

Wet AND Dry Mix Shotcrete Machine



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.

Shotcrete Machine

Introduction Of Wet-Dry Mix Shotcrete Machine

KSP Sereis Wet-Mix Shotcrete Machine is used for dry mix or wet mix concrete spraying procession, it is widely employed in mining, tunnel lining, channel lining, culvert, subway, seismic rehab, specialty projects, hydropower engineering, etc.

Shotcrete machines are divided into two major categories, that is Explosion-proof and non-hazardous, both are based on straight-through-type rotor blanking under the rotor material, can take full advantage of the role of air force jet to ensure the smooth discharge. The rotor chamber and the discharge elbow materials are made of flexible rubber abrasion. When working, under the action of the pressure can be rushed to the self-cleaning effect, reducing adhesive material and congestion, greatly reduced the maintenance workload of the machine. The machines set the advantages of wet and dry spray machine at home and abroad in one, it is easy to operate, sprays evenly, and has the advantage of a low dust, low rebound. It optimized the working environment, and improved the quality of spray layer.

APPLICATIONS OF WET-DRY MIX SHOTCRETE MACHINE

1. Shotcrete for Civil Underground Foundation, Express-Way Construction, Railway Construction;
2. Shotcrete for building surface;
3. Shotcrete for Tunneling, Mining, Hydropower Project;
4. Shotcrete for Slope Stabilization

Features Of Wet-Dry Mix Shotcrete Machine.

- electric drive can be combined with tyre chassis.
- Air motor drive or diesel drive combined with single hydraulic power pack.
- Skid or Rail-wheel



WORKING PRINCIPLE OF WET-DRY MIX SHOTCRETE MACHINE

With "wet-process shotcrete" a low-slump concrete mix is pumped with a Concrete Pump to the end of the pipeline. conveys the pre-dampened mix by compressed air. the pre-concrete is mixed firstly, and then putted into shotcrete machine. This compressed air typically comes from a 165-185cfm air compressor - sold separately. The addition of the compressed air adds velocity to the concrete so it sprays out of the nozzle. This velocity, combined with the low slump of the shotcrete mix, allows the concrete to be sprayed on slopes, vertical walls, and overhead.



TECHNICAL PARAMETERS OF DRY MIX GUNITE SHOTCRETE MACHINE

KSP3000

Output	5 m³/h
Max. convey dist.	35 m
Max. aggregate size	φ15 mm
Concrete slump	8-15 cm
Hose inner size	φ50/65 mm
Operating air pressure	0.2-0.6 MPa
Air consumption	9-10 m³/min
Discharge height	1.17 m
Rotor Rev.	11 r/min
Main electric motor power	7.5 kW
Dosing pump model	BRJ15
Dosing pump rated pressure	0.6 MPa
Dosing pump output	17.5-88 L/h
Overall dimension	2050×950×1180 mm
weight	1200 kg

KSP3000A

Output Capacity	9 m³/h
Max. Horizontal Conveying Distance	150
Suitable Mix Ratio(Cement/Sand)	≤1:3-5
Max. Aggregate Size	φ20 mm
Conveying Hose Inner Diameter	φ64 mm
Conveying Pressure	0.2-0.4MPa
Air Consumption for conveying material	9-10 m³/min
Air Motor Air Pressure	0.5MPa
Material Charging Height	1.2m
Rotor Speed	10rpm
Air Motor Type	TMH8A
Air Motor Air Consumption	9.5 m³/min
Overall Dimension(length×width×height)	15000×830×1320 mm
Net Weight	900kg

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