



Cat[®] Tiltrotators

*TRS10, TRS14,
TRS18, TRS23*

Cat[®] Tiltrotators help you get the job done faster with the quality you expect from Cat products. Integrated to your excavator, Tiltrotators are productive, easy-to-use, and add value to your operation. Tiltrotators are a versatile solution providing enhancements to your operation.

Configurations and features may vary by region. Please consult your Cat dealer for availability in your area.

Seamless Integration

- When used with wheeled excavators, tiltrotators connect to the machine's HP2 circuit leaving the HP1 circuit for an additional attachment ensuring smooth hydraulic flow to both.
- Display function integrates into the machine's monitor for wheeled excavators, tracked excavators retrofit kits comes with an additional monitor.
- Positioning system connects to Cat GRADE with 3D.

Up to 13 Percent More Productivity

- Controls allow for simultaneous tilt, rotation, and machine movement.
- Short height maintains consistent breakout force for digging.
- Hydraulic quick connect changes attachments in seconds.
- Do more work with less attachments and machines.

Easy Operation

- Machine joysticks include Tiltrotator controls, preventing delay between operator command and action.
- Oil-filled gear box keeps gears constantly lubricated, extending the life of the rotor.
- Lubrication System has one grease point, which can be attached to the machine's greasing.
- Innovative Control System has four unique operator settings.

Enhanced Versatility

- 40° left and right tilt, plus 360° rotation adds capability to fixed attachments.
- Use grapple module without removing bottom attachment.
- Mixed configurations enable use of multiple attachment interfaces.

Stay Safe

- Grapple module is faster and safer than people manually moving heavy objects.
- Operator stays in cab while switching attachments.
- Double acting tilt cylinders have built-in load holding valves in the event of pressure loss.
- Curl to Unlock technology verifies the operator has the coupler or tiltrotator curled in the correct position before it is allowed to unlock during the process of switching attachments. This helps keep your attachments secure while working.

Configuration Options

- Meet your usage and attachment interface needs with a variety of top and bottom configuration options for your tiltrotator depending on your preferred coupler system.
- Tiltrotators with a pin-on top are ideal when the tiltrotator is used regularly and compatible attachments are switched out on the bottom side.
- Options with a specific coupler interface on top are used with a standard coupler so the tiltrotator can be detached and larger or higher flow requirement attachments can be used with the standard coupler.
- Specific coupler interfaces may require attachments or brackets for attachments with that interface.
- The following are the current available interfaces for tiltrotators:
 - Pin-on
 - CW Dedicated
 - S Type
 - Hydraulic Connecting S Type



Cat® Tiltrotators

Specifications							
Model	Excavator Class tons	Rotation Speed seconds per 1 full rotation	Tilt Angle Range ± degrees left/right	Recommended Maximum Oil Flow		Working Pressure	
				l/min	gpm	MPa	psi
TRS10	11-16	7	40	91	24.0	25	3,626
TRS14	14-19	7	40	111	29.3	25	3,626
TRS18	18-24	7	40	121	32.0	25	3,626
TRS23	23-32	8	40	134	35.4	25	3,626

Weights and Dimensions dependent on Tiltrotator configuration. Configuration options vary by model. See Technical Specifications for more details.

For more complete information on Cat products, dealer services, and industry solutions, visit us on the web at www.cat.com

© 2021 Caterpillar
All rights reserved

Materials and specifications are subject to change without notice. Featured machines in photos may include additional equipment. See your Cat dealer for available options.

CAT, CATERPILLAR, LET'S DO THE WORK, their respective logos, "Caterpillar Corporate Yellow," the "Power Edge" and Cat "Modern Hex" trade dress as well as corporate and product identity used herein, are trademarks of Caterpillar and may not be used without permission.

GEHQ9281-03 (11-2021)
Replaces GEHQ9281-02
(EU, N Am, S Am)

