

Venieri 9.63D+

Z KINEMATICS



DIESEL ENGINE

4 in-line cylinders, supercharged, charge air cooling, electronically controlled, common-rail injection, exhaust gas recirculation, water cooling, dry filtration, oxidation catalyst (DOC) particulate filter (DPF) and selective catalytic reduction (SCR). Issued according to EC Directive 97/68 - Stage V/Tier 4f.

Type	Deutz TCD 3.6 L4
Max. power	105 kW - 143 HP
Calibration (RPM)	2.300
ISO/TR 14396 power	100 kW - 136 HP
EEC 80/1269 power	100 kW - 136 HP
Maximum torque	Nm 500
Bore	mm 98
Stroke	mm 120
Displacement	cm³ 3.620



ELECTRIC SYSTEM

Battery	12 Volt
Capacity	110 Ah - 850 A
Alternator	95 A
Reverse gear alarm	Standard
Cabling compliant with regulations	IP 67 - DIN 40050



TRANSMISSION

Hydrostatic with electronic power regulation and closed circuit with variable displacement pump and motor.

4 driving modes: Automotive, Work, Eco and Smart Forward Motion*. 2-speed mechanical gearbox with mechanical speed ratio variation (Shift On Fly).

2 Work Speeds	Forward	Reverse
1 st gear km/h	0 ÷ 6	0 ÷ 6
2 nd gear km/h	0 ÷ 16	0 ÷ 16

2 Transfer Speeds	Forward	Reverse
1 st gear km/h	0 ÷ 14	0 ÷ 14
2 nd gear km/h	0 ÷ 40**	0 ÷ 40**

* Optional, on request. ** Self-limited maximum speed



AXLES

Heavy Duty axles of the same size with epicyclic final reduction gears on each wheel. Rigid front axle.

Oscillating rear axle with 25° travel.

Distribution of the movement to the two front and rear axles by means of cardan shafts. Automatic self-locking differential on the front axle (optional on the rear).



BRAKING SYSTEM

Service brake: hydraulic multi-disc oil bath on the front and rear axles.

Parking brake: negative hydraulic, electrically operated, on the front axle.



TIRES

Standard	600/65 R25
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STEERING SYSTEM

Power assisted steering by LOAD SENSING power steering.

Steering angle	80°
Tire inner turning radius	mm 2.733
Tire outer turning radius	mm 4.908
Bucket outer turning radius*	mm 5.406

* in transfer position



HYDRAULIC SYSTEM

Comprising two gear pumps, the first for the loader and steering circuit with LOAD SENSING valve, the second for the fan circuit, having a double rotation speed

Modular 2-section distributor with general valve.

Double acting jacks. Hydraulic oil cooling radiator.

Full-flow filter on the return circuit.

Single lever servo control for 4-position lifting control and 3-position bucket control.

Max flow rate	lt/1'	155
Loader calibration pressure	bar	230
Steering calibration pressure	bar	175
Lifting jacks	mm	100x815
Bucket jacks	mm	120x380
Lifting time (full)	sec.	4.6
Lowering time (empty)	sec.	3.5
Unloading time	sec.	1.8
Total cycle time	sec.	9.9



FLUIDS & LUBRICANTS

Engine	lt	8
Front differential	lt	17,6
Rear differential	lt	11,9
Reduction gear/adaptor	lt	1,8
Hydraulic circuit	lt	128
Brake circuit	lt	1,1
Fuel	lt	155
Water radiator	lt	20
AdBlue	lt	20



TECHNICAL FEATURES

Standard bucket capacity	m³	1,8
Bucket width	mm	2.350
Static tipping load on a horizontal surface	kg	6.200
Static tipping load turned 40°	kg	5.500
Hydraulic lifting capacity at max. height	kg	6.900
Hinge pin height	mm	3.700
Dump height at 40°	mm	2.900
Dump distance at 40°	mm	815
Breakout force	kg	8.600

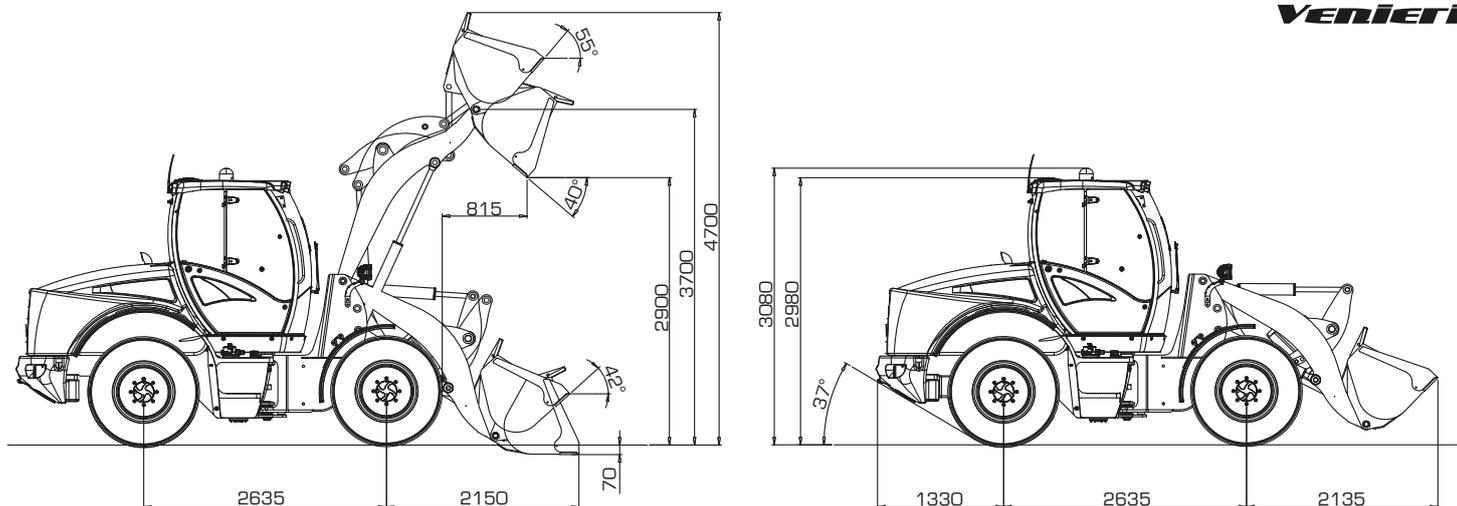


DIMENSIONS & WEIGHTS

Max length in transfer position	mm	6.100
Max. width in transfer position	mm	2.350
Tire outer width	mm	2.195
Tread width	mm	1.750
Pitch	mm	2.635
Clear span	mm	380
Max height	mm	2.980
Standard operating weight	kg	9.000
Maximum permissible weight	kg	11.350

dB NOISE LEVEL

Noise level inside cabin ISO 6396 - LpA	dB(A)	69
External noise level ISO 6395 - LwA	dB(A)	99



PERFORMANCE DATA



STANDARD

MULTIPURPOSE

OVERSIZE

FORKS

		STANDARD	MULTIPURPOSE	OVERSIZE	FORKS
Heaped Bucket Capacity (SAE)	m ³	1,8	1,3	2,2	/
Bucket width	mm	2.350	2.350	2.500	/
Bucket weight	kg	650	750	750	/
Max operating height	mm	4.700	4.646	4.796	/
Fork length (standard)					1000
Fork length (optional)					1300
Hinge pin height	mm	3.700	3.700	3700	/
Dump angle	°	40°	40°	40°	/
Dump height	mm	2.900	2.950	2.833	/
Dump distance	mm	815	800	924	/
Static tipping load on a horizontal surface	kg	6.200	6.300	6.000	/
Static tipping load - mach. turned	kg	5.500	5.600	5.300	/
Fork tipping load - mach. turned	kg				4.600
Operating load EN 474-3 (80%) [•]	kg				3.680
Operating load EN 474-3 (60%) [•]	kg				2.760
Breakout force	kg	8.600	9.600	7.800	/
Max length in transfer position	mm	6.100	6.045	6.175	/
Bucket outer turning radius	mm	5.406	5.381	5.531	/
Standard operating weight	kg	9.000	9100	9.100	/

[•] Load center at 500 mm

MOST COMMON OPTIONAL TIRES | OTHER TIRES UPON REQUEST



**500/70 R24
MICHELIN XCML**

Long-life agricultural tire with high traction and high load capacity.

Machine width:
2.351 mm



**15,5 R25
MICHELIN XTLA**

High traction multi-purpose L2 tire.

Machine width:
2.209 mm



**15,5 x 25 CAMSO
LOADMASTER L3**

Optimized for multi-surface; high resistance to lateral impact and improved stability.

Machine width:
2.127 mm



**17,5 R25 AEOLUS
A2233 L5**

L5 tire with compound resistant to cut and impact. Very low puncture risk. Tread designed for exceptional traction and stability.

Machine width:
2.205 mm



**17,5 R25 MICHELIN
XMINE D2 L5**

Ideal tire for heavy loads, high strength and excellent traction/adhesion compromise.

Machine width:
2.240 mm



**17,5 R25
NOKIAN GRS**

All-season tire, ideal for winter conditions. Good driving comfort.

Machine width:
2.198 mm