

Wheel Loader Specifications

L 5.5



Service weight	4.1 t
Engine output	39 kW
Loading bucket	0.7 m³
Tipping load	1 800 – 2 700 kg

- Hydrostatic drive
- Multi-disc self-locking differentials
- Wet, fully enclosed multi-disc brake
- Deluxe cab with multifunctional lever



ic comfort and exceptional reliability.

Futuristic cab with space to spare

Outstanding all-round visibility, visibility forward and rear improved even further

Electronic immobilizer standard

Fuel-efficient water-cooled Perkins engine, powerful and clean

Easy accessibility for rapid maintenance

Oscillating rear axle

Adjustment-free articulated joint with widely-spaced spherical bearings

All-wheel planetary axles with multi-disc self-locking differentials front and (optionally) rear

Wet multi-disc brakes in rear axle. Good accessibility to the brakes without removing the wheels



L 5.5. Fleet-footed, with futurist

CE symbol according to EC Machinery Directive.

TÜV certificate for compliance with DIN ISO EN 9001.

Easy operation with multifunctional lever

Rugged Z-geometry for exceptional breakout forces and fast dumping speeds

Integrated quick-hitch standard



A new standard of comfort for more productivity

Superb cockpit



This cab incorporates new dimensions of output-enhancing comfort. The futuristic design creates an atmosphere that is conducive to productivity. The comfortable suspension seat is adjustable to the weight of the operator. All of the controls are ergonomically positioned and conveniently placed.

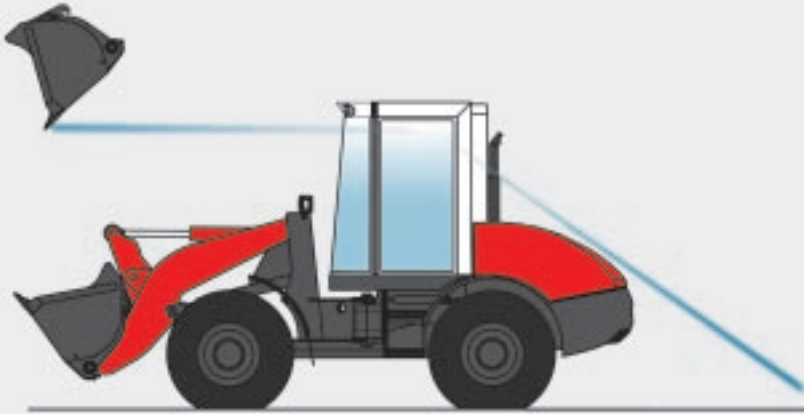


Space to spare inside allows the operator ample freedom of movement. There is enough head clearance even for the helmet. The heater/ventilation system with integrated fresh-air blower ensures an agreeable working climate. An optional air conditioner can easily be retrofitted. The multi-purpose lever conveniently controls lifting, lowering, rollback, dump and reversing-under-load functions. All this speeds up work.

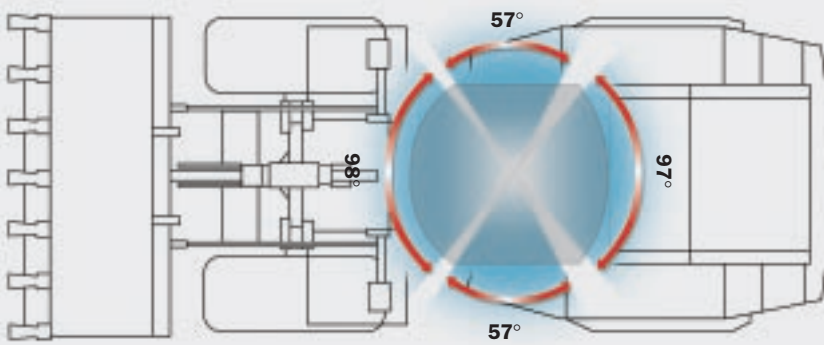
On a small wheel loader, the operator frequently has to get in and out of the machine. On this wheel loader, no problem. The door is extremely wide and the steering column steplessly adjustable.



Outstanding visibility



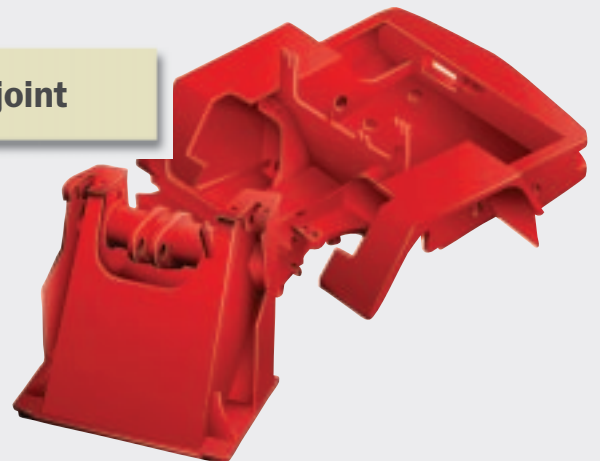
Visibility is unrivalled and again improved over the previous L 5. The equipment and rear zone are always in full view. The operator can even see downward between the wheels and onto the articulating joint.



Visibility from above, typical of the good all-round visibility.

Rugged frame and adjustment-free articulating joint

The sturdy frame is laser-welded, a technology for absolute precision and a long service life. Widely-spaced, sealed, self-aligning bearings optimize force distribution for even safer operation. Elastic stops prevent damage and easy accessibility facilitates maintenance.



Responsive and rugged: the fuel-efficient Perkins engine

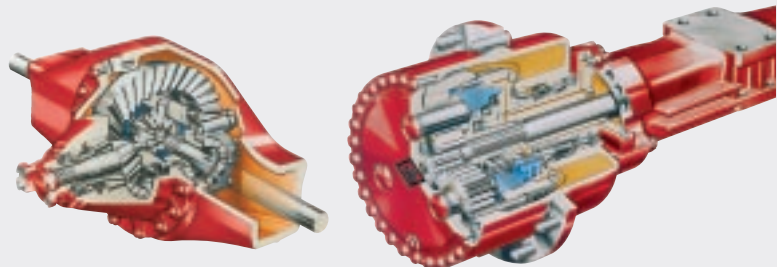
The powerful, water-cooled diesel 704-30 is one of Perkins' newest developments, quite and very clean. The hydrostatic ventilator ensures perfect accommodation to ambient conditions. The serviceable design facilitates routine maintenance.



Wet multi-disc brake and self-locking differential

The hydraulic braking system with inboard wet multi-disc brakes on the rear axle works efficiently under any conditions. The brakes are adjustment-free and easily accessible without removing the wheels.

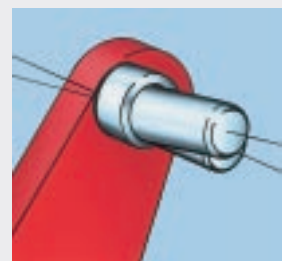
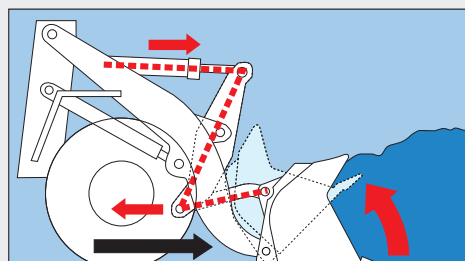
Even on treacherous terrain, the automatic self-locking differential assures best-possible power transfer. Operation is simplified and wrong shifting avoided.



Rugged, powerful Z-geometry

Z-geometry with just one tilt cylinder delivers extraordinary breakout forces and fast dumping speeds. The central lubrication system for the lift frame makes maintenance easy.

The bearings are all sealed. The articulating points on the lift frame and cylinder have spherical bearings for reduced load even under punishing conditions. The outcome: less wear and high reliability, day in, day out.

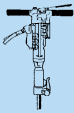




Bottom-dump bucket



Forks



Hydraulic breaker



Drill



Slewable crane arm



Log grab



Crane arm



High-dump bucket



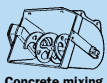
Side-dump bucket



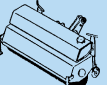
Clearance and snow blade



Tyned bucket

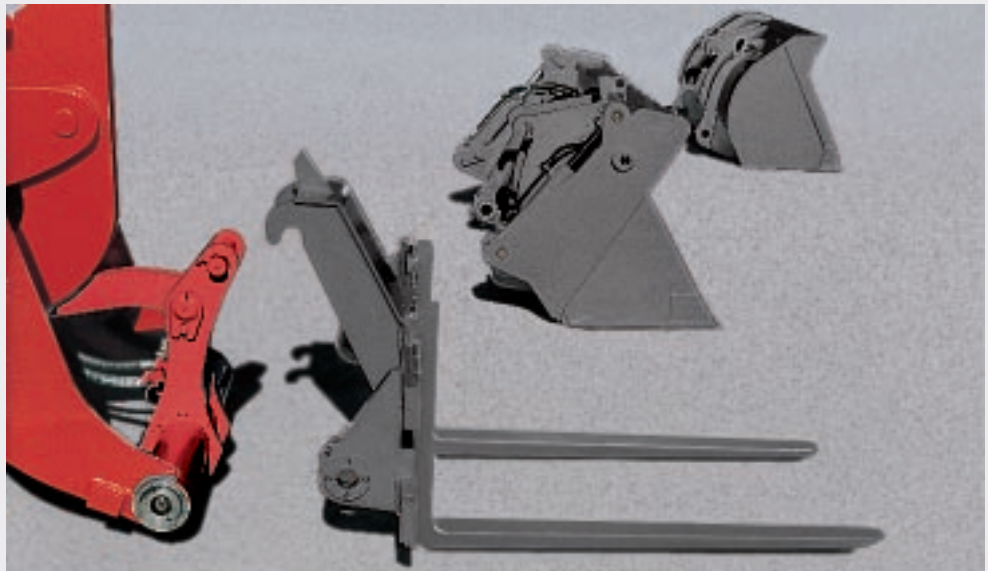


Concrete mixing bucket



Sweeper

Broad attachment range and service-friendly design



The integrated, hydraulic quick-hitch broadens the range of possible operations, turning the L 5.5 into a cost-efficient all-rounder.



The elastic bucket stop absorbs noise for reduced stress on material, operator and environment.

Time-saving maintenance



The large engine hood opens up widely and easily, and all the components are readily accessible. Routine daily maintenance is completed in no time at all. The slim patented longitudinal beam permits easy accessibility, from the side, top and even to components normally inaccessible without first removing panels and covers.



Engine

Perkins diesel engine 704-30 EI
Liquid-cooled naturally aspirated engine • Direct injection

Engine output ISO 9249	39 kW / 2300 RPM
Max. torque at 2300 RPM	173 Nm
Cylinders / displacement	4 / 3000 cm ³
Bore / stroke	97 mm / 100 mm
Voltage	12 V
Battery	12 V / 92 Ah
Alternator	780 W
Starter	2.5 kW

Exhaust emissions according to COM 95/350 Step I

Lighting equipment with H4 halogen lamps according to German road safety regulations • Cold-start aid with glow plugs.



Axles

All-wheel drive with planetary axles • Oscillating rear axle • Multi-disc self-locking differential front (rear optional)

Axle articulation +/- 11°=22°



Travel speeds

Speeds in km/h with max. tyre size 12.5-20

Low range (max. tractive force/limited travel speed)	0 – 5 km/h
High range (max. tractive force/max. travel speed)	0 – 20 km/h



Hydraulics

Max. output	
Loader/steering	53 l/min
Operating pressure, loader	230 bar
Operating pressure, steering	175 bar



Tyres

Standard (radials) 335/80 R 18, LZ

Special tyres on request



Cylinders

Double-acting lift and tilt cylinders • Controller: Single-lever control with lock for road travel - automatic centering • Float position • 3rd control circuit for quick-hitch and working equipment with hydraulic function.



Brakes

Service brakes, accumulator type: operated hydraulically by inching/brake pedal, inboard wet multi-disc brakes for rear axle. Braking unaffected by dirt, moisture

Additional brake: wear-free all-wheel braking action from hydrostatic transmission, upstream of service brake, actuated from the inching/brake pedal

Auxiliary and parking brake: mechanical, inboard wet-type multi-disc brake on the rear axle



Drive

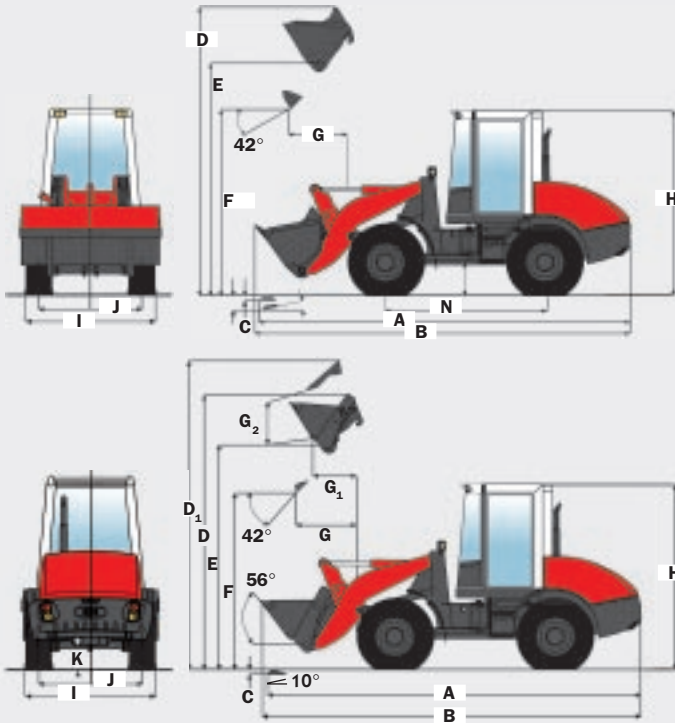
Output-controlled hydrostatic drive with automotive-like pedal layout • Automatic matching of traction and speed • Drive speed can be lowered at full engine rev with the inching pedal, simultaneously delivering more power for the equipment hydraulics. • Gears can be shifted under load.



Steering

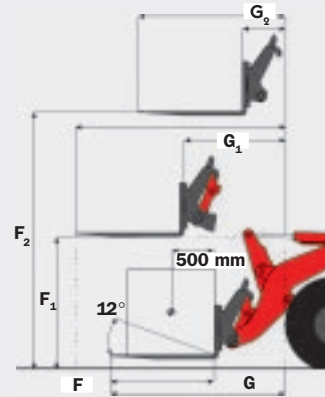
Hydrostatic mid-mounted artic frame steering acting via a single cylinder • Turning radius, outside bucket edge 3,990 mm • Emergency steering when engine not running • Artic frame bearing with play-free tensioning element connection and adjustment-free self-aligning bearing • Articulating angle, both sides 41°

Dimensions and weights



Loading bucket		
0.65 m ³ Bucket	1800 mm wide	$\gamma = 2.0 \text{ t/m}^3$ *
0.7 m ³ Bucket	1900 mm wide	$\gamma = 1.8 \text{ t/m}^3$
0.8 m ³ Bucket	1900 mm wide	$\gamma = 1.6 \text{ t/m}^3$

* with counterweight



Bottom-dump bucket		
0.65 m ³ Bucket	1900 mm wide	$\gamma = 1.8 \text{ t/m}^3$ *

* counterweight (160 kg) necessary

Fork lift
100 x 45 x 1200 mm 2B

Fork carriage
FEM II, 1450 mm wide

Dimensions with standard tyres (355/80 R18)

	0.65 m ³	0.7 m ³	0.8 m ³	0.65 m ³ Bottom-dump bucket	Fork lift
A	4920	4920	5040	4950	
B	5035	5035	5110	5080	
C	70	70	70	100	
D	3765	3765	3760	3760	
D₁				4255	
F	2450	2450	2365	2405	100
F₁					1245
F₂					2805
G	740	740	835	745	835
G₁				560	1205
G₂				760	515

Dimensions and lift capacities with standard tyres (335/80 R18)

Total weight	kg	4100	4260*
Overall height	H	2655	
Wheelbase	N	2120	
Width over tyres	I	1870	
Ground clearance	K	330	
Bucket pivot	E	3765	
Bucket pivot (bucket)	kg	1750	1875*
Payload, art. (fork lift)	S 1,25	1400	1500*
	S 1,67	1050	1125*
Lift capacity			
at ground level	kN	40,0	
Breakout force ISO 8313	kN	47,0	
* with 160 kg counterweight			

Stability factor 1.25 for tipping load on flat terrain
 Stability factor 1.67 for tipping load on uneven terrain
 Tipping load to DIN 24094
 All figures approximate



Loading equipment

Integrated hydraulic quick-hitch standard • Sealed bearings with extended lubrication intervals

Loading bucket capacity* to SAE J 742b/CECE	0.7 m ³
Bottom-dump bucket capacity* to SAE J 742b/CECE	0.65 m ³
Dump angle at max. height	42°
Rollback at ground level/carry	25° / 31°
Lifting/lowering/tilting	6.0 / 3.0 / 1.0 sec

* Stability to DIN 24094/ISO 5998/SAE J818b



Cab

Spacious, removable, elastically cushioned cab • Flat access • Wiper front and rear, with washer • Tinted panoramic window • Safety glazing • Folding window right • Operator's seat with hydraulic dampeners • Weight adjustment, seat belt • Water heater • Defroster nozzles • Ventilation options: recirculation/outside air, fresh-air filter unit • Adjustable steering wheel with instrument mount.

ROPS DIN/ISO 3471/SAE 1040 C
FOPS to DIN/ISO 3449



Capacities

Fuel tank	90 l
Hydraulics, total	55 l



Noise emissions

As per EEC test

Noise level LwA	94 dB(A)
Noise pressure LpA	72 dB(A)

Interior and outside noise emissions according to latest EC directive 95/27 (dynamic testing process) • Environmental symbol (blue angel) for "quiet construction machinery" • Machine according to German road safety regulations



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