PRELIMINARY

22.03

WHEEL LOADER
INVERTED Z-BAR LINKAGE

Venieri SPA

DIESEL ENGINE

3 cylinder in line engine, turbocharged, common-rail injection with electronic control, water cooled.
Emissioned according to CE 97/68 - Stage V/Tier 4f

Type		Kohler KSD 1403-TC
Max power		18.9 kW - 25.7 HP
Rated rpm		2.600
Max torque	Nm	105
Bore	mm	81
Stroke	mm	90
Displacement	cm^3	1.391

ELECTRIC SYSTEM

Battery	12 Volt
Capacity	80 Ah - 680 A
Alternator	45 A
Reverse warning	Standard
Wiring according to	IP 67 - DIN 40050

TRANSMISSION

Hydrostatic transmission with automatic power regulation and closed circuit with variable-displacement pump and engine. Two forward/reverse speeds with single-lever control.

STD	*Forward*	*Backward*
1st gear km/h	0÷7	0÷7
2nd gear km/h	0÷25	0÷25

Automatic 2nd gear selection optional.

AXLES

Two heavy-duty axles with planetary reduction hubs on each wheel.
All-wheel drive.
Rigid front axle. Oscillating rear axle with 12.5° articulation.
Transfer case on the rear axle transmitting drive to both front and rear axles via propeller shaft.
Proportional limited-slip differential on the front axle (optional on the rear axle).

BRAKES

Service brake: hydraulic drum brake on the front axle, acting on all four wheels. Parking brake: mechanically operated, manually actuated, acting on the service brake.

TYRES

Standard	12-16,5
Optional	10/75 - 15.3 • 31-15,5-15 • 420/55 R17

STEERING

Servo assisted steering hydraulic **LOAD SENSING** system.

Total steering angle		72°
Inner tyres turning radius	mm	1.994
External tyres turning radius	mm	3.380
External bucket turning radius*	mm	3.626

** in transfer position*

HYDRAULIC CIRCUIT

Single gear pump with LOAD-SENSING priority valve dedicated to the steering circuit.
Modular 3-section control valve with main relief valve.
Double-acting cylinders.
Hydraulic oil cooler and full-flow return-line filter.
Single joystick control featuring 4-position lift, 3-position bucket operation, and push-button auxiliary control.

Max flow	lt/1'	36,4
Loader relief valve pressure	bar	200
Steering relief valve pressure	bar	140
Lift cylinders	mm	90x580
Bucket cylinders	mm	90x270

SERVICE CAPACITIES

Engine (including filter)	lt	5,37
Front axle	lt	3,8
Rear axle + gearbox	lt	4,1
Hydraulic circuit	lt	38
Brake circuit	lt	1
Fuel	lt	44
Water cooling	lt	7

TECHNICAL FEATURES*

Standard bucket capacity	m^3	0,45
Standard bucket width	mm	1.400
Straight static tipping load	kg	1.600**
Full turned 36° tipping load	kg	1.450**
Lift capacity at full height	kg	1.900
Breakout force	kg	4.200
Hinge pin height	mm	2.860
Dump height at 39°	mm	2.250
Dump distance at 39°	mm	381

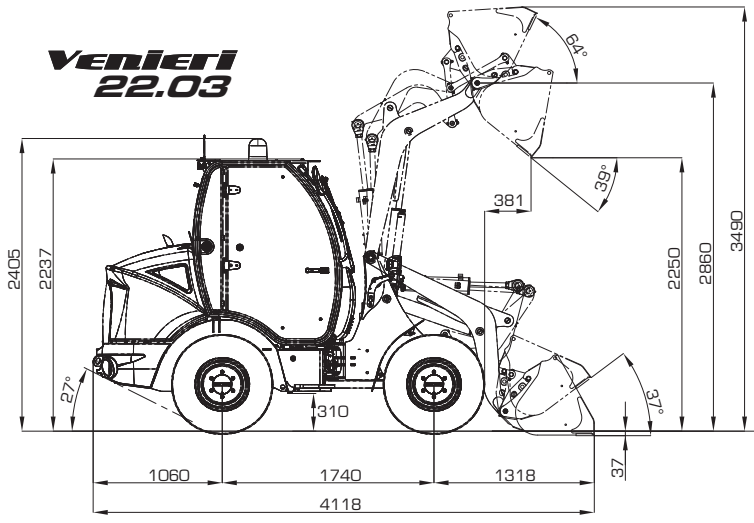
** Loads and dimensions refer to standard tyres.*
*** Loads based on standard configuration without additional manual counterweight.*

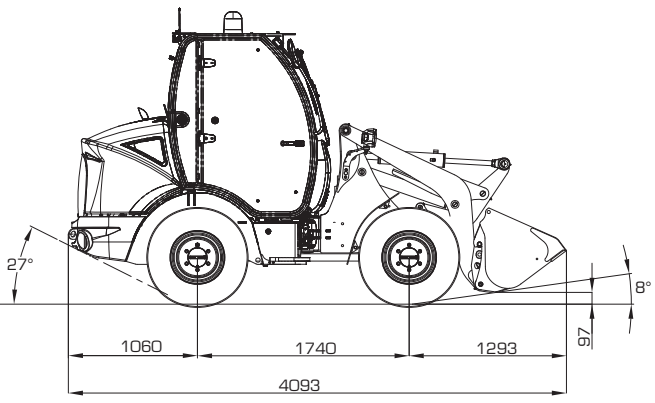
DIMENSIONS AND WEIGHT

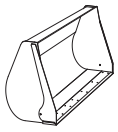
Max lenght in transfer position	mm	4.118
Max width in transfer position	mm	1.400
Max height	mm	2.405
Track width	mm	1.010
Overall tyre width	mm	1.340
Ground clearance	mm	310
Wheel base	mm	1.740
Standard operating weight	kg	2.200
Max permissible weight	kg	/

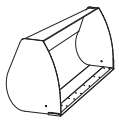
The illustrations on this leaflet do not necessarily show the product standard version. Data and dimensions described in this folder are not binding.
Venieri reserves the right of carrying out possible changes at any time and without previous notice because of its policy of steady developement and improvement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

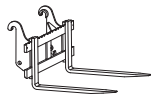
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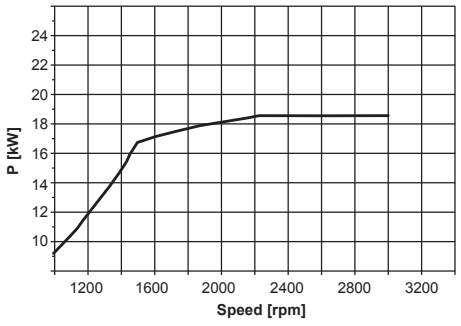


PERFORMANCE DATA

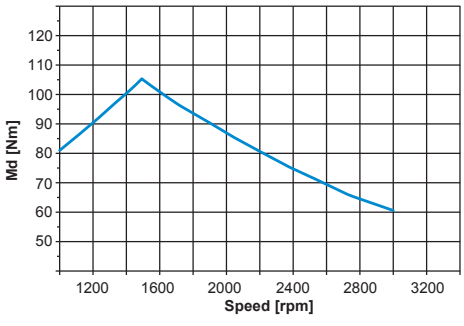
		UNIVERSAL BUCKET	OVERSIZE BUCKET	FORKS
Full load bucket capacity (SAE)	m^3	0,45	/	/
Density	t/m^3	1,8	/	/
Bucket width	mm	1.400	/	/
Bucket weight	kg	120	/	/
Overall operating height, fully raised	mm	3.490	/	/
Forks lenghth (standard)	mm			1.000
Forks lenghth (optional)	mm			/
Hinge pin height	mm	2.860	/	/
Dump angle	°	39°	/	/
Dump height	mm	2.250	/	/
Dump distance	mm	380	/	/
Bucket static tipping load, straight	kg	1.600*	/	/
Bucket static tipping load, full turn (36°)	kg	1.450*	/	/
Forks static tipping load, full turn (36°)	kg			1.150*
Payload EN 474-3 (80%) [•] - full turn	kg			900*
Payload EN 474-3 (60%) [•] - full turn	kg			700*
Breakout force	kg	4.200	/	/
Total displacement lenght	mm	4.118	/	/
External bucket turning radius	mm	3.626	/	/
Standard operating weight	kg	2.120	/	2.100

*[•]Loading center 500mm *All dimensions are referred to machine equipped with standard tyres and configured without rear manual counterweights (200 kg)*

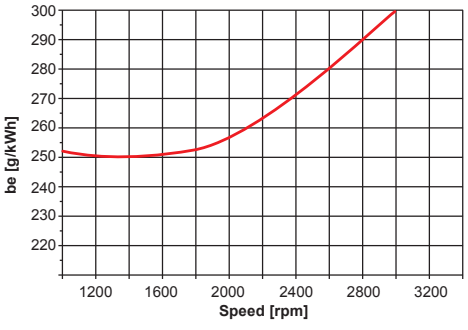
POWER



TORQUE



FUEL CONSUMPTION



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100% MADE IN ITALY
MOTOR VALLEY
QUALITY SYSTEM CERTIFICATION DNV ISO 9001
ENVIRONMENTAL SYSTEM CERTIFICATION DNV ISO 14001

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