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|---------------------------|------------------------|
| OPERATING WEIGHT | 5.2 t |
| ENGINE OUTPUT | 44 kW (60 hp) |
| BUCKET CAPACITIES | 0.7-1,0 m ³ |
| TIPPING LOAD, STRAIGHT | 3.66 t |
| TIPPING LOAD, ARTICULATED | 3.23 t |



Swing Loader TL70S

Technical data

| 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 | ± 10° |
| Tires | |
| Standard | 12.5-20 MPT 10 PR |
| Option | 340/80 R 20 XMCL Michelin |
| Option | 335/70 R 20 SPT 9 Dunlop |
| Non-standard tires available on request | |
| 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° |
| Fluid Capacities | |
| Fuel tank | 75 l |
| Hydraulic system (incl. tank) | 55 l |

Operating data, standard equipment

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| Operating weight (ISO 6016) | 5200 kg |
| Tipping load, straight, arms horizontal (ISO 14397-1) | 3660 kg |
| Tipping load, articulated, arms horizontal (ISO 14397-1) | 3230 kg |
| Total length, bucket on ground | 4960 mm |
| Total width | 1850 mm |
| Turning radius at outside bucket edge | 4150 mm |
| Wheelbase | 2100 mm |
| Total height (top of cab) | 2670 mm |

Hydraulic system

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| Max. pump capacity | 65 l/min |
| Max. working pressure | 250 bar |
| Gear pump for swing hydraulics: | |
| Max. pump capacity, swinging | 28 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 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.

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|--|---------------------|
| General-purpose bucket (ISO 7546) | 0.70 m ³ |
| Lift capacity at ground level (ISO 14397-2) | 44,600 N |
| Breakout force at bucket edge (ISO 14397-2) | 48,500 N |
| Swing range with hydraulically operated ball bearing, 90° either side. | |

Fork Lift Attachment

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|--|-----------------|
| 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.

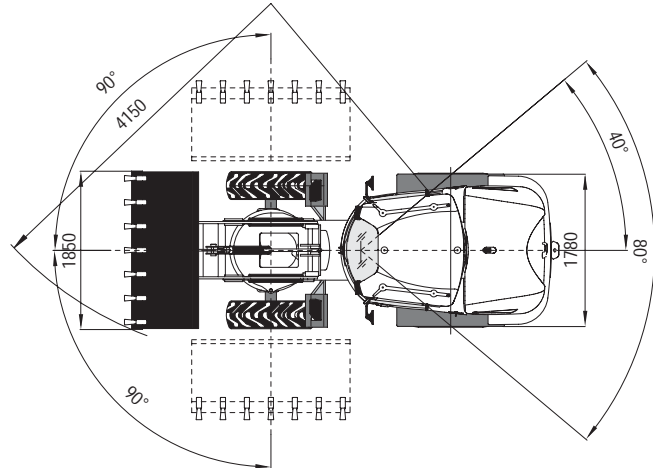
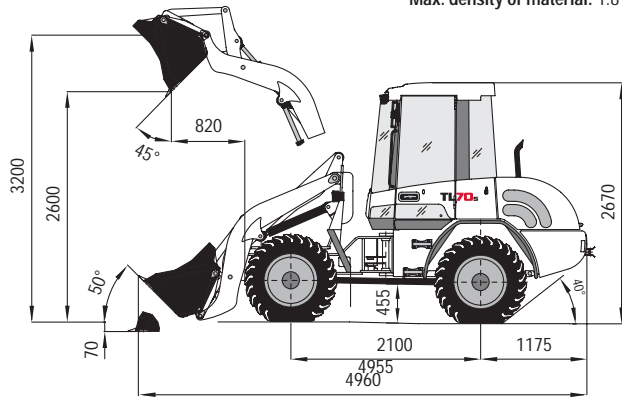
*With rear axle weights

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

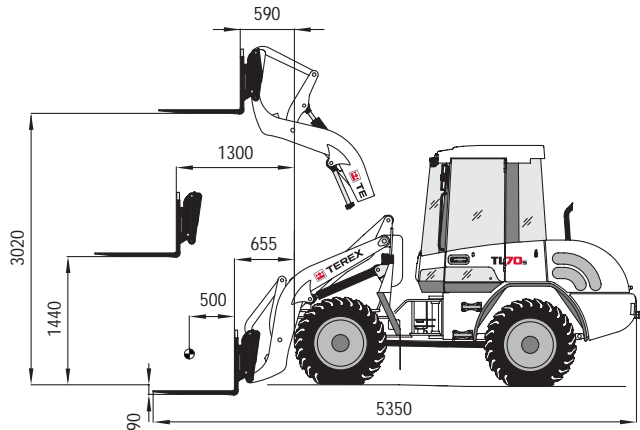
Swing Loader TL70S

Dimensions: General-Purpose Bucket

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



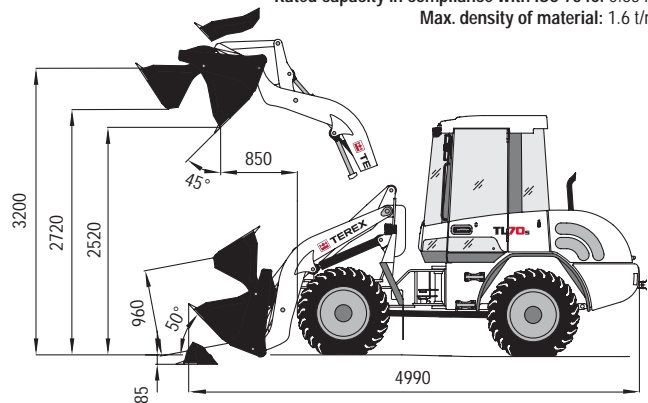
Fork Lift Attachment



Payload over total lift range: 2000 (2200*) kg
Nutzlast, Transportstellung: 2500* kg
*With rear axle weights

Multi-Purpose Bucket

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



Bucket Type

| | Capacity | Density | Width | Dump height |
|---|----------------------|-------------------------|---------|----------------------|
| General-purpose bucket, 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, Sand (damp), Gravel (damp): | 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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