



Data Sheet

Form No.	Issue Date	Rev. Date
DS-3000	04/20/96	08/01/13

WATEROUS TML SERIES POWER TAKE-OFF

DESCRIPTION: Full torque, split shaft power take-off with counter-enginewise rotation. Output shaft location may be to the front, rear (single) or front and rear (double). Output shaft is located on the right hand side of the case as viewed from the rear.

SPECIFY A COMPLETE TML SERIES PTO AS FOLLOWS:

MODEL DESIGNATION

See Table 1 on page 3 - defines output shaft type and location

DIMENSIONAL ASSEMBLY NUMBER

80354

RATIO

0.71, 0.88, 1.04, 1.29, 1.59 available (See Table 3 on page 3 for horsepower ratings.)

DRIVELINE

Standard - 1-3/4 in. heavy duty, 1-3/4-10 SAE spline, 4100 Ft-Lb torque rating

Optional - 2 in. extra heavy duty, 2-10 SAE spline, 6100 Ft-Lb torque rating

or

2-38T involute spline, 9100 Ft-Lb torque rating

TACHOMETER/SPEEDOMETER CONNECTION

Mechanical Drive Design:

Standard - Without tachometer or speedometer

Optional - Tachometer only

Speedometer only (not available with 2 in. driveline)

Tachometer and speedometer (not available with 2 in. driveline)

PARKING BRAKE (OPTIONAL)

Bendix Duo-Duty, available as follows:

1-3/4-10 SAE Driveline - 9 x 3 linkage only
12 x 3 linkage only

2-10 SAE Driveline - 12 x 3 for 1700 series U-joints
12 x 3 linkage only

2-38T Involute Driveline - 12 x 3 for 1700 series U-joints
12 x 3 linkage only

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PARKING BRAKE (Continued)

Brake Specifications

12 x 3 Shaft size: 2 in.
 Drum diameter: 12 in.
 Drum width: 3 in.
 Lining area: 83 sq in.
 Static torque capacity: 7500 ft-lb

NOTE: Parking brake is not available on certain TML models, see driveline option availability table on page 3.

SHIFT ASSEMBLY

NOTE: Waterous has two methods of shifting TML series PTO's from disengaged to engaged as follows:

Manual

The shift arm position is changed manually through a series of linkages (Waterous does not supply linkage). Indicating lights are available to indicate completed shift.

Electric

An electric actuator changes the shift arm position by means of an in-cab mounted switch. Indicating lights are available to indicate completed shift. Manual override linkage may be attached to shift arm. Waterous does not supply linkage.

Specify shift assembly as follows:

Shift Type: Manual or electric

Indicating Lights

Manual With complete or without

Electric With complete or provision only (OEM to provide)

System Voltage: 12 volt only available

MISCELLANEOUS

Optional companion flanges, available as follows:

1500 series 4-bolt for 1-3/4-10 SAE driveline

1600 series 8-bolt for 1-3/4-10 SAE driveline

1700 series 8-bolt for 2-10 SAE driveline

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Table 1. TML Models

Type	Output Shaft		Model	Dimensional Drawing
	Rear (Location 1)	Front (Location 2)		
Single	1350 Series End Yoke	-	TML-1CA	DPL80354
	-	1350 Series End Yoke	TML-2CA	
Double	1350 Series End Yoke	1350 Series End Yoke	TML-1CA2CA	

Table 2. Driveline Options

Model	1-3/4 in. Driveline					2 in. Driveline						
	Tach-ometer	Speed-ometer	Electric Shift	Parking Brake		Tach-ometer	Speed-ometer	Electric Shift	Parking Brake			
				9 x 3	12 x 3				2-10 SAE		2-38T Involute	
									9 x 3	12 x 3	9 x 3	12 x 3
TML-1CA	*	*	*	N/A	N/A	*	N/A	*	N/A	N/A	N/A	N/A
TML-2CA	*	*	*	N/A	N/A	*	N/A	*	N/A	*	N/A	*
TML-1CA2CA	*	*	*	N/A	N/A	*	N/A	*	N/A	N/A	N/A	N/A

NOTES:

1. * Indicates an available combination.
2. N/A indicates not available or not workable.
3. Speedometer connection not available on 2 in. drivelines.

Table 3. Ratio Horsepower Ratings

RATIO	OUTPUT SHAFT SPEED (rpm)							
	200	500	1000	1500	2000	2500	3000	3500
0.71	45	80	140	150	150			
0.88	40	75	130	145	150	150		
1.04	35	70	120	135	145	150	150	
1.29	30	65	110	130	140	150	150	150
1.59	27	58	95	127	137	147	150	150

NOTE: For over-hung belt or chain drives, special construction may be necessary; consult Waterous Company.