

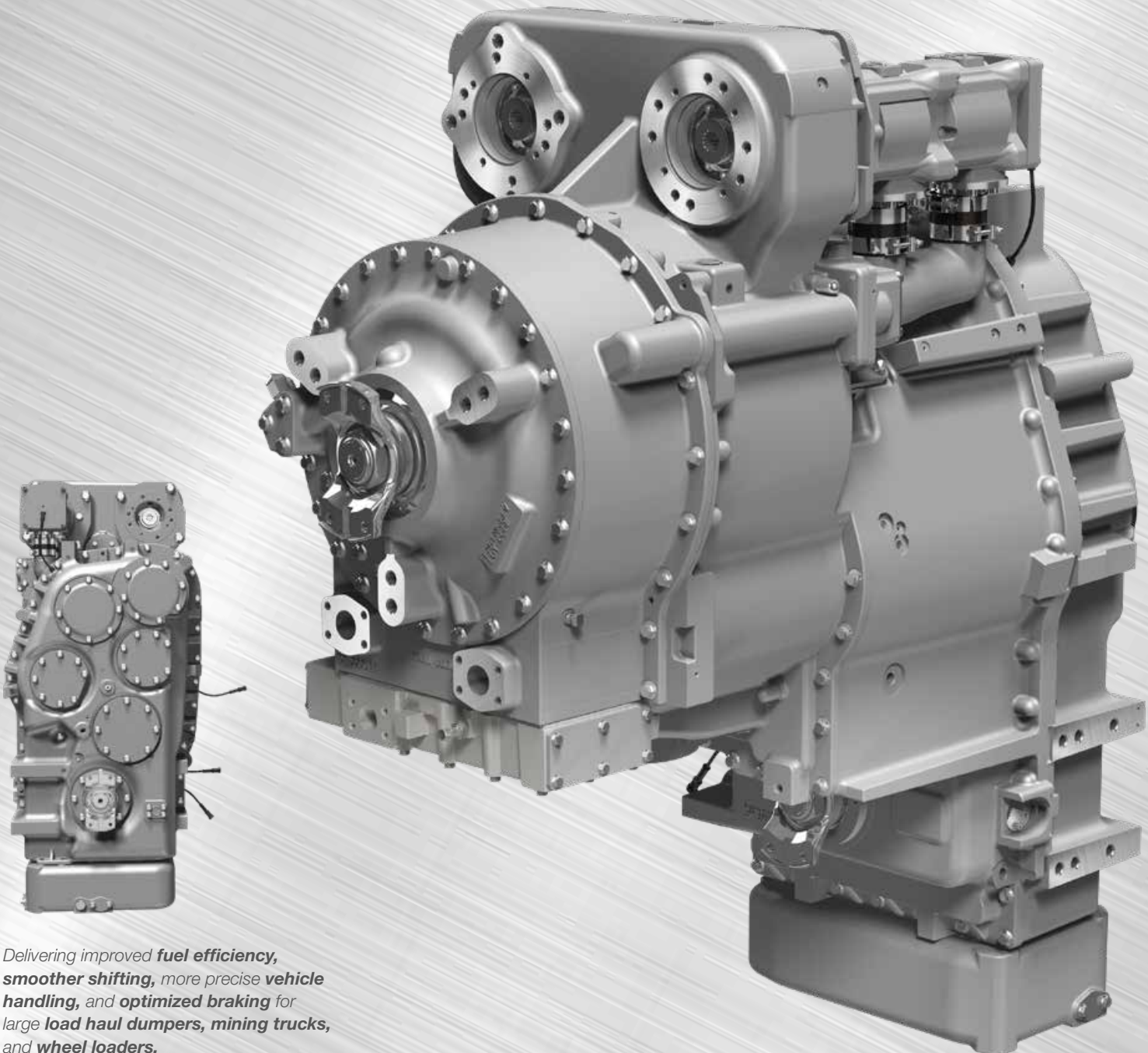


**SPICER®**

Drivetrain Systems

# Spicer® TE50 Hydrodynamic Transmission

400 to 600 kW (544 to 816 hp) for large LHDs, mining trucks, and wheel loaders



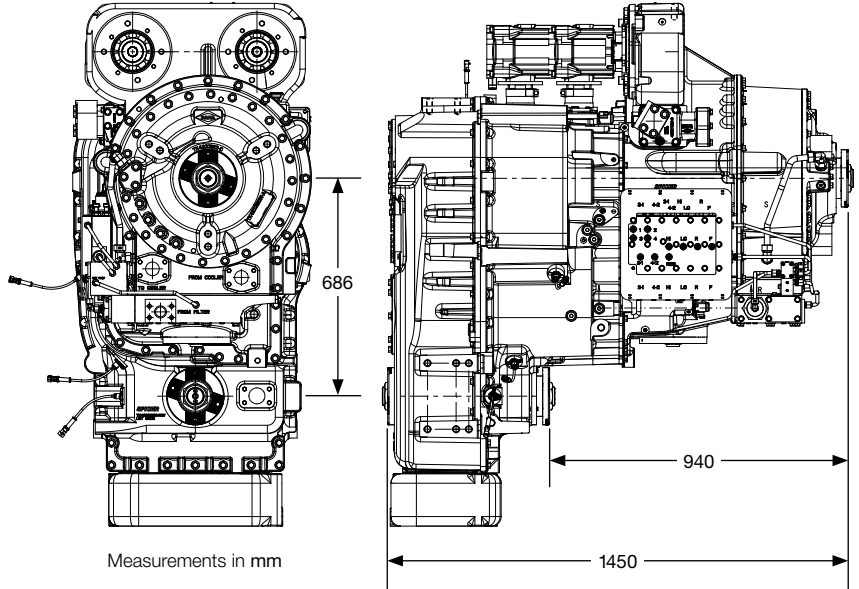
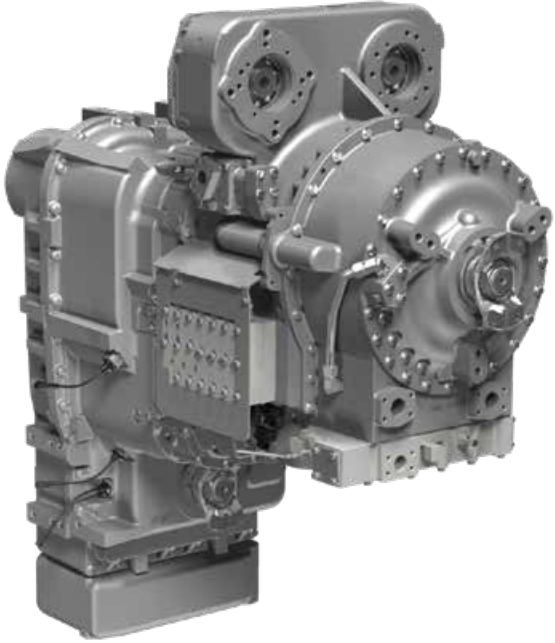
Delivering improved **fuel efficiency**,  
**smoother shifting**, more precise **vehicle  
handling**, and **optimized braking** for  
large **load haul dumpers**, **mining trucks**,  
and **wheel loaders**.

# Spicer® TE50

## Hydrodynamic Transmission

With Optional Integrated Retarder

Ideal for large load haul dumpers (LHDs), trucks used in underground mining, and wheel loaders, the Spicer® TE50 is engineered for vehicles from 400 to 600 kW (544 to 816 hp). It is engineered to fit within current vehicle design envelopes and is offered with a four- or eight-speed gearbox that provides optimized shifting ratios, and integrated retarder for maximum braking performance.



General Rating	
Input Power kW (hp) Truck/Railroad applications	600 (816)
Input Power kW (hp) Loader applications	425 (578)
Turbine Input RPM Maximum	2,400
Input Torque Maximum Nm (ft-lb)	5,000 (3,688)
Weight Without Oil, 4-speed Lock-up Kg (lb)	2,040 (4,497)
Weight Without Oil, 8-speed Retarder with Lock-up Kg (lb)	2,375 (5,236)

Aluminum High-Efficiency Converter	
Stall Torque Ratio Options	1.8, 2.3
Wheel Group Sizes	18", 19"

Auxiliary Pump Drive	
Mounting – Standard	Auxiliary pump drive 1: SAE C 2- and 4-bolt Auxiliary pump drive 2: SAE C 2- and 4-bolt Auxiliary pump drive 3: SAE C 2- and 4-bolt
Mounting – Optional	Adapter SAE B 2-bolt with sleeve
Mounting – Auxiliary Pump Drive Options	Auxiliary pump drive 2 and 3: SAE D 4-bolt with adaptor and sleeve

Flanges	
Input	9C, T-180
Output	9C, 10C (rear only), T-180

Ratios – Forward Ratios Are in Bold								
	1st Gear	2nd Gear	3rd Gear	4th Gear	5th Gear	6th Gear	7th Gear	8th Gear
425	<b>3.778</b>	<b>2.139</b>	<b>1.170</b>	<b>0.662</b>	—	—	—	—
	3.772	2.135	1.168	0.661	—	—	—	—
822	<b>4.122</b>	<b>3.112</b>	<b>2.403</b>	<b>1.871</b>	<b>1.525</b>	<b>1.152</b>	<b>0.889</b>	<b>0.692</b>
	4.076	3.078	2.377	1.850	1.508	1.139	0.879	0.684

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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.



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Drivetrain Systems