

Wheel Loader

OPERATING WEIGHT	20,283 lbs (9,200 kg)
NET ENGINE POWER	102 hp (74.5 kW)
BUCKET CAPACITY	2.0 – 4.0 yd ³ (1.5 – 3.0 m ³)


Operating Data, Standard Equipment*

Operating weight (SAE J 1197)	20,283 lbs (9,200 kg)
Tipping load, straight at full reach	15,986 lbs (7,251 kg)
Tipping load, articulated at full reach	14,002 lbs (6,351 kg)
Operating load	7,001 lbs (3,176 kg)
Total length, bucket on ground	21' 11" (6.69 m)
Total width	7' 7" (2.30 m)
Turning radius at outside bucket edge, transport position	17' 8" (5.40 m)
Wheelbase	9' 1" (2.76 m)
Height (top of cab)	9' 11" (3.03 m)

*With rear axle weights.

WHEEL LOADER
TL160



Specifications

Engine	
Manufacturer, model	Perkins 1104C-44T
Type	4-cylinder turbocharged diesel engine, Com II/EPA II
Combustion	4-stroke cycle, direct fuel injection
Displacement	268 in (4.4 L)
Net power rating at 2,200 rpm (to SAE J 1349)	102 hp (74.5 kW)
Cooling system	Water
Electrical System	
Nominal voltage	24 V
Battery	2 x 12 V / 74 Ah / 660 A
Power Transmission	
Hydrostatic drive, 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 cardan shaft to front axle. Brake 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 / 0-12.4 mph (0-6 / 0-20 km/h)
“High”	0-7.5 / 0-24.8 mph (0-12 / 0-40 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	±12°
Tires	
Standard	15.5 R 25 EM 60 12 PR
Brakes	
Service brake: Hydraulically actuated two-circuit power brake system and oil-immersed multi-disc brakes in both axles, acting on all 4 wheels via 4-wheel-drive.	
Auxiliary brake: Hydrostatic drive provides dynamic braking.	
Parking brake: Spring-loaded brake acting on multi-disc brakes on both axle shafts.	
Steering	
Articulated, 2 steering cylinders with final position damping on both sides, fully hydraulic through Load-Sensing priority valve and quick and easy steering even at engine idle-running speed.	
Total steering angle	80°

Fluid Capacities	
Fuel tank	37 gal (140 L)
Hydraulic system (includes tank)	25 gal (93 L)

Hydraulic System	
Pump capacity	26 gpm (99 Lpm)
Maximum working pressure	4,061 psi (280 bar)

Control unit: Proportional hydraulic valve with 3 control circuits. 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 electrically operated with preselection of flow rate an impulse/continuous operation.

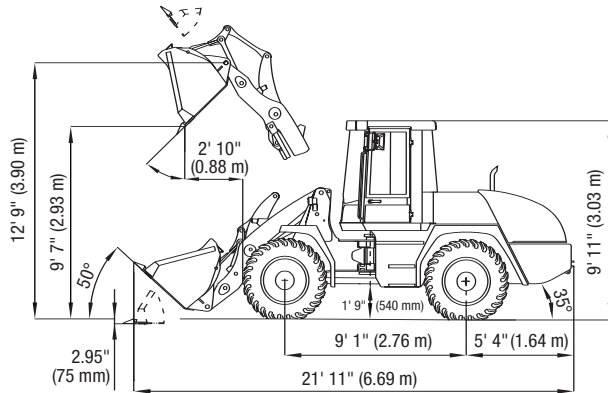
Loader Frame	
Loader frame with modified parallel lift linkage. Direct mount (pin-on) buckets and attachments. Optional hydraulic quick-mount hitch (QMH) available.	
General purpose bucket (ISO 7546)	2.1 yd ³ (1.6 m ³)
Lift capacity at ground level (ISO 8313)	19,221 lbs (85,500 N)
Breakout force at bucket edge (ISO 8313)	19,334 lbs (86,000 N)

Fork Lift Attachment	
Payload over the total lift and steering range	7,055 lbs (3,200 kg)*
Payload in transport position, approx. 11.8" (300 mm) above ground level, total steering range	7,716 lbs (3,500 kg)
Width of fork carrier	6' 3" (1.90 m)
Length pallet forks (5.5" x 2.0" / 140 x 50 mm)	3' 8" (1.12 m)
Stability factor on level and solid ground	1.25
Payload determined in compliance with DIN 24094 and ISO 8313.	

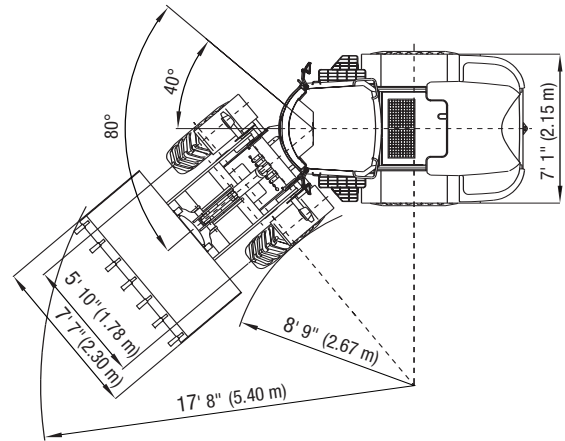
Cabin	
Rubber-mounted full-vision steel cab, ROPS (to ISO 3471) and FOPS (SAE J31) certified.	
Cab featuring two doors, electric windshield intermittent wipers and washer (front and rear), tinted panoramic safety glass and sliding window on left-hand side.	
Operator's seat with hydraulic cushioning and lap belt, weight-adjustable, in compliance with ISO 7096 and ISO 6683.	
Cab heating with 3-speed heater fan (fresh air or recycled air) and windshield defroster, front and rear.	
Automatic climate control.	
Tilt adjustable steering wheel.	
Wiring for radio pre-installed.	
2 front and 2 rear working floodlights.	
Sound level values in compliance with EC-directives.	

*With rear axle weights 1,100 lbs. (500 kg)

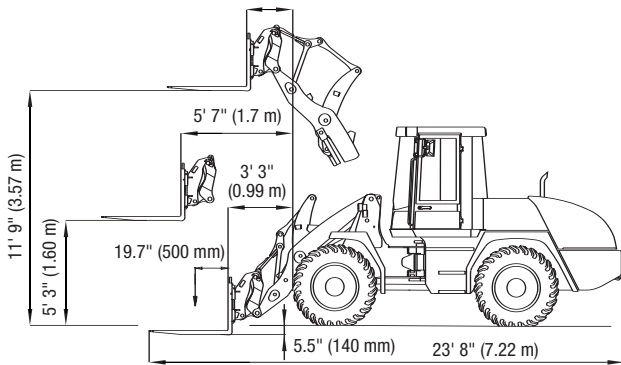
Dimensions: General Purpose Bucket



Rated capacity in compliance with SAE J 742: 2.0 yd³ (1.60 m³)
Maximum density of material: 2,700 lbs/yd³ (1.8 t/m³)

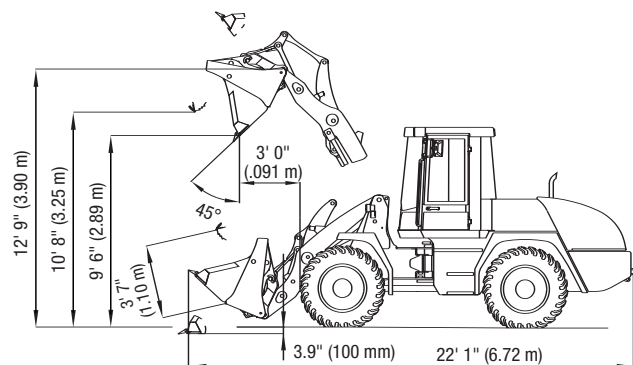


Fork Lift Attachment



Payload over total lift range: 7,055 lbs (3,200 kg)
Payload in transport position: 9,920 lbs (4,500 kg)

Multi-Purpose Bucket



Rated capacity in compliance with SAE J 742: 1.6yd³ (1.25 m³)
Maximum density of material: 2,400 lbs/yd³ (1.6 t/m³)

Bucket Type

	Capacity	Density	Width	Dump Height
General purpose bucket, QMH*	2.0 yd ³ (1.5 m ³)	2,700 lbs/yd ³ (1.8 t/m ³)	90.5" (2,300 mm)	114" (2,890 mm)
General purpose bucket, QMH*, cutting edge	2.0 yd ³ (1.5 m ³)	2,700 lbs/yd ³ (1.8 t/m ³)	90.5" (2,300 mm)	112" (2,850 mm)
General purpose bucket, directly mounted	2.1 yd ³ (1.6 m ³)	2,700 lbs/yd ³ (1.8 t/m ³)	90.5" (2,300 mm)	115" (2,930 mm)
Gen. purpose bucket, dir. mounted, cutting edge	2.1 yd ³ (1.6 m ³)	2,700 lbs/yd ³ (1.8 t/m ³)	90.5" (2,300 mm)	114" (2,890 mm)
Earth bucket, QMH*	2.2 yd ³ (1.7 m ³)	2,400 lbs/yd ³ (1.6 t/m ³)	90.5" (2,300 mm)	114" (2,890 mm)
Earth bucket, QMH*, cutting edge	2.2 yd ³ (1.7 m ³)	2,400 lbs/yd ³ (1.6 t/m ³)	90.5" (2,300 mm)	110" (2,790 mm)
Earth bucket, directly mounted	2.3 yd ³ (1.8 m ³)	2,400 lbs/yd ³ (1.6 t/m ³)	90.5" (2,300 mm)	110" (2,800 mm)
Earth bucket, directly mounted, cutting edge	2.3 yd ³ (1.8 m ³)	2,400 lbs/yd ³ (1.6 t/m ³)	90.5" (2,300 mm)	109" (2,760 mm)
Multi-purpose bucket, QMH*	1.6 yd ³ (1.25 m ³)	2,400 lbs/yd ³ (1.6 t/m ³)	90.5" (2,300 mm)	114" (2,890 mm)
Multi-purpose bucket, QMH*, cutting edge	1.6 yd ³ (1.25 m ³)	2,400 lbs/yd ³ (1.6 t/m ³)	90.5" (2,300 mm)	112" (2,850 mm)
Examples of Material Densities				
Granite, Sand (damp), Gravel (damp)	2,700 lbs/yd ³ (1.8 t/m ³)	Coal, Slate	1,800 lbs/yd ³ (1.2 t/m ³)	
Earth (damp), Sand (dry), Gravel (dry)	2,400 lbs/yd ³ (1.6 t/m ³)	Coke, Wood chips (dry)	1,200 lbs/yd ³ (0.8 t/m ³)	

*QMH = Quick-Mount Hitch

Wheel Loader TL160

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	

Front Attachments	
General purpose bucket*	2.1 yd ³ (1.6 m ³)
Earth bucket*	2.2 yd ³ (1.7 m ³)
Light-material bucket*	2.9 yd ³ (2.2 m ³)
Light-material bucket*	3.4 yd ³ (2.6 m ³)
Multi-purpose bucket*	1.6 yd ³ (1.25 m ³)
High-tip bucket	2.0 yd ³ (1.5 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-Mechanically actuated

Operator's Stand
Air-cushioned operator's comfort 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
Right-hand door with sliding window
Yellow beacon
Independent diesel heating with timer

Further Options	
High-speed version	40 km/h
Filling with biodegradable hydraulic oil / Ester Base BIO-E-HYD-HEES	
Ride control system	
Outlet for hydraulic hand-held hammer	
Special creep versions available on request	
Immobilizer (anti-theft device)	
Quick couplers (flat face) for 3rd control circuit on lift frame	

Further attachments available on request.



Terex Construction Americas

8800 Rostin Road
Southaven, MS 38671
USA

TEL 662-393-1800
SALES 866-837-3923
PARTS & TECH SUPPORT 888-201-6008
FAX 662-393-1700
EMAIL sales@terexca.com
WEB terexca.com

For more information, product demonstration, or details on purchase, lease and rental plans, please contact your local Terex Distributor.

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