



OPERATING WEIGHT	22,9 t
ENGINE POWER	231 kW (314 PS)
BUCKET CAPACITIES	4.0-6,0 m ³
TIPPING LOAD, STRAIGHT	18,7 t
TIPPING LOAD, ARTICULATED	16,4 t



Wheeled Loader TL450

Technical data

Engine	
Manufacturer, model	Cummins, QSM 11
Type	6-cylinder in-line turbocharged diesel engine, COM III/EPA III
Combustion	4-stroke cycle, unit injector system, Intercooler
Displacement	10,800 cm ³
Net power rating at 2100 rpm (SAE J 1995)	231 kW (314 hp)
Net power rating at 2100 rpm (ISO 9249) ⁻¹	215 kW (292 hp)
Max. torque	1573 Nm at 1200 rpm
Cooling system	Water
Electrical system	
Nominal voltage	24 V
Lighting system in compliance with German and European standards.	
Power transmission	
Hydrodynamic power shift gear for optimal driving comfort through soft shifting transitions and automated shifting processes. Upshift lock for downhill driving, preselectable downshift function with "kick-down" switch. Single-stage torque converter.	
Speed ranges:	
"Forward", 4 gears	0-7/13/27/40 km/h
"Reverse", 3 gears	0-7/13/27 km/h
Axles	
Front: Rigid planetary final drive axle. Limited slip-type differential.	
Rear: Planetary final drive axle, oscillating suspension, limited slip-type differential.	
Oscillation	± 12°
Tires	
Standard	26.5-25 EM 60, 28 PR, L3
Optional tires upon request	
Brakes	
Service brake: Fully hydraulic 2-circuit brake system. Wet discs in both axles.	
Parking brake: Spring-loaded brake, acting on both axles via a brake disk on the transmission.	
Steering	
Articulated, 2 steering cylinders with final positioning damping on both sides, fully hydraulic through Load-Sensing priority valve, quick and easy steering even at engine idle-running speed. Electrical emergency steering pump.	
Total steering angle	80°
Fluid capacities	
Fuel tank	455 l
Hydraulic system (incl. tank)	370 l

Operating data, standard equipment

Operating weight (ISO 6016)	22,900 kg
Tipping load, straight, arms horizontal (ISO 14397-1), directly mounted / quick-attach system	18,700 kg
Tipping load, articulated, arms horizontal (ISO 14397-1), directly mounted / quick-attach system	16,400 kg
Overall length, bucket in transport position	8290 mm
Total width	3200 mm
Turning radius at outside bucket edge	7230 mm
Wheelbase	3530 mm
Ground clearance	420 mm
Rear overhang	2170 mm
Total height (top of cab)	3640 mm

Hydraulics

Max. pump capacity	350 l/min
Working pressure	350 bar

Control unit: Load sensing / LUDV hydraulics system Proportional hydraulic valve with 2 control circuits. Simultaneous, independent control of all movements. Hydraulic single lever control together with ZF Ergo shift transmission (multi-function handle) for 2 lifting cylinders and 2 tilt cylinders, with the following functions: "Forward", "Reverse", "Neutral", choice of 4 gears, automatic bucket return, "kick-down". Float position in control circuit "Lowering", electro-hydraulically operated. Ride control system as standard. Optional additional control circuit available.

Loader frame

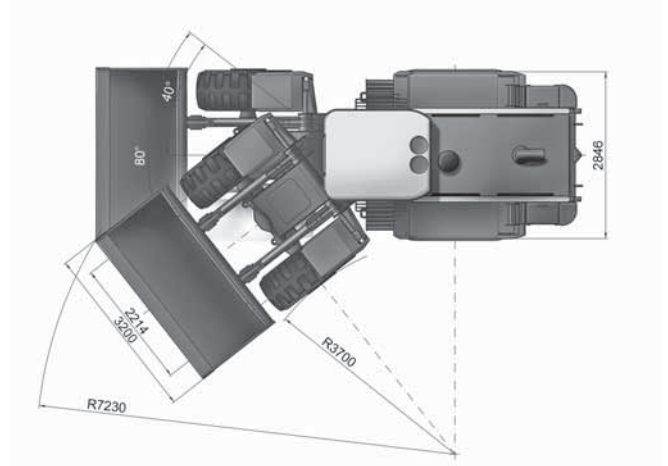
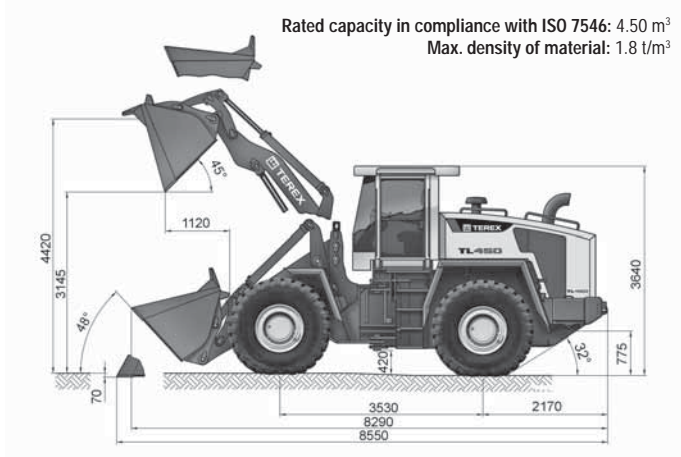
Loader frame with parallel kinematics, attachments directly mounted.	
General-purpose bucket (ISO 7546)	4,50 m ³
Lift capacity at ground level (ISO 14397-2)	306,000 N
Breakout force at bucket edge (ISO 14397-2)	228,000 N

Cab

Rubber-mounted full-vision steel cab, ROPS (acc. to ISO 3471) and FOPS (acc. to ISO 3449) certified. Can be mechanically tilted toward the right for maintenance activities.	
Cab featuring one door at the left, electric windshield with intermittent wipers and washer (front and rear), tinted panoramic safety glass, quarter window at right (emergency exit).	
Driver's seat with pneumatic cushioning, automatic weight adjustment, adjustable lumbar support and lap belt in compliance with ISO 7096 and ISO 6683.	
Automatic cab heating and air conditioner. Window defroster, front and rear.	
Height and tilt-adjustable steering wheel.	
Stereo radio with CD drive.	
4 front and 2 rear working floodlights.	
Sound level values in compliance with EC-directives.	

Wheeled Loader TL450

Dimensions: General-Purpose Bucket



Bucket versions

	Capacity	Density of material	Width
General-purpose bucket, directly mounted, teeth	4.50 m ³	1.8 t/m ³	3200 mm
General-purpose bucket, directly mounted, 3-part reversible bolt-on cutting edge	5.50 m ³	1.4 t/m ³	3200 mm
HD bucket, directly mounted, teeth	4.50 m ³	1.8 t/m ³	3200 mm
HD bucket, directly mounted, bolt-on cutting edge	4.50 m ³	1.8 t/m ³	3200 mm
General-purpose bucket, QAS, 3-part reversible bolt-on cutting edge	4.50 m ³	1.6 t/m ³	3200 mm
General-purpose bucket, QAS, 3-part reversible bolt-on cutting edge	4.20 m ³	1.8 t/m ³	3200 mm
General-purpose bucket, QAS, teeth	4.50 m ³	1.6 t/m ³	3200 mm
Quarry bucket, directly mounted, teeth	4.20 m ³	1.8 t/m ³	3200 mm
Light-material bucket, directly mounted, 3-part reversible bolt-on cutting edge	6.00 m ³	1.2 t/m ³	3200 mm
Examples of Material Densities			
Granite, Basalt, Sand (damp), Gravel (damp), Slate:	1.8 - 2.2 t/m ³	Top soil, clay, coal:	1.1 - 1.6 t/m ³
Sandstone, Gypsum, Soil (damp), Sand (dry), Gravel (dry):	1.5 - 1.8 t/m ³	Wood chips (dry), compost, coke:	0.2 - 1.0 t/m ³

Tire versions

Tires	Total width over tires in mm	Change of vertical dimensions	Applications
		in mm	
26.5 R 25 GP2B L2 Goodyear	2825	- 7	Sand
26.5 R 25 XHA L3 Michelin	2825	- 7	Gravel
26.5 R 25 RL-5K L5 Goodyear	2860	+ 15	Rock/Scrap/Waste
26.5 R 25 XLD D2 L5 Michelin	2840	+ 25	Rock/underground
26.5 R 25 RL2+ L3 Goodyear	2846	± 0	Gravel
TL-3A+ L3 Goodyear	2852	± 0	Gravel

Other buckets and special tires upon request.

Options / Auxiliary equipment

Cab
Parking heater
Reverse driving alarm
Video monitoring system with rear-mounted camera
Activated carbon filter
Pressurized cabin system
Diesel Engine
Diesel exhaust cleaner
Fuel preheater

Further options
Road certification (TÜV certificate / Germany)
Automatic central lubricating system
Fire extinguisher
"Highlift" design
3 rd hydraulic control circuit
Air filter pre-cleaner
Dynamic scales
Flat-proof tires
Tire protection chains
Filling with hydraulic oil, biologically decomposable
Custom painting



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