

DB 460

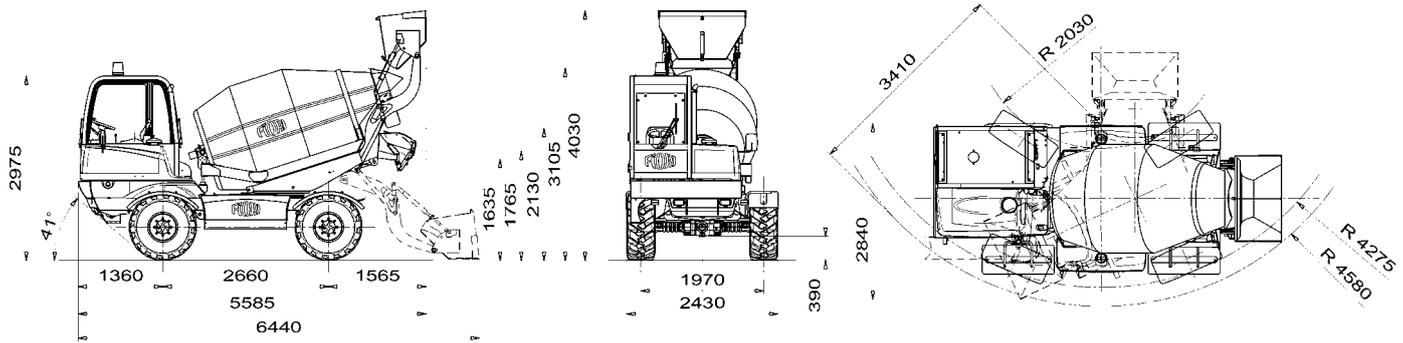


All pictures shown are for illustrative purposes only and may contain optional equipment.

MIXER SYSTEM

A unique product in the market of self-loading concrete mixers, this extremely compact, agile and price-worth machine provides a 4.0 m³ concrete yield and a daily productivity amounting to 90/100 m³. The machines in the DB 460 range may be used as an alternative to small and medium-sized concrete-mixing systems, as they provide great handling (enhanced by the reversible driver's seat and the drum rotation system for 360° download), flexibility and autonomy. Being equipped with an innovative computerised production system, the DB 460 machines are capable of producing top quality certified concrete. Consistency, repeatability and quality of the concrete batch are the unprecedented advantages offered by the CBV technology, an exclusive feature of FIORI GROUP's self-loading mixers.

FIORI



DIESEL ENGINE	No emission compliance	Stage IIIA / Tier 3	Stage IIIB / Tier 4 Interim
Model :	PERKINS series 1,104 turbo	PERKINS series 1,104 turbo	PERKINS series 854 E turbo
Total displacement, no Cylinders:	4,400cc - 4 in line	4,400cc - 4 in line	3,400cc - 4 in line + DPF
Injection :	mechanical control with direct injection	mechanical control with direct injection	Electronic control with direct injection
Cooling :	air water cooling, dry	air water filter, dry	air water filter, dry air filter
Maximum power:	82.5 kW (112 Hp)	83 kW (113 Hp)	83 kW (113 Hp)
Adj. power :	82 kW (2,400 rpm)	83 kW (2,200 rpm)	83 kW (2,200 rpm)
Maximum torque:	404 Nm a 1,400 rpm	418 Nm a 1,400 rpm	450 Nm a 1,400 rpm

ELECTRIC SYSTEM

Alternator: 12 V - 55 A
 Battery: 12 V - 132 Ah (600 A)
 Road light system, rear working lights.

4X4 FOUR-WHEEL DRIVE

Hydrostatic "automotive" transmission with variable displacement pump and variable displacement hydraulic motor with electro-hydraulic control, and reverse gear control on the steering wheel.

Electro-hydraulically controlled mechanical gearbox for "working speed" and "road transfer" speed.

SPEED

4 forward gears 2 reverse gears
 Ist 0 - 3.0 Km/h 0 - 3.0 Km/h
 IInd 0 - 7.2 Km/h 0 - 3.0 Km/h
 IIIrd 0 - 10.0 Km/h 0 - 10.0 Km/h
 IVth 0 - 25.0 Km/h 0 - 10.0 Km/h
 Traction / weight ratio 48%

AXLES AND WHEELS

Front, oscillating ($\pm 6^\circ$) and steering with planetary reduction gears on the wheel hubs.
 Rear and steering with planetary reduction gears on the wheel hubs and flanged gearbox.
 Tyres 18 -19.5 16PR

BRAKES

Internal oil-bath disc service and emergency brakes acting on the 4 wheels, activation with miniservo pump on independent dual circuit.
 Negative type parking brake, with internal oil-bath discs on the rear axle and electro-hydraulically controlled release.

STEERING

Assisted by means of load-sensing power steering with double displacement on 4 steering wheels; steering selection device for: 2 steering wheels, 4 steering wheels - crab steering.

WATER SYSTEM

"Self-priming" volumetric water pump with quick-suction.
 Max. capacity: 250 litres/min.
 Maximum head: 4 bar
 Two connected tanks positioned opposite each other made of polyethylene with a total capacity of 870 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.

MIXING AND UNLOADING

Double-cone drum with double-spiral mixing screws and convex bottom.
 Geometrical drum volume: 5,050 litres
 Drum rotation speed: 24 rpm.
 Class S1 concrete produced as : 4.0 cu m
 Counterframe mounted on "heavy-duty" ball fifth wheel, with 245° hydraulic rotation and automatic locking by means of negative brake.
 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.
 Unloading chute with hydraulic tilting by means of a double-acting jack and 180° rotation, independent from the mixing drum inclination.
 Removable chute, for direct unloading from hopper.
 2 unloading chute extensions provided as standard equipment.

EQUIPMENT HYDRAULIC SYSTEM

Gear pump
 Max. flow rate: 45 litres/min.
 Maximum pressure: 180 bar
 5-element distributor servo-controlled with multi-function joystick.
 Chute lever distributor.
 Aluminium heat exchanger for hydraulic oil cooling.
 Pressurised closed-circuit intake with oil filter replaceable from the outside.

LOADER

Loading arms with self-compensated kinematic mechanism, double-acting loader lifting and return cylinders, electro-hydraulically controlled hatch with standard Tip-Off function.
 Volumetric capacity: 560 litres
 Number of loaderfuls per load: around 9 /10

CABIN

Closed cabin with heating system, designed in accordance with ROPS & FOPS 1st Level standards .
 Sliding side window
 180° pivoting driving post. Anatomic seat with flexible suspension and height adjustment, seat belts.

SERVICE REFILL CAPACITIES

Fuel tank in polyethylene, 95 litres
 Total hydraulic system capacity: 100 litres
 Engine oil: 9 litres

WEIGHTS

Operating weight 7,300 kg
 Max gross weight: 16,500 kg
 load-carrying capacity: 9,200 kg