

Wheel Loader

OPERATING WEIGHT	15,656 lbs (7,101 kg)
NET ENGINE POWER	84 hp (62.6 kW)
BUCKET CAPACITY	1.1 – 2.4 yd ³ (0.85 – 1.8 m ³)
DRAWBAR PULL	12,150 lbs (5,400 daN)



WHEEL LOADER
TL120

Operating Data, Standard Equipment*

Operating weight (SAE J 1197)	15,656 lbs (7,101 kg)
Tipping load, straight at full reach	11,642 lbs (5,280 kg)
Tipping load, articulated at full reach	10,275 lbs (4,660 kg)
Operating load, fully articulated	5,138 lbs (2,330 kg)
Total length, bucket on ground	18' 5" (5.64 m)
Total width	78" (1.98 m)
Turning radius at outside bucket edge	15' 3" (4.64 m)
Wheelbase	7' 5" (2.29 m)
Height (top of cab)	9' 1" (2.78 m)

*With rear axle weights.



Specifications

Engine

Manufacturer, model	Perkins, 1104C-44
Type	4-cylinder diesel engine, Com II/EPA II
Combustion	4-stroke cycle, direct fuel injection
Displacement	269 in ³ (4,400 cm ³)
Net power rating at 2,200 rpm (SAE J 1349)	84 hp (61.5 kW)
Cooling system	Water

Electrical System

Nominal voltage	12 V
Battery	12 V / 105 Ah / 450 A

Power Transmission

Hydrostatic drive is closed circuit and independent from loader hydraulics. 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 drive shaft to front axle. Braking inching pedal.

2 speed ranges:

“Low”	0 – 3.7 mph (0 – 6 km/h)
“High”	0 – 12.4 mph (0 – 20 km/h)

4 speed ranges (high-speed version optional):

“Low”	0 – 3.7/0 – 11.8 mph (0 – 6/0 – 19 km/h)
“High”	0 – 6.8/0 – 22 mph (0 – 11/0 – 36 km/h)
Drawbar pull	12,150 lbs (5,400 daN)

Axles

Front: Rigid planetary final drive axle with integrated center-mounted drum brake. 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 20 EM 01 Mitas
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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 position 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	29 gal (110 L)
Hydraulic system (includes tank)	25 gal (93 L)

Hydraulic System

Pump capacity	20 gpm (76 Lpm)
Maximum working pressure	3,625 psi (250 bar)

Control unit: Proportional hydraulic valve with 3 control circuits and high-speed valve for tilting; single, four-way control lever (multi-function lever) for lift and tilt cylinders with integrated travel direction selector switch and switch for additional control circuit. Float position in control circuit “lowering” and electro-hydraulically operated. Additional control circuit includes quick couplers and continuous operation function provided as standard.

Loader Frame

Loader frame with true parallel linkage and integrated hydraulic quick-mount hitch (QMH).

General purpose bucket (SAE J 742)	1.6 yd ³ (1.2 m ³)
Lift capacity at ground level (SAE J 732)	15,975 lbs (71,060 N)
Breakout force at bucket edge (SAE J 732)	13,275 lbs (59,050 N)

Fork Lift Attachment

Payload over the total lift and steering range*	4,068 lbs (1,845 kg)
Payload in transport position, above ground level, total steering range*	4,948 lbs (2,244 kg)
Width of fork carrier	49" (1,240 mm)
Length pallet forks 5.5" x 2" (140 x 50 mm)	44" (1,120 mm)
Stability factor on level and solid ground	2.0
Load center from fork attachment point	22" (560 mm)

Operator Station

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

Cab featuring two doors, level entry to cab and easy-to-be-cleaned floor.

Electric windshield wipers and washer (front and rear), tinted panoramic safety glass and sliding window on left-hand side.

Driver’s seat with hydraulic cushioning and seat belt, weight-adjustable.

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

Tilt and height adjustable steering wheel.

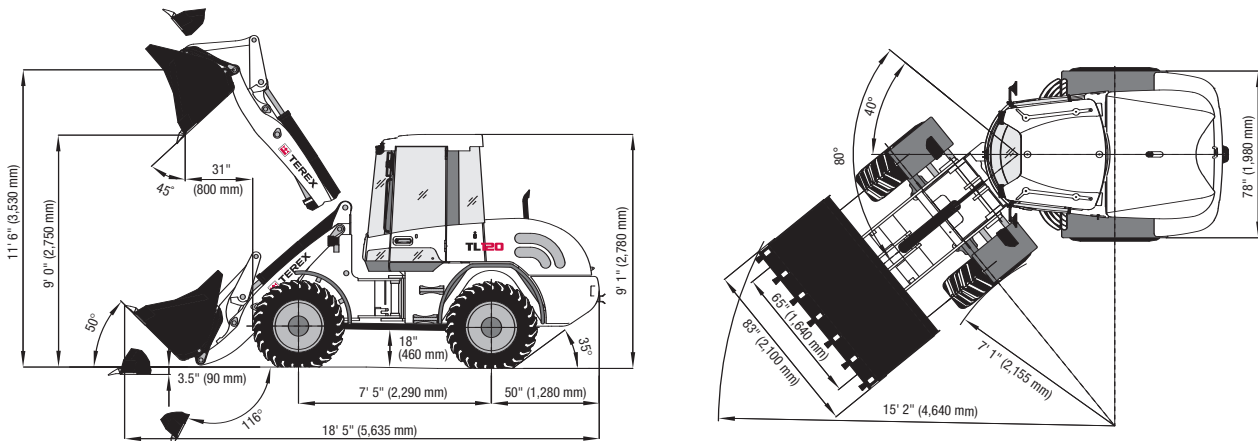
Radio and air conditioning pre-installed.

2 front working floodlights, front.

*With rear axle weights 662 lbs. (300 kg)

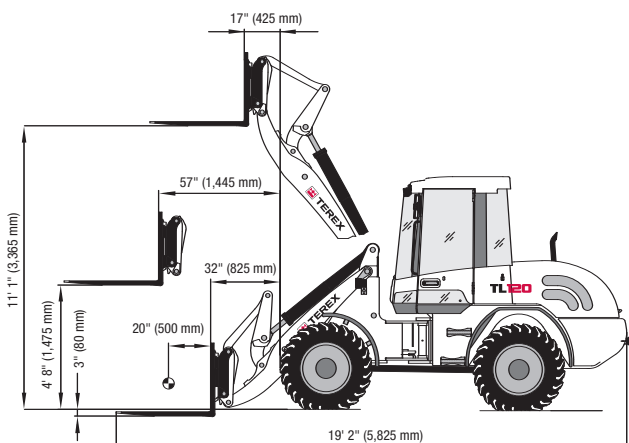
**FOPS-approved only with skylight guard (optional).

Dimensions: General Purpose Bucket



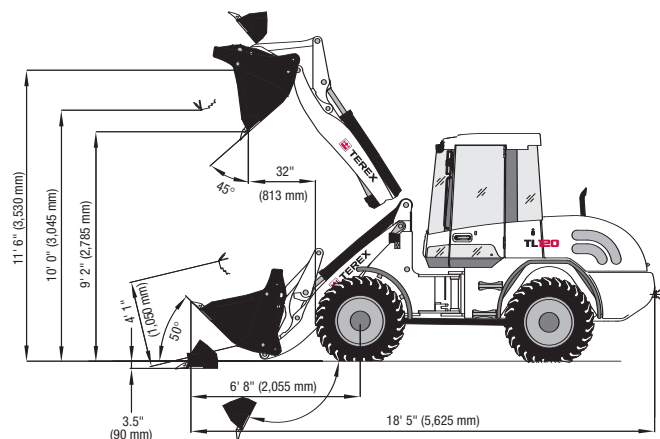
Rated capacity: 1.6 yd³ (1.20 m³)

Fork Lift Attachment



Payload over total lift range: 4,068 lbs (1,845 kg) with rear axle weights.
 Payload in transport position: 4,948 lbs (2,244 kg) with rear axle weights.

Multi-Purpose Bucket



Rated capacity: 1.4 yd³ (1.05 m³)
 Density of material: Max. 2,700 lbs/yd³ (1.6 t/m³)

Bucket Type

	Capacity	Width	Dump Height
General purpose bucket	1.6 yd ³ (1.20 m ³)	83" (2,100 mm)	9' 0" (2,750 mm)
Earth bucket	1.8 yd ³ (1.35 m ³)	83" (2,100 mm)	8' 9" (2,700 mm)
Light-material bucket	2.0 yd ³ (1.55 m ³)	83" (2,100 mm)	8' 6" (2,610 mm)
Super light-material bucket	2.4 yd ³ (1.80 m ³)	87" (2,200 mm)	8' 4" (2,550 mm)
Multi-purpose bucket	1.4 yd ³ (1.05 m ³)	83" (2,100 mm)	9' 2" (2,785 mm)
Side-dump bucket	1.1 yd ³ (0.85 m ³)	83" (2,100 mm)	8' 7" (2,665 mm)
High-tip bucket	1.6 yd ³ (1.20 m ³)	83" (2,100 mm)	13' 0" (3,970 mm)
High-tip bucket	2.4 yd ³ (1.80 m ³)	87" (2,200 mm)	13' 2" (4,030 mm)
Compost bucket	1.6 yd ³ (1.20 m ³)	83" (2,100 mm)	9' 0" (2,750 mm)

Examples of Material Densities

Earth (top soil)	2,550 lbs/yd ³	Clay (dry), Clay & Gravel (wet), Earth with Sand & Gravel	3,100 lbs/yd ³
Earth (dry)	2,650 lbs/yd ³	Gravel (sandy), Gravel (wet)	3,700 lbs/yd ³
Earth (moist), Clay with Gravel (dry)	3,000 lbs/yd ³	Clay (natural bed), Clay (wet)	3,500 lbs/yd ³
Earth (compacted), Gravel (dry)	3,000 lbs/yd ³		

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Optional Attachments / Accessories

Tires

16/70-20 EM 10 PR E 91-2 Dunlop
405/70 R 20 XZSL, Michelin
405/70 R 20 SPT 9 Dunlop
405/70 R 20 MPT E-70 Continental
425/75 R 20 XM 27 TL Michelin

Front Attachments

General purpose bucket*	1.6 yd ³ (1.20 m ³)
Earth bucket*	1.8 yd ³ (1.35 m ³)
Light-material bucket	2.0 yd ³ (1.55 m ³)
Super light-material bucket	2.4 yd ³ (1.80 m ³)
Multi-purpose bucket*	1.4 yd ³ (1.05 m ³)
Side-dump bucket	1.1 yd ³ (0.85 m ³)
High-tip bucket	1.6 yd ³ (1.20 m ³)
High-tip bucket	2.4 yd ³ (1.80 m ³)
Compost bucket	1.6 yd ³ (1.20 m ³)
Fork lift attachment with forks	
Load hook attachable on pallet forks	
Load hook integrated in quick-attach system	
Sweeper, snow blade	

Quick-Mount Hitch (QMH)

QMH - Hydraulically actuated

Operator's Stand

Air-cushioned driver's seat with orthopedic lumbar support and adjustable armrests and headrest.

*Optional bolt-on cutting edge

Diesel Engine - Optional Equipment

Diesel exhaust cleaner
Catalyst

Cab - Optional Equipment

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

Further Options

High-speed travel option	22 mph (36 km/h)
Filling with biodegradable hydraulic oil / Ester Base BIO-E-HYD-HEES	
Ride control system	
Outlet for hydraulic hand-held hammer	
Back-up alarm for reverse travel	
Immobilizer (anti-theft device)	
Quick couplers (flat face) for 3rd control circuit on lift frame	
Pilot-controlled hose-rupture safety valves for lift and tilt cylinders	

Further attachments available on request.



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