

FIORINI

PATENTED

DB 200 S - 250 S

State of the art Synthesis:

- The advantages of the reversible driving post combined with the possibility of unloading over 360°.

Total Safety when operated and on sites:

- Unobstructed visibility, both when reversing and loading.

Concrete yield	2,5 cu.m.- DB250S
	2,0 cu.m.- DB200S
Engine power	64 kW (86hp)



DRIVING POST:

swivel, mounted on a ball-bearing center pivot, anatomically designed, seat with elastic suspension and safety belt; vehicle and mixer controls ergonomically arranged.

INSTRUMENTATION:

Engine ignition/off switch, glow plug, Hour meter, rpm counter, engine coolant temperature warning light, Warning lights, hydraulic filter clogged, inflation, glow-plug, generator charge, directional indicators, clearance lights, low-beam, engine oil pressure, fuel return gear, fuel level, beacon, "warning", headlights and direction indicators switch. Fuses and relays, box (water proof).

CANOPY: HOPS, perfoming options: windcovers/doors.

SAFETY SYSTEMS: built into the electro-hydraulic system, these prevent accidental engagement of drive (especially forwards and reverse).

Accidental descent of the bucket arms is also prevented by an electrical enabling device on the control lever.

Engine ignition is only possible with the forward/reverse lever in neutral.

TOOL KIT: routine maintenance equipment; water coolant hose complete with filter; 1/2" discharge chute extensions; safety steps; number plate holder.

ITALIAN HOMOLOGATION: on road with full-load.

Minimum transfer length:	4.070 mm
Max length with bucket on ground:	5.750 mm
Max width:	2.170 mm
Min height with bucket on ground:	2.750 mm
Max transfer height:	3.690 mm
Overhang angle:	38° front - 56° rear
Ground clearance (below differentials):	340 mm

FIORIO

PATENTED

DB 400 S

Concrete yield 4,0 cu.m.
Diesel engine 80 kW (109 hp)

Ideal for big works; it is the **Synthesis** of the **State of the art** and of the full **Safety** in its use at jobsites.

- The best in efficiency.

- The highest in safety.



DRIVING POST:

seated, insured on a ball-bearing central pivot; anatomically designed, fully adjustable seat with safety belt; vehicle and motor controls ergonomically arranged.

INSTRUMENTATION:

engine ignition/off switch; glow-plug, fuel meter; rpm counter; engine coolant temperature; Warning lights; hydraulic filter clogged; glow-plug generator charge; direction indicators; clearance lights; low-beam; engine oil pressure; engine fuel level; beacon; "warning" headlight and direction indicators switch; Fuses and stops bar (water proof).

CAB:

open FOPS certified, front and rear windscreen with wash/wiper; side glasses.

SAFETY SYSTEMS:

Built into the electro-hydraulic system, these prevent accidental engagement of drive transmission (forward and reverse). Accidental descent of the bucket arms is also prevented by an electrical enabling device on the control stick. Engine ignition is only possible with the forward and reverse lever in neutral.

TOOL KIT: routine maintenance equipment, water wash for fuel; complete with filter; #3 discharge chute extension; safety stop; number plate holder.

ITALIAN HOMOLOGATION: on road with full load.

Minimum transfer length:	5,600 mm
Max length with bucket on ground:	6,440 mm
Max width:	2,430 mm
Min height with bucket on ground:	3,100 mm
Max transfer height:	3,980 mm
Front pitch: 40° · Rear pitch: 60°	
Ground clearance (below differentials):	400 mm

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**DIESEL ENGINE**

Make: PERIORS 1004-401 FAGRAM Direct
Self injection turbo separated diesel engine
Max power: 76.5 kW (106 HP) at 2,300 rpm
Max torque: 380 Nm at 1,400 rpm
N-4 cylinders Displacement: 3,000 cc
Bore and stroke: 100 x 127 mm
Dry air cartridge filter
Water-cooled
"Stage 1" emission certification.

**ELECTRICAL SYSTEM**

Starter motor: 12V - 2.8 kW
Alternator: 12V - 55 Ampere
Battery: 12V - 132 Amp-hr (800 Amh)
Electrical engine ignition/stop device
Plug heater cold starting device.

**FOUR-WHEEL DRIVE**

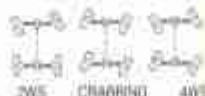
"Automotive" hydrostatic transmission with variable-displacement pump; automatic variable-displacement hydraulic motor; electrohydraulic control selecting "low-fast" speed and reversing direction. Auxiliary heat exchanger for oil cooling. Mechanical 3-speed gearbox with electrohydraulic selector for working speed and drive speed, synchro with the rear axle.

GEAR/SPD: 4 FORWARD 4 RESERVE

1st	0 - 4.6 Km/h	0 - 4.6 Km/h
2nd	0 - 10.0 Km/h	0 - 4.6 Km/h
3rd	0 - 12.7 Km/h	0 - 12.7 Km/h
4th	0 - 30 Km/h	0 - 12.7 Km/h

Drive/weight ratio: 40%

Available modes:
2-wheel steering/4-wheel steering "Crabbing"
Minimum inside wheels turning radius: 2,000 mm
Minimum outside wheels turning radius: 4,500 mm

**CHASSIS**

Electrically welded high-tensile steel chassis. Blacing mounted on roller center plate with 240° hydraulic rotation featuring automatic lock (negative torque). Hydraulic coilover for drum lift up the horizontal by means of two double-action jacks. Large, perfectly sealed hoppers. Unloading chute with hydraulic tilt independent of mixing drum tilt, operated by double action jack controlled from the cab interior and from ground; manual steering over 180°. Chute can be removed via r/z pins for direct unloading from the hopper.
Max hopper off-loading height: 2,150 mm
Max chute off-loading height: 1,820 mm
Min chute off-loading height: 1,680 mm

**HYDRAULIC SYSTEM**

Gear pump: 6+2 way control valve
Max flow rate: 54 l/min
Max pressure: 180 bar
Oil filter replaceable from the outside.
Pressurized closed circuit suction system.

**DRUM**

Drum with large double-spiral mixing paddles, vertical. Lid for emergency off-fast. Drum rotation: hydrostatic transmission with variable-delivery pump having electro-hydraulic control both in the cab and at the rear of the vehicle. Hydrostatic motor (CRIBTRAC) entic with gearmotor.
Drum volume: 0,060 m³
Max concrete yield: 4,000 m³
Drum rotation speed (both directions): 0 - 21 rpm



ALL DIMENSIONS ARE MEASURED AND ARE AT STANDARD WEIGHTS AND LEVELS. DIMENSIONS MAY VARY WITHOUT NOTICE.

**LOADING BUCKET**

Loading arms with self-adjusting kinematic motor. Double action lift/lower jacks with dampening.
Actual bucket capacity: 610 m³
Number of bucket required per load: 8 - 12
Single lever control with electrical safety button to prevent accidental arm descent.

**WATER SYSTEM**

Water pump: fast suction positive-displacement self-priming roller type.
Max flow rate: 300 l/min
Max head: 2.0 bar
Two opposing connected water tanks.
Total capacity: 900 l/m³
Water pump controlled from cab, interior and from ground suction system controls on vehicle exterior, quick coupling hoses.

**SERVICE REFILL CAPACITIES**

Fuel tank: 100 litres
Total hydraulic oil: 110 litres
Diesel engine oil: 25 litres

**WEIGHTS**

Machin in working conditions (with canopy): 6,900 kg
Max certified weight (†): 16,500 kg
Certified capacity (at max speed) (†): 9,200 kg
(†) Upper Italian Highway Code.

**AXLES**

FRONT: oscillating (r/z), steering and bearing type with planetary reduction of the wheel hubs.
REAR: steering, bearing type with planetary reductions at the wheel hubs.

**BRAKES**

SERVICE AND EMERGENCY BRAKES: disc-brakes in oil bath housed inside the hub, acting on all 4 wheels, fed by single pump, on independent split circuit.
PARKING BRAKE: disc brake on front axle with negative type mechanical control, electro-hydraulic release control.

**TYRES**

Front and rear tyres: 18-18.5 16 pr.

**STEERING**

Hydrostatic (CRIBTRAC) "Load sensing" of dual displacement, with steering wheel control.
Sweep volume: 205/100 cc
Max working pressure: 180 bar
4-wheel steering by means of r/z double steering cylinders acting as connection rods.
In-cab steering mode selector.