

The compact 4x4x4 VF 1.33B loader & backhoe loader has reached the goal to work as a skid loader or as a mini-excavator, but overcoming the limits of the single skid loader and of the single mini-excavator.

In the loader or backhoe version, it represents the only solution which fully responds to Venieri philosophy in compact machinery: an unique product that's superior in terms of productivity, efficiency, flexibility and with low maintenance costs.

The only tool carrier capable of performing in restricted areas or confined operating conditions, in:

EARTHMOVING: excavating, digging, breaking, filling, levelling etc.

CONSTRUCTION: transporting materials, opening trenches, grading, burying, levelling etc.

ROADS AND PIPES: removing road surfaces, spreading aggregate, opening and closing ditches for pipes and cables etc.

PUBLIC WORKS, PARKS AND GARDENS: Rooting, planting trees, clearing snow, gritting, cleaning road surfaces etc.

Agility and quickness, the ability to handle any kind of public works, high transfer speed, exceptionally compact dimensions and an unbeatable turning radius let you work without disturbing the environment around you, and make the VF 1.33B the essential and affordable solution for every kind of public works.



SIDE-MOUNTED ENGINE

The Venieri 1.33 B thanks to the side-mounted engine is counterweighted at the opposite side grants:

- Better weight distribution between axles
- Real longitudinal and transverse stability
- Total front and rear visibility
- Very compact dimensions
- Side-mounted radiator (with cooling fan) positioned sideways instead of behind the bucket, permitting always an efficient engine cooling .
- Full access to the machine's hydraulic and mechanical components.
- Reduced dimensions of the front frame enabling a greater unloading distance.

4-WHEEL STEERING AND DRIVE

In the VF 1.33B the highest manoeuvrability in any situation is granted by the 4-wheel steering and drive train, together with a balanced ground load exerted by the wheels, allowing the same full traction, extremely low tyre wear and optimum operation without damage to surfaces (soil, asphalt, grassland, gravel).

DIESEL ENGINE

Engine: 4 cylinder, indirect injection, water-cooled, paper dry filter. Emissioned engine according the CEE 97/68 – Stage IIIA

Type Perkins 404D - 22
Max. power 40kW - 54 HP
Rated rpm 2.800
Net Power ISO/TR 14396 38 kW - 51 HP
Net Power EEC/80/1269 38 kW - 51 HP
Displacement cm³ 2.216
Bore mm 84
Stroke mm 100

ELECTRIC SYSTEM

Battery 12 Volt
Capacity 60 Ah
Alternator rating 480 W
Reverse warning Standard
Wiring according with IP 67 - DIN 40050

TRANSMISSION

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

	forward	reverse
1 st gear km/h	0÷8	0÷8
2 nd gear km/h	0÷20	0÷20

AXLES

Designed for heavy duties, all wheel-drive. Automatic self-locking differentials. Planetary final drives in each wheel. Front axle: steering and oscillating up to a total angle of 15°. Rear axle: steering and fixed to the frame

BRAKES

Service: hydraulic multi-disc working on the transmission shaft. Parking: roller-lock type on the split outlet hand-operated.

TYRES

Standard 10.0/75 x 15.3 - 8 pr.

STEERING

Servo-assisted through hydraulic **LOAD SENSING** steering units. Inner tyres turning radius mm 800
Outer tyres turning radius mm 2.150
Outer bucket turning radius mm 2.700

HYDRAULIC SYSTEM

LOAD SENSING gear pump with priority valve for the steering circuit. Modular three-element control valve for the loader, modular six-element control valve for the backhoe. Double acting hydraulic cylinders. Hydraulic oil cooling radiator. Full-flow oil filter on the leakage pipe. Max. flow lt/1' 56
Loader relief valve pressure bar 190
Steering relief valve pressure bar 140
Lift cylinders mm 90x455

Bucket cylinder mm 65x500
Cycle time sec 8,5

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

Backhoe control
Two levers for backhoe-control, "cloche" type. Two hydraulic-control independent stabilizers, hydraulically operated. Side translation with four hydraulic locking devices.

SERVICE CAPACITIES

Engine	kg	7
Front differential + Drop box	kg	2,8
Rear differential	kg	2
Planetary gear	kg	0,2
Hydraulic circuit	kg	55
Brake system	kg	0,3
Fuel	lt	47
Water cooling	lt	11

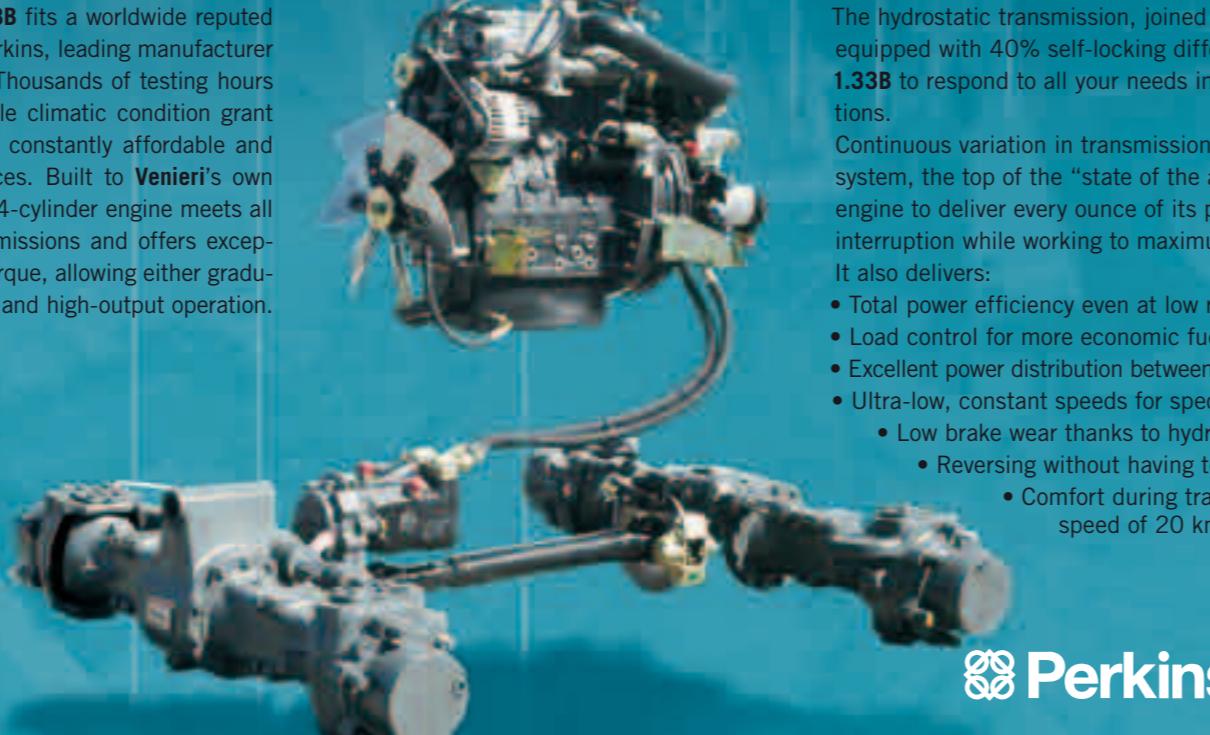
TECHNICAL FEATURES

Loader
Standard bucket capacity m³ 0,40
Bucket width mm 1.400
Breakout force kg 2.560

Backhoe loader
Type VF 2.75
Standard bucket capacity lt 45
Standard bucket width mm 300
Dipper stick max. penetration capacity kg 1.400
Max breakout force on the bucket tip kg 2.600
Hydraulic lifting capacity on the bucket pin up kg 700
Rotation 180°
A - Max. digging depth mm 2.750
(Telesc./optional) mm 3.250
B - Standard digging depth mm 2.600
(Telesc./optional) mm 3.100

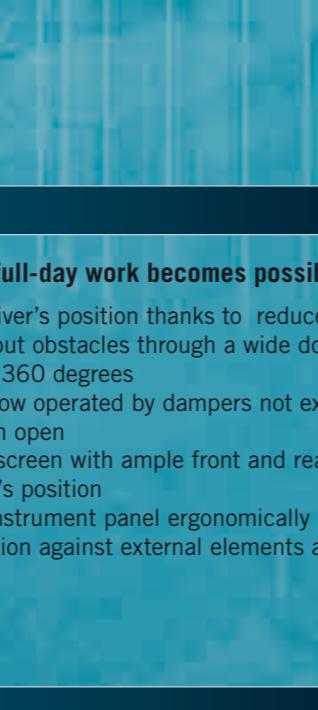
Dimensions and weights
Max. length in transfer (loader) mm 3.400
Max. length in transfer (backhoe loader) mm 3.750
Max. width in transfer mm 1.400
Width across tyres mm 1.320
Tracks width mm 1.105
Ground clearance mm 270
Standard weight in running order (loader) kg 2.850
Standard weight in running order (backhoe loader) kg 3.000
Max. weight in running order kg 3.300

DIESEL ENGINE



Venieri
1.33B
4-wheel steering
compact loader
& backhoe loader

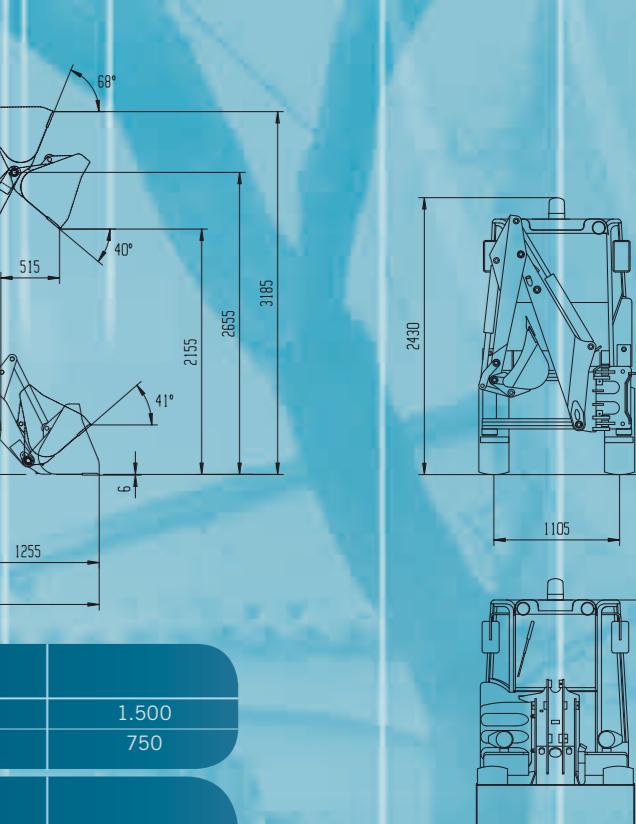
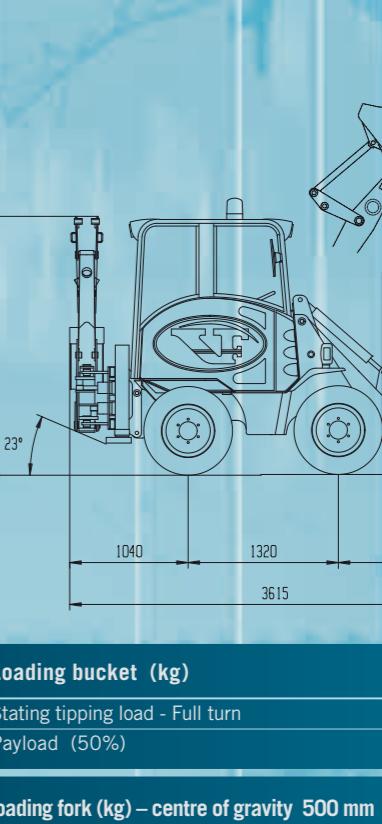
The illustrations on the present folder do not necessarily show the product standard version. Data and dimensions described in this folder are not binding. Venieri reserves the right of carrying out possible changes at any time and without previous notice because of its policy of steady development and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



THE CABIN

A place where a full-day work becomes possible.

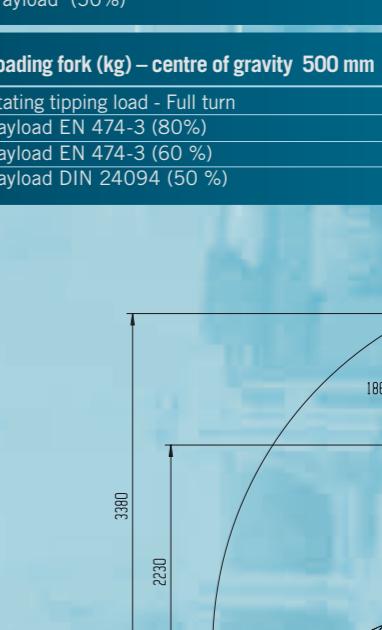
- Easy-to-reach driver's position thanks to reduced height from ground and access without obstacles through a wide door
- Total visibility at 360 degrees
- Mobile rear window operated by dampers not exceeding the machine's profile even when open
- Large front windscreens with ample front and rear side glasses
- Man-sized driver's position
- Fully equipped instrument panel ergonomically positioned
- Excellent protection against external elements and environmental conditions



MAINTENANCE

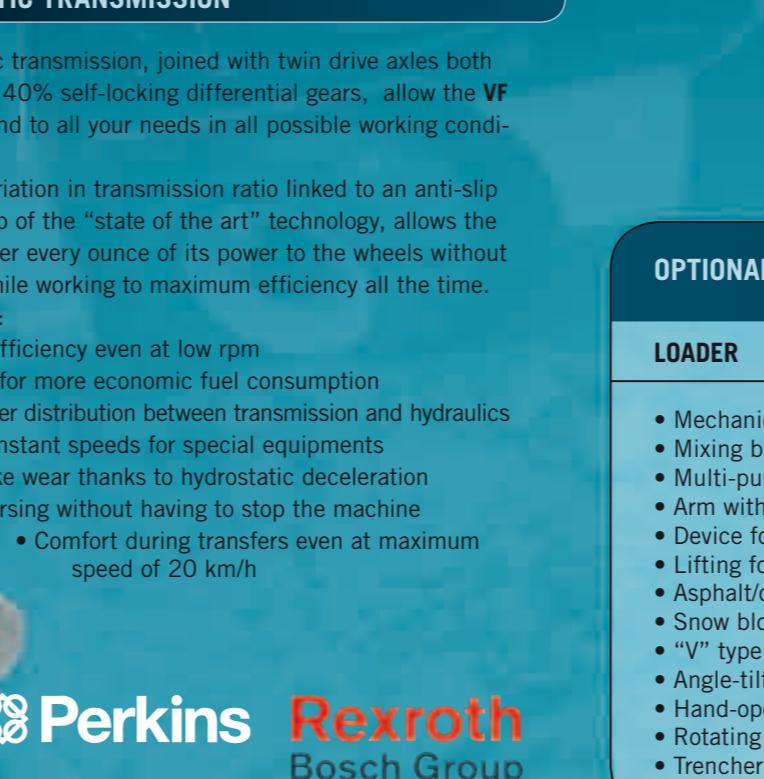
One of VF 1.33B profitability key factor is represented by the machine extremely reduced downtime. Therefore it has been designed to allow routine inspections to be made quickly and easily: just operate a simple catch to open the engine hood and everything's within your reach.

Productivity.
Efficiency
and flexibility
with low
maintenance costs.



DIESEL ENGINE

The Venieri VF 1.33B fits a worldwide reputed engine made by Perkins, leading manufacturer of diesel engines. Thousands of testing hours under every possible climatic condition grant an engine assuring constantly affordable and reliable performances. Built to Venieri's own specifications, the 4-cylinder engine meets all requirements on emissions and offers exceptional power and torque, allowing either gradual and high-output operation.



HYDROSTATIC TRANSMISSION

The hydrostatic transmission, joined with twin drive axles both equipped with 40% self-locking differential gears, allow the VF 1.33B to respond to all your needs in all possible working conditions.

Continuous variation in transmission ratio linked to an anti-slip system, the top of the "state of the art" technology, allows the engine to deliver every ounce of its power to the wheels without interruption while working to maximum efficiency all the time. It also delivers:

• Total power efficiency even at low rpm

• Load control for more economic fuel consumption

• Excellent power distribution between transmission and hydraulics

• Ultra-low, constant speeds for special equipments

• Low brake wear thanks to hydrostatic deceleration

• Reversing without having to stop the machine

• Comfort during transfers even at maximum speed of 20 km/h

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