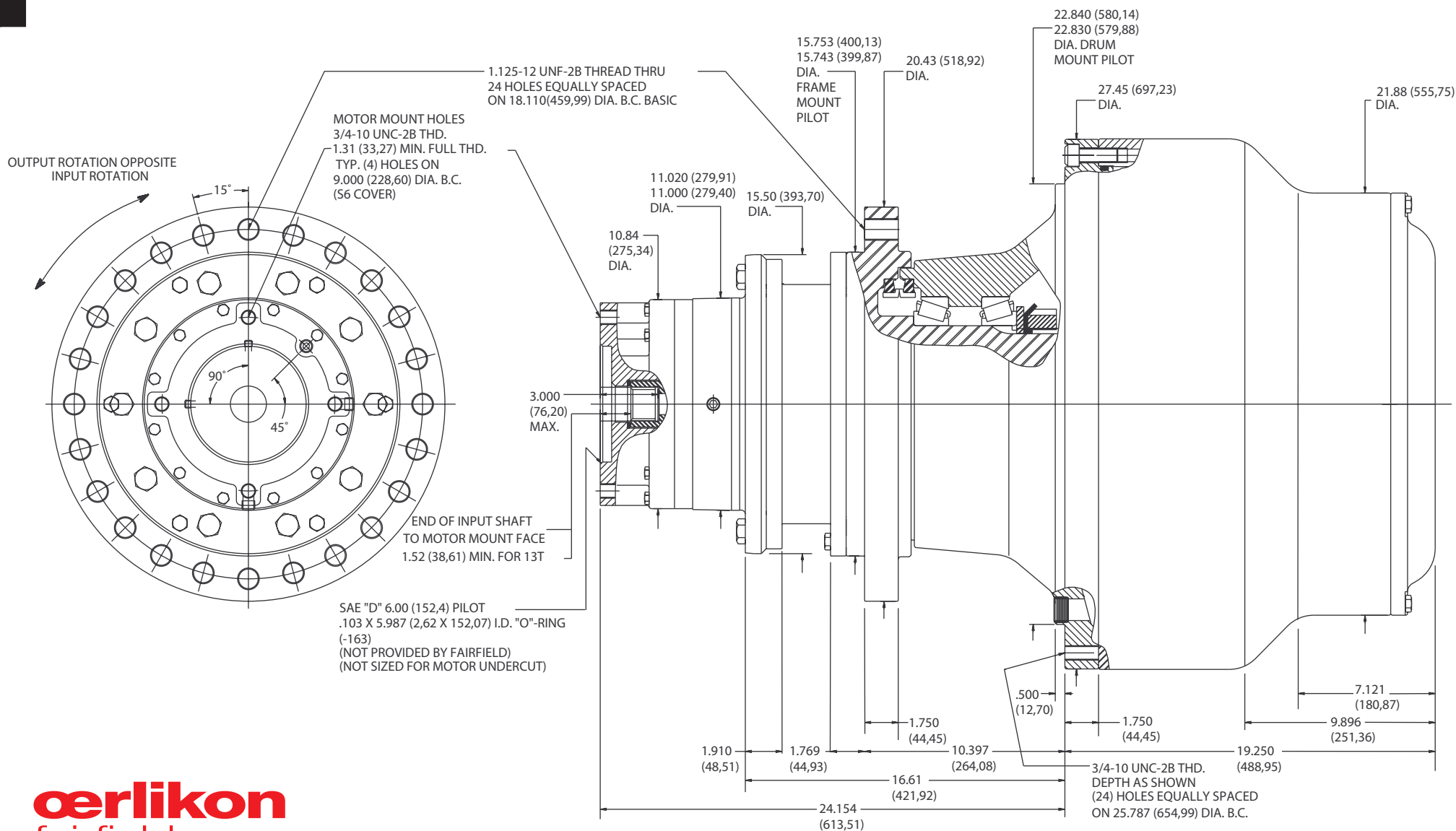


**TORQUE-HUB®**  
Planetary Final Drives

(Also available with special input and 25:1 ratio)



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

## W90

### 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:** Please contact Fairfield.

### Weight

Approximately 2,276 lbs (1,024 kg)

Note: Specific models will change weights.

### W90 Model Formula

**W 90 D1 5 118 —**

**W** – Torque-Hub® Wheel Drive

**90** – Series

	Spindle				Hub	
	Motor Mount	Flange Mounting Dia.	Motor B.C.	Frame B.C.	Mounting Dia.	Flange B.C.
<b>D1</b>	SAE "D"	15.753 15.743	(4) 3/4-10 9.000 B.C.	(24) 1.125-12 18.110 B.C.	22.840 22.830	(24) 3/4-10 25.787 B.C.
<b>C1</b>	SAE "C"	15.753 15.743	(4) 1/2-13 6.375 B.C.	(24) 1.125-12 18.110 B.C.	22.840 22.830	(24) 3/4-10 25.787 B.C.

**Special Features**  
Y – Seal Boot

### Reduction

- 25** – 25.218:1  
(25.218:1 ratio available with 19 T, 8/16 spline. See W90K data.)
- 95** – 94.57:1  
(uses S6C gear package–3.75:1)
- 113** – 113.48:1  
(uses S6C gear package–4.50:1)
- 118** – 117.77:1  
(uses S6C gear package–4.67:1)
- 151** – 151.31:1  
(uses S6C gear package–6.00:1)

### Input

- 5** – 13T, 8/16 Spline
- 7** – 21T, 16/32 Spline (used with 95:1 ratio)

### Oil

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

**Approximate Volume** 7.5 gal. (28,400 cm<sup>3</sup>)

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

### Conditions of Bearing Curve

Please contact Fairfield.

### Bearing Curve

Please contact Fairfield.

Note: Unit shown uses S6C1 single planetary input to W90 for 3-stage ratios of 95:1, 113:1, 118:1, and 151:1. W90 with 25.218:1 ratio does not use S6C input.

**æerlikon**  
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Fairfield Manufacturing Company, Inc.

First in Custom Gears and Drive Systems

www.fairfieldmfg.com