

Twin Disc - AP Style

Standard Power Take-Offs

Foley Engines

Shipping Address:
200 Summer Street

Worcester, MA 01604

Phone:
(508) 753-2979
(800) 233-6539

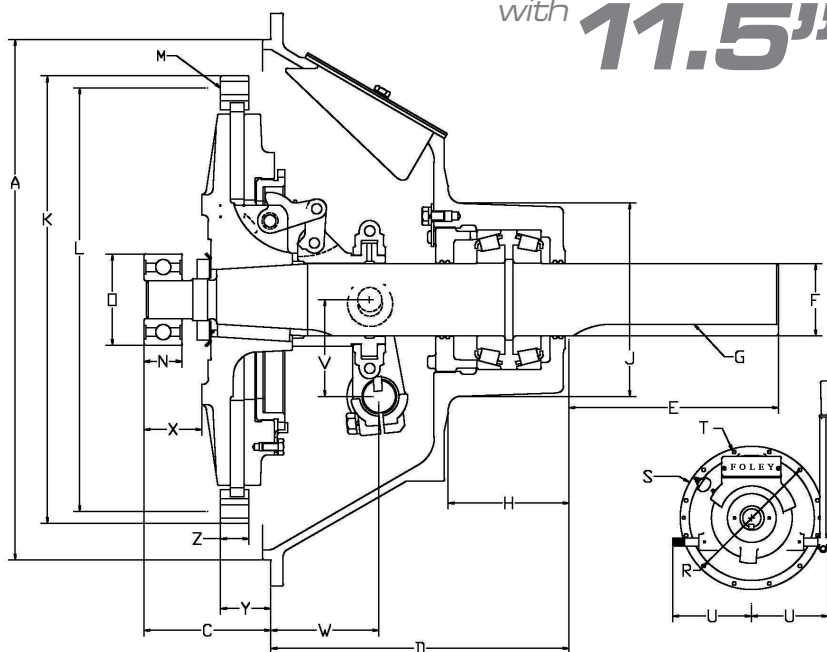
Fax:
+1 (508) 831-7133

Email:
info@foleyengines.com

<https://www.foleyengines.com>

Manufacturers names, symbols and numbers are for reference purposes only and do not imply manufacturing origin.

with **11.5"** ^{HE} Clutches



PTO Part Number	Ball or Tapered Roller Brng Type	Model			Application (in-line or side loaded)	Type of Facing	Type Release Bearing	Clutch Torque Capacity lb. Ft *	A	C	D	Shaft		
		SAE Hsg Size	Clutch Size	Qty. of Facings								E Length	F Dia. +.000-.001	G Keyway
434510FO	Tapered	3	11.5"	1	Both	Organic	Bronze	700	16.125	3.94	9.25	6.50	2.250	5/8 x 5/16
434510FO1	Tapered	3	11.5"	1	Both	Organic	Bronze	700	16.125	4.05	9.25	6.50	2.250	5/8 x 5/16
434200FO	Tapered	3	11.5"	1	Both	Organic	Ball	700	16.125	3.94	9.25	6.50	2.250	5/8 x 5/16
434511FO	Tapered	3	11.5"	1	Both	Feramic	Bronze	895	16.125	3.94	9.25	6.50	2.250	5/8 x 5/16
434845FO	Tapered	3	11.5"	2	Both	Organic	Bronze	1400	16.125	3.94	9.62	6.50	2.500	5/8 x 5/16
434220FO	Tapered	3	11.5"	2	Both	Organic	Ball	1400	16.125	3.94	9.62	6.50	2.500	5/8 x 5/16
434846FO	Tapered	3	11.5"	2	Both	Feramic	Bronze	1790	16.125	3.94	9.62	6.50	2.500	5/8 x 5/16
434514FO	Tapered	2	11.5"	1	Both	Organic	Bronze	700	17.625	3.94	9.25	6.50	2.250	5/8 x 5/16
434515FO	Tapered	2	11.5"	1	Both	Feramic	Bronze	895	17.625	3.94	9.25	6.50	2.250	5/8 x 5/16
411127FO	Tapered	2	11.5"	2	Both	Organic	Bronze	1400	17.625	3.94	9.62	6.50	2.500	5/8 x 5/16
434210FO	Tapered	2	11.5"	2	Both	Organic	Ball	1400	17.625	3.94	9.62	6.50	2.500	5/8 x 5/16
417778FO	Tapered	2	11.5"	2	Both	Feramic	Bronze	1790	17.625	3.94	9.62	6.50	2.500	5/8 x 5/16
411054FO	Tapered	1	11.5"	1	Both	Organic	Bronze	700	20.125	4.05	9.25	6.50	2.250	5/8 x 5/16
434516FO	Tapered	1	11.5"	1	Both	Organic	Bronze	700	20.125	3.94	9.25	6.50	2.250	5/8 x 5/16
434517FO	Tapered	1	11.5"	1	Both	Feramic	Bronze	895	20.125	3.94	9.25	6.50	2.250	5/8 x 5/16
411088FO	Tapered	1	11.5"	2	Both	Organic	Bronze	1400	20.125	3.94	9.62	6.50	2.500	5/8 x 5/16
427489FO	Tapered	1	11.5"	2	Both	Feramic	Bronze	1790	20.125	3.94	9.62	6.50	2.500	5/8 x 5/16

PTO Part Number	H	J	K	L	M (holes)		N	O see note**	R	S	T (holes)		U	V	W	X	Y	Z
					Qty.	Dia.					Qty.	Dia.						
434510FO	3.75	6.00	13.875	13.125	8	.406	1.1875	2.8346	16.875	17.75	12	.433	9.75	3.00	3.35	1.81	1.56	.88
434510FO1	3.75	6.00	13.875	13.125	8	.406	N/S	N/S	16.875	17.75	12	.433	9.75	3.00	3.35	1.91	1.56	.88
434200FO	3.75	6.00	13.875	13.125	8	.406	1.1875	2.8346	16.875	17.75	12	.433	9.75	3.00	3.35	1.81	1.56	.88
434511FO	3.75	6.00	13.875	13.125	8	.406	1.1875	2.8346	16.875	17.75	12	.433	9.75	3.00	3.35	1.81	1.56	.88
434845FO	3.12	6.00	13.875	13.125	8	.406	1.1875	2.8346	16.875	17.75	12	.433	9.75	3.75	4.25	1.81	1.56	1.88
434220FO	3.12	6.00	13.875	13.125	8	.406	1.1875	2.8346	16.875	17.75	12	.433	9.75	3.75	4.25	1.81	1.56	1.88
434846FO	3.12	6.00	13.875	13.125	8	.406	1.1875	2.8346	16.875	17.75	12	.433	9.75	3.75	4.25	1.81	1.56	1.88
434514FO	3.75	6.00	13.875	13.125	8	.406	1.1875	2.8346	18.375	19.25	12	.433	9.75	3.00	3.25	1.81	1.56	.88
434515FO	3.75	6.00	13.875	13.125	8	.406	1.1875	2.8346	18.375	19.25	12	.433	9.75	3.00	3.25	1.81	1.56	.88
411127FO	3.12	6.00	13.875	13.125	8	.406	1.1875	2.8346	18.375	19.25	12	.433	9.75	3.75	4.25	1.81	1.56	1.88
434210FO	3.12	6.00	13.875	13.125	8	.406	1.1875	2.8346	18.375	19.25	12	.433	9.75	3.75	4.25	1.81	1.56	1.88
417778FO	3.12	6.00	13.875	13.125	8	.406	1.1875	2.8346	18.375	19.25	12	.433	9.75	3.75	4.25	1.81	1.56	1.88
411054FO	3.75	6.00	13.875	13.125	8	.406	N/S	N/S	20.875	21.75	12	.469	9.75	3.00	3.44	1.91	1.56	.88
434516FO	3.75	6.00	13.875	13.125	8	.406	1.1875	2.8346	20.875	21.75	12	.469	9.75	3.00	3.44	1.81	1.56	.88
434517FO	3.75	6.00	13.875	13.125	8	.406	1.1875	2.8346	20.875	21.75	12	.469	9.75	3.00	3.44	1.81	1.56	.88
411088FO	3.12	6.00	13.875	13.125	8	.406	1.1875	2.8346	20.875	21.75	12	.469	9.75	3.75	4.25	1.81	1.56	1.88
427489FO	3.12	6.00	13.875	13.125	8	.406	1.1875	2.8346	20.875	21.75	12	.469	9.75	3.75	4.25	1.81	1.56	1.88

Allowable Side Load Pulls:

The following formula can be used to calculate applied side load. Loads are calculated on proper tensioning of belts. If belts are tightened excessively, the resulting side load can exceed these limits

$$L = \frac{126000 \times \text{H.P.}}{N \times D} \times F \times A$$

L = Actual Applied Load (lbs.)

N = Shaft Speed (rev./min.)

D = Pitch Diameter of Sheaves, etc. (in.)

F = Load Factor (see below)

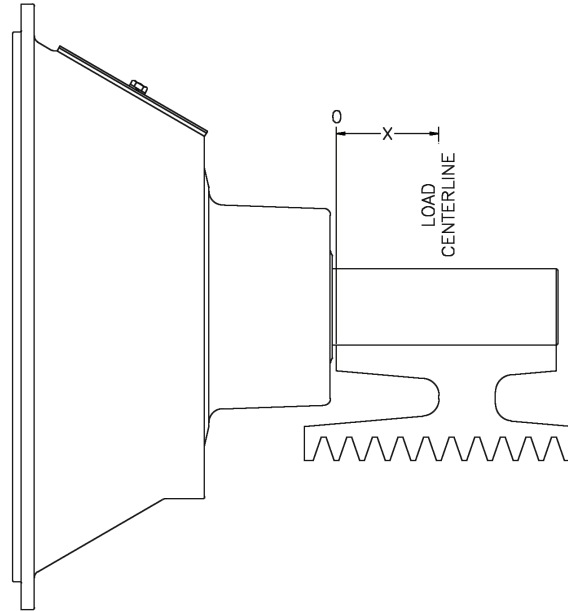
1.0 for chain

2.5 for V belt drive

3.5 for flat belt drive

A = 1.0 for low & moderate duty drives

1.4 for severe duty shock loads or large inertia loads (reciprocating compressors, crusher, chippers, planers, etc.)

**Required Clutch Torque Capacity Calculation:**

Required Clutch Torque = Maximum Engine Torque x Service Factor

Blower or Vacuum

- Centrifugal with free flow of air 1.7
- With high start-up inertia or subject to choking of air supply 4.0

Compressors

- Reciprocating, 1 or 2 cylinders 4.0
- Reciprocating, 3 or more cylinders 2.5
- Roto screw or turbine 2.0

Conveyor

- Fed uniformly 1.5
- Not fed uniformly 2.0
- Reciprocating 3.0

Drills 2.0

Generator 2.0

Pump

- Centrifugal or turbine 1.5
- Dredge 2.0
- Mud or reciprocating 3.0

Rock Crusher, Hammer 3.0

Mill Snow Blower 2.0

Wood Chipper, Saw Mill 3.0

Manufacturers names, symbols and numbers are for reference purposes only and do not imply manufacturing origin.

Power Take-Off Part Numbers

434510FO, 434511FO, 434514FO, 434515FO,
434516FO, 434517FO, 434200FO

RPM	X" Distance						
	0	1"	2"	3"	4"	5"	6"
2000	4860	4510	3890	3090	2570	2190	1910
2200	4730	4380	3770	3000	2490	2120	1850
2400	4610	4270	3660	2910	2410	2060	1800
2600	4500	4170	3560	2830	2350	2010	1750
2800	4400	4070	3480	2760	2290	1960	1710

Power Take-Off Part Numbers

411127FO, 411088FO, 417778FO, 427489FO,
434845FO, 434846FO, 434210FO, 434220FO

RPM	X" Distance						
	0	1"	2"	3"	4"	5"	6"
2000	6820	5280	3940	3140	2610	2230	1950
2200	6630	5110	3810	3040	2530	2160	1890
2400	6460	4970	3710	2950	2460	2100	1840
2600	6300	4840	3610	2880	2390	2050	1790
2800	6170	4720	3520	2810	2330	2000	1740