

# Spicer® Rui Ma™ TZL16 Hydrodynamic Transmission

150 to 180 kW (200 to 245 hp)



**SPICER®**  
*Off-Highway Systems*

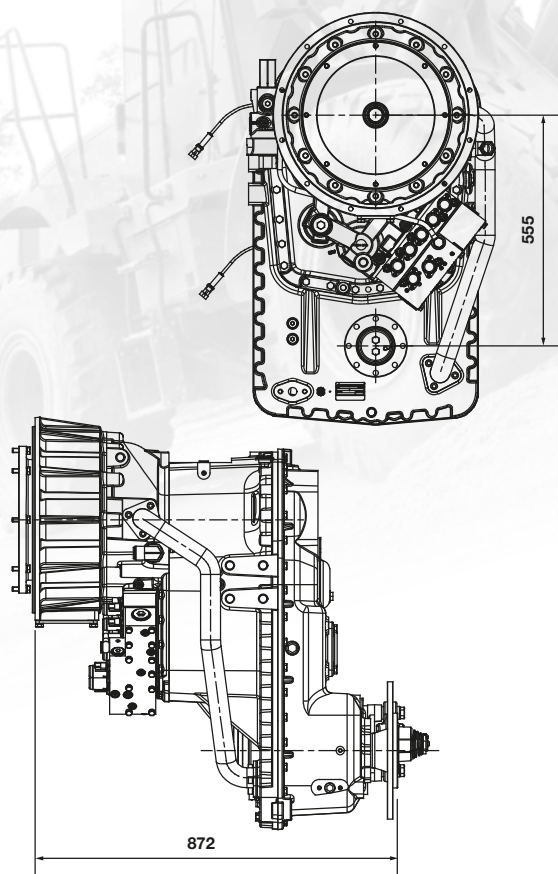


The Spicer® Rui Ma™ TZL16 hydrodynamic transmission is specifically engineered for wheel loaders in emerging market applications, providing improved fuel efficiency, productivity, durability, and reliability.

# Spicer® Rui Ma™ TZL16 Hydrodynamic Transmission

150 to 180 kW (200 to 245 hp)

The Spicer® Rui Ma™ TZL16 four-speed transmission platform uses proven internal components from the extensive line of Spicer® hydrodynamic transmissions already available for the off-highway market. High-energy-capacity forward and reverse clutches, adaptive clutch modulation, and helical gears deliver a robust transmission with improved shift quality.



General Rating	
Input Power kW (hp)	150 to 180 (200 to 245)
Input RPM Maximum	2600
Turbine Stall Nm (ft-lb)	1600 (1180)
Total Assembled Weight with SAE 2 Bell Housing Kg (lb)	620 (1365)

## FEATURES

- Helical gearing for noise reduction
- Internal plumbing eliminates risk of leaks and external damage
- High capacity clutches ensure longer life
- Adaptive modulation with autoshift allows operators of all levels to shift easily

Converter	
Housing	SAE No. 2 or SAE No. 3 (optional)
Wheel Size (T.R.)	340 mm
Mounting	HR – integral engine mount

Auxiliary Pump Drive	
Offset from Engine Centerline	Left: 123.6 mm Right: 121.5 mm
Torque Capacity (Nm)	400 each
Pad Type	2 SAE “C” pumps or SAE “B” (optional)
Pump Mounting	2- or 4-bolt

Flanges	
Spicer® Wing® Series	7C
DIN	150 or 180

Ratios 4x3 (Standard)				
2000 RPM	1 <sup>st</sup> Gear	2 <sup>nd</sup> Gear	3 <sup>rd</sup> Gear	4 <sup>th</sup> Gear
Forward	3.995	2.119	1.007	0.571
Reverse	3.995	2.119	1.007	–
2200 RPM	1 <sup>st</sup> Gear	2 <sup>nd</sup> Gear	3 <sup>rd</sup> Gear	4 <sup>th</sup> Gear
Forward	4.329	2.296	1.091	0.639
Reverse	4.329	2.296	1.091	–

Dimensions (mm) – Oil	
Length Bell Housing Mounting Face to Rear Flange Face	872
Width Maximum	594
Output Drop Vertical	555
Output Offset Horizontal	0
Oil Type	Dexron III
Integral Oil Filter	Vertical
Optional	Remote Filter, Dipstick, Parking Brake

Technical Data	
Maximum Input Stall Torque (Nm)	1600
Speeds	4 Forward and 3 Reverse

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## Application Policy

Capacity ratings, features, and specifications vary depending upon the model and type of service. Application approvals must be obtained from Dana; contact your representative for application approval. We reserve the right to change or modify our product specifications, configurations, or dimensions at any time without notice.