



TL80

WHEEL LOADER



Specifications

Operating weight	11,465 (5,200 kg)
Engine power	59 HP (44 kW)
Bucket capacity	1.05-1.57 yd ³ (0.8-1.2 m ³)
Tipping load, straight	8,576 lbs (3,890 kg)
Tipping load, articulated	7,562 lbs (3,430 kg)
Operating load, articulated	3,781 lbs (1,715 kg)

Features

- ▶ Transverse-mounted 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 forklift 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

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SPECIFICATIONS

OPERATING DATA, STANDARD EQUIPMENT

Operating weight (SAE J 1197)	11,465 lbs (5,200 kg)
Tipping load, straight at full reach	8,576 lbs (3,890 kg)
Tipping load, articulated at full reach (ISO 14397-1)	7,562 lbs (3,430 kg)
Operating load, fully articulated	3,781 lbs (1,715 kg)
Total length, bucket on ground	16' 7" (5,060 mm)
Total width	6' 1" (1,850 mm)
Turning radius at outside bucket edge	13' 8" (4,160 mm)
Wheelbase	6' 11" (2,100 mm)
Total height (top of cab)	8' 8" (2,640 mm)

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	222 in ³ (3,620 cm ³)
Net power rating at 2200 rpm (SAE J 1349)	59 hp (44 kW)
Cooling system	Water

ELECTRICAL SYSTEM

Nominal voltage	12 V
Battery	12 V / 100 Ah / 850 A

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"	0-4 mph (0-7 kph)
"High"	0-13 mph (0-20 kph)

4 speed ranges (high-speed version optional):

"Low"	0-4 / 0-11 mph (0-7 / 0-18 kph)
"High"	0-9 / 0-22 mph (0-14 / 0-36 kph)

Drawbar pull	9,395 lbs (4,175 daN)
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AXLES

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

Rear: Oscillating (with cushioning) planetary final drive axle, with integrated reduction gear. Limited slip-type differential 45%. Axle weights, 661 lbs (300 kg), standard.

Angle of oscillation	±12°
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TIRES

Standard	405/70 R 18 SPT 9 Dunlop
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Optional tires available, see options section

BRAKES

Service brake:	Hydraulically actuated center-mounted disc brake, acting on all 4 wheels via 4-wheel drive
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Auxiliary brake:	Hydrostatic drive provides dynamic braking
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Parking brake:	Mechanically actuated center-mounted disc brake on front axle
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STEERING

Articulated, 1 steering cylinder 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	20 gal (75 l)
Hydraulic system (incl. tank)	15 gal (55 l)



HYDRAULIC SYSTEM

Max. pump capacity	17 gpm (64 l/min)
Max. working pressure	3,625 psi (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 (SAE J 742)	1.18 yd ³ (0.90 m ³)
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Lift capacity at ground level (SAE J 732)	10,800 lbs (48,000 N)
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Breakout force at bucket edge (SAE J 732)	10,318 lbs (45,900 N)
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FORK LIFT ATTACHMENT

Operating load (SAE J 1197) over the total lift and steering range	2,945 lbs (1,335* kg)
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Operating load in transport position, above ground level, total steering range	5,512 lbs (2,500* kg)
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Width of fork carrier	1240 mm
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Length fork tines 4" x 1.8" (100 mm x 45 mm)	1100 mm
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Stability factor	2
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Load center from fork attachment point	22" (560 mm)
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CAB

Rubber-mounted full-vision steel cab, ROPS (SAE J 1040) and FOPS** (SAE J 231) certified.

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

Operator's seat is weight adjustable and includes hydraulic cushioning and lap belt.

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.

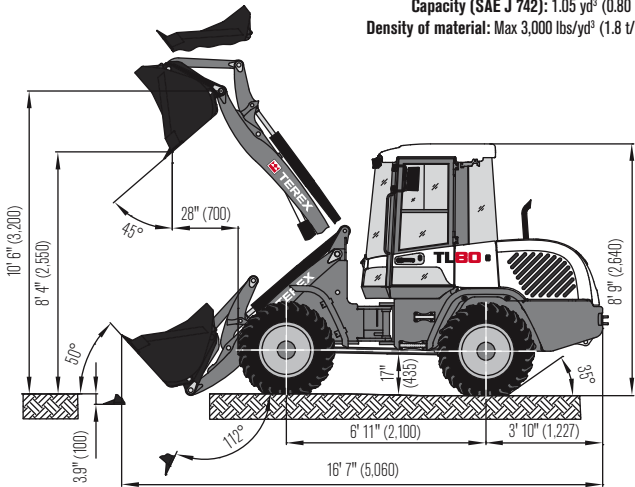
Sound level values in compliance with EC-directives.

*With rear axle weights

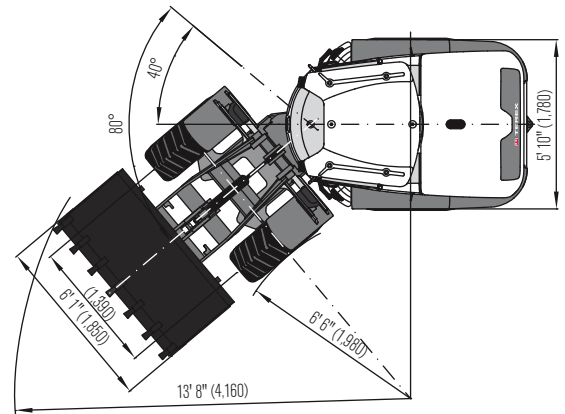
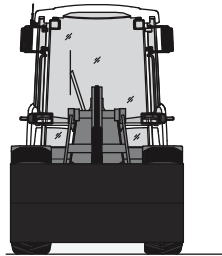
**FOPS-approved only with skylight guard (optional)

DIMENSIONS GENERAL-PURPOSE BUCKET

Capacity (SAE J 742): 1.05 yd³ (0.80 m³)
Density of material: Max 3,000 lbs/yd³ (1.8 t/m³)



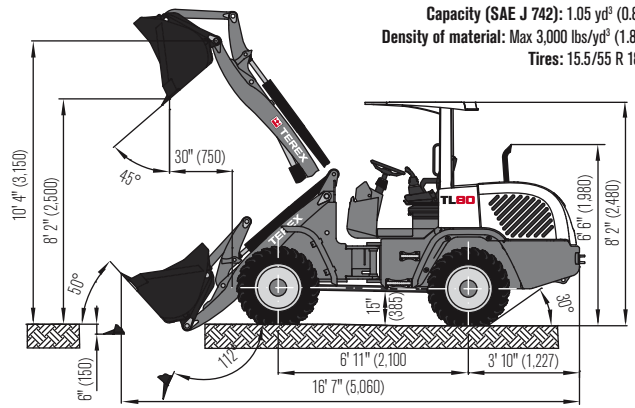
FRONT VIEW



TL80

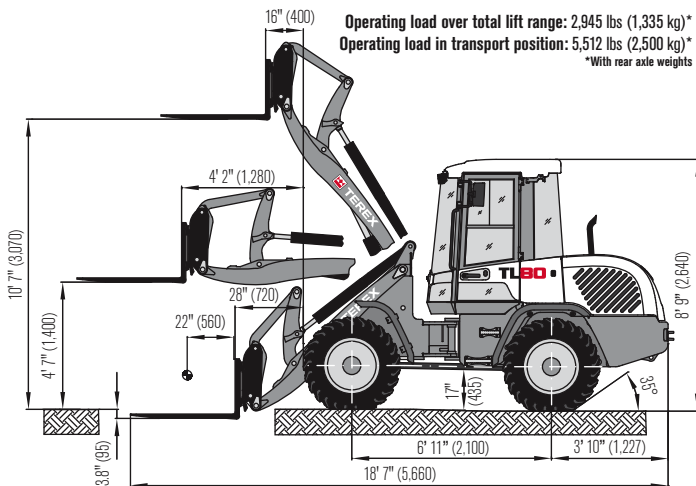
CANOPY

Capacity (SAE J 742): 1.05 yd³ (0.80 m³)
Density of material: Max 3,000 lbs/yd³ (1.8 t/m³)
Tires: 15.5/55 R 18 MPT



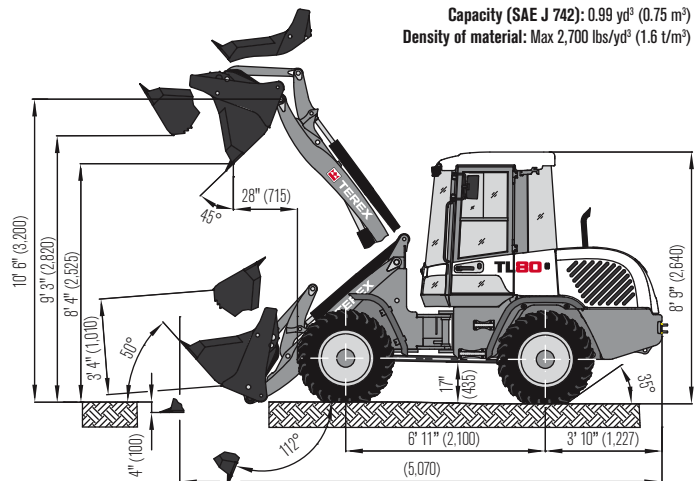
FORK LIFT ATTACHMENT

Operating load over total lift range: 2,945 lbs (1,335 kg)*
Operating load in transport position: 5,512 lbs (2,500 kg)*
*With rear axle weights



MULTI-PURPOSE BUCKET

Capacity (SAE J 742): 0.99 yd³ (0.75 m³)
Density of material: Max 2,700 lbs/yd³ (1.6 t/m³)



BUCKET TYPE

	Capacity	Density	Width	Dump height
General-purpose bucket, quick-attach system (QAS), teeth	1.05 yd ³ (0.80 m ³)	3,000 lbs/yd ³ (1.8 t/m ³)	6' 1" (1,850 mm)	8' 4" (2,550 mm)
General-purpose bucket, QAS, bolt-on cutting edge	1.05 yd ³ (0.80 m ³)	3,000 lbs/yd ³ (1.8 t/m ³)	6' 1" (1,850 mm)	8' 3" (2,510 mm)
Earth bucket, QAS, teeth	1.18 yd ³ (0.90 m ³)	2,700 lbs/yd ³ (1.6 t/m ³)	6' 1" (1,850 mm)	8' 2" (2,485 mm)
Earth bucket, QAS, bolt-on cutting edge	1.18 yd ³ (0.90 m ³)	2,700 lbs/yd ³ (1.6 t/m ³)	6' 1" (1,850 mm)	8' 0" (2,445 mm)
Light-material bucket, QAS, bolt-on cutting edge	1.31 yd ³ (1.00 m ³)	2,000 lbs/yd ³ (1.2 t/m ³)	6' 1" (1,850 mm)	7' 11" (2,435 mm)
Light-material bucket, QAS, bolt-on cutting edge	1.57 yd ³ (1.20 m ³)	1,333 lbs/yd ³ (0.8 t/m ³)	6' 5" (1,950 mm)	7' 10" (2,395 mm)
Multi-purpose bucket, QAS	.99 yd ³ (0.75 m ³)	2,700 lbs/yd ³ (1.6 t/m ³)	6' 1" (1,850 mm)	8' 3" (2,525 mm)
Side-dump bucket, QAS, without teeth	.92 yd ³ (0.70 m ³)	3,000 lbs/yd ³ (1.8 t/m ³)	6' 1" (1,850 mm)	8' 3" (2,450 mm)
High-tip bucket, QAS, without teeth	.92 yd ³ (0.70 m ³)	2,000 lbs/yd ³ (1.2 t/m ³)	6' 1" (1,850 mm)	11' 7" (3,540 mm)
Quarry bucket, QAS	.92 yd ³ (0.70 m ³)	3,000 lbs/yd ³ (1.8 t/m ³)	6' 1" (1,850 mm)	8' 4" (2,530 mm)

EXAMPLES OF MATERIAL DENSITIES

Earth (top soil):	2,550 lbs/yd ³ (1,512 kg/m ³)	Clay (dry), clay & gravel (wet), earth with sand & gravel:	3,100 lbs/yd ³ (1,839 kg/m ³)
Earth (dry):	2,650 lbs/yd ³ (1,572 kg/m ³)	Gravel (sandy), gravel (wet):	3,700 lbs/yd ³ (2,195 kg/m ³)
Earth (moist), clay with gravel (dry):	3,000 lbs/yd ³ (1,780 kg/m ³)	Clay (natural bed), clay (wet)	3,500 lbs/yd ³ (2,077 kg/m ³)
Earth (compacted), gravel (dry):	3,000 lbs/yd ³ (1,780 kg/m ³)		

OPTIONAL EQUIPMENT

TIRES

405/70 R 18 EM 01 Mitas
340/80 R 20 XMCL Michelin
335/80 R 20 MPT E-70 Conti
400/70 R 20 IT520 Goodyear
405/70 R 20 PG75RCL Dunlop
500/45-20 J331 Wide base tires
Non-standard tires available on request

FRONT ATTACHMENTS

General-purpose bucket*	1.05 yd ³ (0.80 m ³)
Earth bucket*	1.18 yd ³ (0.90 m ³)
Light-material bucket*	1.31 yd ³ (1.00 m ³)
Light-material bucket*	1.31 yd ³ (1.00 m ³)
Side-dump bucket*	.92 yd ³ (0.70 m ³)
High-tip bucket*	.92 yd ³ (0.70 m ³)
Multi-purpose bucket*	.99 yd ³ (0.75 m ³)
Quarry bucket	.99 yd ³ (0.75 m ³)
Compost bucket	.92 yd ³ (0.70 m ³)
Front ripper with 4 prongs	
Fork lift attachment with forks: Carrier: 49" (1,240 mm) wide	
Fork tines: 44" (1,100 mm) long, 4" (100 mm) wide, 1.8" (45 mm) tall	
Forks, 44" (1,100 mm) long, 4" (100 mm) wide, 1.8" (45 mm) tall (foldable)	
Fork tines: 59" (1,500 mm) long, 4" (100 mm) wide, 1.8" (45 mm) tall	
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	
Bale spear 2,000 lbs (907 kg) capacity	
Bucket teeth	
Cutting edges for buckets	
*optionally with bolt-on cutting edge	

DRIVER'S STAND

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
Alternative fuels available on request.	

HYDRAULIC SYSTEM

Pressureless open return line	4th control circuit, proportional
Hydraulic outlet for front hand-held hammer	4th control circuit, electrical
"High flow" hydraulic pump, 32 gpm (114 l/min), 2,540 psi (175 bar)	

CAB

FOPS-skylight guard	Pressurized cab
Right-hand door with sliding window	Independent diesel heating with timer
Working floodlight, rear	Air conditioning
Rotating beacon, yellow	Open ROPS/FOPS canopy, less cab

OTHER OPTIONAL EQUIPMENT

High-speed travel option 22 mph (36 kph)	Immobilizer (anti-theft device)
Filling with biodegradable hydraulic oil, ester-based, BIO-E-HYD-HEES	Creeper drive
Electrical tank refilling pump	Spare wheel with tire
Pilot-controlled hose-rupture protection valves for lift and tilt cylinders	Quick couplers (flat face) for 3 rd control circuit on lift frame
Back-up alarm for reverse travel	Ride control system
Central lubrication system	Battery disconnecter
Manual throttle with transmission deactivated	Special paint color
Belly guard, heavy duty	SSL quick attach system, manual (less hydraulic QMH system)
Loader lock-out bar	Terex Track (gps locator)
Z-Bar loader linkage (less parallel lift linkage)	
Further optional equipment available on request	

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