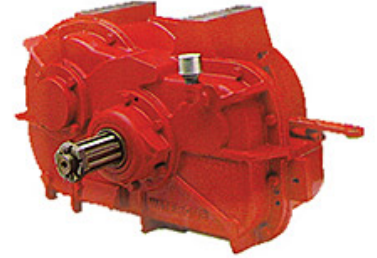




## SPECIFICATIONS – INDUSTRIAL: MODEL TMR

### Reliable Reverse Transmissions

The Waterous TMR transmission is a reverse transmission used for high-rail applications. Designed for installation in a vehicle between the main transmissions and rear axle to provide reverse vehicle motion with the main transmission in forward gears. In forward, power is transmitted directly through the TMR transmission to the rear axle with input and output shafts rotating in the same direction. When in reverse, power is transmitted through a chain drive to a countershaft and then through gearing to the output shaft. The output shaft rotates opposite the input. When the TMR transmission is operated in either mode it allows the vehicle's main transmission to be operated in any desired gear.



#### Specifications:

##### Case:

High-tensile gray iron

##### Driveline – Input Shaft:

###### Standard:

Input and output shafts are 1-3/4 SAE 10 spline, a four bolt series 1500 companion flange is supplied at input end of shaft.

Drive shafts are made of forged, hardened and ground alloy steel.

###### Optional:

- 2-10 SAE spline

##### Output Shaft:

###### Standard:

- 1-3/4 SAE spline

###### Optional:

- 1-3/4-10 SAE spline with 9" parking brake provision
- 2-10 SAE spline
- Output to front, rear or both
- Front output rotation - clockwise
- Rear output rotation - counterclockwise

##### Bearings:

Oil lubricated ball bearings throughout.

**Gears:** Constant mesh helical, alloy steel. All gears are crown shaved, carburized and hardened. The bores are precision ground.

##### Chain:

Morse H-V®

##### Lubrication:

A splash system within the case lubricates the bearings, chain and other moving parts. Use automatic transmission fluid. Approximate capacity is 5 quarts.

##### Shift Mechanism:

Constant mesh, two position sliding collar that engages all teeth simultaneously and is self-locking.

#### Optional Equipment:

##### Companion Flanges:

Description	Use On:
1500 Series Companion Flange (1-3/4-10 SAE Spline)	1-3/4-10 SAE Splined Output Shaft
1700 Series Companion Flange (2-10 SAE Spline)	2-10 SAE Spline Input and Output Shafts

##### Parking Brake:

**Bendix Duo-Duty, available as follows:**

##### 1-3/4-10 SAE Driveline

- 9 x 3 for 1500 series U-joints

#### Torque Ratings

- 1-3/4 in. heavy duty drivelines, - 4100 lb-ft., Reverse mode – 3300 lb-ft.
- 2 in. extra heavy duty driveline - 6100 lb-ft., Reverse mode – 3300 lb-ft.

#### Industry-Leading Sales and Support

When you purchase Waterous equipment, not only do you get quality products, you get quality service. Our expert service technicians are the best in the business and they are always happy to answer any service questions you might have.

##### Sales/Applications Assistance

Phone: 651-450-5234 (Press 3)  
pumpsales@waterousco.com

##### Service Assistance

Phone: 651-450-5200  
Fax: 800-488-1228  
service@waterousco.com