

# Wheel Loader Specifications

# L 10.5



Service weight	5.6 t
Engine output	52 kW
Loading bucket	1.0 m <sup>3</sup>

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



**Strong, silent and long-lasting: the new L 10.5. With advanced operator comfort.**



CE seal 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





Futuristic cab with space to spare

Electric immobilizer optional

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

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

Easy accessibility for rapid maintenance

Planetary axles with multi-disc self-locking differentials front and (optionally) rear

Adjustment-free articulated joint with widely-spaced spherical bearings

Wet multi-disc brakes on the rear axle, low maintenance and unaffected by weather

Oscillating rear axle



## A new standard of comfort for more productivity

### A cab with new dimensions of comfort



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 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.

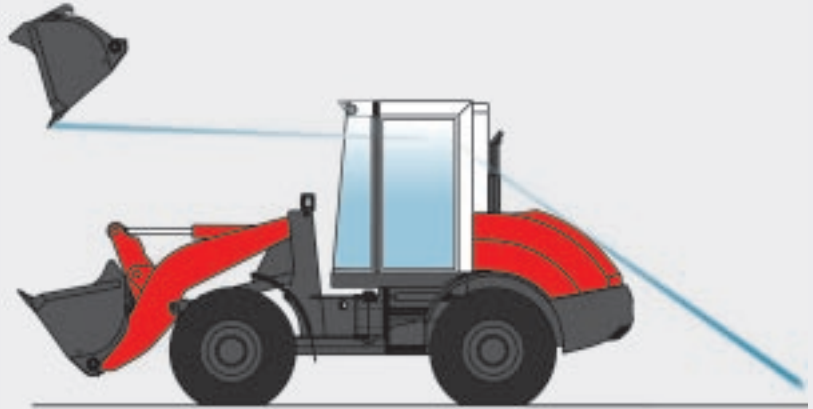
The multi-purpose lever conveniently controls lifting, lowering, rollback, dump and reversing-under-load functions. Single-handedly! All this speeds up work.

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.

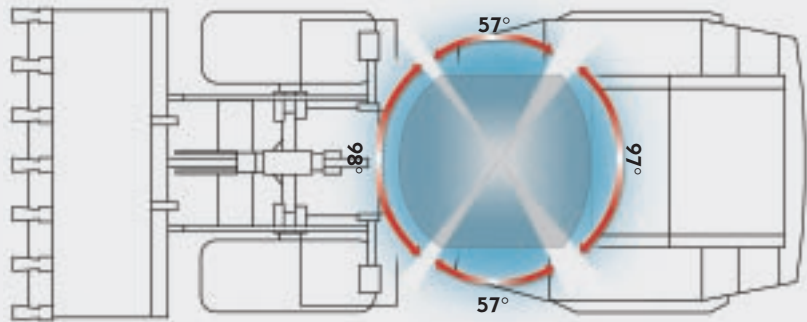


## Outstanding visibility

Visibility is exemplary and again improved over the previous L 10.5. The equipment and rear area are always in full view. The operator can even see downward between the wheels.



Practically full 360° visibility guaranteed.



## Electric immobilizer prevents theft and abuse

The L 10.5 is optionally available with an electrical immobilizer, so that the engine will only start up once a code is entered. This prevents theft after hours or during the day, of increasing occurrence on construction sites.

## Rugged frame and adjustment-free articulating joint

Modern robot welding has yielded a sturdy frame of exceptional quality, absolute precision and durability.

Widely-spaced, sealed bearings optimize force distribution for even safer operation. Elastic stops prevent damage and easy accessibility facilitates maintenance.



## Small units with big-brother features

### Responsive and rugged: the fuel-efficient Perkins engine

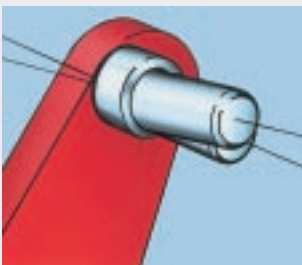
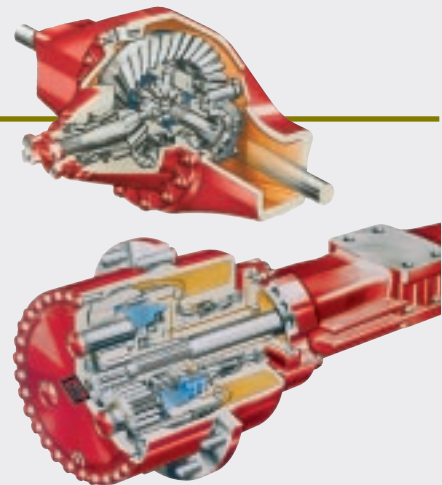


The powerful, water-cooled diesel 1004-42 is one of Perkins' newest developments, quiet and very clean. The hydrostatic ventilator ensures perfect matching to ambient conditions. The serviceable design facilitates routine maintenance.

### 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 all conditions. The brakes need very little maintenance and are unaffected by weather.

Even on difficult soil, the automatic self-locking differential assures best-possible power transfer, making life easier for the operator and giving the machine excellent ground adhesion.

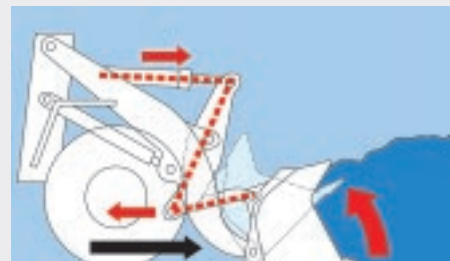


### Rugged, powerful Z-geometry

Z-geometry with one tilt cylinder delivers extraordinary breakout forces and fast dumping speeds.

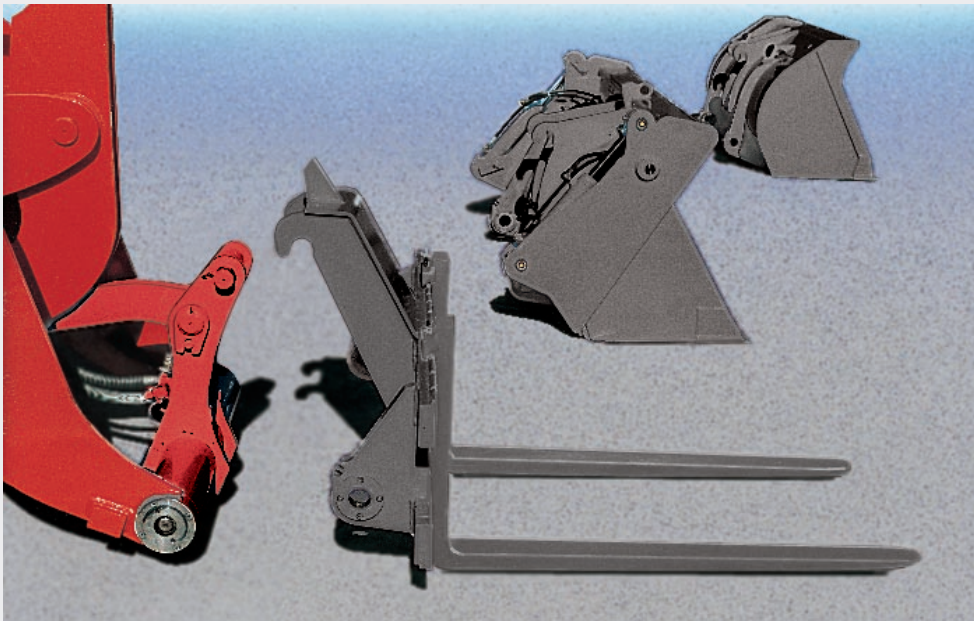
The bearings are all sealed. The articulating points on the lift frame and cylinder have spherical bearings for reduced

load even under punishing conditions. The outcome: less wear and high reliability, day in, day out.





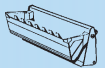
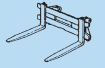






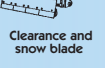


## Broad attachment range and service-friendly design



The integrated, hydraulic quick-hitch broadens the range of possible operations, turning the L 10.5 into a cost-efficient all-rounder.



Elastic stops absorb noise for reduced stress on material, operator and environment.

-  Front dump bucket
-  Forks
-  Hydraulic breaker
-  Drill
-  Slewable crane arm
-  Log grab
-  Crane arm
-  High-dump bucket
-  Side-dump bucket
-  Clearance and snow blade
-  Tyred bucket
-  Concrete mixing bucket
-  Sweeper

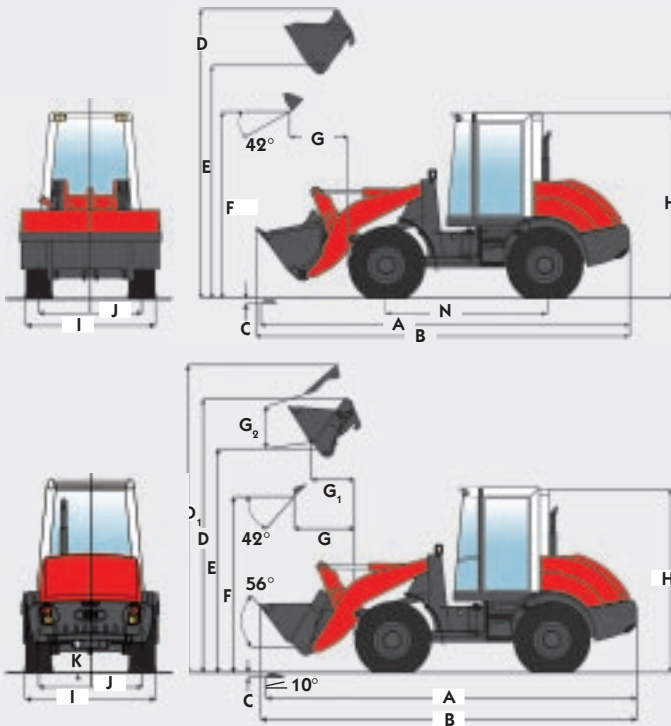
## Time-saving maintenance



The large engine hood opens up wide 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 any panelling.

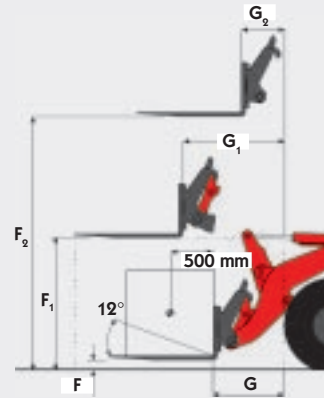


## Dimensions and weights



Loading bucket		
0.9 m <sup>3</sup> Bucket	2100 mm wide	2.0/2.2* t/m <sup>3</sup>
1.0 m <sup>3</sup> Bucket	2100 mm wide	1.8/2.0* t/m <sup>3</sup>
1.1 m <sup>3</sup> Bucket	2100 mm wide	1.6/1.8* t/m <sup>3</sup>
1.2 m <sup>3</sup> Bucket	2100 mm wide	1.4/1.6* t/m <sup>3</sup>

\* with counterweight



Bottom-dump bucket		
0.95 m <sup>3</sup> Bucket	2 100 mm wide	1.8 t/m <sup>3</sup> *

Fork lift
100 x 45 x 1200 mm 2B

Fork carriage
FEM II, 1450 mm wide

### Dimensions with standard tyres (405/70 R20)

	0.9	1.0	1.1	1.2	0.95 m <sup>3</sup> Bottom-dump bucket	Fork lift
<b>A</b>	5520	5545	5585	5640	5560	
<b>B</b>	5630	5670	5720	5800	5740	
<b>C</b>	110	110	110	110	135	
<b>D</b>	4190	4210	4250	4300	4220	
<b>D<sub>1</sub></b>					4660	
<b>F</b>	2680	2655	2625	2570	2595	100
<b>F<sub>1</sub></b>						1385
<b>F<sub>2</sub></b>						3040
<b>G</b>	870	900	935	995	935	925
<b>G<sub>1</sub></b>					695	1325
<b>G<sub>2</sub></b>					905	615

### Dimensions and lift capacities with standard tyres (405/70 R20)

Total weight	kg	5510	5710*
Overall height	<b>H</b>	2740	
Wheelbase	<b>N</b>	2350	
Width over tyres	<b>I</b>	1975	
Ground clearance	<b>K</b>		
Bucket pivot	<b>E</b>		
Tipping load, art. (bucket)	kg	2750	3000*
Payload, art. (fork lift)	S 1.25	2200	2400*
	S 1.67	1650	1800*
<b>Lift capacity</b>			
at ground level	kN	54,8	
Breakout force ISO 8313	kN	66,8	
* with 200 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





## Engine

**Perkins diesel engine** 1004-42  
Liquid-cooled naturally aspirated engine • Direct injection

<b>Engine output ISO 9249</b>	52 kW / 2200 RPM
<b>Torque at 2,200 RPM</b>	242 Nm
<b>Maximum torque at 1,400 RPM</b>	290 Nm
<b>Cylinders / displacement</b>	4 / 4200 cm <sup>3</sup>
<b>Bore / stroke</b>	103 mm / 127 mm
<b>Voltage</b>	12 V
<b>Battery</b>	12 V / 92 Ah
<b>Alternator</b>	780 W
<b>Starter</b>	2.8 kW

Exhaust emissions according to COM 95/350 Step 1  
Road traffic lighting, four halogen lamps • Cold start with glow coil



## Axles

All-wheel drive with planetary axles \* Rear axle oscillating \*  
Multi-disc self-locking differential front (rear optional)

**Axle articulation** +/- 12°=24°



## Travel speeds

Speeds in km/h with 405/70 R20 tyres

### Low range

(max. tractive force/limited travel speed) 0 – 7 km/h

### High range

(max. tractive force/max. travel speed) 0 – 20 km/h



## Hydraulics

<b>Maximum output</b>	
<b>Loading/steering hydraulics</b>	70 l/min
<b>Operating pressure, loader</b>	230 bar
<b>Operating pressure, steering</b>	175 bar



## Tyres

**Standard (radials)** 405/70 R20

Special tyres on request



## Cylinders

Double-acting lift and tilt cylinders • Operation: single-lever control with lockup for road travel, automatic central position • Float position • 3rd control circuit for quick-hitch and attachment with hydraulic function



## Brakes

**Service brakes, accumulator type:** operated hydraulically by inching/brake pedal, inboard wet multi-disc brakes for the 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 transmission with automotive-style control • Tractive force and speed are automatically adapted • Inching pedal for lowering travel speed at full engine RPM and hence added power for attachment hydraulics • On-the-go shifting



## Steering

Hydrostatic mid-mounted articulated frame steering, with 2 cylinders • Emergency steering with engine off • Articulated frame mounted in play-free tensioning elements and adjustment-free bearings • Articulating angle either side 41°



## Loading equipment

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

### Loading bucket capacity\*

to SAE J 742b/CECE 0.9 / 1.0 / 1.1 / 1.2 m<sup>3</sup>

### Bottom-dump bucket capacity\*

to SAE J 742b/CECE 0.95 m<sup>3</sup>

Fork lift 1200 mm

Dump angle at max. height 42°

### Roll-back

at ground level / carry 45° / 55°

Lift / lower / tilt 6.6 / 3.5 / 1.1 Sekc.

\* Stability to DIN 24094/ISO 5998/SAE J818b



## Cab

Spacious, elastically cushioned cab • Flat access • Wiper front and rear, with washer • Tinted panoramic windscreen • Safety glass • Folding window, right • Hydraulically cushioned, weight-adjustable seat, with lap belt • Water heater • Defroster nozzles • Ventilation option: recirculating or outside air, with fresh-air filter • Steplessly adjustable steering wheel

"ROPS" to DIN/ISO 3471/SAE 1040 C

"FOPS" to DIN/ISO 3449



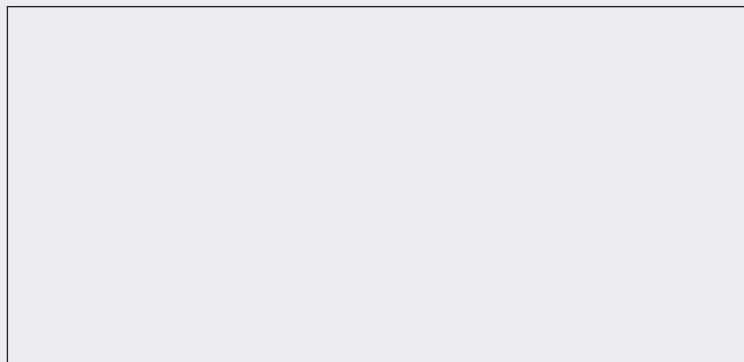
## Capacities

Fuel 100 l

Hydraulics, total 70 l



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