

Wet mix shotcrete pump



About Oriental

Henan Oriental Construction Machinery Co., Ltd. is a state-designated manufacturer and exporter of Road and Building construction machineries since 1989. We are the manufacturer, supplier & exporter of semi-automatic and full-automatic dry mortar mixing plants, large and medium size of concrete mixing plants, all kinds of concrete mixers and cement silos, Spraying machine and Pump.

Applications Of Wet mix shotcrete pump

OPB7 wet mix concrete pumping / spraying machine can be used for the conveying and spraying of wet-mix concrete. Typical applications include permanent and temporary rock support in tunnels and mines, or in fact wherever sprayed concrete is to be applied.

It can also for hand-spraying concrete pumping, grouting, repair work, artificial soil seeding, mortar spraying, and refractory material spraying. Being a piston pump it provides much more versatility, in both mix types and potential conveying distances, than a rotor/stator pump of a similar capacity. Pumping of thick and stiff mixes also poses no problem, as the concrete is delivered up to 67 bar. Its compact design enables easy integration into any kind of carrier chassis.

FEATURE OF WET MIX SHOTCRETE PUMP

1. Thick flow conveying method with hand-spraying make the concrete spraying is even, steady with less air consumption comparing to thin flow conveying method.
2. OPB7 is a high efficiency machine with a longer conveying distance, horizontal 150m and vertical 70m.
3. PLC standard electrical control system controls provide fool-proof operation.
4. Soft-start protects electric system and motor.
5. Two independent oil pressure circuits.
6. Accelerating agent by the hand pump wheel can be adjusted emissions.
7. Double piston pump with S-tube and change-over cylinders for a positive action.
8. Self-sealing, superhard sealing and plate.
9. Automatically reversing pistons relieve the conveying system when blocked.
10. Main oil is supplied by a high-pressure, variable-flow, axial piston pump. A gear pump provides separate circuit for the dosing pump.
11. Tough hopper with vibrator and grill designed for work with steel fibers.
12. Low weight is an advantage for transport.
13. Centrally positioned lubrication point for easy service.

ADVANTAGES OF WET MIX SHOTCRETE PUMP

It incorporates the advantages of wet-mix spraying with the low cost of a dry-mix machine. It is a machine that fills the void in the medium to small capacity class, but keeps the same characteristics of larger pumps. The Oriental OPB7 is an oil hydraulically driven twin-piston pump. It is extremely simple in construction and operation. It is very compact, durable and versatile enough for any site in the world.



TECHNICAL PARAMETERS OF WET MIX SHOTCRETE PUMP

Output	6.5m ³ /h
Delivery	Horizontal:150m vertical:70m
Pressure	6Mpa
Electric motor	380V/50Hz, 15kw
Main pump Max.pressure	14Mpa
Main pump Max..flow	65M/min
Oil tank	90L
Work cylinder diameter	1D110mm
Work cylinder Stroke	550mm
Shape swing tube	110mm
Pipe and hose size	1D65/51mm
Max. grain size for spraying	15mm
Max. grain size for pumping	1/3 pipe ID
Dosing pump	17.5-88L/h
Weight	1200kg

Note: Any change of technical data will not inform additionally.