

WHEEL LOADER



Specifications

Operating weight	6800 kg
Engine power	62.5 kW (85 HP)
Bucket capacity	1.2-1.8 m ³
Tipping load, straight	4900 kg
Tipping load, articulated	4300 kg

Features

- ▶ Transverse-mounted turbocharged diesel engine, high performance, minimized fuel consumption, low emissions
- ▶ Hydrostatic travel drive, high traction power, infinitely variable speed control by driving automatics, optimum driving performance in all ground conditions, wear-free braking
- ▶ Powerful hydraulics, high lifting and ripping forces
- ▶ Excellent parallel kinematics for synchronized parallel operation of bucket and fork lift attachment over the entire lifting height
- ▶ Ease of operation, hydraulic pilot control, multi-function joystick for intuitive control
- ▶ Wide range of proven working tools
- ▶ Convincing serviceability, long maintenance intervals

WORKS FOR YOU.™

SPECIFICATIONS

ENGINE

Manufacturer, model	Perkins, 1104 D-44T
Type	4-cylinder turbocharged diesel engine, EC phase III A, COM (2008)
Combustion	4-stroke cycle, direct fuel injection
Displacement	4400 cm ³
Net power rating at 2200 rpm (ISO 9249)	62.5 kW (85 HP)
Cooling system	Water

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"	0-6 kph
"High"	0-20 kph

4 speed ranges (high-speed version optional):

"Low"	0-6 / 0-19 kph
"High"	0-11 / 0-36 kph

AXLES

Front: Rigid planetary final drive axle, center-mounted drum brake. Limited slip-type differential 45%.

Rear: Oscillating (with cushioning) planetary final drive axle, with integrated reduction gear. Limited slip-type differential 45%.

Angle of oscillation	±12°
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TIRES

Standard	405/70 R 20 SPT 9 Dunlop
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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 actuated center-mounted drum brake on 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	110 l
Hydraulic system (incl. tank)	93 l

OPERATING DATA, STANDARD EQUIPMENT

Operating weight (ISO 6016)	6800 kg
Tipping load, straight at full reach (ISO 14397-1)	4900 kg
Tipping load, articulated at full reach (ISO 14397-1)	4330 kg
Total length, bucket on ground	5635 mm
Total width	2100 mm
Turning radius at outside bucket edge	4640 mm
Wheelbase	2290 mm
Total height (top of cab)	2780 mm



HYDRAULIC SYSTEM

Pump capacity	76 l/min
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 tilt and lift cylinder 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)	1.20 m ³
Lift capacity at ground level (ISO 14397-2)	71,000 N
Breakout force at bucket edge (ISO 14397-2)	59,000 N

FORK LIFT ATTACHMENT

Operating load over the total lift and steering range	2700 (3000*) kg
Operating load in transport position, approx. 300 mm above ground level, total steering range	3500* kg
Width of fork carrier	1240 mm
Length pallet forks (140x50 mm)	1120 mm
Stability factor	1.25

Operating load determined on level ground = 80 % of tipping load, articulated

CAB

Rubber-mounted full-vision steel cab, ROPS (EN ISO 3471) and FOPS** (EN 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 MSG85 (standard version) 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.

Steering wheel with height and tilt adjustment.

2 working floodlights, front.

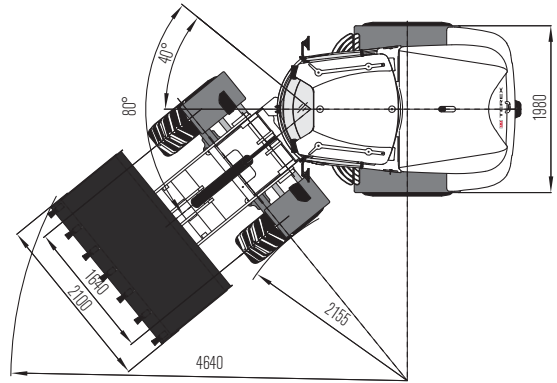
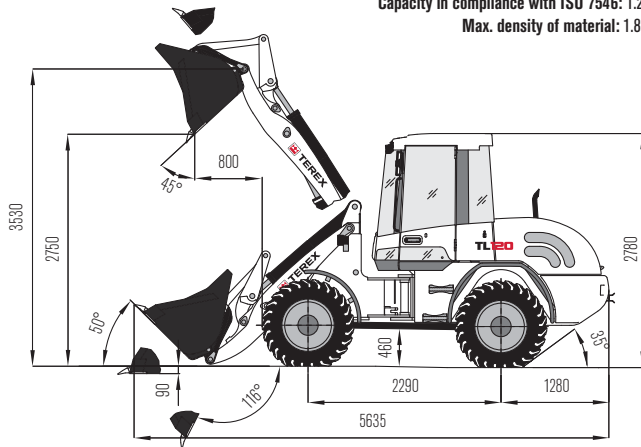
Sound level values in compliance with EC-directives.

*With rear axle weights

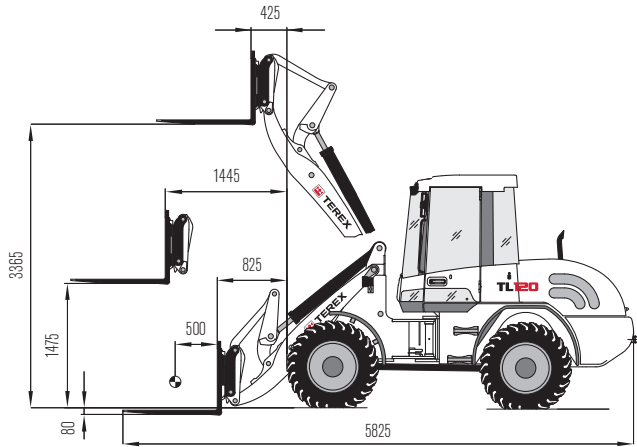
**FOPS-approved only with skylight guard (optional)

DIMENSIONS GENERAL-PURPOSE BUCKET

Capacity in compliance with ISO 7546: 1.20 m³
Max. density of material: 1.8 t/m³



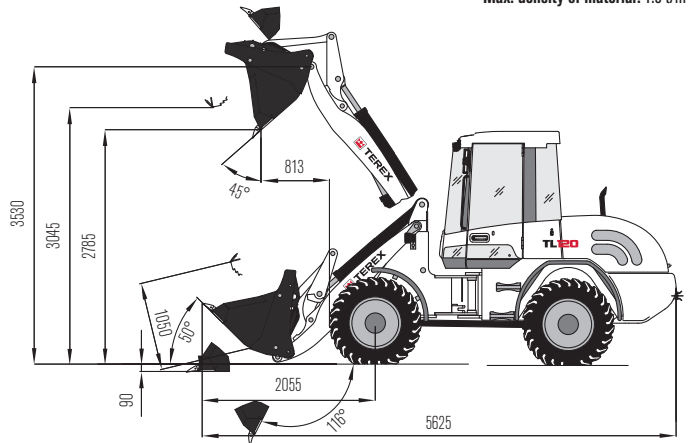
FORK LIFT ATTACHMENT



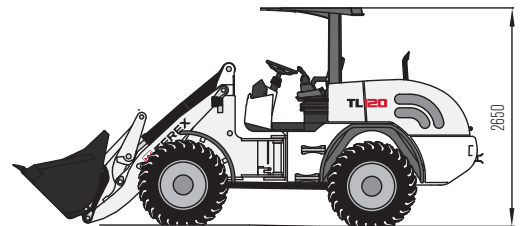
Operating load over total lift range: 2700 (3000*) kg
Operating load in transport position: 3500 kg
*With rear axle weights

MULTI-PURPOSE BUCKET

Capacity in compliance with ISO 7546: 1.05 m³
Max. density of material: 1.6 t/m³



CANOPY



BUCKET TYPE

	Capacity	Density	Width	Dump height
General-purpose bucket, quick-attach system (QAS), teeth	1.20 m ³	1.8 t/m ³	2100 mm	2750 mm
General-purpose bucket, QAS, bolt-on cutting edge	1.20 m ³	1.8 t/m ³	2100 mm	2710 mm
Earth bucket, QAS, teeth	1.35 m ³	1.6 t/m ³	2100 mm	2700 mm
Earth bucket, QAS, bolt-on cutting edge	1.35 m ³	1.6 t/m ³	2100 mm	2660 mm
Light-material bucket, bolt-on cutting edge	1.55 m ³	1.2 t/m ³	2100 mm	2610 mm
Light-material bucket, bolt-on cutting edge	1.80 m ³	0.8 t/m ³	2200 mm	2550 mm
Multi-purpose bucket, QAS	1.05 m ³	1.6 t/m ³	2100 mm	2785 mm
Side-dump bucket, QAS, without teeth	0.85 m ³	1.8 t/m ³	2100 mm	2665 mm
High-tip bucket, QAS, without teeth	1.20 m ³	1.2 t/m ³	2100 mm	3970 mm
High-tip bucket, QAS, without teeth	1.80 m ³	0.6 t/m ³	2200 mm	4030 mm
Quarry bucket, QAS	0.95 m ³	2.15 t/m ³	2100 mm	2780 mm
Compost bucket	1.20 m ³	1.2 t/m ³	2100 mm	2750 mm

EXAMPLES OF MATERIAL DENSITIES

Granite, basalt, sand (damp), gravel (damp), slate:	1.8 - 2.2 t/m ³	Topsoil, clay, mineral coal:	1.1 - 1.6 t/m ³
Sandstone, gypsum, limestone, 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

OPTIONAL EQUIPMENT

TIRES

405/70 R 20 EM 01 Mitas
400/70 R 20 IT530 Goodyear
380/75 R 20 XZSL Michelin
16/70-20 EM E 91-2 Dunlop
420/75 R 20 XMCL Michelin
405/70 R 20 MPT E-70 Conti
Non-standard tires available on request

FRONT ATTACHMENTS

General-purpose bucket*	1.20 m ³
Earth bucket*	1.35m ³
Light-material bucket*	1.55 m ³
Light-material bucket*	1.80 m ³
Side-dump bucket*	0.85 m ³
High-tip bucket*	1.20 m ³ / 1.80 m ³
Multi-purpose bucket*	1.05 m ³
Quarry bucket	0.95 m ³
Compost bucket	1.20 m ³
Front ripper with 4 prongs	
Fork lift attachment: Fork carrier, 1240 mm wide	
Forks, 1120 mm long, 140 mm wide, 50 mm high	
Load hook, attachable on fork arms	
Load hook integrated in quick-attach system	
Crane jib with rigid arm	
Crane jib, telescopic (mechanical)	
Sweeper, snow blade	

*optionally with bolt-on cutting edge

DRIVER'S STAND

Operator's seat MSG 85 (comfort version), hydraulic damping, extra-high backrest, weight-adjustable, lap belt

Air-cushioned operator's seat MSG 95 (premium version) with orthopedic lumbar support, extra-high backrest, adjustable armrests, headrest, seat and backrest heating

ENGINE

Diesel exhaust cleaner	Catalyst
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HYDRAULIC SYSTEM

Open return	4th control circuit, proportional
Hydraulic outlet for front hand-held hammer	4th control circuit, electrical
"High flow" hydraulics, 120 l/min, 175 bar	

CAB

FOPS-skylight guard	Pressurized cab
Right-hand door with sliding window	Independent diesel heating with timer
Working floodlight, rear	Air conditioning
Yellow beacon	

OTHER OPTIONAL EQUIPMENT

High-speed version 36 kph	Anti-theft device (immobilizer)
Filling with biodegradable hydraulic oil, ester-based, BIO-E-HYD-HEES	Special creep versions available on request
Electrical tank refilling pump	Rear axle weights
Pilot-controlled hose-rupture valves for lift and tilt cylinders	Quick couplers (flat face) for 3rd control circuit on lift frame
Back-up alarm for reverse travel	Ride control system
Central lubrication system	Battery disconnecter
Manual throttle, transmission deactivated	
Further optional equipment available on request	

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Ref. no.: TEREX571UK

Terex GmbH
Schaeffstr. 8, D-74595 Langenburg
Tel: +49 (0)7905 / 58-0 Fax: +49 (0)7905 / 58114
Email: info@terex-schaeff.com www.terex.com



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