



13.63C

WHEEL LOADER "Z" LINKAGE



DIESEL ENGINE

6-cylinder in-line engine, supercharged, charge air cooling, common rail injection with electronic control, exhaust gas recirculation, water cooled, dry filtration, diesel oxidation catalyst (DOC), diesel particulate filter (DPF) selective catalytic reduction (SCR). Emissioned according to CEE 97/68 – Stage V/Tier4f.

Type	Deutz TCD 6.1 L6
Max power	135 kW - 184 HP
Rated rpm	2.200
Power ISO/TR 14396	129 kW - 175 HP
Power EEC 80/1269	129 kW - 175 HP
Max torque	Nm 750
Bore	mm 101
Stroke	mm 126
Displacement	cm³ 6.057

ELECTRIC SYSTEM

Electrical system	12 Volt
Engine start	24 Volt
Battery	2x12 Volt
Capacity EN 60095-1	200 Ah - 850 A
Alternator rating	100 A
Reverse warning	Standard
Wiring according to	IP 67 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 st gear km/h	0÷8	0÷8
2 nd gear km/h	0÷17	0÷17
3 rd gear km/h	0÷40	0÷40

AXLES

Two heavy duty 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, optional on rear axle.

BRAKES

Service: hydraulic multi-disc oil brake on each wheel.
Parking: negative hydraulic on rear, electrically applied.

TYRES

Standard	20.5 - 25
Optional	20.5 R25 / 620/70 R26

STEERING

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

Total steering angle	mm 80°
Inner tyres turning radius	mm 3.130
External turning radius	mm 5.500
External bucket turning radius	mm 6.150

HYDRAULIC SYSTEM

Single variable displacement piston pump with power control "P.C.S." 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 with fan having a double speed of rotation. 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	lt/1'	195
Loader relief valve pressure	bar	280
Steering relief valve pressure	bar	210
Lift cylinder	mm	120x750
Bucket cylinder	mm	130x485

SERVICE CAPACITIES

Engine	lt	15,5
Front Differential	lt	20,5
Rear Differential	lt	20,5
Gearbox	lt	3,5
Hydraulic circuit	lt	201
Fuel	lt	275
Water cooling	lt	30
AdBlue	lt	20

TECHNICAL FEATURES

Standard bucket capacity	m³	2,7
Bucket width	mm	2.540
Straight static tipping load	kg	10.800
Full turned 40° tipping load	kg	9.600
Lifting capacity at max. height	kg	10.500
Dump clearance	mm	3.950
Dump height at 42°	mm	3.050
Reach at 42°	mm	1.050
Breakout force	kg	12.000

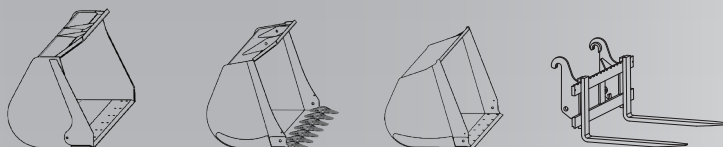
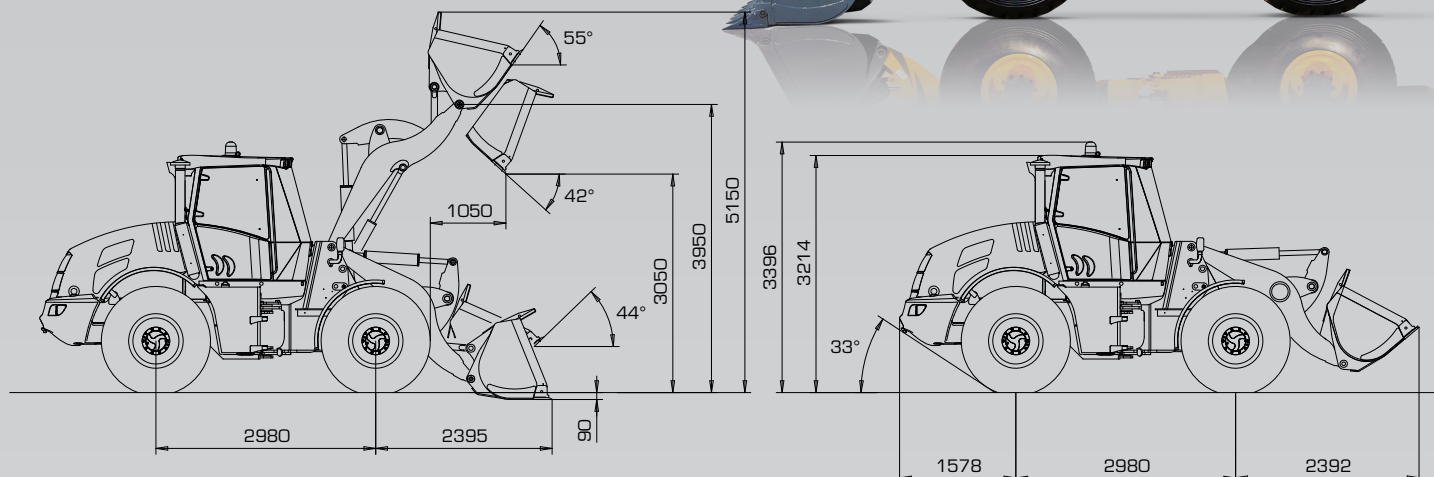
DIMENSIONS AND WEIGHT

Max lenght in transfer position	mm	6.950
Max width in transfer position	mm	2.540
Max Height	mm	3.214
Track width	mm	1.850
Overall tyre width	mm	2.380
Wheel base	kg	2.980
Ground clearance	kg	455
Standard operating weight	kg	13.700
Max permissible weight	kg	15.310



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PERFORMANCE DATA

		STANDARD	ROCK	OVERSIZE	FORK
Full load bucket capacity	m ³	2,7	2,2	3,0	
Bucket width	mm	2.540	2.540	2.540	
Bucket weight	kg	900	850	950	
Max operative height	mm	5.150	5.100	5.225	
Bucket pin height	mm	3.950	3.950	3.950	
Dump clearance	°	42°	42°	42°	
Dump height	mm	3.050	3.100	3.017	
Dump distance	mm	1.050	994	1.087	
Max dump distance	mm	2.025	1.969	2.062	
Straight tipping load	kg	10.800	11.000	10.400	
Full turned tipping load	kg	9.600	9.700	9.200	
Breakout force	kg	12.000	12.973	11.478	
Total length	mm	6.950	6.825	7.075	
External bucket turning radius	mm	6.150	6.125	6.200	
Standard operating weight	kg	13.700	13.650	13.750	
Forks static tipping load, full turn	kg				7.000
Payload EN 474-3 (80%) [•]	kg				5.600
Payload EN 474-3 (60%) [•]	kg				4.200
Payload DIN 24094 (50%) [•]	kg				3.500

[•] Center of gravity 500mm



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