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## STANDARD EQUIPMENT

- Acoustic warnings
- Plugs with keys for fuel and hydraulic tanks
- Bucket with welded teeth
- ROPS-FOPS- cab with heater, pressurizer circulating fan, with front and rear windscreen wiper and windshield washer
- Tool box
- Spare parts catalogue
- Seat belt
- Limited slip differential on front and rear axle
- Safety clamp for lifting cylinders
- Negative hydraulic parking brake

- Electrical index for bucket position
- Working lights
- Draw bar hook
- Soundproofing
- Yellow rotating and overturning beacon
- Operation and maintenance manual
- Type-approval for road traffic
- Side rearview mirrors
- Complete instrument board
- Electrical opening of the engine cover

## OPTIONAL EQUIPMENT

- Hydraulic or mechanical quick coupler
- Cement mixing bucket
- Multipurpose bucket (4 in 1)
- Speed reduction kit
- Lifting forks
- Asphalt and cement planer

- Snow blower
- "V" type snow blade
- Angle-tilt dozer blade
- Hand operating hammer
- Polishing brush
- Trencher wheel

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# 18.63

## WHEEL LOADER ▶ “Z” LINKAGE

### ▶ DIESEL ENGINE

Engine: 6 cylinder, turbo-charged with intercooler, direct injection, water cooling, paper dry filter. Emissioned according to CEE 97/68 – stage IIIA.

Type	Perkins 1106D-E66TA
Max power	165kW - 225 HP
Rated rpm	2.200
Net power ISO/TR 14396	151,5 kW - 206 HP
Net power EEC/80/1269	151,5 kW - 206 HP
Bore	105 mm
Stroke	127 mm
Displacement	6.600 cm <sup>3</sup>

### ▶ ELECTRIC SYSTEM

Battery	12 Volt
Capacity EN 60095-1	200 Ah - 1.350 A
Alternator rating	110 A
Reverse warning	Standard
Wiring according to	IP 67 e DIN 40050

### ▶ TRANSMISSION

Hydrostatic transmission with automatic power regulation and closed circuit with variable displacement pumps and two motors. Three forward/reverse speed with fully automatic gear shift and single-lever control. Gear box with automatic gears and clutch to disconnect one motor in travelling speed.

		FORWARD	REVERSE
1 <sup>st</sup> Gear	Km/h	0 - 8	0 - 8
2 <sup>nd</sup> Gear	Km/h	0 - 22	0 - 22
3 <sup>rd</sup> Gear	Km/h	0 - 40	0 - 40

### ▶ AXLES

Two heavy duty ZF axles with planetary final drivers in each wheel. Rigid drive axle on front chassis section. Oscillation drive axle on rear chassis section up to a total angle of 20°. Transfer gear box transferring movement directly to the rear and to the front axle via a transmission shaft. Self-locking limited slip differential on front and rear axle.

### ▶ BRAKES

Service: hydraulic multi-disc oil brake on each wheel.  
Parking: hydraulic negative disc brake actuated by electric control and automatically when the machine is turned off.

### ▶ TYRES

Standard	23.5 R25
Optional	23.5 - 25

### ▶ STEERING

Servo-assisted steering **LOAD SENSING** system with separated pump.

Total steering angle	80°
Inner tyres turning radius	3.450 mm
External tyres turning radius	6.150 mm
External bucket turning radius	6.900 mm



### ▶ HYDRAULIC SYSTEM

Single variable displacement piston pump with power control “PCS” for the loader, second gear pump for the steering circuit. Selector switch to control arm movement speed. Modular 2-element control valve. Double acting hydraulic cylinders. Hydraulic oil cooling radiator. Full-flow oil filter on the leakage pipe. Single servo-lever-arm-control with 4-position lifting system and with 3-position bucket system.

Max flow	240 lt/1'
Loader relief valve pressure	280 bar
Steering relief valve pressure	210 bar
Lift cylinder	140 x 750
Bucket cylinder	160 x 480

### ▶ SERVICES CAPACITIES

Engine	20 lt
Gearbox	3,5 lt
Differential	35 lt
Hydraulic circuit	222 lt
Fuel	268 lt
Water cooling	30 lt

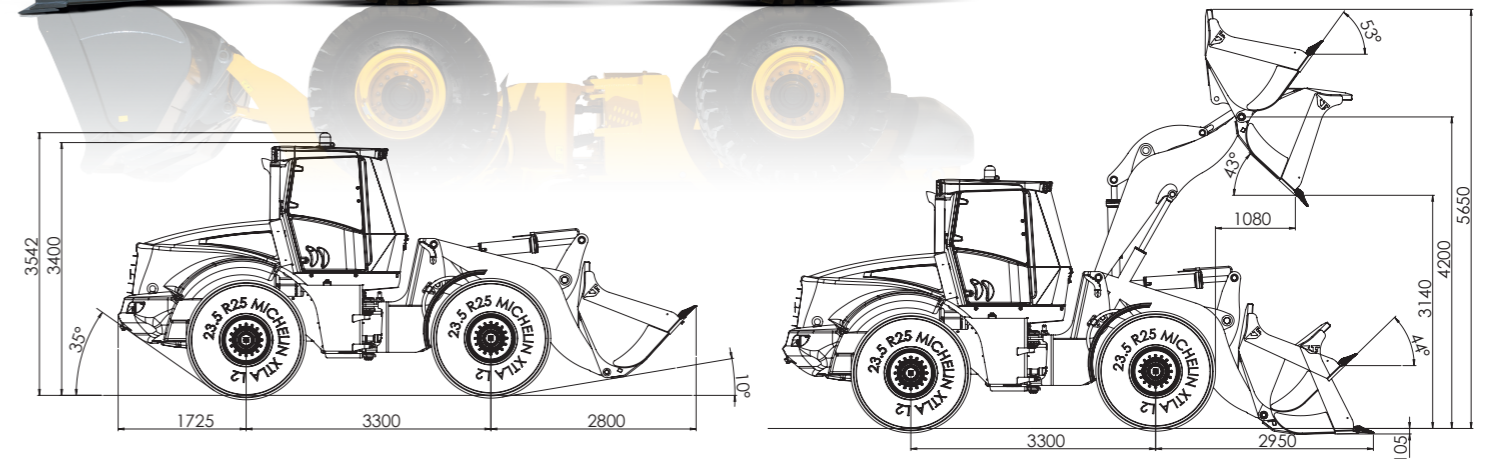
### ▶ TECHNICAL FEATURES

Standard bucket capacity	3,5 m <sup>3</sup>
Bucket width	2.900 mm
Straight static tipping load	15.500 kg
Full turned 40° tipping load	13.800 kg
Lifting capacity at max. height	12.870 kg
Dump clearance	4.200 mm
Dump height at 43°	3.140 mm
Reach at 43°	1.080 mm
Breakout force	15.620 kg

### ▶ DIMENSIONS AND WEIGHT

Max length in transfer position	8.000 mm
Max width in transfer position	2.900 mm
Max Height	3.400 mm
Track width	2.100 mm
Overall tyre width	2.700 mm
Wheel base	3.300 mm
Ground clearance	530 mm
Standard operating weight	18.500 kg
Max operating weight	22.000 kg

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### ▶ PERFORMANCE DATA

		UNIVERSAL BUCKET	ROCK	OVERSIZE	FORKS
Full load bucket capacity (SAE)	m <sup>3</sup>	3,5	3,0	5,0	
Bucket width	mm	2.900	2.900	3.000	
Bucket weight	kg	1.450	1.400	1.650	
Max operative height	mm	5.650	5.550	5.800	
Forks lengthh (Standard)	mm				1.100
Forks lengthh (optional)	mm				1.300
Bucket pin height	mm	4.200	4.200	4.200	
Dump clearance	mm	43°	43°	43°	
Dump height	mm	3.140	3.200	3.000	
Dump distance	mm	1.080	1.050	1.250	
Max dump distance	mm	2.250	2.150	2.350	
Bucket static tipping load, straight	kg	15.500	16.000	14.400	
Bucket static tipping load, full turn (40°)	kg	13.800	14.200	12.600	
Forks static tipping load, full turn (40°)	kg				8.200
Forks Payload EN 474-3 (80%)	kg				6.600
Forks Payload EN 474-3 (60%)	kg				5.000
Breakout force	kg	15.620	16.000	13.200	
Total length	mm	8.000	7.850	8.150	
External bucket turning radius	mm	6.900	6.850	7.050	
Total weight	kg	18.500	18.350	18.700	