

# Twin Disc - AP Style

Standard Power Take-Offs

with **11.5"** <sup>SP</sup> Clutches

Foley Engines

Shipping Address:  
200 Summer Street

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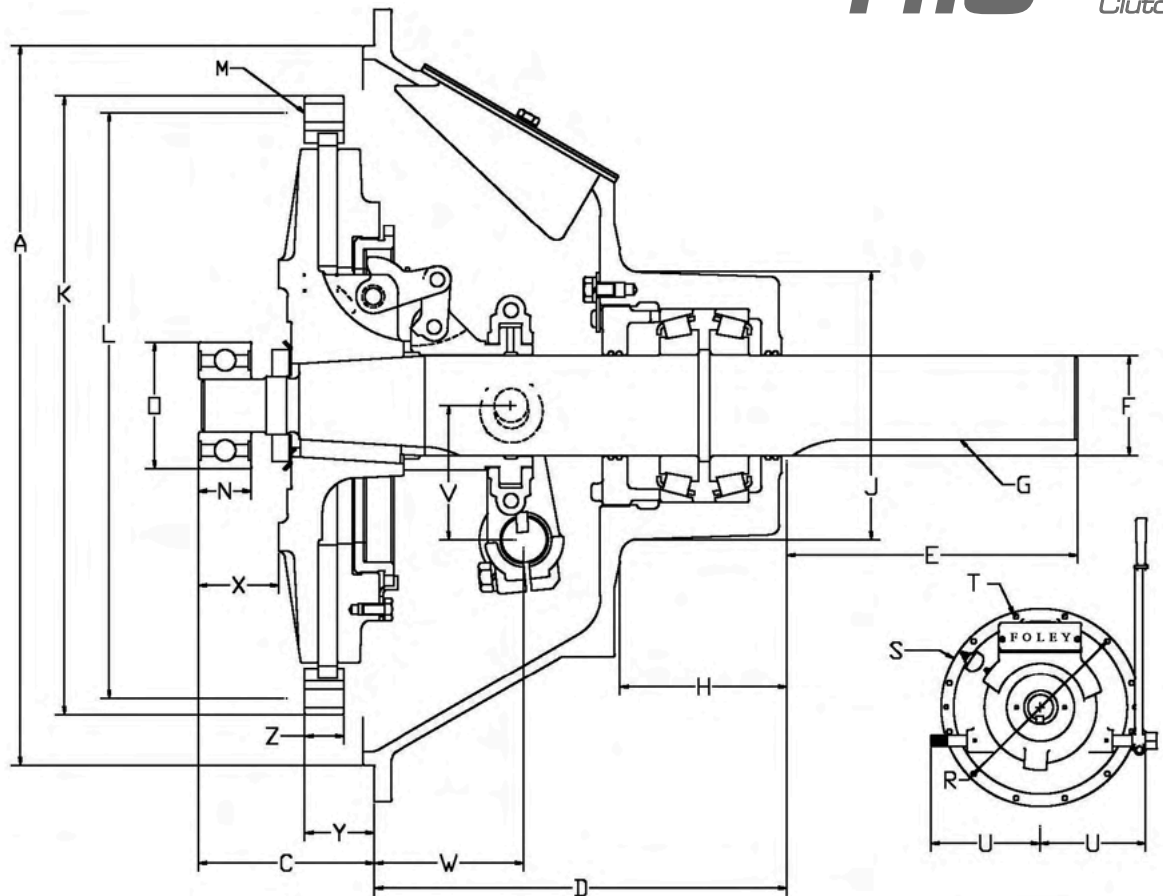
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Manufacturers names, symbols and numbers are for reference purposes only and do not imply manufacturing origin.



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
434100FO	Tapered	3	11.5"	1	Both	Feramic	Ball	895	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
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
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

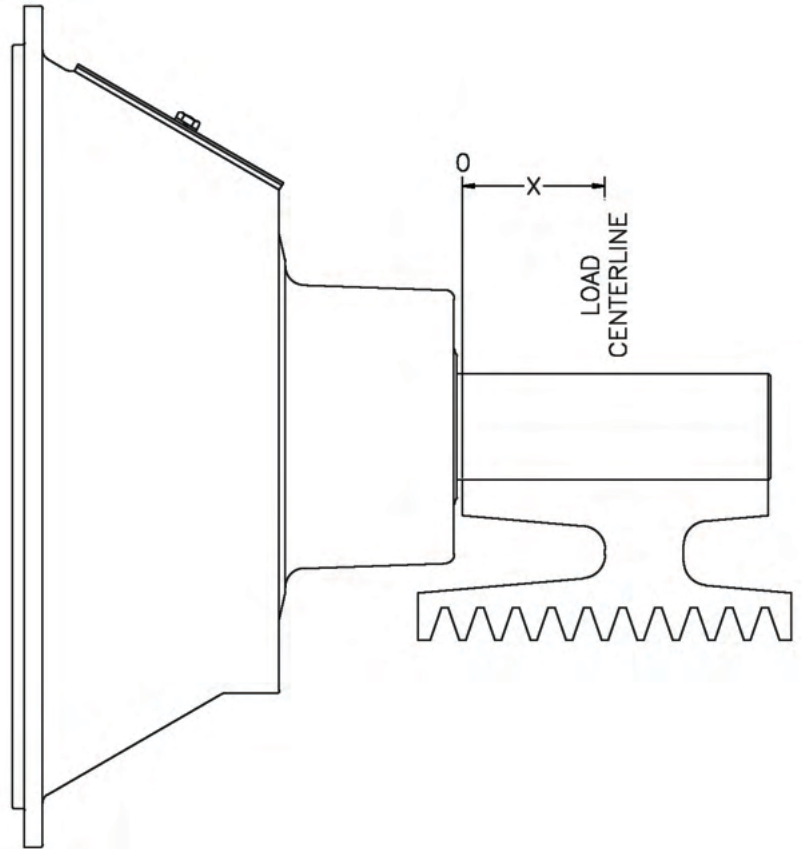
PTO Part Number	H	J	K	L	M (holes)		N	O see note**	R	S	T (holes)		U	V	W	X	Y	Z
					Qty.	Dia.					Qty.	Dia.						
434510FO	3.75	6.00	13.875	13.125	8	.406	1.1875	2.8346	16.875	17.75	12	.433	9.75	3.00	3.35	1.81	1.56	.88
434510FO1	3.75	6.00	13.875	13.125	8	.406	N/S	N/S	16.875	17.75	12	.433	9.75	3.00	3.35	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
434100FO	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
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
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

**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

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

- 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

Power Take-Off Part Numbers 434100FO, 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

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