

ASM-5R Wet and Dry Type Shotcrete Machine



ASM-5R Shotcrete Machine Introduction:

ASM-5R Wet-mix shotcrete is an advanced concrete spraying technique, developed from dry-mix shotcrete and incorporated the advantages of wet-mix shotcrete, such as low dust, high strength concrete, etc. And wet-mix shotcrete has widely been using in more and more concrete engineering.

ASM-5R shotcrete machine Applications:

- ASM-5R is a universal concrete spraying machine for the processing of wet or dry mix.
- It is suitable either for manual spraying or by means of a robotic arm.
- The machine has been designed especially for fibre spraying.
And the dosing unit is combined with this machine.
- Shotcrete/concrete spraying/gunite for tunnels, hydro-power engineering, mines, un-derground engineering, civil engineering and slope stabilization, etc.
- Artificial soil seeding for no soil surface, such as rock, sand, and for no fertility soil surface.
- Refractory material spraying and repair for industrial kilns or kilns's inner liner.

ASM-5R is available in the following versions.

- BASIC Electric drive
- AIR With air drive

ASM-5R Shotcrete Machine Features:

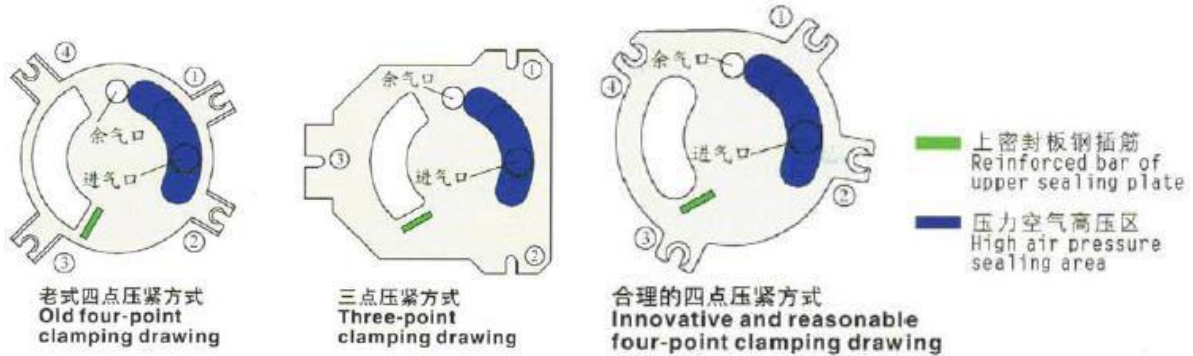
- Going-through rotor and forced vibrating hopper make mixture smoothly falling.
- Hose dosing pump unit provides constant dosing.
- Thin flow conveying method, used for wet-mix and dry-mix shotcrete.
- Reinforced Shotcrete/concrete spraying with steel or various polymer fibre.

Innovative and reasonable four-point clamping device make ASM-5R wet-mix shotcrete machine hold the unique technical advantages as followings:

- Two clamping points, no.1 and 2, are symmetrically arranged in high air pressure sealing area

so that the no air is leaking with a smaller clamping force.

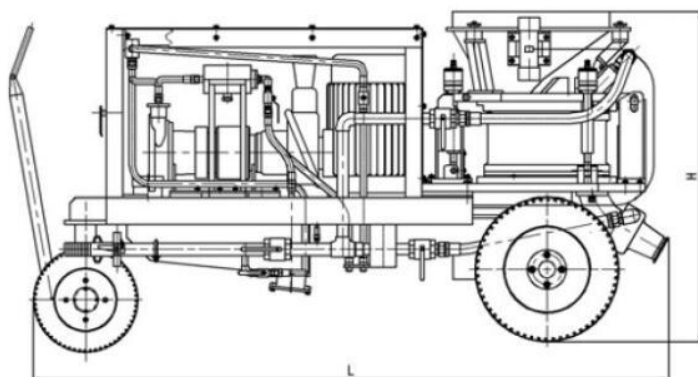
- The smaller clamping force also make sealing plate and rotor disk duration.
- The clamping point, no.3, is arranged and near to the reinforced bar of upper sealing plate, so the mixture is stopped from the sealing surface between sealing plate and rotor disk, which also can make these parts duration.



ASM-5R Technical Data Sheet

Output	5 m3/h
Maximum convey dist	35m
Concrete slump	8-15cm
Mmaximum aggregate size	15mm
Conveying hose inner size	φ50/65mm
Operating air pressure	0.2-0.6MPa
Air consumption	9-10 m3 /min
Filling Height	1.17m
Rotor Speed	11r/min
Motor power	7.5kW
Dosing pupmp model	BRJ15
Dosing pump rated pressure	0.6Mpa
Dosing pump output	17.5-88 L/h
Overall dimension	2050×950×1180mm
Weight	1200kg

ASM-5R Dimensions



Length L: 2050 mm
Height H: 1180 mm
Width: 950 mm
Weight: 1200 kg
Content of hopper: 38 Liters

Drive**Electric (Basic)**

Motor output : 7.5 KW /10hp

Speed range : 1500 rpm

Voltages : 380V50 Hz, 440V50/60 Hz, 220V50/60Hz

With air motor (Air)

Motor output : 8 KW/11hp

Speed range : 400-650 rpm

Pressure : 0.63 MPa/93psi

Air consumption : 9.4 m3/min

Theoretical conveying date

1) HoseΦ (mm): 50

Conveying output (m3/h): BASIC: 5, AIR: 3~5

max. grain (mm): 15

max. conv. dist. (m) Horizontal / Vertical: Dry-200 / 70, Wet-30/20

2) Hose: Φ (mm) 65

Conveying output (m3/h): BASIC: 5, AIR: 3~5

max. grain (mm): 20

max. conv. dist. (m) Horizontal / Vertical: Dry-200 / 70, Wet-30/20

With theoretical filling degree of 100%. If motor with 60 Hz =20% higher conveying capacity

Theoretical data for consumption for conveying

Air consumption (m3/min):

Dry spraying, 60 m-11, 120 m-12

Wet spraying, 30m-15

Air consumption data are approximate values and are depending on conveying distance.

Caution: For the configuration AIR (with air motor) it has to be considered:

Total air consumption = Air consumption for conveying + Air consumption for air motor!

The information contained in this document is believed to correct but A.E.G(Wuxi) Machinery Co., Limited accepts no liability for any errors it contains, and reserves the right to alter specifications without notice. Please consult the respective machine manual for all matters related to operations and maintenance.