

COMPACT WHEELED LOADER



WORKS FOR YOU.

TOTALLY CAPABLE

Just when you need it...

The Terex® TL80 wheel loader is one of the most powerful and popular compact wheel loaders on the market. Not least because it can be used with great reliability and flexibility on a wide variety of construction sites. A wealth of attachments support a huge range of applications.

Made in Germany

Terex Compact Germany has developed and manufactured compact construction machinery for over 75 years, including more than 30 years at the current Crailsheim site.



COMPACT WHEELED LOADER TEREX® TL80

EXTREMELY POWERFUL

... FROM ANY SIDE.

4th control circuit with high flow function (optional) for more hydraulic power: 115 l/min.

2 additional control circuits for operating standard work attachments (optional).

Fingertip control for fast and precise work.

Electrics directly and easily accessible in the cab.

precise electric proportional control.

Various additional functions are integrated directly.

Multi-function joysticks:

the 3rd and 4th control circuits are under

Cab interior with a new performanceenhancing design for a comfortable and productive working environment.

Transversely mounted engine provides easy access for maintenance and acts as a counterweight.

New hood styling with 20% bigger ventilation slots for optimised engine cooling.

Replace tools quickly and easily from the cab using the quick-attach system thanks to two-handed operation.

Automatic self-locking differentials on both axles offer excellent traction.

Articulated steering with oscillating rear axle provides stability, ride comfort, and precise maneuverability, particularly during attachment changes.

The latest Terex Smart Control (TSC) operating system for precise, comfortable

and productive work.

Less displacement and fuel consumption, more torque and power with the EU Level IIIB / EPA Tier 4 Final engine.*

^{*} Compared to previous version

POWERFUL ENGINE

DELIVERS RESULTS IN TERMS OF OPERATION AND ENVIRONMENTAL PROTECTION.

FEWER EMISSIONS, MORE POWER

Engine: EU Stage IIIB / Tier 4 Final

Adopting European and American emission levels ensures a significant reduction in particulate emissions compared with previous levels – from 0.4 to 0.025 g/kWh.



TAKE ADVANTAGE OF THE NEW ENGINE TECHNOLOGY:

- ▶ Lower fuel consumption really pays off.*
- ▶ The machine is delivered without a diesel particulate filter as standard. This saves on servicing costs. A diesel particulate filter is available on request.
- ▶ Fresh air: pollutants in the emissions from the TL80 are reduced by up to 90%. Significantly fewer particulates are emitted thanks to the advanced exhaust after-treatment. This is achieved by means of improved combustion and injection systems and a diesel oxidation catalyst (DOC).*
- Drive characteristics have been optimised for the new engine to deliver performance and meet regulations.



^{*} Compared to previous version

MODERN WORKING **ENVIRONMENT**

INCREASES PRODUCTIVITY AND SATISFACTION.

THE CAB

Even when it's rough outside, the many features in the cab provide a very pleasant working environment. The control system for the machine uses innovative technology. The machine remains easy to handle, even when used in challenging conditions. This helps driver and machine deliver high productivity.



COMFORTABLE AND FUNCTIONAL

Designed with driver comfort and productivity in mind, the cabs feature noise and vibration damping and are ROPS/FOPS-approved.

SECOND DOOR

- Optimal cab ventilation
- Communication possible on both sides
- Cab easy to clean
- Improved visibility, even at ground level



COMPACT WHEELED LOADER TEREX® TL80



DISPLAY AND INSTRUMENTS

A central control unit allows the machinery to be adjusted to the application and the driver. The 3.5" display shows machinery and engine data. The modern menu guide is similar to current smart phones. The windscreen, which domes inwards, minimises the mirror effect.

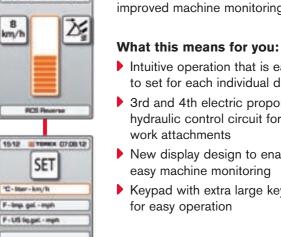
PRECISE FINGERTIP CONTROL

With the fingertip control, electrical proportional activation of hydraulic functions is simple thanks to a thumbwheel on the joystick. This enables the operator to regulate the oil flow with real precision, all the way from "zero" to "full", which makes it considerably easier to use attachments such as folding

TEREX SMART CONTROL

Terex Smart Control (TSC) is a new Terex operating system for compact wheeled loaders with new engines in the EU Level IIIB / EPA Tier 4 Interim and Final class. It has never been easier to match a Terex construction machine precisely to the driver and application. Numerous controls have also been redesigned and rearranged for quicker operation and improved machine monitoring.

- Intuitive operation that is easy to set for each individual driver
- ▶ 3rd and 4th electric proportional hydraulic control circuit for operating work attachments
- New display design to enable easy machine monitoring
- ▶ Keypad with extra large keys for easy operation



COMPACT WHEELED LOADER TEREX® TL80

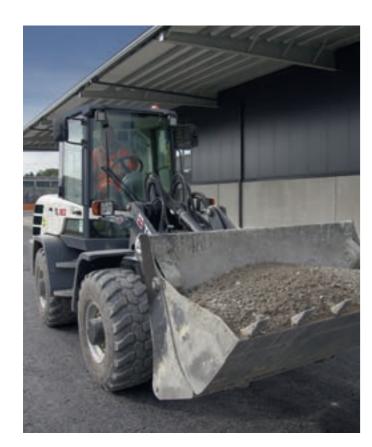
EFFICIENT DRIVE

RIGHT ON TRACK.

Responsive, ready for the task at hand, and intuitive: the wheeled loader delivers power exactly where needed – the results are fast work cycles, low fuel consumption, and minimal wear.

ECONOMICAL HYDROSTATIC DRIVE

Operating in a closed circuit, the hydrostatic travel drive delivers lots of power while keeping fuel consumption low. The TL80 loader can achieve up to 20km/h on the road. The optional high-speed version can reach speeds of up to 36 km/h.



ARTICULATED STEERING WITH OSCILLATING REAR AXLE

When used at a densely built-up location or construction

sites with limited space, the articulated steering delivers great maneuverability with its 40° steering angle. The articulated steering also allows the bucket to approach the load in a straight line, even at the maximum steering angle. This affords the operator greater flexibility in terms of picking up pallets or setting down loads. The oscillating rear axle has a wide slewing angle of 10°, keeping all 4 wheels in contact with the ground at all times, even when working on uneven ground. The operator also sits parallel to the work attachment at all times. With a Terex wheeled loader, only the rear axle oscillates – unlike other manufacturers, where the whole of the rear end oscillates. This means the weight of the machine is always moving in the same direction as the bucket, which in turn increases the pressure on the ground

when backing up.



AUTOMATIC SELF-LOCKING DIFFERENTIALS

All compact Terex wheeled loaders are fitted with permanent all-wheel drive and automatic self-locking differentials on the front and rear axles (35% locking effect). Both provide enhanced traction when traveling in a straight line and turning corners – perfect for bucket loading. The self-locking differentials are activated automatically as required.

ROAD PERMISSION

Terex wheeled loaders may be driven on the road. The TL80 can also be used with an optional towing hitch as a tractor unit.*

BRAKE/INCHING PEDAL

Terex wheeled loaders have a brake/inching pedal for precise maneuver commands and fast work cycles. This function allows the operator to divert the engine's power from the travel drive to the working hydraulics for fast lifting and setting down of loads.



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^{*} May vary according to country standards

POWERFUL WORK EQUIPMENT

SETTING NEW STANDARDS IN REACH AND POWER.

LIFTING FRAME WITH PARALLEL KINEMATICS SYSTEM

Included as standard on all machines, Terex parallel kinematics system allow you to lift a load quickly and precisely without constantly having to adjust the loading angle. While the kinematics system take care of the stroke angle, the operator is free to concentrate on where exactly to set down the load. Terex parallel kinematics system optimise work cycles when loading and unloading the second row on a truck. The clever design ensures the tilt control lever does not collide with the body of the truck.

FORK CARRIER

In tandem with the quick-attach system, the fork carrier offers excellent visibility.

HIGHLY EFFECTIVE HYDRAULICS

The working hydraulics operate completely independently of the hydraulics for the drive.





COMPACT WHEELED LOADER TEREX® TL80

SIMPLE SERVICING

AND QUICK WITH IT.

Simple component layout simplifies service and helps to maximise operating time. Daily tasks can be performed from ground level to save time.





What this means for you:

- ▶ Refueling is quick and time-efficient via the easily accessible service hatch.
- Large gas-pressured struts make it easy to open the engine hood. The starter, generator, battery, and injection pump are easy to reach, as are the fuel and air filters.

Battery isolator switch

Can be accessed when standing next to the cab.

Jump start terminal

Easy jump starting the machine thanks to free access under the engine hood.

Cab cabling

Simple disconnection of electrical lines when dismantling the cab.







EXCELLENCE AS STANDARD

WITH PERFECTLY TAILORED ADDITIONAL EQUIPMENT.

In order to provide a wheeled loader adapted for the job, Terex offers numerous equipment packages and additional equipment. Using equipment tailored to the job helps increase productivity, reduce wear and damage.

PROTECTION PACKAGE FOR HARSH ENVIRONMENTS

This includes:

- Special coating with 2K paint
- Piston rods for lift, tilt, and steering cylinders with chrome/nickel coating (instead of the standard chrome coating)

LIFTING ARM

Burst valves for lift and tilt cylinders

HYDRAULICS

- Fourth hydraulic control circuit
- ▶ Hydraulic shock absorbers
- ▶ Biodegradable hydraulic oil

CAB

- FOPS modification kit (protection against falling objects)
- ▶ Heated external mirror
- Supplementary diesel heating (independent of engine) with circulation system
- ▶ Sliding window on right-hand side
- Air conditioning

MAINTENANCE

- ▶ Central lubrication
- ▶ Electric refueling pump

OPERATION

- Automatic return to dig position
- Reverse signal
- ▶ Electronic immobiliser
- Creeper gear

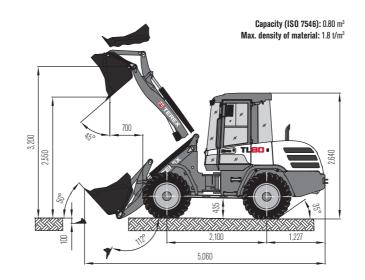
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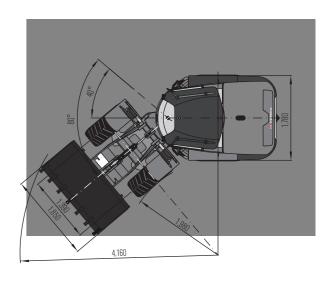




DIMENSIONS

GENERAL-PURPOSE BUCKET

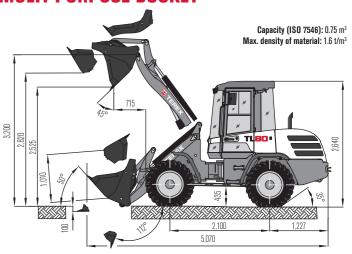




FORK LIFT ATTACHMENT

Operating load over total lift range: 2,050 (2,250*) kg Operating load in transport position: 2,500* kg With rear ade weights

MULTI-PURPOSE BUCKET



BUCKET TYPE

	Contents	Density	Width	Dump height
General-purpose bucket, quick-attach system (QAS), teeth	0.80 m ³	1.8 t/m³	1,850 mm	2,550 mm
General-purpose bucket, QAS, bolt-on cutting edge	0.80 m ³	1.8 t/m³	1,850 mm	2,510 mm
Earth bucket, QAS, teeth	0.90 m ³	1.6 t/m³	1,850 mm	2,485 mm
Earth bucket, QAS, bolt-on cutting edge	0.90 m ³	1.6 t/m³	1,850 mm	2,445 mm
Light-material bucket, bolt-on cutting edge	1.00 m ³	1.2 t/m³	1,850 mm	2,435 mm
Light-material bucket, bolt-on cutting edge	1.20 m ³	0.8 t/m ³	1,950 mm	2,395 mm
Multi-purpose bucket, QAS	0.75 m ³	1.6 t/m³	1,850 mm	2,525 mm
Multi-purpose bucket, QAS, bolt-on cutting edge	0.75 m ³	1.6 t/m³	1,850 mm	2,485 mm
Side-dump bucket, QAS, without teeth	0.70 m ³	1.8 t/m³	1,850 mm	2,450 mm
High-tip bucket, QAS, without teeth	0.70 m ³	1.2 t/m³	1,850 mm	3,540 mm
Quarry bucket, QAS	0.70 m ³	1.8 t/m³	1,850 mm	2,530 mm

EXAMPLES OF MATERIAL DENSITIES

G	ranite, basalt, sand (damp), gravel (damp), slate:	1.8 - 2.2 t/m ³	Topsoil, clay, mineral coal:	1.1 - 1.6 t/m ³
S	andstone, 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

SPECIFICATIONS

ENGINE

Manufacturer, model	Deutz, TCD 2.9 L4
Туре	Turbo diesel engine with intercooler, exhaust-gas optimised EU Stage III B, EPA TIER IV final
Combustion	4-stroke cycle, Common Rail injection
Number of cylinders	4 in line
Displacement	2,900 cm ³
Net power rating at 2,200 rpm (ISO 14396)	45 kW (61 hp)
Max. torque	240 Nm @ 1,600 rpm
Cooling system	Water

ELECTRICAL SYSTEM

Nominal voltage	12 V
Battery	12 V / 77 Ah / 760 A (DIN-EN50342)
Generator	14 V / 95 A
Starter	12 V / 2.6 kW (3.5 hp)
Cold-starting aid	Glow plugs 12 V
Lighting system in compliance with CtV70 and European standards	halagan U7 haadlamne 2 warking

POWER TRANSMISSION

Hydrostatic drive, closed circuit, independent from loader hydraulics. Perfected driving automatics, automatic optimisation and 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. Inch-brake-drive pedal for sensitive driving and stopping at high rpm.

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Z	speed	ı ranc	ies

"Low"	0-4 kph
"High"	0-20 kph
4 speed ranges (high-speed version optional):	
"Low"	0-5 / 0-10 kph
"High"	0-16 / 0-36 kph

AXLES

Front: Rigid planetary final drive axle, centre-mounted disc brake. Limited slip-type differential 35%. Rear: Oscillating (with cushioning) planetary final drive axle, with integrated reduction gear. Limited slip-type differential 35%.

Angle of oscillation $$\pm 10^{\circ}$$

BRAKES

Service brake:	Hydraulically actuated centre-mounted disc brake, acting on all 4
	wheels via 4-wheel drive.
Auxiliary brake:	Hydrostatic through closed-circuit travel drive.
Parking brake:	Mechanically actuated centre-mounted disc brake on front axle.

TYRES

Standard 405/70 R 18 SPT9 Dunlop

STEERING

Articulated steering, fully hydraulic, 1 steering cylinder with final positioning damping on both sides, oil supply via Load-Sensing priority valve, quick and easy steering even at engine idle-running speed.

Total steering angle

FLUID CAPACITIES

Fuel tank	75
Hydraulic system (incl. tank)	55

NOISE LEVEL

Sound pressure level $(L_{\alpha A})$ in cab	75 dB(A)
Sound nower level (L.) around the machine according to 2000/14/EC	101 dR(Δ)

OPERATING DATA, STANDARD EQUIPMENT

Operating weight (ISO 6016)	4,900 kg
Tipping load, straight (ISO 14397-1)	3,770 kg
Tipping load, articulated (ISO 14397-1)	3,330 kg
Total length, bucket on ground	5,060 mm
Total width	1,850 mm
Turning radius at outside bucket edge	4,160 mm
Wheelbase	2,100 mm
Total height (top of cab)	2,640 mm

HYDRAULIC SYSTEM

Simultaneous, independent control of all movements.

Pump capacity 64	I/min
Working pressure 25	50 bar
Control unit: Proportional hydraulic valve with 3 control circuits, supplying work functions "Lift / Lov	ver",
"Dump / Tilt-back with high-speed control" and "3rd control circuit (1st additional control circuit)".	

Hydraulic cylinders: 1 lifting cylinder, 1 tilt cylinder, all dual-action

The thermostatically controlled oil circuit ensures that the oil temperature is promptly reached and avoids overheating. Return filter installed in hydraulic tank allows for eco-friendly replacement of filter elements.

Terex 'Fingertip' control for 3rd control circuit, electro-proportional, oil flow limitation via machine function display, continuous operation. Installation on loader frame incl. couplings.

Hydraulically switchable float position by overdriving the pressure point "Lower" on the joystick, electrically switchable continuous operation function.

Single, four-way control lever (joystick) with integrated direction-of-travel switch and switch for additional control circuit.

LOADER FRAME

Loader installation featuring true parallel linkage and integrated mechanical (optionally hydrau quick-attach system.	
General-purpose bucket (ISO 7546)	0.80 m ³
Lift capacity at ground level (ISO 14397-2)	48,000 N
Breakout force at bucket edge (ISO 14397-2)	45,900 N

FORK LIFT ATTACHMENT

TOTAL ETT I ATTAONIMENT	
Operating load over the total lift and steering range	2,050 (2,250*) kg
Operating load in transport position, approx. 300 mm above ground level, total steering range	2,500* kg
Width of fork carrier	1,240 mm
Length pallet forks (100 x 45 mm)	1,100 mm
Stability factor	1.25
Operating load determined acc. to ISO 14397-2 and EN ISO 474-3 on level ground =	80 % of tipping load.

CAB

Rubber-mounted full-vision steel cab, ROPS (EN ISO 3471) and FOPS** (EN ISO 3449) certified.

Cab featuring two doors, electric windscreen intermittent wipers and washer (front and rear), tinted

panoramic safety glass, sliding window on left-hand side.

Driver's seat MSG85 (standard version) with hydraulic cushioning, weight-adjustable, longitudinal and height adjustment and lap belt in compliance with ISO 7096 and ISO 6683.

Cab heating by engine coolant heat exchanger with 3-speed heater fan (choice fresh air/recirculating air) and windscreen defroster, front and rear.

Steering wheel with height and tilt adjustment.

Air conditioning and radio pre-installation.

*With rear axle weights

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



OPTIONAL EQUIPMENT

TVRFS

i ineo
405/70 R 18 EM 01 Mitas
340/80 R 18 TRI2 Nokian
340/80 R 20 XMCL Michelin
335/80 R 20 MPT E-70 Continental
400/70 R 20 IT520 Goodyear
405/70 R 20 SPT9 Dunlop
405/70 R 20 EM01 Mitas
500/45-20 J331 Alliance (wide tyres)
Non-standard tyres available on request

FRONT ATTACHMENTS

	General-purpose bucket*		0.80 n
	Earth bucket*		0.90 n
	Light-material bucket*		1.00 n
	Light-material bucket*		1.20 n
	Side-dump bucket*		0.70 n
	High-tip bucket*		0.70 n
	Multi-purpose bucket*		0.75 n
	Quarry bucket		0.75 n
	Compost bucket		0.95 n
	Front ripper with 4 prongs		
	Fork lift attachment: Fork carrier, 1,240 mm wide		
	Forks, 1,100 mm, 100 x 45 mm	Forks, 1,200 mm, 100 x 45 mm	
	Forks, 1,500 mm, 100 x 45 mm		
	Forks, 1,120 mm long, 100×50 mm, foldable (StVZO	approval possible)	
	Forks, 1,200 mm long, 120 x 50 mm, foldable (StVZO	approval possible)	
	Load hook, attachable on fork arms	Load hook, integrated in quick-attach syste	m
	Broom bucket	Snow blade	
	*optionally with bolt-on cutting edge		

DRIVER'S STAND

Operator's seat MSG 85 (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-independent diesel heater with timer Fire extinguisher

DIESEL ENGINE

Diesel engine with diesel particulate filter (DPF)	Guard for fan wheel
HYDRAULIC SYSTEM	
4th control circuit, Terex 'Fingertip' control, (electro-proportional control) and installation on lift frame incl. couplings and continuous operation e.g. for attachments with 2 hydr. functions	4th control circuit, High-Flow, 115 I/min, 180 bar, (electro-proportional control) and installation on frame incl. couplings
4th control circuit, single-acting, Terex 'Fingertip' control, (electro-proportional control) with pres-	Hydraulic outlet for front hand-held hammer, with flow divider

OUICK-ATTACH SYSTEMS

sureless return and installation at rear-end

Right-hand door with sliding window

Working floodlight, rear

Open return, on lift frame

ÁNICK-ALIACH 2121EM2		
Quick-attach system, hydraulic	Quick-attach system, hydraulic (Atlas)	
Hydraulic installation for hydraulic quick-attach system		
CAB		
FOPS-skylight guard	Yellow beacon	

Bypass filter Kleenoil

Radio installation kit

Air-conditioning

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OTHER OPTIONAL EQUIPMENT		
High-speed version 36 kph	Anti-theft device (immobiliser)	
Filling with biodegradable hydraulic oil, ester- based, B10-E-HYD-HEES	Special creep versions available on request	
Electrical tank refilling pump	Rear axle weights, approx. 260 kg	
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 disconnector	
Trailer coupling (Rockinger)	Acceptance as agricultural or forestry tractor	
Manual throttle, transmission deactivated	Further optional equipment available on request	

Product specifications and prices are subject to change without notice. The photos and/or drawings contained in this document are for illustration purposes only. The relevant operating instructions must be consulted for proper use of our machinery. Failure to follow the relevant operating instructions when using our products or other deviations from the proper operation of the machinery could lead to serious or lethal injuries. The only warranty applicable to our products is the standard written warranty applicable to the particular product. Terex makes no other warranty, express or implied.

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