

THE CAT® TH43 TRANSMISSION

The Cat® TH43 transmission is designed for off-highway applications and is compatible with the Cat C18 and C27 engines.



NUMBER OF GEARS

# Gears (Forward/Reverse)	7F / 1R
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RATINGS

Rated Input Power	544 kW	729 hp
Rated Input Torque	2596 N•m	1,914 lb-ft
Rated Input Speed		2,000 rpm
Minimum Input Speed		650 rpm

ROTATION

Input Rotation	SAE J824 Standard
Output Rotation	Forward, opposite input. Reverse, same as input.

MOUNTINGS

Torque Converter Output and Transmission Input	SAE 9C Input Yoke
Transmission output	Differential Mount & SAE 10C Output Yoke

ELECTRICAL SYSTEM

Electrical System	24V
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TORQUE CONVERTER

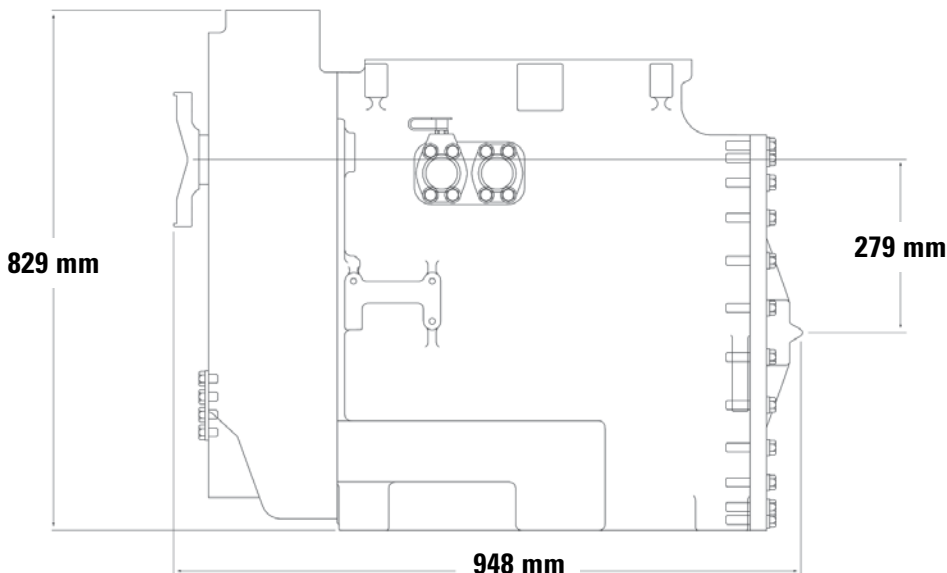
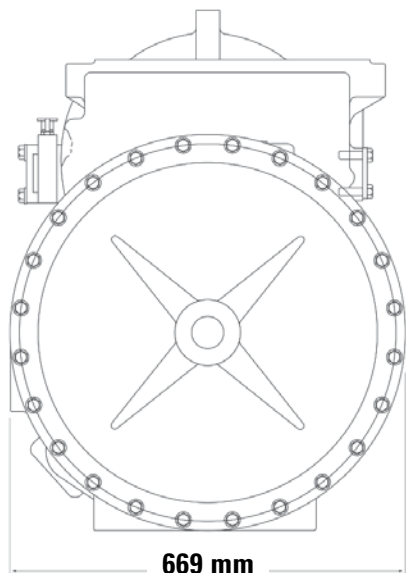
Series	TC45-ELF
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CLUTCHES

Electro-Hydraulic Oil Cooled, Multidisc	
Clutch Modulation Control	Individual Clutch Modulation

INSTALLATION CONNECTIONS

1 Pump, 2 Cooler Up/Dn Shift, Transmission Output Speed Sensor (TOS), Oil filter pressure, filter pressure switch, transmission upshift and downshift, retarder control solenoid, multiple oil temperatures



OIL SYSTEM

Oil	Cat Transmission / Drivetrain SAE 30 Transmission Drivetrain Oil-4 (or Equivalent)
Max Oil Temperatures	90°C (195°F) Continuous 99°C (210°F) Operating
Hydraulic Fill Capacity	No Sump
Filter Type	25 Micron Paper Cartridge Remote Mounted

GEARS

Transmission Gearing Type	Helical, Straight Spur Planetary	
	Gear	Ratio
Forward	1F	4.77
	2F	3.41
	3F	2.52
	4F	1.88
	5F	1.39
	6F	1.03
	7F	0.76
Reverse	1R	3.63

WEIGHT

Approximate Dry Weight	1179 kg	2,600 lb
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For more information, contact your OEM Solutions Account Manager or email oem_solutions@cat.com

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