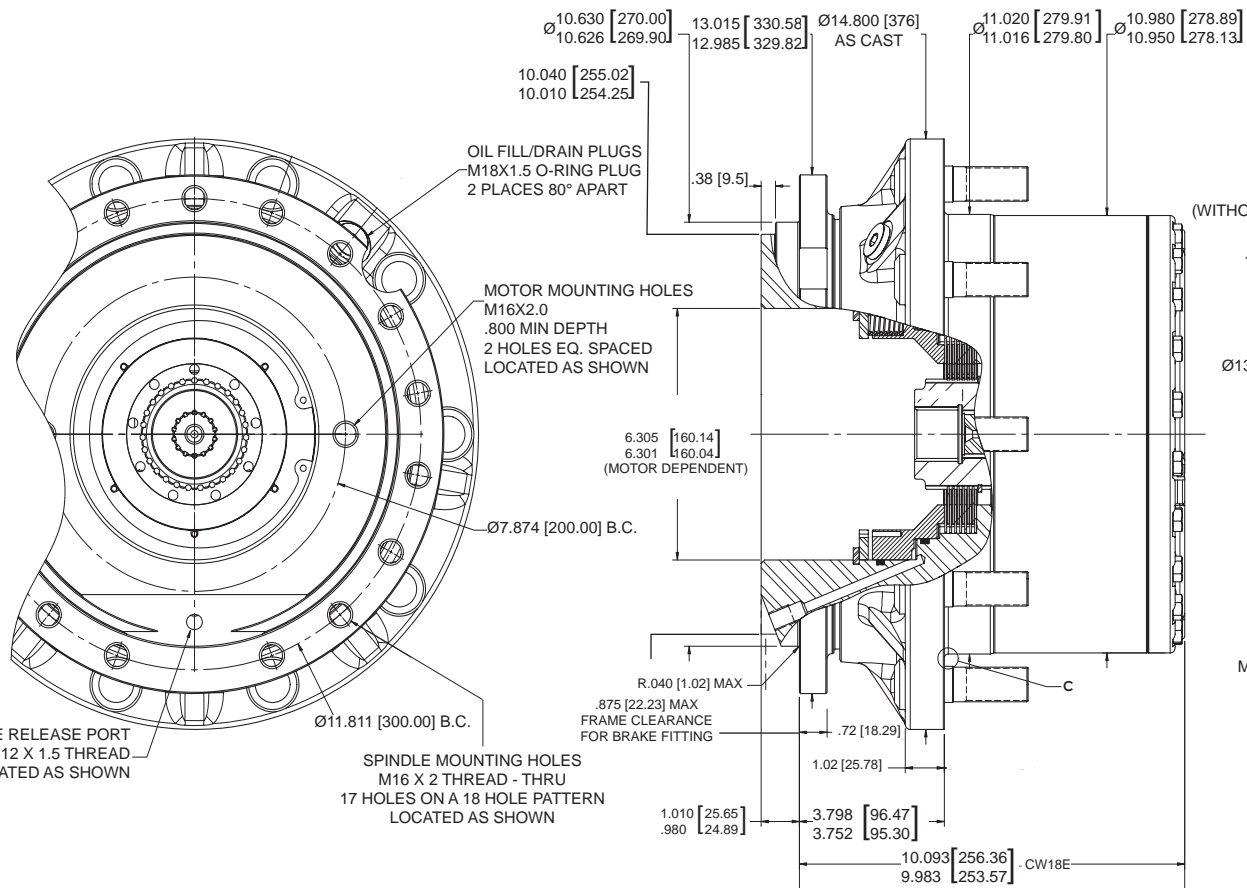
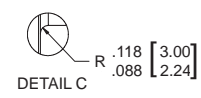
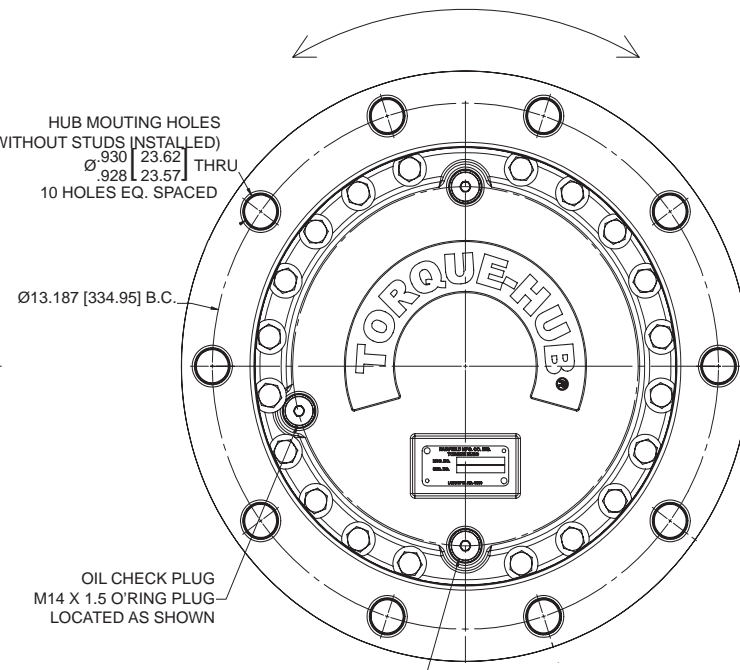


TORQUE-HUB
Planetary Final Drives



OUTPUT ROTATION - OPPOSITE INPUT ROTATION



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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

CW18E

Performance Data

Continuous	Intermittent
80,000 lb-in 9,000 Nm	160,000 lb-in 18,000 Nm

Speed Limitations

Units with Brake: 5,000 RPM Maximum Intermittent
(periods of 30 minutes or less)

Units without Brake: 6,000 RPM Maximum Intermittent
(periods of 30 minutes or less)

Weight

Approximately 220 lbs (100 kg)

Note: Specific models will change weights. Designed for use with cartridge style hydraulic motors.

CW18 Model Formula

CW – Compact Wheel Drive

Output Torque Capacity
18 – 18,000 Nm

Housing/Spindle Configuration
(Contact Fairfield)

Hydraulic Motor Cavity Configuration

- 1 – Sauer-Danfoss H1B060, 51C060, 90K42/55, 40M46
Rexroth A2FE 45/56/63
Rexroth A6VE 55, A10VE63 (15T)
Parker/Voac F12 - 40/60, V12-60 (W30)
- 2 – Sauer-Danfoss 90M55, 90K75
- 4 – Sauer-Danfoss H1B080 (W35), 51C080 (W35)
- B – Sauer-Danfoss H1B080 (W40), 51C080 (W40)
Rexroth A6VE80
Parker/Voac F12 - 80/90
Linde HMV075
- 7 – SAE “B”
- 8 – SAE “C”

Wheel Studs

- 0 – Not Included (.930/.928 thru hole)
- H – M22 x 1.5 by 2.22”
- 1 – 3/4 - 16 UNC by 1.54”
- J – M22 x 1.5 by 3.05”

Oil

Fill to half full with EP-90 oil on most applications

Volume of Oil:

- 62 oz. (1,833 cm³) for CW18 units with brake included
- 80 oz. (2,366 cm³) for CW18 units without brake

Note: Oil volume will vary with specific model and application.

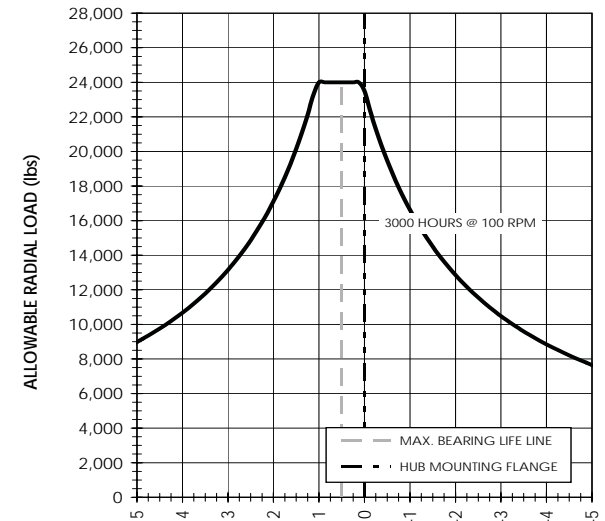
Conditions of Bearing Curve

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



CW 18 E1 2 H 1 4 051

Motor Shaft Input

- 4 – 14T, 12/24
- 7 – 21T, 16/32
- 8 – 15T, 16/32
- A – W30x2x14x9g
- B – W35x2x16x9g
- D – W40x2x18x9g

Input Brake

- 0 – Not Included
- 1 – 3090 lb-in (349 Nm)
- 2 – 4495 lb-in (508 Nm)
- 3 – 5338 lb-in (603 Nm)
- 4 – 3652 lb-in (413 Nm)

Note: 3,000 PSI (207 Bar) maximum pressure for all brakes listed.

Ratios

- 025 – 24.65:1
- 031 – 30.93:1
- 036 – 35.83:1
- 043 – 43.00:1
- 051 – 51.00:1

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