

Wheeled Loader

OPERATING WEIGHT	4900 kg
NET ENGINE POWER	44 kW (60 hp)
BUCKET CAPACITIES	0.8 - 1.2 m ³



WHEELED LOADER TL80

Operating Data, Standard Equipment

Operating weight (ISO 6016)	4900 kg
Tipping load, straight, arms horizontal (ISO 14397-1)	3500 kg
Tipping load, articulated, arms horizontal (ISO 14397-1)	3150 kg
Total length, bucket on ground	4955 mm
Total width	1850 mm
Turning radius at outside bucket edge	4135 mm
Wheelbase	2100 mm
Total height (top of cab)	2670 mm



Specifications

Engine

Manufacturer, model	Deutz, F4M 2011
Type	4-cylinder diesel engine, COM II/EPA II
Combustion	4-stroke cycle, direct fuel injection
Displacement	3100 cm ³
Net power rating at 2400 rpm (ISO 9249)	44 kW (60 hp)
Cooling system	external oil cooling

Electrical system

Nominal voltage	12 V
Lighting system in compliance with German and European standards.	

Power transmission

Hydrostatic drive, closed circuit, independent from loader hydraulics. Perfected driving automatics, automatic adjustment of drawbar pull and speed. Hydraulic motor power shift providing two speed ranges. Infinitely variable speed control forward and reverse. 4-wheel drive from reduction gear on rear axle via cardan shaft to front axle. Brake inching pedal.

2 speed ranges:

"Low"	0-7 km/h
"High"	0-20 km/h

4 speed ranges (high-speed version optional):

"Low"	0-7 / 0-18 km/h
"High"	0-14 / 0-36 km/h

Axles

Front: Rigid planetary final drive axle. Limited slip-type differential.

Rear: Oscillating (with cushioning) planetary final drive axle, with integrated reduction gear. Limited slip-type differential.

Oscillation	± 12°
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Tires

Standard	405/70 R 18 EM 01
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Brakes

Service brake: Hydraulically actuated center-mounted drum brake, acting on all 4 wheels via 4-wheel drive.

Auxiliary brake: Hydrostatic drive provides dynamic braking.

Parking brake: Mechanically operated drum brake at front axle.

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.

Total steering angle	80°
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Fluid Capacities

Fuel tank	75 l
Hydraulic system (incl. tank)	55 l

Hydraulic system

Max. pump capacity	64 l/min
Max. working pressure	250 bar

Control unit: Proportional hydraulic valve with 3 control circuits and high-speed control for tilting. Simultaneous, independent control of all movements. Single, four-way control lever (multi-function lever) for 1 tilt and 1 lift cylinders with integrated travel direction selector switch and switch for additional control circuit. Float position in control circuit "Lowering", electro-hydraulically operated. Additional control circuit including quick couplers and continuous operation function provided as standard.

Loader frame

Loader installation featuring true parallel linkage and integrated mechanical (optionally hydraulic) quick-attach system.

General-purpose bucket (ISO 7546)	0.80 m ³
Lift capacity at ground level (ISO 14397-2)	48,000 N
Breakout force at bucket edge (ISO 14397-2)	45,000 N

Fork Lift Attachment

Payload over the total lift and steering range	2000 (2200*) kg
Payload in transport position, approx. 300 mm above ground level, total steering range	2500* kg
Width of fork carrier	1240 mm
Length pallet forks (100x45 mm)	1120 mm
Stability factor	1,25
Payload determined on level ground = 80 % of tipping load, articulated	

Cab

Rubber-mounted full-vision steel cab, ROPS (acc. to ISO 3471) and FOPS** (acc. to ISO 3449) certified.

Cab featuring two doors, electric windshield intermittent wipers and washer (front and rear), tinted panoramic safety glass, sliding window on left-hand side.

Driver's seat with hydraulic cushioning and lap belt, weight-adjustable, in compliance with ISO 7096 and ISO 6683.

Cab heating with 3-speed heater fan (choice fresh air/recirculating air) and windshield defroster, front and rear.

Air conditioning and radio pre-installation.

Tilt adjustable steering wheel.

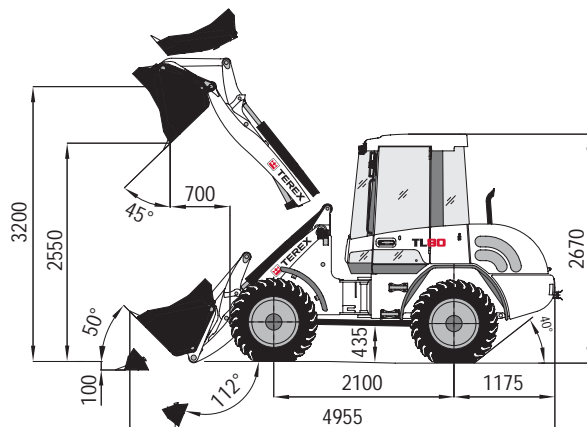
2 working floodlights, front.

Sound level values in compliance with EC-directives.

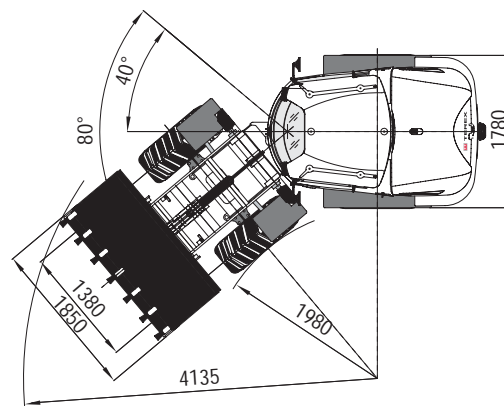
*With rear axle weights

**FOPS-approved only with skylight guard (optional)

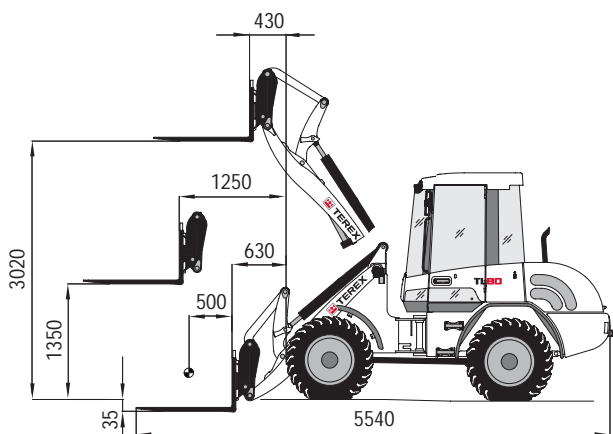
Dimensions: General-Purpose Bucket



Rated capacity in compliance with ISO 7546: 0.80 m³
Max. density of material: 1.8 t/m³

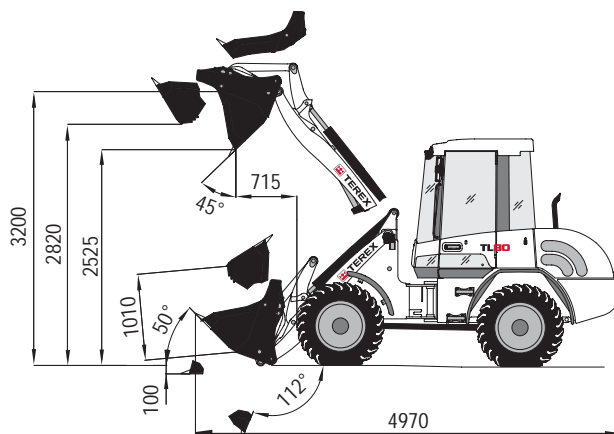


Fork Lift Attachment



Payload over total lift range: 2000 (2200*) kg
Payload in transport position: 2500* kg
*With rear axle weights

Multi-Purpose Bucket



Rated capacity in compliance with ISO 7546: 0.75 m³
Max. density of material: 1.6 t/m³

Bucket Type

	Capacity	Density	Width	Dump height
General-purpose bucket, QAS	0.80 m ³	1.8 t/m ³	1850 mm	2550 mm
General-purpose bucket, QAS, cutting edge	0.80 m ³	1.8 t/m ³	1850 mm	2510 mm
Earth bucket, QAS	0.90 m ³	1.6 t/m ³	1850 mm	2485 mm
Earth bucket, QAS, bolt-on cutting edge	0.90 m ³	1.6 t/m ³	1850 mm	2445 mm
Light-material bucket, QAS, bolt-on cutting edge	1.00 m ³	1.2 t/m ³	1850 mm	2435 mm
Light-material bucket, QAS, bolt-on cutting edge	1.20 m ³	0.8 t/m ³	1950 mm	2395 mm
Multi-purpose bucket, QAS	0.75 m ³	1.6 t/m ³	1850 mm	2525 mm
Side-dump bucket, (QAS), without teeth	0.70 m ³	1.8 t/m ³	1850 mm	2450 mm
High-tip bucket, (QAS), without teeth	0.70 m ³	1.2 t/m ³	1850 mm	3540 mm
Quarry bucket, QAS	0.70 m ³	1.8 t/m ³	1850 mm	2530 mm
Examples of Material Densities				
Granit, Sand (feucht), Kies (feucht):	1.8 t/m ³	Coal, Slate	1.2 t/m ³	
Earth (damp), Sand (dry), Gravel (dry):	1.6 t/m ³	Coke, Wood chips (dry)	0.8 t/m ³	

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Optional Attachments / Accessories

Tires	
335/80 R 20 XM 27 TL Michelin	
335/70 R 20 MPT 70 E Conti	
405/70 R 18 SPT 9 Dunlop	
Non-standard tires available on request	

Front Attachments	
General-purpose bucket*	0.80 m ³
Earth bucket*	0.90 m ³
Light-material bucket*	1.00 m ³
Light-material bucket*	1.20 m ³
Side-dump bucket*	0.70 m ³
High-tip bucket*	0.70 m ³
Multi-purpose bucket*	0.75 m ³
Quarry bucket	0.75 m ³
Fork lift attachment with forks	
Load hook integrated in quick-attach system	
Load hook integrated in quick-attach system	
Sweeper, snow blade	

Driver's Stand
Air-cushioned driver's comfort seat with orthopedic lumbar support and adjustable armrests and headrest

*optionally with bolt-on cutting edge

Diesel Engine
Diesel exhaust cleaner
Catalyst

Cab
FOPS-skylight guard
Right-hand door with sliding window
Working floodlight, rear
Yellow beacon
Pressurized cabin
Independent diesel heating with timer
Height- and tilt-adjustable steering wheel
Air conditioning

Further options	
High-speed version	36 km/h
Filling with biodegradable hydraulic oil, ester-based, BIO-E-HYD-HEES	
Electrical tank refilling pump	
Ride control system	
Outlet for hydraulic hand-held hammer	
Back-up alarm for reverse travel	
Special creep versions available on request	
Anti-theft device (immobilizer)	
Rear axle weights	
Quick couplers (flat face) for 3 rd control circuit on lift frame	
Pilot-controlled hose-rupture valves for lift and tilt cylinders	

Further attachments available on request



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