DB 460CBV

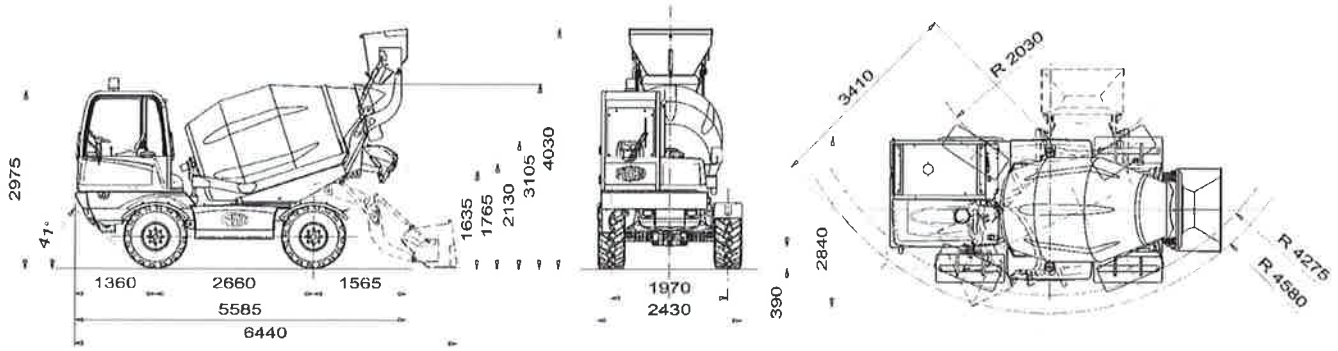
All pictures shown are for illustrative purposes only and may contain optional equipment

MIXER SYSTEM

Unique among self-loading concrete mixers, this highly compact, agile, economic version vehicle ensures a yield of 4.0 m^3 of concrete and a daily productivity rating of up to 90/100 m^3. The vehicles belonging to the DB 460 range, used as an alternative to small and medium-sized concrete-mixing systems, are endowed in any case with the characteristics of extreme mobility, flexibility and autonomy. Thanks to the inclusion of a reliable, innovative, computerized system for the management of the production process (FBC), the quality of the certified concrete produced directly on site, is very high, and the risk of errors on the operator's side is minimised. Constancy, repeatability and concrete batch quality are among the peerless advantages ensured by the technology adopted for the CBV versions of the self-loading concrete mixers from the FIORI GROUP range.

FIORI

MIXER SYSTEM DB 460CBV



DIESEL ENGINE

PERKINS series turbo engine 1104
Mechanical control with direct injection
Max. power 83 kW (113 HP)
Adj. power 83 kW (113 HP) at 2200 rpm
Max. torque 418 Nm at 1400 rpm
Bore/stroke: 105/127 mm
4 cylinders - total displacement 4400 cc
Water cooling, dry air filter
Directive 2004/26/CE - Stage III A

ELECTRIC SYSTEM

Alternator: 12 V - 55 A
Battery:12 V - 132 Ah (600 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 and via joystick, inching pedal. Electro-hydraulically controlled mechanical gearbox for "working speed" and "road transfer" speed.

SPEED

4 forward gears		2 reverse gears
Ist	0 - 3.7 Km/h	0 - 3.7 Km/h
IInd	0 - 9.5 Km/h	0 - 3.7 Km/h
IIIrd	0 - 11.8 Km/h	0 - 11.8 Km/h
IVth	0 - 30.0 Km/h	0 - 11.8 Km/h

Traction / weight ratio 48%

AXLES AND WHEELS

Front load-bearing, oscillating (± 6°) 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 ..... 18 -19.5 14PR

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.

CONCRETE BATCH CONTROLLER

It consists of two interlocked units with **printer and USB port** for data transfer and report printing. It can store up to 20 recipes including 32 different components each. **Drum rotation sensor** for RPM and end-of-cycle calculation. **SLUMP** integrated and printable in the cycle report. **Acoustic alarm** triggered by a wrong loading procedure. **Additive system** complete with two tanks, for a total of 30 litres.

EQUIPMENT HYDRAULIC SYSTEM

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

WATER SYSTEM

"Self-priming" volumetric water pump with quick-suction.
Max. capacity: ..... 260 litres/min.
Maximum head: ..... 4 bar
Two connected tanks positioned opposite each other made of superlinear 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 POURING

Double-cone drum with double-spiral mixing screws
Geometrical drum volume: .....5050 litres
Drum rotation speed: ..... 24 rpm.
Class S1 concrete produced as : .....4.0 cu m
Counterframe mounted on "heavy-duty" slewing ring, with 245° hydraulic rotation and automatic locking with 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.
Chute with hydraulic tilting by means of a double-acting jack and 180° rotation, independent from the mixing drum inclination. Removable chute, for direct puring from hopper.
3 chute extensions provided as standard equipment.

LOADING SHOVEL

Loading arms with self-compensated kinematic mechanism, double-acting loader lifting and return cylinders, electro-hydraulically controlled hatch.
Volumetric capacity: .....560 litres
Number of shovelfuls per load ..... 9 - 10
Production capacity: up to 4 cycles/hour

CAB

Closed cab with heating system, designed in accordance with ROPS & FOPS Lev. I standards.
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 in cross-linked polyethylene, 95 litres
Total hydraulic system capacity: .....100 litres
Engine oil: .....9 litres

WEIGHTS

Operating weight ..... 7300 kg
Max gross weight: ..... 16500 kg
load-carrying capacity: ..... 9200 kg

* According to Directive 2006/42/CE

Valid as of 04/2013. All the data are purely indicative and may change without prior notice.

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