



# 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 CV
Rated rpm	2.200
Power ISO/TR 14396	129 kW - 175 CV
Power EEC 80/1269	129 kW - 175 CV
Max torque	Nm 750
Bore	mm 101
Stroke	mm 126
Displacement	cm <sup>3</sup> 6.057



### ELECTRICAL SYSTEM

Electrical system	12 Volt
Engin start	24 Volt
Capacity EN 60095-1	100 Ah - 800 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.

Work speed	Forward	Reverse
1 <sup>st</sup> gear km/h	0 ÷ 8	0 ÷ 8
2 <sup>nd</sup> gear km/h	0 ÷ 17	0 ÷ 17
3 <sup>rd</sup> 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 - R 25
Optional	20.5 - 25 / 620 / 70 R26



### STEERING

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

Total steering angle	76°
Inner tyres turning radius	mm 3.145
External turning radius	mm 5.570
External bucket turning radius*	mm 6.150

\* Transfer position



### 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'	185
Loader relief valve pressure	bar	280
Steering relief valve pressure	bar	210
Lift cylinder	mm	120x750
Bucket cylinder	mm	130x428



### SERVICE CAPACITIES

Engine	lt	15,5
Front differential	lt	16,5
Rear differential	lt	16,5
Gearbox	lt	6
Hydraulic circuit	lt	200
Fuel	lt	310
Water cooling	lt	30
Adblue	lt	20



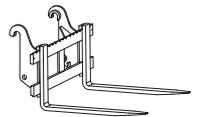
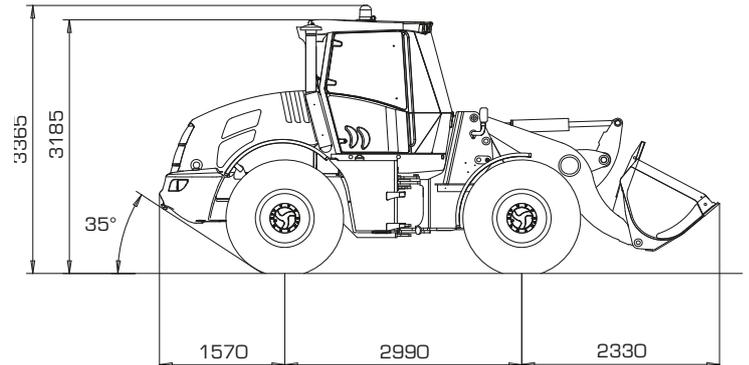
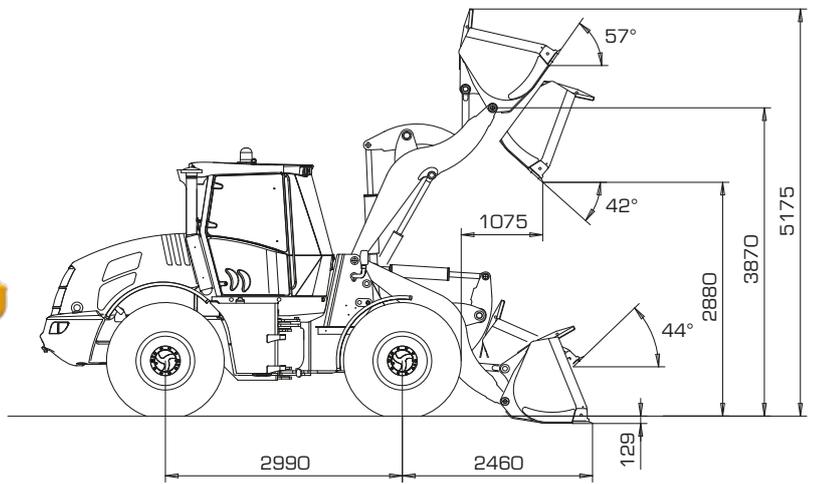
### TECHNICAL FEATURES

Standard bucket capacity	m <sup>3</sup>	2,5
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	10.350
Hinge pin height	mm	3.870
Dump height at 42°	mm	2880
Reach at 42°	mm	1.075
Breakout force	kg	12.000



### DIMENSIONS & WEIGHTS

Max length in transfer position	mm	6.890
Max width in transfer position	mm	2.540
Max height	mm	3.185
Track width	mm	1.850
Overall tyre width	mm	2.398
Wheel base	mm	2.990
Ground clearance	mm	450
Standard operating weight	kg	13.700
Max permissible weight	kg	15.310



**PERFORMANCE DATA**

**STANDARD**

**ROCK**

**OVERSIZE**

**FORKS**

Full load bucket capacity	m <sup>3</sup>	2,5	2,2	3,0	
Bucket width	mm	2.540	2.540	2.540	
Bucket weight	kg	950	900	1.050	
Overall operating weight, fully raised	mm	5.175	5.100	5.235	
Hinge pin height	mm	3.870	3.870	3870	
Dump angle	°	42°	42°	42°	
Dump height	mm	2.880	3.100	2.630	
Dump distance	mm	1.075	994	1.275	
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	8.650	
Total length	mm	6.890	6.825	7.155	
External bucket radius	mm	6.150	6.125	6.190	
Standard operating weight	kg	13.700	13.650	13.800	
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 500 mm

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