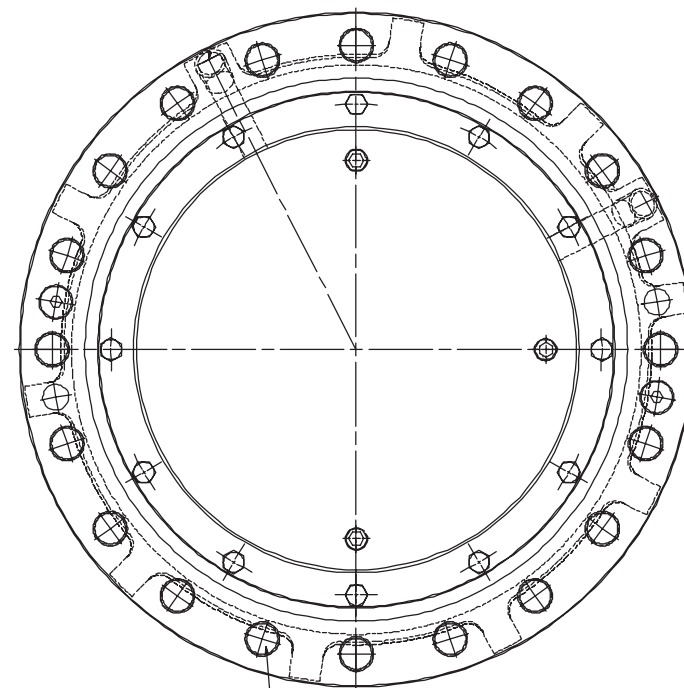
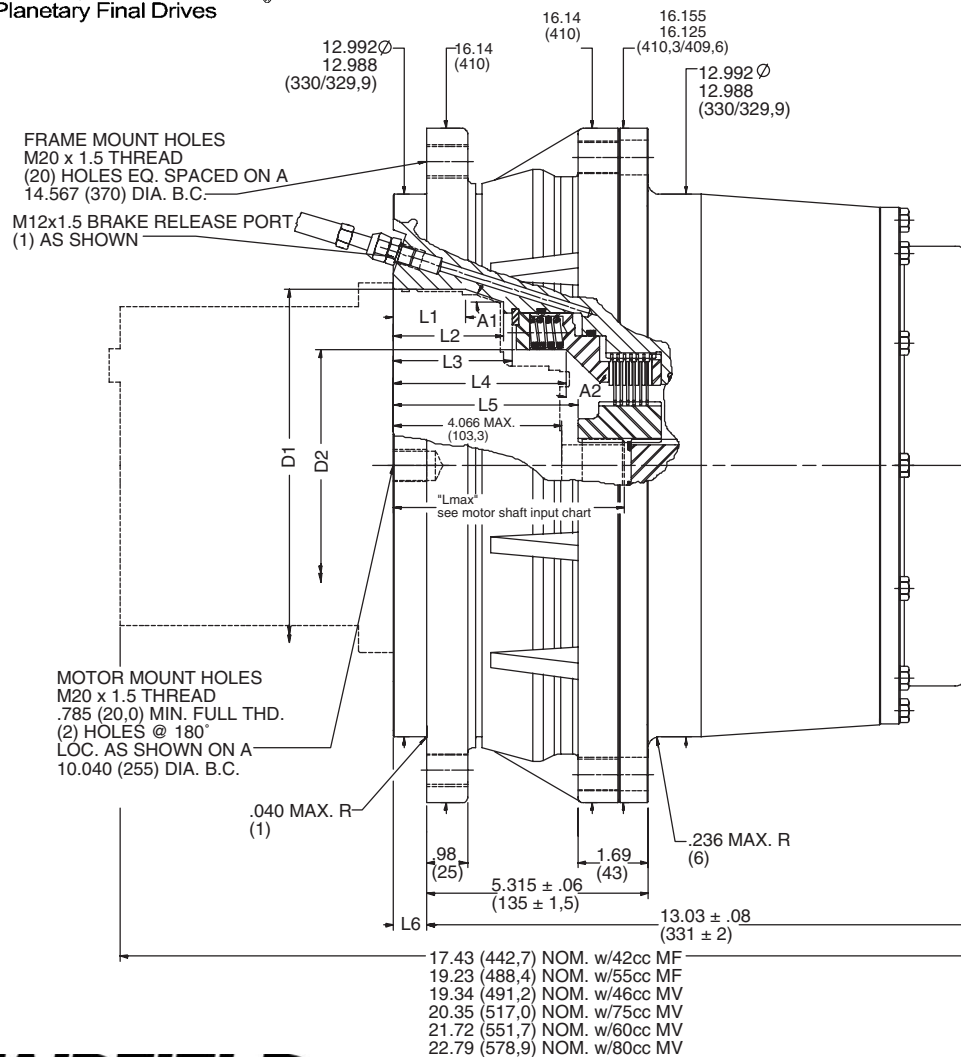


CT Series

CT45

Application Sheet

TORQUE-HUB® Planetary Final Drives



WHEEL MOUNT HOLES
M20 x 1.5 THREAD
(20) HOLES EQ. SPACED ON A
14.567 (370) DIA. B.C.

	D1	D2	L1 MIN.	L2 MIN.	L3 MIN.	L4 MIN.	L5 MIN.	L6 NOM.	A1	A2
CT45A11	6.303 ± .002 (160,09 ± .05)	5.545 (140,84)	N/A	N/A	2.553 (64,85)	3.738 (94,95)	3.894 (98,91)	.79 (20,07)	N/A	45°
CT45A12	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 (20,07)	N/A	45°
CT45A13	7.484 ± .002 (190,09 ± .05)	5.545 (140,84)	1.705 (43,31)	2.625 (66,68)	2.824 (71,74)	4.102 (104,19)	4.265 (108,33)	.79 (20,07)	20°	45°
CT45A14	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°

FAIRFIELD
GEARED FOR EXCELLENCE

NOTE: MM SHOWN IN ()
MOTOR CAVITY DIMENSIONS VARY WITH MODEL

OTHER MODELS ALSO AVAILABLE

CT45

Performance Data

Continuous	Intermittent	Peak
200,000 lb-in 22,500 Nm	400,000 lb-in 45,000 Nm	Contact Fairfield

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

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 365 lbs (166 kg)

Note: Specific models will change weights.

CT45 Model Formula

Oil

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

Volume of Oil: 160 oz. (4,706 cm³) for units without brake
144 oz. (4,235 cm³) for units with brake

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

Conditions of Bearing Curve

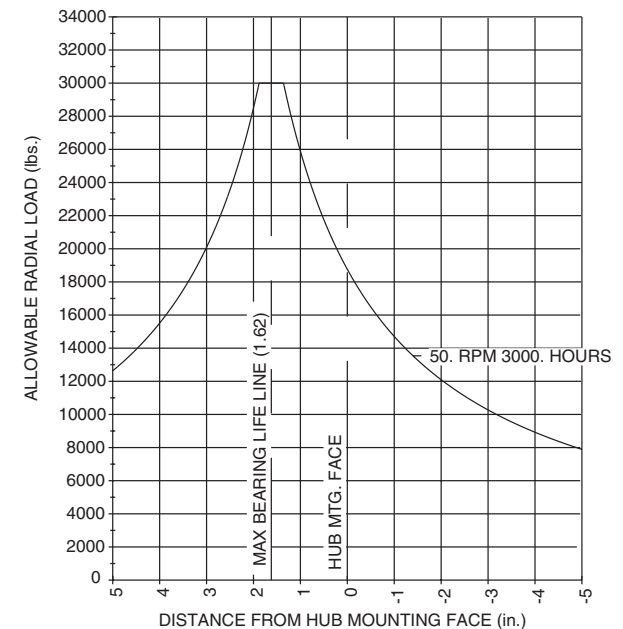
Life = 3000 hours B-10

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



CT – Compact Track Drive

Frame Size

Output Torque Capacity

45– 400,000 lb-in (45,000 Nm)

Housing/Spindle Configuration

Special Features

D– Input Disengage

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

Reduction

63– 63.49:1

69– 68.67:1

79– 78.71:1

85– 85.11:1

95– 95.54:1

110– 110.07:1

117– 117.1:1

136– 136.29:1

Static Input Brake

0– Not Included

D– 3,250 lb-in (367 Nm) STATIC

110 psi (8 bar) FULL RELEASE

E– 4,335 lb-in (490 Nm) STATIC

140 psi (10 bar) FULL RELEASE

F– 5,960 lb-in (673 Nm) STATIC

200 psi (14 bar) FULL RELEASE

Note: 3,000 PSI (207 Bar) Maximum Pressure for all brakes listed.

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FAIRFIELD
GEARED FOR EXCELLENCE

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

U.S. 52 South
P.O. Box 7940
Lafayette, IN 47903-7940 USA
Telephone (765) 772-4000
FAX (765) 772-4001
www.fairfieldmfg.com

Hydraulic Motor Cavity Configuration

1– 42cc (MF), 55cc (MF), 46cc (MV), 60cc (MV)

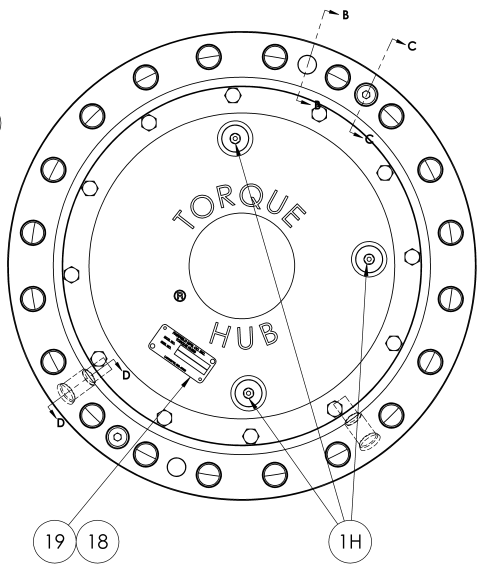
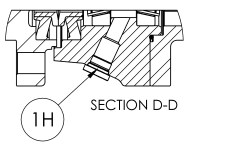
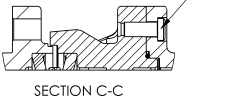
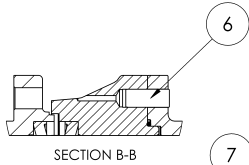
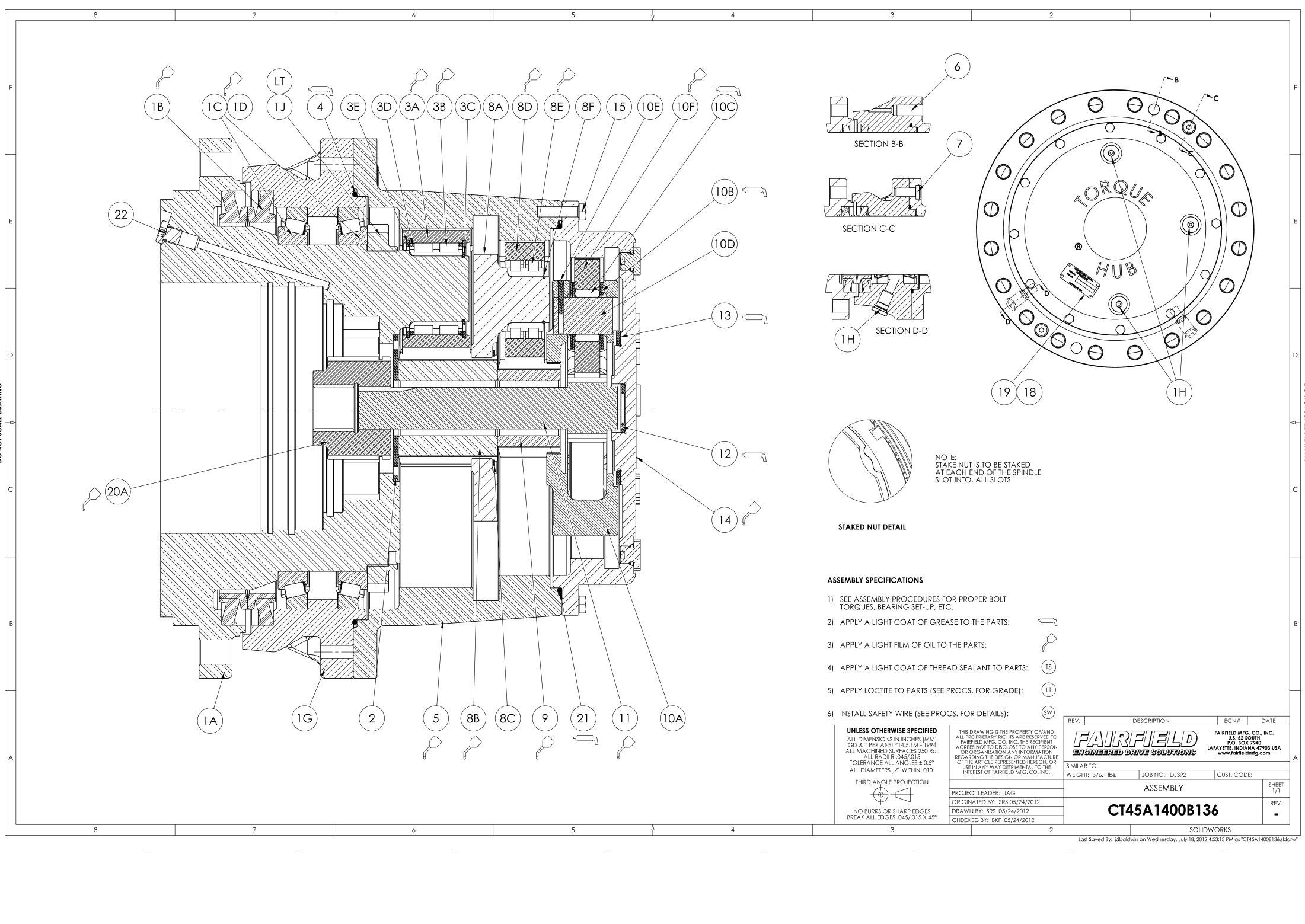
2– 55cc (MV), 75cc (MF)

3– 75cc (MV)

4– 80cc (MV)

Wheel Stud Configuration

0– Not Included



NOTE:
STAKE NUT IS TO BE STAKED
AT EACH END OF THE SPINDLE
SLOT INTO, ALL SLOTS

ASSEMBLY SPECIFICATIONS

- 1) SEE ASSEMBLY PROCEDURES FOR PROPER BOLT TORQUES, BEARING SET-UP, ETC.
- 2) APPLY A LIGHT COAT OF GREASE TO THE PARTS:
- 3) APPLY A LIGHT FILM OF OIL TO THE PARTS:
- 4) APPLY A LIGHT COAT OF THREAD SEALANT TO PARTS:
- 5) APPLY LOCTITE TO PARTS (SEE PROCS. FOR GRADE):
- 6) INSTALL SAFETY WIRE (SEE PROCS. FOR DETAILS):



UNLESS OTHERWISE SPECIFIED
ALL DIMENSIONS IN INCHES (MM)
GD & T PER ANSI Y14.5-1M - 1994
ALL MACHINED SURFACES 250 Ra
ALL RADII R .045/.015
TOLERANCE ALL ANGLES ± 0.5°
ALL DIAMETERS $\varnothing$ WITHIN .010"
THIRD ANGLE PROJECTION
NO BURES OR SHARP EDGES
BREAK ALL EDGES .045/.015 X 45°

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PROJECT LEADER: JAG
ORIGINATED BY: SRS 05/24/2012
DRAWN BY: SRS 05/24/2012
CHECKED BY: BKF 05/24/2012

REV.	DESCRIPTION	ECN#	DATE
1	ASSEMBLY		
CT45A1400B136			
SHEET 1/1			
REV.			