

DIESEL ENGINE

Engine :4 cylinder, turbo-charged with intercooler, direct injection diesel engine , water-cooled, paper dry filter. Emissioned according to CEE 97/68 stage IIIA

Type	Perkins 1104D-44TA
Max power	87 kW - 118 CV
Rated rpm	2200
Net power ISO 14396	83 kW - 113 CV
Net power EEC/ 80/1269	83 kW - 113 CV
Bore	mm 105
Stroke	mm 127
Displacement	cm ³ 4400

ELETTRIC SYSTEM

Battery	12 Volt
Capacity EN 60095-1	110 Ah - 1100 A
Alternator rating	65 A
Reverse warning	Standard
Wiring according with	IP 67 e DIN 40050

TRANSMISSION

Hydrostatic transmission with automatic power regulation and closed circuit with variable displacement pump and two motors

Four forward/reverse speeds with single lever control.

Four forward/reverse speeds (two automatic selection) with single lever control.

		forward	reverse
1 st gear	km/h	0 ÷ 6	0 ÷ 6
2 nd gear	km/h	0 ÷ 10	0 ÷ 10 (Automatic gearshift)
3 rd gear	km/h	0 ÷ 14	0 ÷ 14
4 th gear	km/h	0 ÷ 34	0 ÷ 34 (Automatic gearshift)

AXLES

Two heavy duty axles with planetary final drivers in each wheel.

Front axle : rigid

Rear axle : oscillating up to a total angle of 20°

Transfer gearbox transferring movement directly to the rear and to the front axle via a transmission shaft.

Self locking limited slip differential on front axle.

Self locking limited slip differential on rear axle (optional).

BRAKES

Service : hydraulic multi-disc oil brake on each wheel.

Parking : mechanical brake on the gearbox output, manually actuated.

TYRES

Standard :	17.5-25 16 pr
Option :	17.5 R25 480/70 R24

STEERING

Central articulated frame with servo-assisted through hydraulic LOAD SENSING.

Total steering angle	80°
Inner tyres turning radius	mm 2800
Outer tyres turning radius	mm 5050
Outer bucket turning radius	mm 5650

The illustrations of the present folders 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.

HYDRAULIC SYSTEM

Two hydraulic gear pumps, the first with "unloading" valve for the loader circuit and the second with priority valve for the steering.

Modular 2 element control valve with main relief valve.

Double acting hydraulic cylinders .

Hydraulic oil cooling radiator.

Full-flow oil filter on the leakage pipe.

Single lever arm-control with 4-position lifting system and with 3-position bucket system

Max flow	lt/1'	149
Loader relief valve pressure	bar	230
Steering relief valve pressure	bar	175
Lift cylinders	mm	105x770
Bucket cylinder	mm	80x680
Cycle time	sec	9.0

SERVICES CAPACITIES

Engine	kg	9
Gearbox	kg	1,5
Differential	kg	3,5
Planetary final drive	kg	2
Hydraulic circuit	lt	133
Brake system	kg	0,1
Fuel	lt	150
Water cooling	lt	20

TECNICAL FEATURES

Standard bucket capacity	m ³	1,7
Bucket width	mm	2350
Static tipping load :		
- straight	kg.	5900
- full turned 40°	kg.	5200
Lifting capacity at max height	kg.	5500
Dump clearance	mm.	3750
Dump height at 42°	mm.	2850
Reach at 42°	mm.	1150
Breakout force	kg	8000

DIMENSIONS AND WEIGHTS

Max. lenght in transfer position	mm	6500
Max. width in transfer position	mm	2350
Max height	mm	3090
Track	mm	1760
Tracks width	mm	2200
Wheel base	mm	2700
Ground clearance	mm	500
Standard operating weight	kg	9500
Max. operating weight	kg	10000



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PARALLEL LINK



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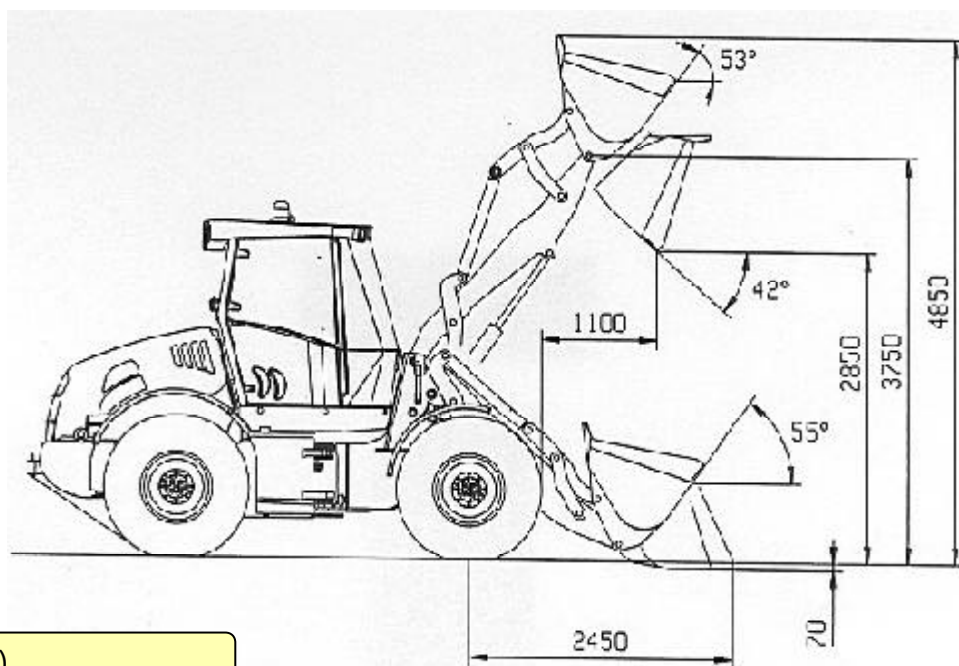
Preliminary

ENGINE STAGE III A - MAX POWER 118 HP
LIFTING CAPACITY AT MAX HEIGHT 6000 kg
MAX OPERATING WEIGHT 10000 kg
HYDROSTATIC TRANSMISSION • 4 WHEEL DRIVE
BUCKET CAPACITY 1.7 - 2.5 m³



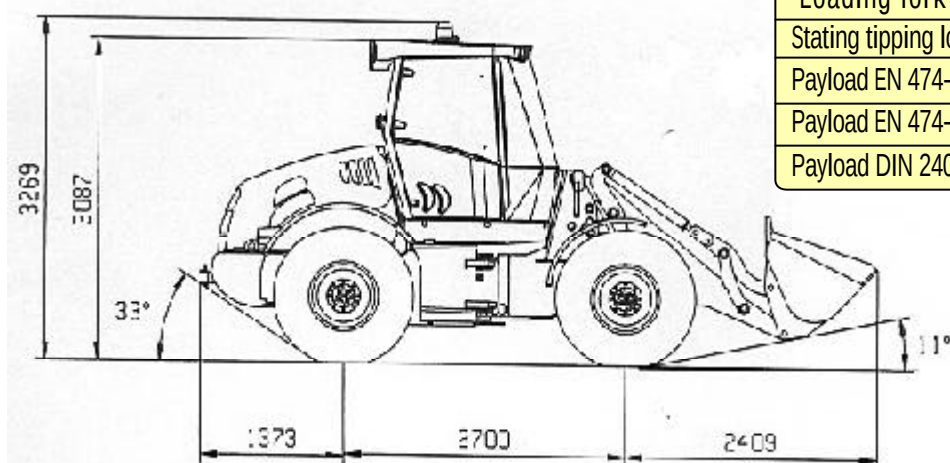


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Loading bucket (kg)	
Stating tipping load, full turn	5.200
Payload (50%)	2.600

Loading fork (kg) - centre of gravity 500 mm	
Stating tipping load, full turn	4.200
Payload EN 474-3 (80%)	3.400
Payload EN 474-3 (60%)	2.500
Payload DIN 24094 (50%)	2.100





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ADJUSTING THE DRIVER SEAT



STEERING COLUMN



ENGINE COVER



SWITCHES ON SIDE-DASHBOARD



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