



18.63 PLUS

WHEEL LOADER "Z" LINKAGE



DIESEL ENGINE

6-cylinder in-line engine, turbocharged, Deutz Common Rail (DCR), water-cooled, dry filtration.
Emissioned according to CEE 97/68 – Stage IIIA/Tier3.

Type	Deutz TCD 2012 L06	
Max. power	163 kW - 221 HP	
Rated rpm	2.300	
Power ISO/TR 14396	155 kW - 211 HP	
Power EEC 80/1269	155 kW - 211 HP	
Max. torque	Nm	810
Bore	mm	101
Stroke	mm	126
Displacement	cm ³	6.067



ELECTRIC SYSTEM

Battery	12 Volt	
Capacity EN 60095-1	180 Ah - 1100 A	
Alternator rating	150 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 gear and clutch to disconnect of one motor during travelling speed.

Work speed	Forward	Reverse
1 st gear km/h	0÷8	0÷8
2 nd gear km/h	0÷22	0÷22
3 rd 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	20.5 R25 / 620/70 R26



STEERING

Servo-assisted steering LOAD SENSING system with separated pump.

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

* Bucket on traveling condition



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 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'	260
Loader relief valve pressure	bar	280
Steering relief valve pressure	bar	210
Lift cylinder	mm	140x750
Bucket cylinder	mm	160x480



SERVICE CAPACITIES

Engine	lt	15,5
Front axle	lt	35
Rear axle	lt	35
Gearbox	lt	6
Hydraulic circuit	lt	222
Fuel	lt	268
Water cooling	lt	30



TECHNICAL FEATURES

Standard bucket capacity	m ³	3,7
Bucket width	mm	2.900
Straight static tipping load	kg	16.670
Full turned 40° tipping load	kg	12.900
Lifting capacity at max. height	kg	12.450
Dump clearance	mm	4.200
Dump height at 43°	mm	3.095
Reach at 43°	mm	1.120
Breakout force	kg	14.900



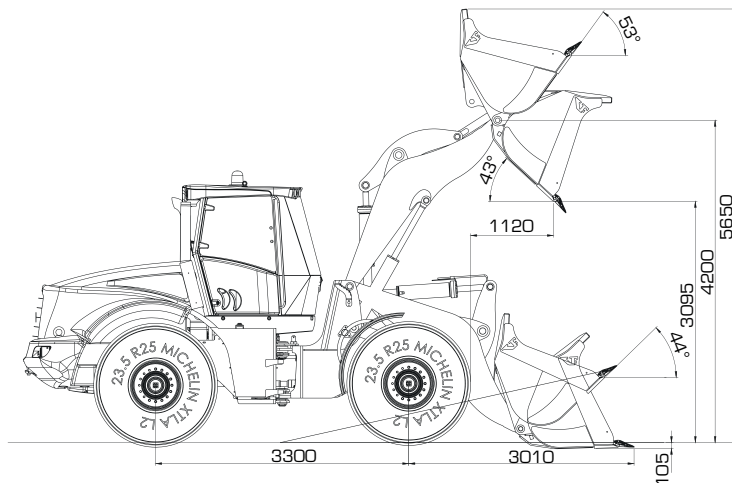
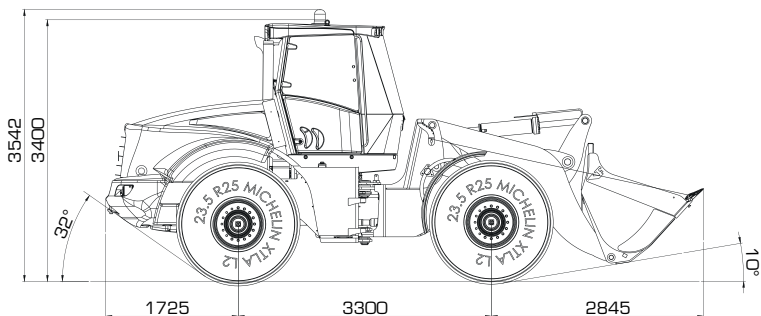
DIMENSIONS AND WEIGHT

Max length in transfer position	mm	8.000
Max width in transfer position	mm	2.900
Max Height	mm	3.400
Track width	mm	2.100
Overall tyre width	mm	2.700
Wheel base	mm	3.300
Ground clearance	mm	530
Standard operating weight	kg	19.900
Max permissible weight	kg	22.000

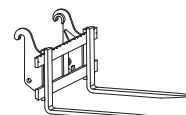


18.63 PLUS

WHEEL LOADER "Z" LINKAGE



UNIVERSAL BUCKET



FORKS



PERFORMANCE DATA

Full load bucket capacity (SAE)	m ³	3,7	
Bucket width	mm	2.900	
Bucket weight	kg	1.480	
Max operative height	mm	5.650	
Forks lengthh (Standard)	mm		1.100
Forks lengthh (Standard)	mm		1.300
Height to hinge pin	mm	4.200	
Dump angle	°	43°	
Dump height	mm	3.095	
Dump clearance	mm	1.120	
Bucket static tipping load, straight	kg	16.670	
Bucket static tipping load, full turn (40°)	kg	12.900	
Forks static tipping load, full turn (40°)	kg		8.600
Forks Payload EN 474-3 (80%)	mm		6.880
Forks Payload EN 474-3 (60%)	mm		5.160
Breakout force	kg	14.900	
Total lenght	kg	8.000	
External bucket turning radius	kg	6.900	
Standard operating weight	kg	19.900	



Venieri

Via Piratello, 106 - 48022 Lugo (RA) ITALY
 Tel. +39 0545 904411 Fax +39 0545 30389
 e-mail: info@vf-venieri.com www.vf-venieri.com
Spare parts
 Tel. +39 0545 904429 Fax +39 0545 24555

The illustrations on the present folder do not necessarily show the product standard version. Data and dimensions described in this folder are not binding. Venieri reserves the right of carrying out possible changes at any time and without previous notice because of its policy of steady development and improvement of the products.

(2017) UP 1863PLUS_A-EN