Input</b> 4 – 14T, 12/24 Spline 5 – 13T, 8/16 Spline
or Mount	

### Mot

4 -S.A.E. "C" (5.005/5.001) Pilot (2 & 4 Bolt) 5 -S.A.E. "D" (6.005/6.001) Pilot

116

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