



FIORI Mixer DB 460

Technical Data Sheet

Self-loading Concrete Mixer

Description

The FIORI DB 460 is a self-loading mixer with a 4 m³ concrete yield which offers operators excellent visibility and ergonomics with its reversible driver's seat, four-wheel drive, four-wheel steering, with a tilting and swiveling drum system.

This self-loading mixer may also come equipped with devices such as the CBV 2.0 and additive dispensers; providing the user concrete production of high-quality concrete easily and with a controlled and documented approach.

Combined with the unique tip-off feature (when loading aggregate) and drum design, production including batching, mixing and homogenization is optimized. The DB 460 self-loading mixer provides optimal performance for medium sized construction projects.

ground control panel to manage, program and control the water input into the drum, as well as the mixing and unloading functions, alongside the activation of the hydraulic device for chute lifting and lowering.



Performance and Handling

The front steering differential swing axle, large tyres and high-pressure automotive hydrostatic transmission, facilitates driving and control on any terrain. Compact and easy to handle, with 4-wheel drive and steering, FIORI concrete mixers feature off-road capabilities, maneuverability and mobility for all site conditions.

Visibility and Comfort

The patented system for the drum rotation allows full control over the mix directly from the cabin, combining the reversible driving with 360° dumping. The 245° drum rotation ensures complete visibility, allowing the operator to check the consistency of the mix from the cabin. During this position, the drum is rotated, and the machine remains compact. DB 460 units are equipped with a standard





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Loading System and Tip-Off

Loading arm is driven by a Z-shaped auto-compensated kinematic mechanism with two lifting cylinders and two double-acting loader return cylinders. The multifunction joystick provides easy control by the operator. The special design of the loader-conveyor unit makes loading materials easier in the drum. A dedicated closing hatch, driven by two cylinders, has the function of dosing the dumping (reducing cement powder spillage) and releasing excess material with decrement weighing before pouring in the drum (tip-off function.)

Concrete Batching Vehicle

CBV includes an exclusive and accurate dosing system, as well as an instantaneous and final checking system of the quality of the concrete. This system guides the operator during mix design preparation, assuring a high dosing precision, homogeneity in the mix and therefore an extremely strong concrete. The humidity percentage can be input through this system, keeping the water pumped into the drum automatically being compensated so the water to cement ratio stays consistent.



TECHNICAL DATA

WEIGHT

Operating Weight	7,300 kg
Max Gross Weight	16,500 kg
Load-carrying Capacity	9,200 kg

LOADER

Volumetric Capacity	560 L
Number of Loaderfuls per load	9-10 Average

MIXING AND UNLOADING

Double-cone drum with double-spiral mixing screws and a convex bottom

Geometrical Drum Volume	5,050 L
Drum Rotation Speed	22 RPM
Class S1 Concrete Produced	4 cubic meters

WATER SYSTEM

Max Capacity	250 L / minute
Maximum Head	4 Bar
Two Tanks (Polyethylene) Capacity	870 L

ELECTRIC SYSTEM

Battery	12 V – 135 Ah (850 A)
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DIESEL ENGINE	No Emission Compliance	Stage III A / Tier 3	Tier 4 FINAL EPA	Stage V
Model	PERKINS Series 1104	PERKINS Series 1104	KOHLER Series KDI 3403 TCRSCR	PERKINS Series 904J-E36TA
Type	Turbo	Turbo Intercooler	Turbo Intercooler	Turbo Intercooler
Total Displacement	4,400 CC - 4" Line	4,400 CC - 4" Line	3,400 CC - 4" Line	3,600 CC - 4" Line
Injection	Mechanical Control	Mechanical Control	Electric Control	Electric Control
After treatment Sys.	-	-	EGR + DOC + SCR	EGR + DOC + DPF + SCR
Cooling	Air water, dry air filter	Air water, dry air filter	Air water, dry air filter	Air water, dry air filter
Maximum Power	82.5 kW (112 HP)	83 kW (113 HP)	90 kW (122 HP)	90 kW (122 HP)
Adj. Power	82 kW (2,400 RPM)	83 kW (2,200 RPM)	90 kW (2,200 RPM)	90 kW (2,400 RPM)
Maximum Torque	404 Nm (1,400 RPM)	418 Nm (1,400 RPM)	500 Nm (1,400 RPM)	500 Nm (1,500 RPM)
Alternator	12V - 65 A	12V - 65 A	12V - 90 A	12V - 120 A

Website

For information about Multicrete Group and all our related products visit us at

<https://www.multicretesystems.com/> or call us at (204)

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