

DB 180

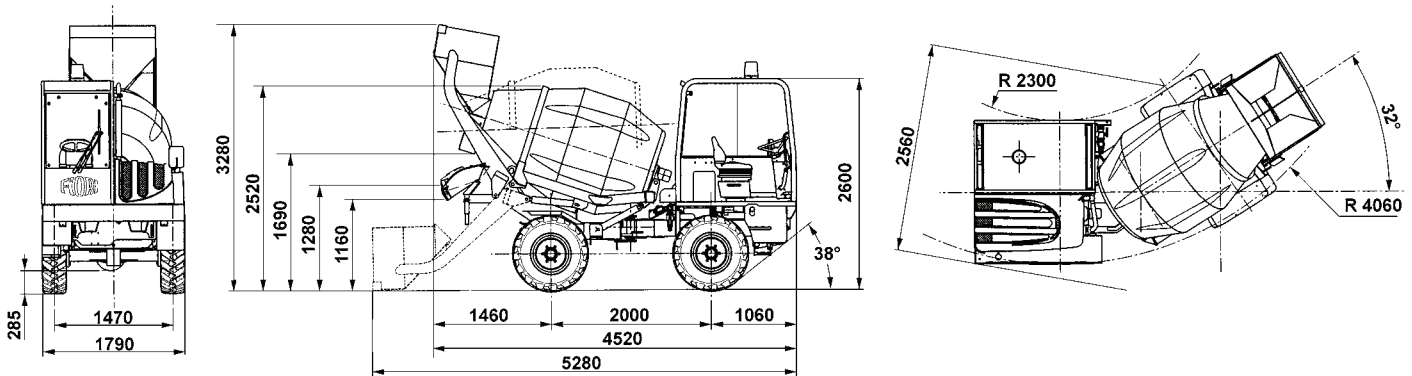


All pictures shown are for illustrative purposes only and may contain optional equipment.

MIXER SYSTEM

Although compact, this is a high productivity vehicle. It can therefore be used during large-scale work, given its unrivalled agility and stability, as a four-wheel drive vehicle with articulated chassis and differential swivelling axle. The DB 180 enables independent production of top quality concrete, delivered direct to any site, whether in an urban setting or located in some remote or inaccessible area. As an economic version and user-friendly vehicle endowed with an optimal daily productivity rating (potentially over 60 m³ of concrete), the DB 180 is an ideal self-loading concrete mixer for rental business and for use in difficult maintenance work areas.

FIORI



DIESEL ENGINE

YANMAR 4TNV88, naturally aspirated
Mechanical control with direct injection
Max. power 36.9 kW - (49 Hp)
Adj. power 32 kW (44 Hp) at 2600 rpm
Max. torque 139 Nm at 1200 rpm
Bore/stroke: 88/90 mm
4 cylinders - total displacement 2190 cc
Water cooling, dry air filter
Directive 2004/26/CE - Stage III A

ELECTRIC SYSTEM

Alternator: 12 V - 40 A
Battery: 12 V - 80 Ah (400 A)
Road light system.

4X4 FOUR-WHEEL DRIVE

Hydrostatic "automotive" transmission with variable displacement pump and variable displacement hydraulic motor with electro-hydraulic control.
Electro-hydraulically controlled mechanical gearbox for "working speed" and "road transfer" speed.

SPEED

4 forward gears 2 reverse gears
I° 0 - 5,0 Km/h 0 - 5,0 Km/h
II° 0 - 7,2 Km/h 0 - 5,0 Km/h
III° 0 - 14,2 Km/h 0 - 14,2 Km/h
IV° 0 - 20,2 Km/h 0 - 14,2 Km/h
Traction / weight ratio 55%

AXLES AND WHEELS

Front load-bearing, oscillating ($\pm 7^\circ$) and steering with planetary reduction gears on the wheel hubs.

Rear load-bearing and steering with planetary reduction gears on the wheel hubs and directly flanged gearbox.

Tyres 12.0/75-18 12PR

BRAKES

Internal oil-bath disc service and emergency brakes acting on the 4 wheels, activation with pump on independent dual circuit.

Drum parking brake on the front axle with lever control.

STEERING

Assisted by means of load-sensing power steering acting on 2 half-frames by means of two opposed jacks.

EQUIPMENT HYDRAULIC SYSTEM

Gear pump
Max. flow rate: 35 litres/min.
Maximum pressure: 170 bar
3-element distributor with joystick.
Aluminium heat exchanger for hydraulic oil cooling.
Pressurised closed-circuit intake with oil filter replaceable from the outside.

MIXING AND POURING

Double-cone drum with double-spiral mixing screws

Geometrical drum volume: 2560 litres
Drum rotation speed: 20 rpm.
Class S1 concrete produced as : 1.8 cu m
Drum rotation by means of a piston pump with variable flow rate and an orbital hydraulic motor in closed circuit with infinitesimal electrical control positioned in the cabin and at the rear of the machine.

Drum raising up to the horizontal position by means of 2 double-acting jacks.

Chute with manual tilting independent of the mixing drum inclination and 180° rotation. Removable chute, for direct unloading from hopper.

1 chute extensions provided as standard equipment.

WATER SYSTEM

"Self-priming" volumetric water pump with quick-suction.

Max. capacity: 140 litres/min.
Maximum head: 3 bar
One sheet tank on the engine side with a capacity of 240 litres.
Mix Control system for programmable and controlled management of water feeding to the drum and of mixing and unloading from the ground panel. Water feeding to the drum controlled by means of electromagnetic flow meter and fed litre reading on both the cabin display and at the rear of the vehicle.

Water pump activation from the driver's seat and from the ground panel. Suction selection from the ground with quick-coupling pipes.

LOADING SHOVEL

Loading arms with fixed loader and automatic unloading hatch.

Volumetric capacity: 470 litres
Number of shovelfuls per load 5 - 6
Production capacity: up to 4 cycles/hour

CAB

Open cab designed according to ROPS & FOPS Lev. I criteria, windows on three sides. 180° pivoting driving post. Anatomic seat with flexible suspension and height adjustment, seat belts.
Driving and equipment controls with ergonomic arrangement.

SERVICE REFILL CAPACITIES

Fuel tank, 46 litres
Total hydraulic system capacity: 50 litres
Engine oil: 3,4 litres

WEIGHTS

Operating weight: 3700 kg
Max gross weight: 8400 kg
load-carrying capacity: 4700 kg