

Spicer® 24000 Series Powershift Transmission

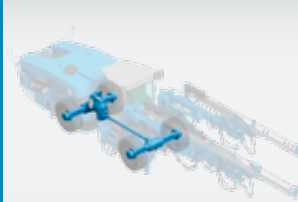
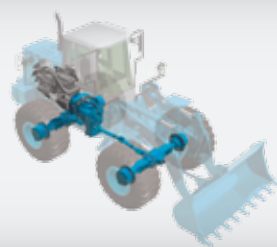
97 to 120 kW (130 to 160 HP)



SPICER®
Off-Highway Systems



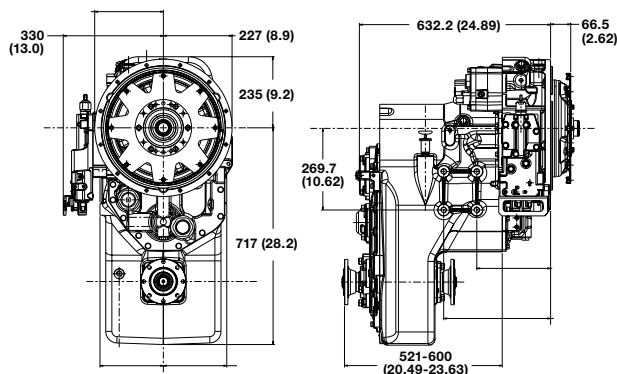
Strong design offers increased durability for heavy-duty and rough terrain applications in mining, construction, and industrial machinery.



Spicer® 24000 Series Powershift Transmission

97 to 120 kW (130 to 160 hp)

Available in a wide range of ratios, the rugged Spicer® 24000 Series powershift transmission is designed to handle heavy-duty applications, including lift trucks; rough terrain lift trucks; front end loaders; rough terrain cranes; and other mining, construction, and industrial machinery. The highly durable and efficient design is enhanced by an extensive range of flexible options, such as a mechanical control valve, engine and turbine speed sensors, front or rear disconnect and more.



General Rating

Input Power kW (hp)	97 to 120 (130 to 160)
Input Maximum (RPM)	3100
Turbine Stall Nm (ft-lb)	980 (720) Nm industrial / 1115 (820) Nm utility
Total Assembled Weight with SAE 3 Bell Housing Kg (lb)	3 speed 333 (735) 4 speed 384 (846)

Features and Benefits

- 3-, 4-, and 6-speed full powershift transmissions
- Long drops
- SAE "B" pump drive/adaptor for SAE "C"
- Available in wide range of ratios
- Engine driven auxiliary pump drives
- Helical gearing
- Electric control valve with Deutsch connector

Options

- Mechanical control valve
- Declutch: air or hydraulic
- FWD/REV modulation
- Emergency steering pump drive on 4- and 6-speed
- Engine and turbine speed sensors
- Front or rear disconnect
- Inching valve (mechanical or hydraulic)
- Parking brake (caliper/SAHR)
- Remote mechanical control valve (only 3-speed)
- Thru-drive charging pump

Converter

Housing	SAE No. 3
Stall Torque Ratio Options	1.93 to 3.01
Torque Converter Diameter mm (in)	300 (12)
Freewheel	Yes

Auxiliary Pump Drive

Pump Drive Ratio	1:1
Torque Capacity Nm (ft-lb)	340 (250)
Pad Type	SAE "B", adaptor for SAE "C"
Pump Mounting	2- or 4-bolt

Flanges

Spicer	1480/1550
Mechanics	4C/5C/6C
GWB	387/20 – 387/30

Ratios (Standard)

	1st Gear	2nd Gear	3rd Gear	4th Gear	5th Gear	6th Gear
3x3 (24321)	4.05	1.86	0.80	—	—	—
3x3 (24323)	4.15	2.11	0.70	—	—	—
3x3 (24324)	3.94	2.00	0.70	—	—	—
3x3 (24326)	4.83	2.11	0.70	—	—	—
3x3 (24327)	7.19	3.65	1.58	—	—	—
3x3 (24341)	6.53	3.65	1.58	—	—	—
4x4 (24420)	2.85	1.92	1.00	0.58	—	—
4x4 (24421)	3.43	1.92	1.00	0.58	—	—
4x4 (24423)	4.34	2.00	0.92	0.53	—	—
4x4 (24425)	5.49	2.53	1.09	0.76	—	—
4x4 (24426)	5.49	2.53	1.09	0.63	—	—
6x3 (24650)	5.49	(3.83)	2.53	(1.76)	1.09	(0.76)
6x3 (24651)	6.15	(4.29)	2.42	(1.69)	1.04	(0.73)
6x3 (24652)	5.78	(4.03)	2.53	(1.76)	1.09	(0.76)
6x3 (24653)	7.01	(4.89)	2.76	(1.93)	1.19	(0.83)
6x3 (24654)	7.03	(4.90)	3.57	(2.49)	1.19	(0.83)
6x3 (24655)	7.76	(5.41)	3.57	(2.49)	1.19	(0.83)
6x3 (24658)	9.07	(6.33)	3.57	(2.49)	1.19	(0.83)
6x3 (24659)	8.75	(5.09)	3.32	(1.93)	1.30	(0.76)

Dimensions – Oil Capacity

Output Drop Vertical mm (in)	508 (20)
Oil Capacity L (gal)/Type	22.7 (6)
Oil Filter	Integral spin-on

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SPICER®

Off-Highway Systems

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.