



# CX48-P2300 Transmission

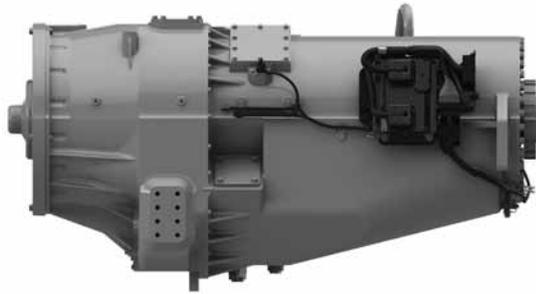


Image shown may not reflect actual transmission

## Petroleum

### SPECIFICATIONS

Gross Input Power — kW (hp) . . . . . 1715 (2300)  
 Gross Input Torque — N•m (lb-ft) . . . . . 9024 (6656)  
 Rated Input Speed — rpm . . . . . 1900  
 Maximum Input Speed — rpm . . . . . 2150  
 Weight, Dry (approx) — kg (lb)  
   Transmission . . . . . 1601 (3530)  
   Engine/Transmission Coupling . . . . . 156 (343)

#### Gears

Type . . . . . Straight Planetary Spur  
 Forward/Reverse . . . . . 8F/0R

#### Transmission Speed Ratios

Gear	Ratio
1st . . . . .	3.34
2nd . . . . .	2.45
3rd . . . . .	2.20
4th . . . . .	1.81
5th . . . . .	1.62
6th . . . . .	1.36
7th . . . . .	1.19
8th . . . . .	1.00

### FEATURES

- CX48-P2300 is the most advanced Cat® frac transmission and is designed specifically to meet the demands of this market.
- Lightest-weight transmission for frac application
- Improved durability to match engine life
- Simplified installation and maintenance includes:
  - Integral PTO
  - Integral filters with bypass indicator
  - Reduced external hoses
  - Rigid-mounted ECU with wire harness and remote mount capability
  - Low oil indicator
  - Oil pressure transducer

### BENEFITS

- Lightweight frame increases mobility
- Improved durability to meet industry needs
- Built upon TH55's advanced controls, providing industry-leading performance
- Designed with eight usable gears ideally suited for heavy-duty frac application
- Designed to simplify maintenance
- Unmatched product support offered through worldwide Cat dealer network
  - More than 2,200 dealer outlets
  - Cat factory-trained dealer technicians service every aspect of your petroleum engine-transmission package
  - Cat parts and labor warranty
  - Preventive maintenance agreements available for repair-before-failure options
- Web site — for all your petroleum power requirements, visit [www.catoilandgasinfo.com](http://www.catoilandgasinfo.com).



**ENGINES OPTIMIZED FOR POWERTRAIN**

Cat 3512B and 3512C, Cummins QSK45 and QSK50, MTU 12V4000

**Note:** See Petroleum Transmissions Approved Applications Guide REHS4553 for more information.

**TRANSMISSION ROTATION**

Input — counterclockwise  
Output — counterclockwise  
(as viewed from rear)

**TORQUE CONVERTER**

Series – TC58927-ESLF  
Stall torque ratio – 2.20

**CLUTCHES**

Clutches — electro-hydraulic, fully modulated, oil cooled, multidisc  
Clutch modulation control — Cat Electronic Clutch Pressure Control (ECPC)

**OIL SYSTEM**

Cat Transmission/Drive Train Oil-4 (TDTO) or equivalent  
Oil Temperatures  
Continuous — 90°C (195°F)  
Maximum Operating — 99°C (210°F)  
Hydraulic Fill Capacity — Approx. 108 L (28.5 gal), 125 L (33 gal) initial fill; subject to cooler size, lines, and installation  
Filter Type — 6 micron synthetic, cartridge remote mount

**INSTALLATION CONNECTIONS**

2 cooler  
1 electrical

**MOUNTINGS**

Structural application subject to Caterpillar approval  
Input connection (flywheel) — SAE #0  
Output connections (yoke) — GWB 390.60/  
GWB 390.65

**STANDARD EQUIPMENT**

Electronic Control Unit (ECU)  
Electronic data link, SAE J1939  
Electrical system 24V  
Integral torque converter

**POWER TAKE-OFF (Pump Auxiliary Drive)**

Drive — engine-driven PTO  
Location — 12 o'clock, 5 o'clock integral drive  
Maximum PTO Power — 150 hp @ 1900 rpm  
Mountings — SAE 8 bolt (J704)  
SAE C-size (J744)

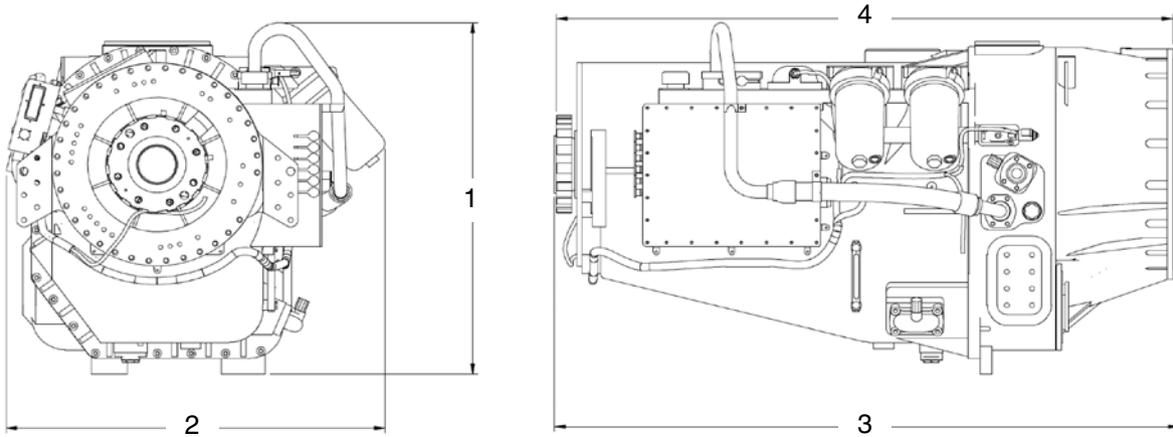
Rotation —  
Top PTO: Rotates at 1.088 x engine rpm and in the opposite direction of the transmission

Integral Drive: Rotates at 1.216 x engine rpm  
Due to the location of the mounting pad, pumps should be specified that turn opposite of the transmission input.

Pump drive subject to 20 hp @ 1900 rpm limitation until device is approved by Caterpillar.

	Top PTO (Optional)	Integral Drive (Basic)
<b>Location</b>	12 o'clock	5 o'clock as viewed from rear
<b>Mounting Type</b>	J704 SAE 8 bolt	J744 SAE C
<b>Rated Power</b>	150 hp @ 1900 rpm*	150 hp @ 1900 rpm*
<b>Rotation</b>	Drive gear opposite engine as viewed from rear; PTO pump same as engine as viewed from rear	Clockwise as installed on SAE C pad
<b>Ratio</b>	1.088:1	1.216:1

\*Pump drive subject to 20 hp @ 1900 rpm until PTO device is approved by Caterpillar.

**DIMENSIONS**


Transmission Dimensions	
Weight with coupling (approx.)	1757 kg (3873 lb)
(1) Overall Height	1049 mm (41.3 in)
(2) Overall Width	1128 mm (44.4 in)
(3) Overall Length	1893.2 mm (74.5 in)
(4) Length of Drive Train (D)*	1833.5 mm (72.2 in)

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