

# DB 110

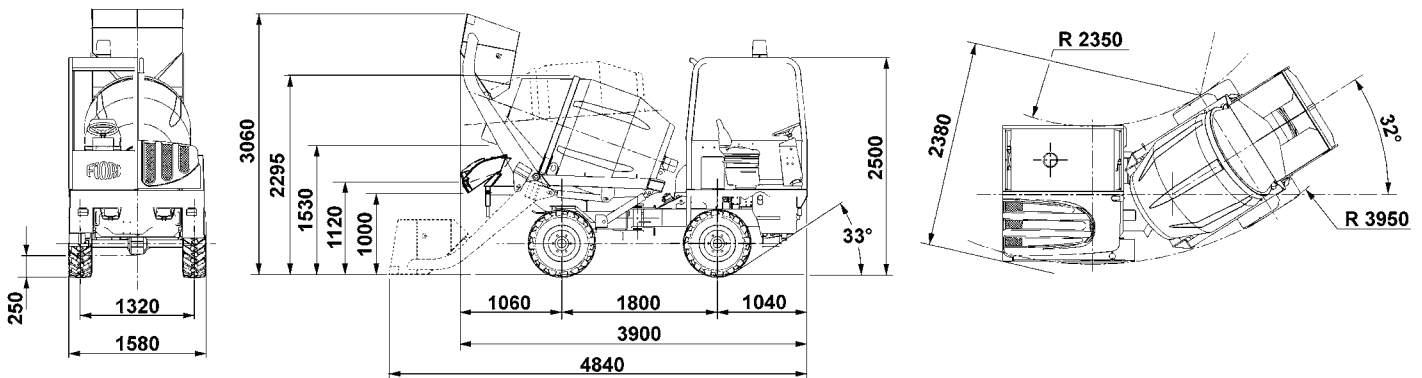


*All pictures shown are for illustrative purposes only and may contain optional equipment.*

## MIXER SYSTEM

Thanks to its width (1,580 mm), this compact vehicle enables access where spaces are restricted at building sites. The DB 110, with articulated chassis and differential swivelling axle, is particularly suitable for use in urban areas, inside buildings etc. Although the vehicle is compact, its roomy cabin nevertheless affords considerable driver comfort. Further features of this small self-loading concrete mixer from the FIORI GROUP's range of products are: driving reversibility, four-wheel drive and a double-cone mixing drum with double helix and convex bottom.

# 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, and reverse gear control on the steering wheel.

### SPEED

2 forward gears      1 reverse gear  
 Ist 0 - 11.0 Km/h    0 - 11.0 Km/h  
 IInd 0 - 18.0 Km/h   0 - 11.0 Km/h  
 Traction / weight ratio ..... 30%

### AXLES AND WHEELS

Front load-bearing, oscillating ( $\pm 6^\circ$ ) 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 ..... 10.0/75-15.3 10PR

### BRAKES

Internal oil-bath disc service brakes acting on the 4 wheels, activation with pump on single circuit.  
 Parking and emergency drum brakes 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: ..... 30 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: ..... 1650 litres  
 Drum rotation speed: ..... 20 rpm.  
 Class S1 concrete produced as : ..... 1.1 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 tank on the engine side with a total capacity of ..... 205 litres  
 Water feeding to the drum controlled by means of electromagnetic flow meter and fed litre reading on the cabin display.  
 Water pump activation from the driver's seat.  
 Suction selection from the ground with quick-coupling pipes.

### LOADING SHOVEL

Loading arms with fixed loader and automatic unloading hatch.  
 Volumetric capacity: ..... 350 litres  
 Number of shovelfuls per load ..... 4 - 5  
 Production capacity: up to 4 cycles/hour

### CAB

Open cab designed according to ROPS & FOPS Lev. I criteria.  
 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: ..... 32 litres  
 Total hydraulic system capacity: ..... 50 litres  
 Engine oil: ..... 3,4 litres

### WEIGHTS

Operating weight: ..... 3050 kg  
 Max gross weight: ..... 5550 kg  
 load-carrying weight: ..... 2500 kg