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FAIRFIELD Torque-Hub®

Planetary Final Drives

innovation has a name

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FAIRFIELD Torque-Hub®

More Power in a Smaller, Lighter and More Efficient Design

For Industrial Machinery and Mobile Equipment

Fairfield Torque-Hub® final drives deliver the torque output and long-life performance required for industrial machinery and off-highway mobile equipment.

Standard input configurations and a choice of shaft, spindle or wheel drive output options combine to meet the needs of many power transmission applications. In addition, standard SAE hydraulic motor mounting provisions accommodate nearly any hydraulic motor.

The application flexibility provided by these features and the broad range of torque outputs and gear ratios available have helped to make Fairfield Torque-Hub® the preferred final drives of manufacturers throughout the world. Our customers include the world's leading manufacturers of agricultural and construction equipment, conveyors, augers, mixers, wire drawing, capstan winches, metal roll bending machinery, garbage shredders, aerators and many other types of specialized products.

Gearing to Meet Your Requirements

Fairfield Torque-Hub® drives are available in single planetary, double planetary, triple planetary and differential planetary gearing configurations to meet your torque and operating speed requirements.

For more specific dimensional information, contact your Fairfield representative or see the appropriate series catalog.

Wheel Drive, Shaft or Spindle Outputs

Wheel Drive

Ideal for propelling off-highway equipment, Fairfield Torque-Hub® wheel drives are also used to power winches and many marine applications. Wheel drives allow the design engineer greater flexibility to economically deliver power where it is needed.

Shaft Output

Shaft outputs facilitate the delivery of power to remote in-plant machinery, such as conveyors, mixers and augers. They also meet remote power requirements, such as swing drives on mobile man-lifts, cranes, excavators and logging equipment.

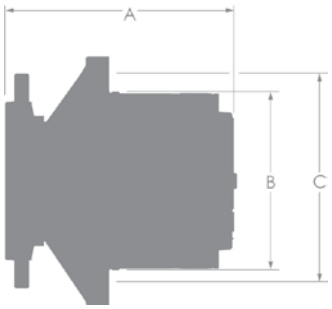
Spindle Output

Spindle outputs are used to power the drive wheels of vehicles with small-diameter wheels, such as small lift trucks and mowers. They meet many other requirements where a flange mount is more desirable.

Planetary Final Drive Capabilities

Wheel Drive Products

Performance Data				Physical Data				
Model	Max. Cont. Torque lb-in (Nm)	Max. Intrmt. Torque lb-in (Nm)	Max. Input Speed (RPM)	Max. Radial Load lb (kg)	Ratio (x:1)	Overall Length in (mm) A	Pilot Mtg. in (mm) B	B.C. Diam. in (mm) C
W07A	7,500 (850)	15,000 (1,690)	5,000	5,800 (2,636)	4	8.70 (221.0)	6.00 (152.4)	8.00 (203.2)
W1A	15,000 (1,690)	30,000 (3,390)	4,000	5,500 (2,500)	18 to 68	10.30 (261.6)	7.90 (200.7)	9.50 (241.3)
W1BF	15,000 (1,690)	30,000 (3,390)	4,000	5,500 (2,500)	18 to 68	10.30 (261.6)	7.90 (200.7)	9.50 (241.3)
W2B2	25,000 (2,820)	50,000 (5,650)	4,000	12,500 (5,682)	13 to 68	11.25 (285.8)	9.50 (241.3)	11.13 (282.7)
7HB0	30,000 (3,500)	60,000 (7,000)	5,000	5,500 (2,500)	19 to 132	9.30 (236.2)	7.89 (200.3)	9.50 (241.3)
7HBA	30,000 (3,500)	60,000 (7,000)	5,000	14,000 (6,364)	19 to 132	9.30 (236.2)	7.89 (200.3)	9.50 (241.3)
7HP	30,000 (3,500)	60,000 (7,000)	5,000	14,000 (6,364)	19 to 132	10.68 (271.3)	7.89 (200.3)	9.50 (241.3)
7HLH	30,000 (3,500)	60,000 (7,000)	4,000	14,000 (6,364)	19 to 132	9.91 (251.7)	7.89 (200.3)	9.50 (241.3)
W3B1	37,500 (4,240)	75,000 (8,470)	3,000	14,000 (6,364)	18 to 73	12.20 (309.9)	11.02 (279.9)	13.18 (334.8)
W3C	37,500 (4,240)	75,000 (8,470)	3,000	14,000 (6,364)	18 to 73	12.20 (309.9)	11.02 (279.9)	13.18 (334.8)
11HBA0A	48,675 (5500)	97,350 (11,000)	5,000	16,000 (7,273)	15 to 121	11.27 (286.3)	9.84 (249.9)	11.42 (290)
11HBA0B	48,675 (5500)	97,350 (11,000)	5,000	16,000 (7,273)	15 to 121	11.27 (286.3)	11.02 (279.9)	13.19 (335)
11HPA1D	48,675 (5500)	97,350 (11,000)	5,000	16,000 (7,273)	15 to 121	11.42 (290.1)	9.84 (249.9)	11.42 (290)
11HPA1E	48,675 (5500)	97,350 (11,000)	5,000	16,000 (7,273)	15 to 121	11.42 (290.1)	11.02 (279.9)	13.19 (335)
W5	50,000 (5,650)	100,000 (11,300)	5,000	14,000 (6,364)	15 to 49	12.71 (322.8)	11.02 (279.9)	13.18 (334.8)
W6C1	60,000 (6,780)	120,000 (13,560)	5,000	8,000 (3,634)	13 to 116	13.00 (330.2)	11.02 (279.9)	13.18 (334.8)
W7C	75,000 (8,470)	150,000 (16,950)	3,000	20,000 (9,091)	26 to 94	15.00 (381.0)	14.45 (367.0)	16.75 (425.5)
18HB/HC	80,000 (9,000)	160,000 (18,000)	5,000	20,000 (9,072)	25 to 141	12.75 (323.8)	11.02 (280.0)	13.19 (335.0)
W10C2	125,000 (14,120)	250,000 (28,250)	1,800	30,000 (13,636)	43 to 123	17.60 (447.0)	17.50 (444.5)	19.75 (501.7)
W12C3	125,000 (141,420)	250,000 (28,250)	5,000	20,000 (9,091)	20, 29, 40	19.10 (485.1)	14.45 (367.0)	16.75 (425.5)
W16C3	160,000 (18,080)	320,000 (36,160)	4,000	26,000 (11,818)	20, 29, 40	19.10 (485.1)	14.45 (367.0)	16.75 (425.5)
W20D1	250,000 (28,250)	500,000 (56,490)	1,800	42,000 (19,091)	26 to 115	20.70 (525.8)	19.00 (590.8)	21.90 (556.3)
W25D4	200,000 (22,600)	400,000 (45,190)	3,000	30,000 (13,636)	19 to 88	19.47 (494.5)	17.50 (444.5)	19.75 (501.7)
W40D2	500,000 (56,490)	1,000,000 (112,980)	2,500	30,000 (13,636)	18 to 40	23.52 (597.4)	20.94 (531.9)	22.39 (568.6)
W50D9	500,000 (56,490)	1,000,000 (112,980)	2,500	30,000 (13,636)	18 to 40	24.20 (614.7)	19.00 (482.5)	21.90 (556.3)
W50DG	500,000 (56,490)	1,000,000 (112,980)	2,500	30,000 (13,636)	76 to 213	26.01 (660.7)	20.93 (531.6)	22.39 (568.6)
W80D1	800,000 (90,388)	1,600,000 (180,776)	2,500	30,000 (13,636)	17, 20, 35	24.17 (613.9)	23.26 (290.8)	25.25 (641.4)
W90D	1,470,000 (166,090)	2,940,000 (332,290)	3,250	45,800 (20,774)	94 to 151	43.40 (1,102.4)	22.84 (580.1)	25.78 (654.8)
W90K	1,470,000 (166,090)	2,940,000 (332,290)	2,200	45,800 (20,774)	25	30.50 (774.7)	22.84 (580.1)	25.78 (654.8)



Wheel Drive Products

CT/CW Track/Wheel Drives

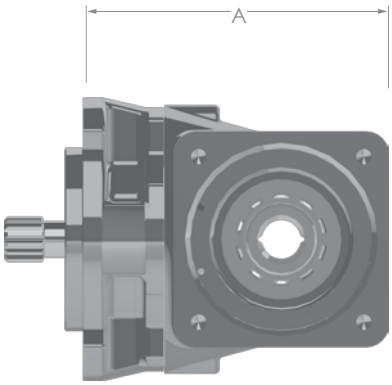
Performance and Physical Data

Model	Torque Intrmt. (Nm)	Length Torque in (mm) (L)	Ratio (x:1)	Model	Torque Intrmt. (Nm)	Length Torque in (mm) (L)	Ratio (x:1)
CT18	18,000	12.57 (319.3)	63 to 141	CW12	12,000	10.20 (259.0)	18 to 41
CT26	26,000	13.94 (354.1)	51 to 202	CW18	18,000	11.10 (282.0)	25 to 51
CT35	35,000	14.13 (358.9)	63 to 136				
CT50	45,000	14.85 (377.2)	60 to 169	Contact Oerlikon Fairfield for accurate and precise dimensions.			

Right Angle Drives

Performance Data			Physical Data		
Model	Max. Cont. Output Torque lb-in (Nm)	Max. Input Speed (RPM)	Ratio (x:1)	Overall Length in (mm) (A)	Shaft Diam. in (mm)
RA701, 02 & 05	3,700 (418)	3,400	1	8.31 (211.1)	1.25 (31.8)
RA703 & 06	3,700 (418)	3,400	1	8.31 (211.1)	1.75 (44.5)
RA708	1,836 (200)	3,700	1.53	9.10 (231.1)	0.88 (22.4)
RA10	3,700 (418)	3,000	2.78	10.72 (272.3)	1.75 (44.5)
RA15	12,250 (1,384)	3,000	1.08, 1.36	11.41 (289.8)	1.75 (44.5)

CT/CW Track/Wheel Drives



Right Angle Drives

Planetary Final Drive Capabilities

T2 Two-Speed Drives

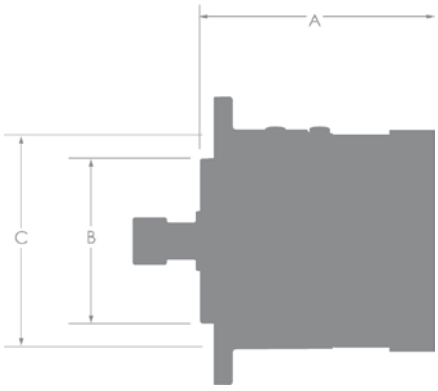
Performance Data			Physical Data			
Model	Max. Cont. Input Torque lb-in (Nm)	Max. Input Speed (RPM)	Ratio (x:1)	Overall Length in (mm) (A)	Pilot Mtg. in (mm) (B)	B.C. Diam. in (mm) (C)
T2A	2,500 (280)	3,500	3.5 to 4	8.07 (204.98)	6.00 (152.40)	9.00 (228.60)
T2B	4,000 (450)	3,750	3.5 to 4	9.11 (231.39)	6.00 (152.40)	9.00 (228.60)

Torque II Two-Speed Drives

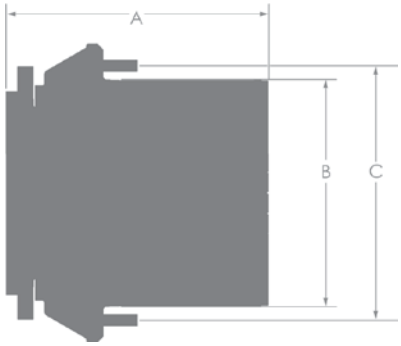
Performance Data				Physical Data				
Model	Max. Cont. Torque lb-in (Nm)	Max. Intrmt. Torque lb-in (Nm)	Max. Input Speed (RPM)	Max. Radial Load lb (kg)	Ratio (x:1)	Overall Length in (mm) (A)	Pilot Mtg. in (mm) (B)	B.C. Diam. in (mm) (C)
W9T	90,000 (10,170)	180,000 (20,340)	3,750	27,000 (12,273)	35	12.20 (309.88)	12.00 (304.80)	14.17 (359.92)
W12T	125,000 (14,120)	250,000 (28,250)	3,750	36,000 (16,364)	20, 29, 40	16.80 (426.72)	14.50 (368.30)	16.75 (425.45)
W16T	160,000 (18,080)	320,000 (36,160)	3,750	36,000 (16,364)	20, 29, 40	16.80 (426.72)	14.50 (368.30)	16.75 (425.45)

Special Add-On Adaptors

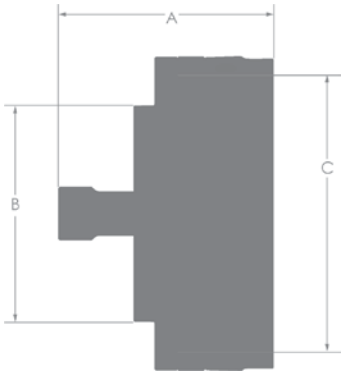
Performance Data				Physical Data					
Model	Max. Cont. Torque lb-in (Nm)	Max. Intrmt. Torque lb-in (Nm)	Max Input Speed (RPM)	Max. Radial Load lb (kg)	Ratio (x:1)	Overall Length in (mm) (A)	Pilot Mtg in (mm) (B)	B.C. Diam. in (mm) (C)	Shaft Diam. in (mm)
G07	6,000 (680)	12,000 (1,360)	4,000	0	3.6	5.10 (129.54)	5.00 (127.00)	6.37 (161.80)	1.25 (31.75)
SICD	15,000 (1,695)	30,000 (3,390)	5,000	5,500 (2,500)	3 to 6	11.16 (283.46)	6.00 (152.40)	9.00 (228.60)	1.75 (44.45)
IA15	15,000 (1,695)	30,000 (3,390)	3,000	19,000 (8,618)	NA	15.00 (381.00)	6.00 (152.40)	9.00 (228.60)	3.00 (76.20)
IAB	1,850 (210)	3,700 (420)	3,000	1,800 (818)	NA	6.91 (175.50)	4.00 (101.06)	5.75 (146.00)	1.38 (34.90)
IAC	5,700 (644)	11,400 (1,288)	3,000	4,350 (1,977)	NA	9.36 (237.80)	5.00 (127.00)	6.38 (161.90)	1.50 (38.10)
IAD	15,000 (1,695)	30,000 (3,390)	3,000	9,000 (4,091)	NA	13.68 (347.40)	6.00 (152.40)	9.00 (228.60)	2.00 (50.80)



T-2 Two-Speed Drives



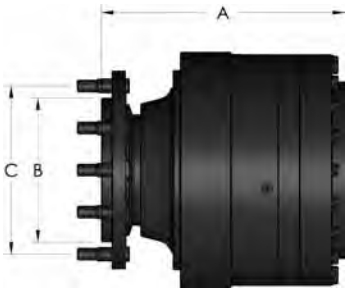
Torque II Two-Speed Drives



Special Add-On Adapters

Spindle Flange Output

Performance Data				Physical Data				
Model	Max. Cont. Torque lb-in (Nm)	Max. Intrmt. Torque lb-in (Nm)	Max. Input Speed (RPM)	Max. Radial Load lb (kg)	Ratio (x:1)	Overall Length in (mm) A	Pilot Mtg. in (mm) B	B.C. Diam. in (mm) C
S1B9	15,000 (1,690)	30,000 (3,390)	4,000	6,000 (2,727)	19 to 69	10.56 (268.2)	4.62 (117.4)	6.00 (152.4)
S1E	15,000 (1,690)	30,000 (3,390)	5,000	7,000 (3,182)	3 to 6	9.00 (228.6)	4.00 (101.6)	5.50 (139.7)
S2B1	25,000 (2,820)	50,000 (5,650)	4,000	13,000 (5,909)	14 to 50	12.59 (319.8)	7.00 (177.8)	8.25 (209.6)
S3B8	37,500 (4,240)	75,000 (8,470)	3,000	16,000 (7,273)	19 to 74	12.74 (323.6)	7.00 (177.8)	9.50 (241.3)
S6B3	60,000 (6,780)	120,000 (13,560)	5,000	15,500 (7,031)	13 to 42	15.88 (403.4)	7.00 (177.8)	9.50 (241.3)
S7B2	75,000 (8,470)	150,000 (16,950)	3,000	20,000 (9,091)	27 to 95	15.25 (387.4)	9.00 (228.6)	10.50 (266.7)
S10B4	125,000 (14,120)	250,000 (28,250)	1,800	30,000 (13,636)	44 to 124	18.16 (461.3)	9.50 (241.3)	12.00 (304.8)
S12B2	125,000 (14,120)	250,000 (28,250)	5,000	15,000 (6,818)	20, 29, 40	19.79 (502.7)	9.00 (228.6)	10.50 (266.7)
S16B2	160,000 (18,080)	320,000 (36,160)	4,000	15,000 (6,818)	20, 29, 40	19.79 (502.7)	9.00 (228.6)	10.50 (226.7)
S20B1	250,000 (28,250)	500,000 (56,490)	1,800	42,000 (19,051)	27 to 116	21.50 (546.1)	12.75 (323.9)	15.00 (381.0)
S25B4	200,000 (22,600)	400,000 (45,190)	3,000	34,000 (15,455)	19, 29, 36	22.01 (559.1)	11.00 (279.4)	12.75 (323.0)
S40B1	400,000 (45,200))	800,000 (90,400)	3,000	30,000 (13,636)	25, 40	23.00 (584.2)	12.75 (323.9)	15.00 (381.0)
S50B1	500,000 (56,490)	1,000,000 (112,980)	3,000	42,000 (19,091)	25 to 289	24.09 (611.9)	12.75 (323.9)	15.00 (381.0)
S80B2	800,000 (90,388)	1,600,000 (180,776)	2,500	50,000 (22,727)	36, 134, 143	32.80 (833.1)	9.84 (249.9)	13.78 (350.0)
S90B1	1,470,000 (166,090)	2,940,000 (332,290)	2,200	45,800 (20,774)	26	32.40 (823.0)	15.75 (400.0)	18.11 (460.0)

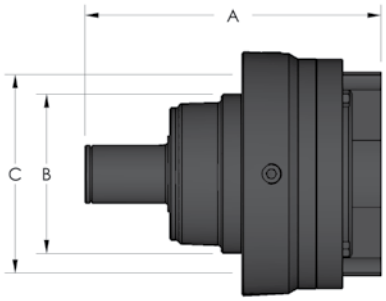


Spindle Flange Output

Planetary Final Drive Capabilities

Shaft Output

Performance Data				Physical Data					
Model	Max. Cont. Torque lb-in (Nm)	Max. Intrmt. Torque lb-in (Nm)	Max. Input Speed (RPM)	Max. Radial Load – lb (kg)	Ratio (x:1)	Overall Length in (mm) A	Pilot Mtg. in (mm) B	B.C. Diam. in (mm) C	Shaft Diam. in (mm)
S07A	7,500 (850)	15,000 (1,690)	5,000	4,000 (1,818)	4	9.86 (250.4)	6.50 (165.1)	7.50 (190.5)	1.75 (44.5)
S1A1/A2	15,000 (1,690)	30,000 (3,390)	4,000	7,000 (3,182)	19 to 69	11.90 (302.3)	8.56 (217.4)	9.50 (241.3)	2.00 (50.8)
S1C5	15,000 (1,690)	30,000 (3,390)	5,000	7,000 (3,182)	3 to 6	11.02 (280.0)	5.40 (137.2)	7.25 (184.2)	2.00 (50.8)
S1CK	15,000 (1,690)	30,000 (3,390)	5,000	7,000 (3,182)	3 to 6	12.83 (325.9)	5.00 (127.0)	6.37 (161.8)	2.13 (54.1)
S2A3	25,000 (2,820)	50,000 (5,650)	4,000	15,000 (6,818)	14 to 50	16.66 (423.2)	8.25 (209.6)	10.10 (256.5)	2.98 (75.7)
S3A6	37,500 (4,240)	75,000 (8,470)	3,000	16,000 (7,273)	19 to 74	13.68 (347.5)	8.25 (209.6)	10.10 (256.5)	2.98 (75.7)
S6A2	60,000 (6,780)	120,000 (13,560)	5,000	15,500 (7,045)	13 to 42	15.84 (402.3)	11.00 (279.4)	13.19 (335.0)	3.00 (76.2)
S6C7	60,000 (6,780)	120,000 (13,560)	2,500	15,500 (7,045)	4 to 6	14.57 (370.1)	11.00 (279.4)	13.19 (335.0)	3.00 (76.2)
S7AB	75,000 (8,470)	150,000 (16,950)	3,000	20,000 (9,091)	27 to 95	18.10 (459.7)	15.00 (381.0)	16.75 (425.3)	3.50 (88.9)
S7A1	75,000 (8,470)	150,000 (18,950)	3,000	20,000 (9,091)	27 to 95	18.10 (459.7)	12.50 (317.5)	13.63 (346.2)	3.75 (95.3)
S10A1/A2	125,000 (14,120)	250,000 (28,250)	1,800	30,000 (13,636)	44 to 124	21.30 (541.0)	18.26 (463.8)	19.75 (501.6)	4.33 (110.0)
S12A2	125,000 (14,120)	250,000 (28,250)	5,000	15,000 (6,818)	20, 29, 40	19.87 (504.7)	12.50 (317.5)	13.63 (346.2)	3.50 (130.3)
S16A4/A6	160,000 (18,080)	320,000 (36,160)	4,000	20,000 (9,091)	20, 29, 40	23.61 (599.7)	12.50 (317.5)	13.63 (346.2)	3.50 (88.9)
S20A1	250,000 (28,250)	500,000 (55,490)	1,800	42,000 (19,091)	27 to 116	25.20 (640.1)	19.00 (482.6)	21.90 (556.3)	5.13 (130.0)
S25A2	200,000 (22,600)	400,000 (45,190)	3,000	30,000 (13,636)	19, 29, 36	23.40 (594.4)	18.26 (463.8)	19.75 (501.7)	4.33 (110.0)
S40A	400,000 (45,198)	800,000 (90,395)	3,000	30,000 (13,636)	25, 40	26.70 (678.2)	21.40 (543.6)	22.39 (568.6)	5.12 (130.0)
S50A1	500,000 (56,490)	1,000,000 (113,000)	3,000	30,000 (13,636)	25 to 289	27.80 (706.1)	19.00 (482.6)	21.90 (556.3)	5.13 (130.3)



Shaft Output

No matter what kind of tracks you make... we have the drive solution.

Oerlikon Drive Systems

oerlikon fairfield

Oerlikon Fairfield
U.S. 52 South
P.O. Box 7940
Lafayette, Indiana 47903-7940 USA
765.772.4000
765.772.4001 (fax)
www.oerlikon.com/fairfield

oerlikon graziano

Oerlikon Graziano
Via Cumiana, 14
10098 Cascine Vica – Rivoli
Torino Italy
+39.011.95701
+39.011.9594803 (fax)
www.oerlikon.com/graziano

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