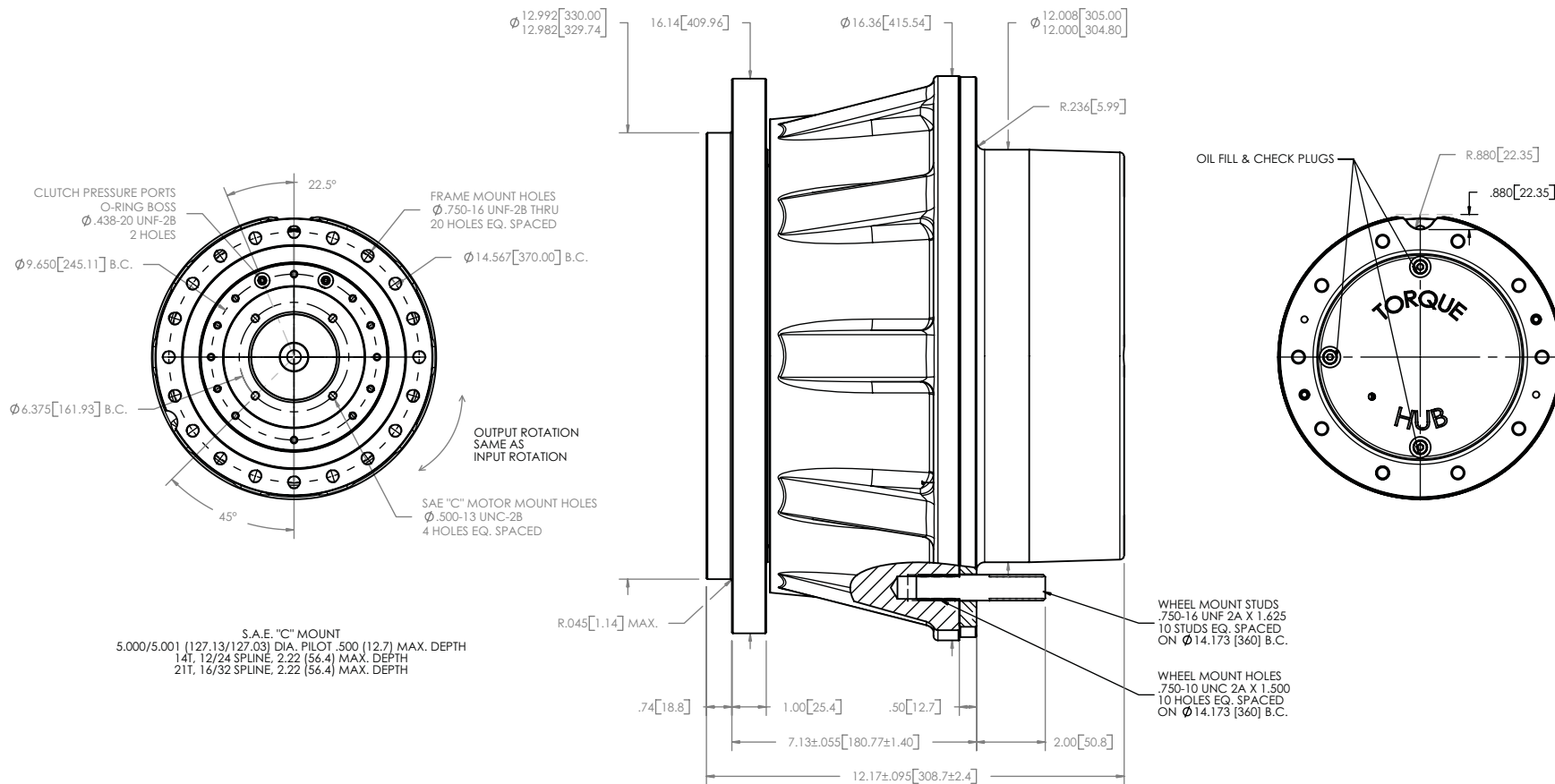


TORQUE-HUB®
Planetary Final Drives



Please refer to Fairfield Brake Literature
for brake operating conditions or contact 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

W9T

Performance Data

Continuous	Intermittent	Peak
90,000 lb-in	180,000 lb-in	Contact Fairfield
7,500 lb-ft	15,000 lb-ft	
10,168 Nm	20,336 Nm	
1,036 kg-m	2,072 kg-m	

For ultimate torque and horsepower capacities, contact a Torque-Hub® representative. Please refer to brake operating conditions.

Speed Limitations

Input Speed: 3,750 RPM Maximum Intermittent (30 minutes or less)

(Contact Fairfield for specific speed information.)

Weight

Approximately 375 lbs (170kg) without Brake

Note: Specific models will change weights.

W9T Model Formula

Oil

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

Approximate Volume 96 oz. (3 quarts)

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

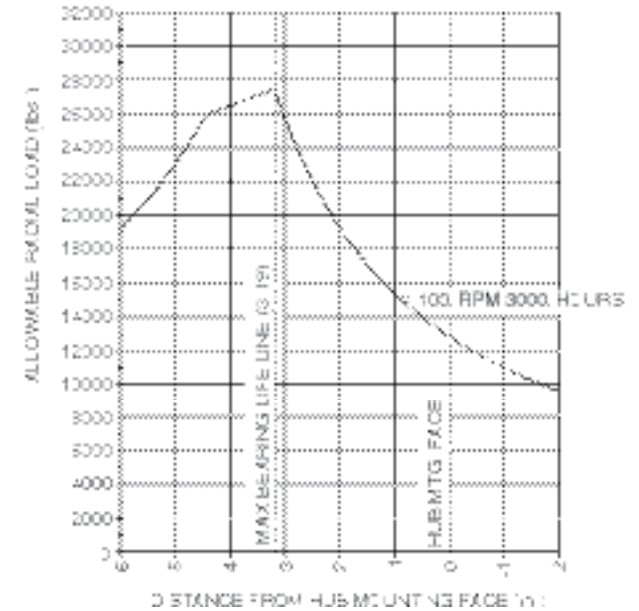
Conditions of Bearing Curve

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

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

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

Bearing Curve



W – Torque-Hub® Wheel Drive

9 – Series Two Speed

		Spindle		Hub
	Motor Mount	Flange Holes	Mounting Dia.	Motor B.C.
T1	SAE "C"	(20) 3/4-16 Holes on a 14.567 B.C.	12.992 12.982	(10) .750-10 Holes on a 14.173 Dia. B.C. Note: 3.46:1/1:1 2 Speed Module
T3	SAE "C"	(20) 3/4-16 Holes on a 14.567 B.C.	12.992 12.982	(10) .750-10 Holes on a 14.173 Dia. B.C. Note: 4.09:1/1:1 2 Speed Module

W 9 T1 U E 4 35

Input
4 – 14T, 12/24 Spline

Reduction
35 – 34.90:1
(See overall range in chart below)

Motor Mount / Input Ratio
E - 3.46:1 'C' Mount 4 bolt
F - 4.09:1 'C' Mount 4 bolt

Studs
0 – Not Included
U – 3/4-16 x 2.00 Inch (1.625 Thd. Length)

Input Rating		
MAX. INPUT TORQUE		4,000 lb-in (452 Nm)
MAX. INPUT SPEED		3750 RPM
MIN. BRAKING TORQUE		4,000 lb-in (452 Nm)
MIN. SHIFT PRESSURE		400 psi (27.6 bar)
MAX. SHIFT PRESSURE		1500 psi (103.4 bar)
Reduction		
SPEED SPLIT	PRESSURE HIGH SPEED	PRESSURE LOW SPEED
3.46:1	34.90:1	120.82:1
4.09:1	34.90:1	142.79:1
PRESSURE BOTH SPEEDS		NEUTRAL BRAKE
PRESSURE NEITHER SPEEDS		

oerlikon
fairfield
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First in Custom Gears and Drive Systems
www.fairfieldmfg.com

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