

SWING LOADER



Specifications

Operating weight	5200 kg
Engine power	44 kW (60 HP)
Bucket capacity	0.7-1.0 m ³
Tipping load, straight	3600 kg
Tipping load, articulated	3230 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
- ▶ 180° working range of swing system (90° to the left and right respectively)
- ▶ Wide range of proven working tools
- ▶ Convincing serviceability, long maintenance intervals

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SPECIFICATIONS

ENGINE

Manufacturer, model	Deutz, D 2011 L04 W
Type	4-cylinder diesel engine, EC phase III A, EPA Interim Tier 4
Combustion	4-stroke cycle, direct fuel injection
Displacement	3620 cm ³
Net power rating at 2200 rpm (ISO 9249)	44 kW (60 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"	0-7 / 0-18 kph
"High"	0-14 / 0-36 kph

AXLES

Front: Rigid planetary final drive axle, center-mounted disc 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	±10°
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TIRES

Standard	12.5-20 MPT 10 PR
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BRAKES

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

Auxiliary brake: Hydrostatic drive provides dynamic braking.

Parking brake: Mechanically actuated center-mounted disc brake on front axle.

STEERING

Articulated, 1 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

OPERATING DATA, STANDARD EQUIPMENT

Operating weight (ISO 6016)	5200 kg
Tipping load, straight at full reach (ISO 14397-1)	3660 kg
Tipping load, articulated at full reach (ISO 14397-1)	3230 kg
Total length, bucket on ground	5090 mm
Total width	1850 mm
Turning radius at outside bucket edge	4150 mm
Wheelbase	2100 mm
Total height (top of cab)	2660 mm



HYDRAULIC SYSTEM

Pump capacity	64 l/min
Working pressure	250 bar
Gear pump for swing hydraulics:	
Max. pump capacity, swinging	max. 28 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 1 tilt and 2 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.

Swing system: Hydraulic valve with 1 control circuit. 2 double-acting swing cylinders operated by switch in multi-function handle. Integrated lift, lower and swing limitation mechanism preventing collision with tires.

LOADER FRAME

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

General-purpose bucket (ISO 7546)	0.70 m ³
Lift capacity at ground level (ISO 14397-2)	45,100 N
Breakout force at bucket edge (ISO 14397-2)	48,300 N
Swing range with hydraulically operated ball bearing, 90° to the left and right respectively.	

FORK LIFT ATTACHMENT

Operating load over the total lift and steering range	2000 (2200*) kg
Operating load 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)	1100 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 MSG 85 (basic) 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.

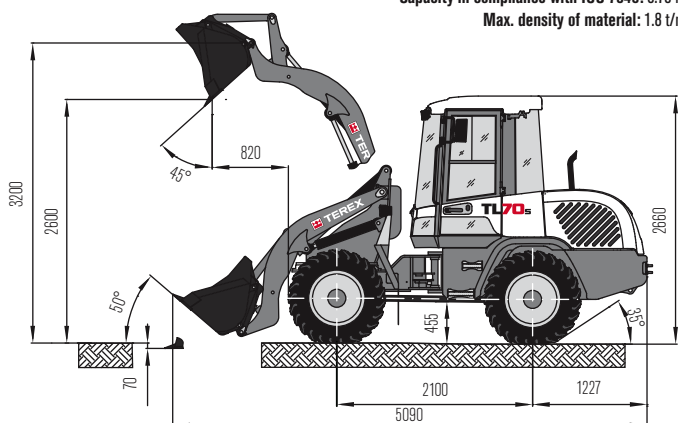
Sound level values in compliance with EC-directives.

*With rear axle weights

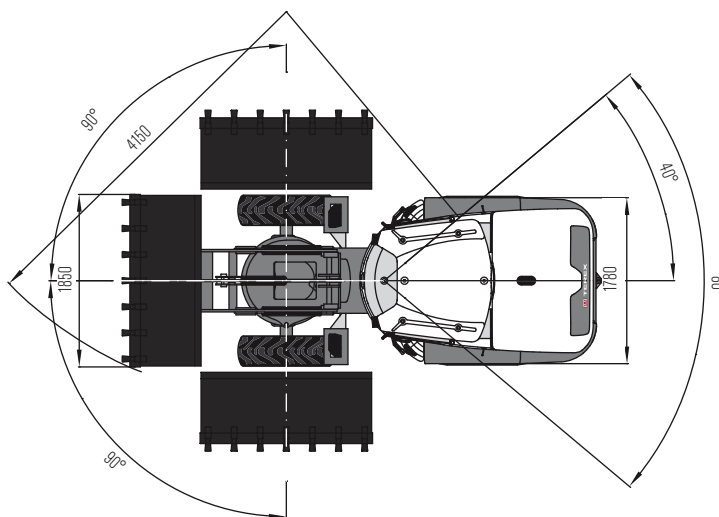
**FOPS-approved only with skylight guard (optional)

DIMENSIONS GENERAL-PURPOSE BUCKET

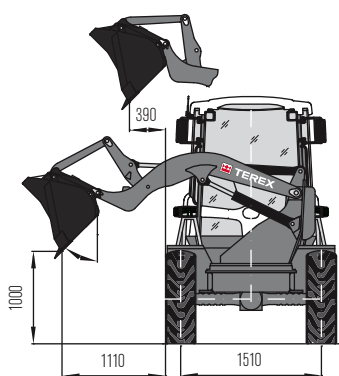
Capacity in compliance with ISO 7546: 0.70 m³
Max. density of material: 1.8 t/m³



FRONT VIEW

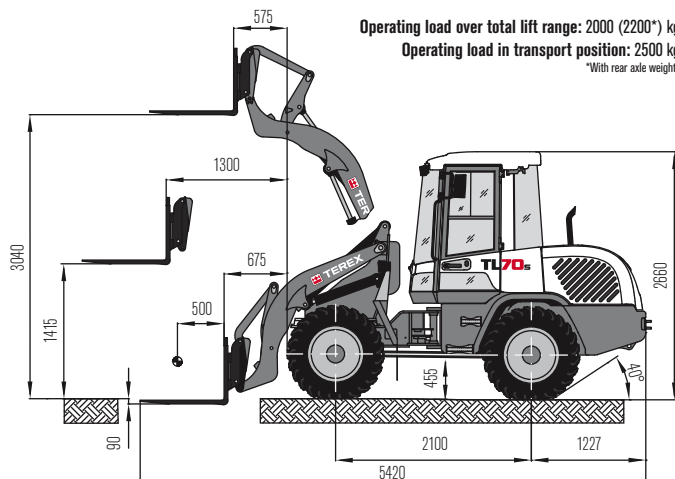


CANOPY



FORK LIFT ATTACHMENT

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

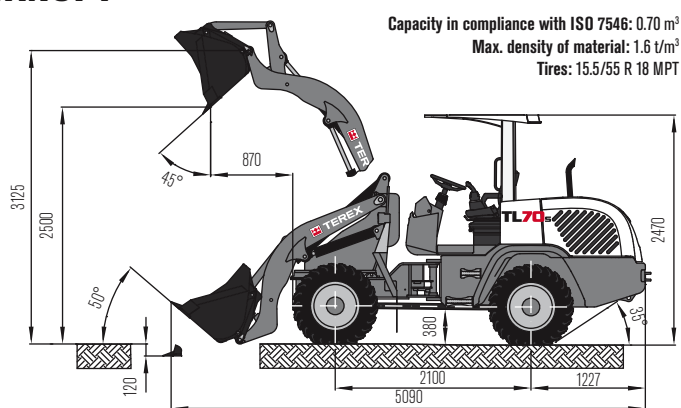


BUCKET TYPE

	Capacity	Density	Width	Dump height
General-purpose bucket, quick-attach system (QAS), teeth	0.70 m ³	1.8 t/m ³	1850 mm	2600 mm
General-purpose bucket, QAS, bolt-on cutting edge	0.70 m ³	1.8 t/m ³	1850 mm	2565 mm
Earth bucket, QAS, teeth	0.80 m ³	1.6 t/m ³	1850 mm	2540 mm
Earth bucket, QAS, bolt-on cutting edge	0.80 m ³	1.6 t/m ³	1850 mm	2500 mm
Light-material bucket, QAS, bolt-on cutting edge	1.00 m ³	0.8 t/m ³	1850 mm	2450 mm
Multi-purpose bucket, QAS, teeth	0.65 m ³	1.6 t/m ³	1850 mm	2540 mm
Multi-purpose bucket, QAS, bolt-on cutting edge	0.65 m ³	1.6 t/m ³	1850 mm	2485 mm
High-tip bucket, QAS, without teeth	0.65 m ³	1.2 t/m ³	1850 mm	3470 mm
Quarry bucket, QAS	0.55 m ³	1.8 t/m ³	1850 mm	2530 mm

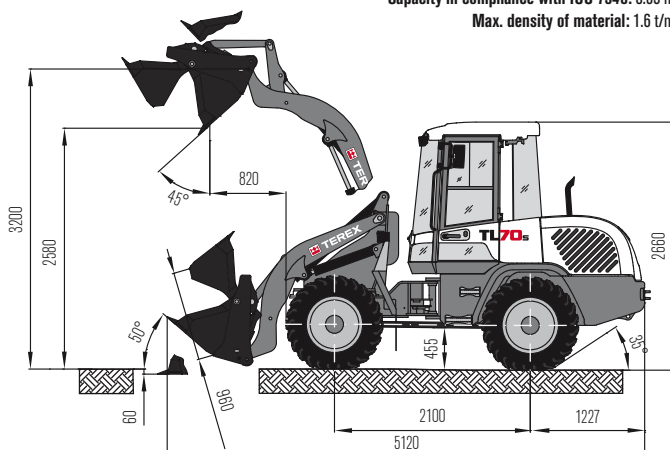
EXAMPLES OF MATERIAL DENSITIES

Granite, basalt, sand (damp), gravel (damp), slate:	1.8 - 2.2 t/m ³	Topsail, 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



MULTI-PURPOSE BUCKET

Capacity in compliance with ISO 7546: 0.65 m³
Max. density of material: 1.6 t/m³



Capacity in compliance with ISO 7546: 0.70 m³
Max. density of material: 1.6 t/m³
Tires: 15.5/55 R 18 MPT

OPTIONAL EQUIPMENT

TIRES

340/80 R 20 XMCL Michelin

335/80 R 20 SPT 9 Dunlop

Non-standard tires available on request

FRONT ATTACHMENTS

General-purpose bucket* 0.70 m³

Earth bucket* 0.80 m³

Light-material bucket* 0.80 / 1.00 m³

High-tip bucket 0.65 m³

Multi-purpose bucket* 0.65 m³

Quarry bucket 0.55 m³

Front ripper with 3 prongs

Fork lift attachment: Fork carrier, 1240 mm wide

Forks, 900 mm long, 100 mm wide, 40 mm high

Forks, 1100 mm long, 100 mm wide, 45 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 MSG85 (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

Fan guard

HYDRAULIC SYSTEM

Open return

4th control circuit, proportional

Hydraulic outlet for front hand-held hammer

4th control circuit, electrical

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.: TERE569EN

Terex Compact Germany GmbH

Kraftwerkstrasse 4

D-74564 Crailsheim

Tel: +49 (0)7951 / 9357-0

Fax : +49 (0)7951 / 9357-671

construction@terex.com

www.terex.com



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