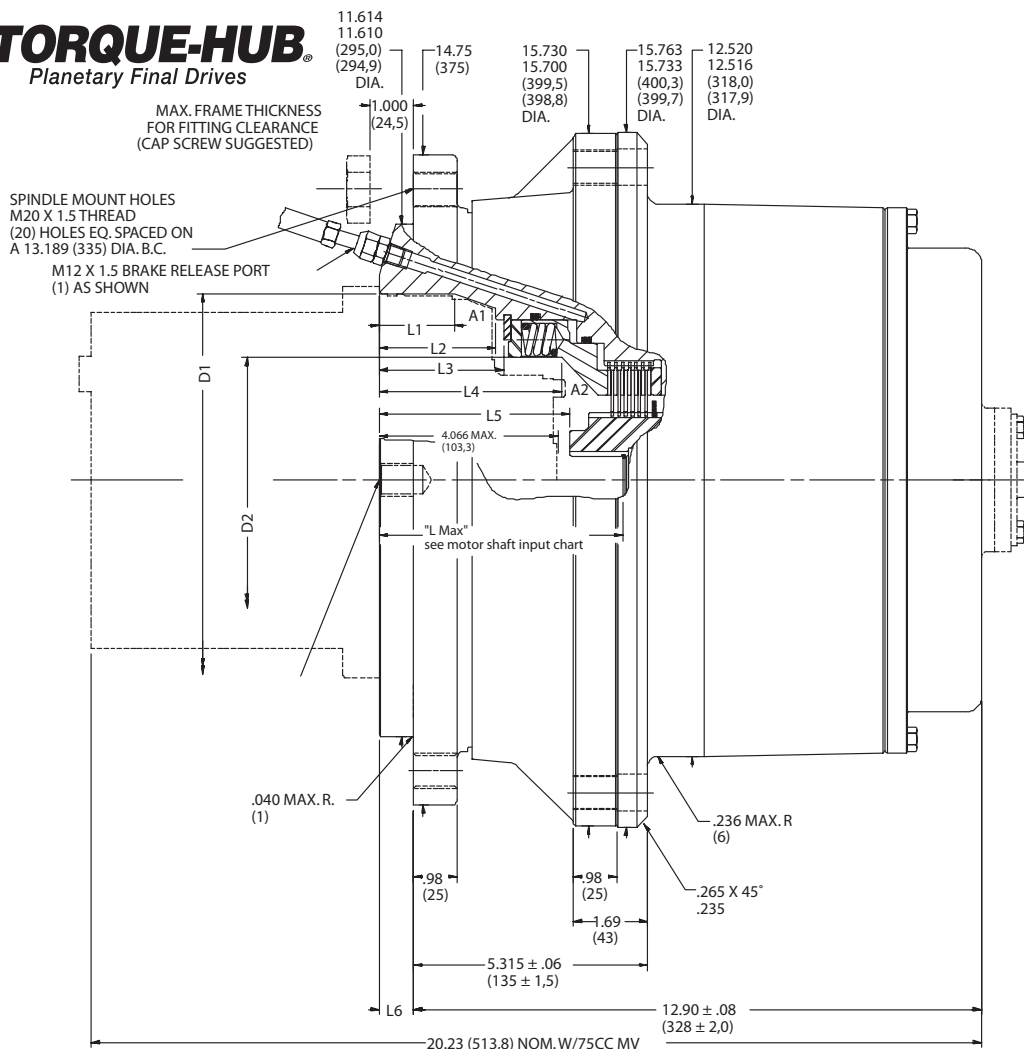


CT35A Application Sheet

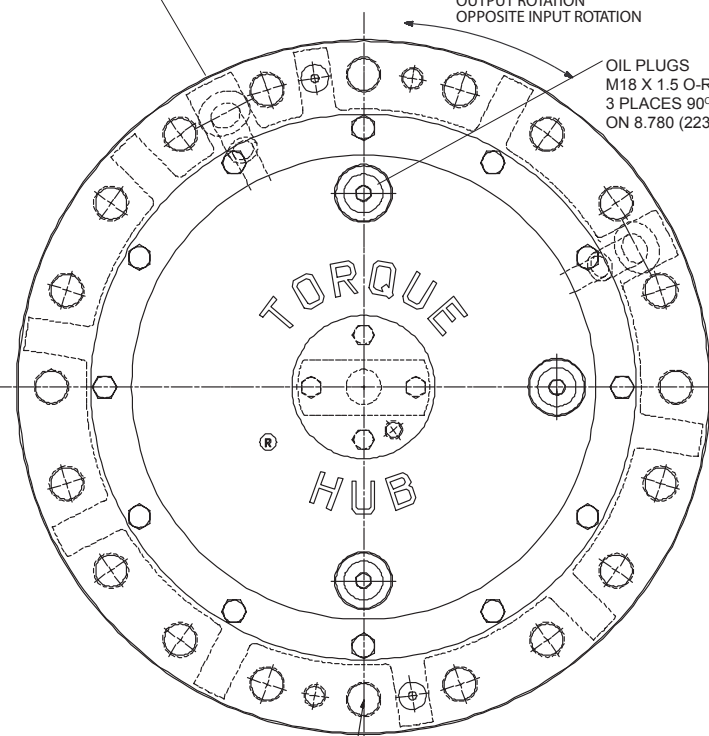
TORQUE-HUB® Planetary Final Drives



OIL PLUGS
M18 X 1.5 O-RING
2 PLACES 90° APART
ON RIB SIDE OF HUB FLANGE

OUTPUT ROTATION
OPPOSITE INPUT ROTATION

OIL PLUGS
M18 X 1.5 O-RING
3 PLACES 90° APART
ON 8.780 (223) DIA. B.C.



HUB MOUNT HOLES
M20 X 1.5 THREAD
(20) HOLES EQ. SPACED
ON A 14.173 (360) DIA. B.C.

	D1	D2	L1 MIN	L2 MIN	L3 MIN	L4 MIN	L5 MIN	L6 NOM	A1	A2	MOTOR MOUNT HOLES
CT35A11 & 15	6.303 ± .002 (160.09 ± .05)	5.545 (140.84)	N/A	N/A	2.533 (64.85)	3.738 (94.95)	3.894 MIN (99)	.79 (20.01)	N/A	45°	M16 X 2 THREAD .800 (20.3) MIN. FULL THD. 2 HOLES @ 180° 7.874 (200) DIA. B.C.
CT35A12	7.484 ± .002 (190.09 ± .05)	5.545 (140.84)	N/A	2.625 (66.68)	2.824 (71.74)	4.102 (104.19)	4.265 (108.33)	.79 (20.01)	N/A	45°	M20 X 1.5 THREAD .885 (22.5) MIN. FULL THD. 2 HOLES @ 180° 10.040 (255) DIA. B.C.
CT35A13	8.468 ± .002 (215.09 ± .05)	5.545 (140.84)	1.705 (43.31)	2.625 (66.68)	2.824 (71.74)	4.102 (104.19)	4.625 (117.46)	.79 (20.01)	20°	45°	M20 X 1.5 THREAD .785 (20.2) MIN. FULL THD. 2 HOLES @ 180° 10.040 (255) DIA. B.C.
CT35A14	7.484 ± .002 (190.09 ± .05)	5.545 (140.84)	N/A	2.990 (75.95)	3.194 (81.13)	4.472 (113.59)	4.495 (114.17)	1.15 (29.21)	N/A	45°	M20 X 1.5 THREAD .885 (22.5) MIN. FULL THD. 2 HOLES @ 180° 8.819 (224) DIA. B.C.
CT35A18	SAE C MOTOR PILOT 5.005/6.001						1.015 (25.78)	1.175 (44.45)	N/A	N/A	1/2 -13 UNC-28 THREAD .830 (16) MIN. FULL THD. 4 HOLES EQ. SPACED 6.375 (161.93) DIA. B.C.



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

CT35A

Performance Data

Continuous	Intermittent	Peak
154,892 lb-in 17,500 Nm	309,785 lb-in 35,000 Nm	Contact Fairfield

For ultimate torque and horsepower capacities, contact a Torque-Hub® representative.

Speed Limitations

Units with Brake: 5,000 RPM Max. Intermittent
(periods of 30 min or less)

Units without Brake: 6,000 RPM Max. Intermittent
(periods of 30 min or less)

Weight

Approximately 335 lbs (152 kg)

Note: Specific models will change weights.

CT35 Model Formula

CT 35 A1 1 0 D B 095 D -

CT – Compact Track Drive

Frame Size/ Output Torque Capacity
35 – 320,000 lb-in (35,000 Nm)

Housing/Spindle Configuration
(Contact Fairfield.)

Hydraulic Motor Cavity Configuration

- 1 – 46cc (MV), 55cc (MF), 42cc (MF)
- 2 – 55cc (MV), 75cc (MF)
- 3 – 75cc (MV)
- 4 – 80cc (MV) – Bent Axis
Designed for use with cartridge-style hydraulic motors.

Motor Shaft Input

- 4 – 14T, 12/24 (55cc, 75cc) L Max = 5.180 or 5.542
- 8 – 15T, 16/32 (42cc, 46cc) L Max = 5.042
- A – W30x2x14x9g (60cc) L Max = 5.042
- B – W35x2x16x9g (80cc) L Max = 5.955

Input Brake

- D** – 3,250 lb-in (367 Nm) STATIC
110 PSI (8 Bar) FULL RELEASE PRESSURE
 - E** – 4,335 lb-in (490 Nm) STATIC
140 PSI (10 Bar) FULL RELEASE PRESSURE
 - F** – 5,960 lb-in (673 Nm) STATIC
200 PSI (14 Bar) FULL RELEASE PRESSURE
- Note: 3,000 PSI (207 Bar) Maximum Pressure for all brakes listed.

Wheel Studs
0 – Not Included

Special Features

V – Viton Seals in Gear Package & Brake

Special Features

D – Input Disengage (optional)
Z – Blank

Reduction

- 063 – 63.49:1
- 069 – 68.67:1
- 079 – 78.71:1
- 085 – 85.11:1
- 095 – 94.54:1
- 110 – 110.07:1
- 117 – 117.10:1
- 136 – 136.29:1

Oil

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

Volume of Oil:

- 133 oz. (3,935 cm³) for units with brake
- 145 oz. (4,290 cm³) for units without brake

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

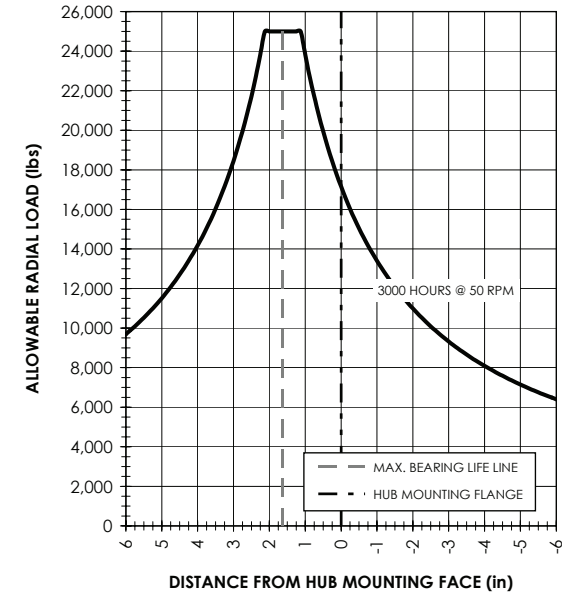
Conditions of Bearing Curve

Life = 3000 hours B-10
Speed = 50 RPM output

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

$$\text{Adjusted Life (hrs)} = 3000 \left(\frac{50 \text{ RPM}}{\text{Speed (Adjusted)}} \right) \left(\frac{\text{Load (Curve)}}{\text{Load (Adjusted)}} \right)^{10/3}$$

Bearing Curve



oerlikon
fairfield
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First in Custom Gears and Drive Systems

www.fairfieldmfg.com

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