



# GAODETEC

## Shotcrete Machine

- ★ We full strive for shared NORMS and VALUES:
- ★ Safety and stringent quality control
- ★ Maneuverability and operator comfort
- ★ Reliability
- ★ Technical sophistication & after-sales full support



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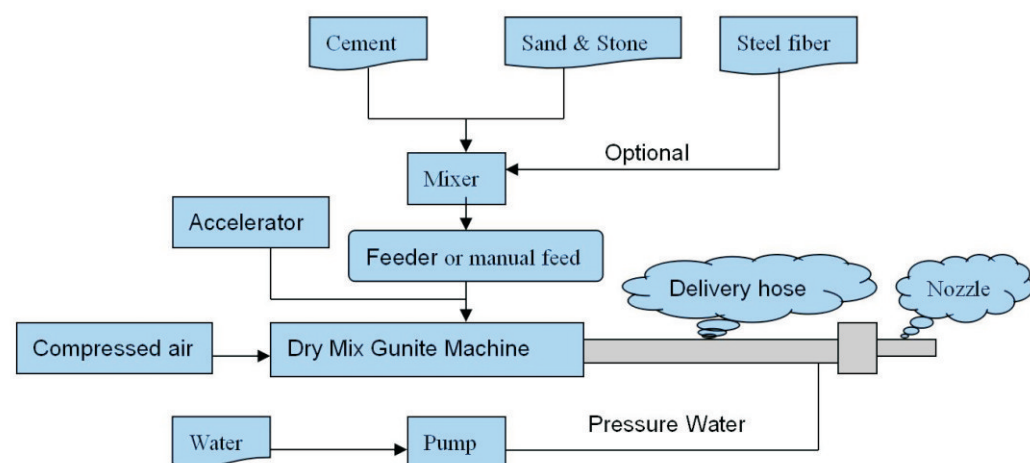


## Shotcrete Machine Process

Shotcrete machine is divided into dry mix shotcrete machine and wet mix shotcrete machine according to the different spraying process.

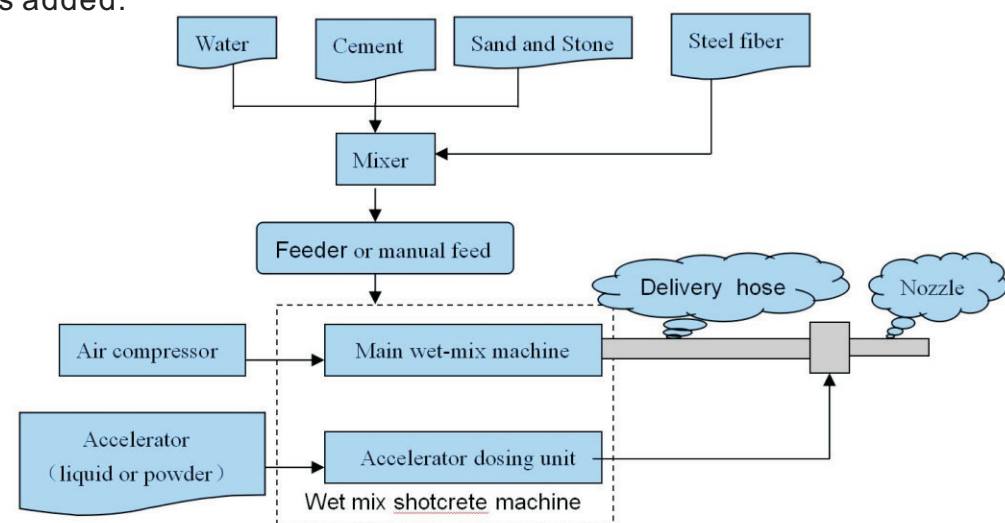
### Dry mix spraying process

In the dry-mix spraying process, cement, sand and aggregate are mixed without water, and then placed into gunite machine hopper, use compressed air to convey dry material from the machine through the hose to the nozzle where water is added. The water thoroughly wets the other ingredients as the mixture is jetted from the nozzle at high velocity onto the surface to be shotcreted.



### Wet mix shotcrete process

In the wet-mix shotcrete process, all ingredients are first mixed with water to produce concrete in mixer. The concrete is then placed into shotcrete machine hopper. The material is forced through a conveying hose by compressed air to the nozzle where accelerator is added.



## GZ-3 Dry Mix Gunite Machine

GZ-3 is GAODETEC small-size shotcrete machine/equipment for the dry spraying process. Widely used for small jobs or compact work site, such as joint filling, swimming pool, concrete reinforcements, bridge repair, slope protection application work etc.

### Optional:

Electric motor, air motor and diesel engine for option.

Air motor and diesel engine don't need any electric power supply, very suitable for remote working site.



### Technical Data

Item	GZ-3E	GZ-3D	GZ-3A
Drive Type	Electric motor	Diesel engine	Air motor
Output Capacity	3m <sup>3</sup> /h	2~3m <sup>3</sup> /h	1.5~3m <sup>3</sup> /h
Max. Aggregate Size	10mm	10mm	10mm
Motor Power	3kw(4hp), IP55	10hp, 2200rpm	TMH3.2
Overall Dimension	1.30×0.75×1.30m	1.8×0.8×1.2m	1.13×0.54×1.02m
Net Weight	460Kg	500Kg	430Kg
Air Consumption	5~6m <sup>3</sup> /min		10~11m <sup>3</sup> /min
Max. Horizontal Conveying Distance	200m		
Suitable Mix Ratio(Cement/Sand)	≤1:3~5		
Rotor Speed	14rpm		
Conveying Hose Inner Diameter	Φ38/Φ50 mm		
Conveying Pressure	0.2-0.4MPa(29-58PSI)		
Material Charging Height	0.9m		

## GZ-5 Dry Mix Guniting Machine

GZ-5 is GAODETEC medium-size guniting machine/equipment for the dry spraying process. GZ-5 can be used for slope stabilization, concrete repair, rock support, supporting excavation pits or embankments, and hill side projects, etc.

### Optional part:

Electric motor, air motor, diesel engine for option.

Air motor and diesel engine don't need any electric power supply, very suitable for remote working site.



Five cylinders piston air motor, more powerful.

Nozzle Assy

### Technical Data

Item	GZ-5E	GZ-5D	GZ-5A
Drive Type	Electric motor	Diesel engine	Air motor
Output Capacity	5m <sup>3</sup> /h	3~5.5m <sup>3</sup> /h	2.5~5.5m <sup>3</sup> /h
Max. Aggregate Size	15mm	15mm	15mm
Drive Power	5.5Kw, IP55	18hp, 2200rpm	TMH6A
Overall Dimension	1.35x0.75x1.2m	2.2x0.96x1.2m	2.2x0.96x1.2m
Net Weight	720Kg	850Kg	850Kg
Air Consumption	7~8m <sup>3</sup> /min		14~15m <sup>3</sup> /h
Max. Horizontal Conveying Distance		200m	
Suitable Mix Ratio(Cement/Sand)		≤1:3~5	
Conveying Hose Inner Diameter		Φ51mm	
Conveying Pressure		0.2-0.4MPa(29-58PSI)	
Material Charging Height		1.1m	
Rotor Speed		11r/min	

## GZ-7 Dry Mix Guniting Machine

GZ-7 is GAODETEC universal size shotcrete machine/equipment for the dry spraying process, adopting unique high hopper design, easy to feed materials. And this dry mix shotcrete machine has been used for slope stabilization, concrete repair, rock support, supporting excavation pits or embankments.

### Optional part:

Electric motor, air motor and diesel engine for option.

Air motor and diesel engine don't need any electric power supply, very suitable for remote working site.



### Technical Data

Model	GZ-7E
Output Capacity	7m <sup>3</sup> /h
Max. Horizontal Conveying Distance	200m
Suitable Mix Ratio(Cement/Sand)	≤1:3~5
Max. Aggregate Size	Φ15 mm
Conveying Hose Inner Diameter	Φ50 mm
Conveying Pressure	0.2-0.4MPa(29-58PSI)
Air Consumption	12~15m <sup>3</sup> /min(180-215CFM)
Material Charging Height	0.9m
Rotor Speed	14r/min
Motor Power	7.5kw, IP55
Available Voltage	220V, 380V, 440V, 660V 50Hz/60Hz
Overall Dimension(length×width×height)	1.30×0.75×1.30m



## GZ-9 Dry Mix Guniting Machine

GZ-9 is especially suitable for processing dry shotcrete and means that it can be used for slope stabilization, concrete repair, rock support, supporting excavation pits or embankments. nique hopper design, easy to feed, without materials blocking.

### Optional part:

Electric motor, air motor and diesel engine for option.

Air motor and diesel engine don't need any electric power supply, very suitable for remote working site.



### Technical Data

Item	GZ-9E	GZ-9D	GZ-9A
Drive Type	Electric motor	Diesel engine	Air motor
Output Capacity	9m <sup>3</sup> /h	6~9m <sup>3</sup> /h	5~9m <sup>3</sup> /h
Max. Aggregate Size	Φ20mm	Φ20mm	Φ20mm
Drive Power	7.5Kw,IP55	20hp,2200rpm	TMH8A
Overall Dimension	1.65x0.9x1.025m	2.66x1.1x1.5m	1.65x0.9x1.25m
Net Weight	900Kg	950Kg	900Kg
Rotor Speed	11r/min	7.5~11r/min	6~11r/min
Diesel Engine Starting	/	Electric start	/
Clutch Type in Diesel Engine	/	Automatic clutch	/
Air Consumption	10~12m <sup>3</sup> /min		20~22m <sup>3</sup> /min
Max. Horizontal Conveying Distance	200m		
Suitable Mix Ratio(Cement/Sand)	≤1:4~5		
Conveying Hose Inner Diameter	Φ64 mm		

## GSZ3000 Wet Mix Shotcrete Machine

GSZ3000 shotcrete machine is the universal machine for dry and wet shotcrete application by thin-stream process. The dosing pump unit for accelerators is combined with this machine. GSZ3000 shotcrete machine could be used as wet shotcrete machine and dry mix guniting machine. Unique hopper design, easy to exhaust for wet spraying. It is developed for the application of shotcrete in tunnel building, hydro-power engineering, mines, underground engineering, civil engineering etc.

### Optional part:

Electric motor, air motor and diesel engine for option.

Air motor and diesel engine don't need any electric power supply, very suitable for remote working site.



### Technical Data

Item	GSZ3000E	GSZ3000D	GSZ3000A
Drive Type	Electric motor	Diesel engine	Air motor
Output Capacity	5m <sup>3</sup> /h	3~5m <sup>3</sup> /h	5m <sup>3</sup> /h
Max. Aggregate Size	Φ15mm	Φ15mm	Φ15mm
Motor Power	7.5kw	20hp,2200rpm	/
Dosing Pump	GH15	BHA530	BHA530
Dosing Pump Rated Pressure	0.6MPa	0.5MPa	0.5MPa
Dosing Pump Output	17.5~88L/h	0~100L/h	0~100L/h
Overall Dimension	2.05×0.95×1.18m	2.55x1.05x1.25m	1.95x1.05x1.36m
Net Weight	1200Kg	1300Kg	1200Kg
Air Consumption	10~12m <sup>3</sup> /min(357-430CFM)		22m <sup>3</sup> /min
Max. Horizontal Conveying Distance	35m(wet)/200m(dry)		
Conveying Hose Inner Diameter	Φ64mm		



GSZ3000V Wet Mix Shotcrete Machine

GSZ3000V shotcrete machine is equipped with manual mechanical speed control handwheel, used for controlling shotcrete machine output capacity. It could be used as wet mix shotcrete machine and dry mix gunite machine. When used as wet mix shotcrete machine, need work together with GH15-200 accelerator dosing pump.

GSZ3000V shotcrete machine is widely used in tunnel building, hydro-power engineering, mines, underground engineering, civil engineering etc.



Technical Data

Model	GSZ3000V
Output Capacity	3~5m³/h(wet) 3~9m³/h(dry)
Max. Horizontal Conveying Distance	35m(wet) /200m(dry)
Max. Aggregate Size	Φ15 mm
Conveying Hose Inner Diameter	Φ51/Φ64 mm
Concrete Slump	8~15cm
Conveying Pressure	0.2-0.6MPa(43-86PSI)
Air Consumption for Conveying Material	10~12m³/min(357-430CFM)
Motor Power	7.5kw
Rotor Speed	5~12rpm
Rebound	≤10%
Available Voltage	Could customize according to demands
Overall Dimension(length×width×height)	1.58×0.85×1.25m
Net Weight	950Kg

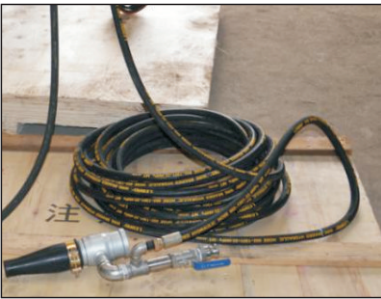
GPS-7A Concrete Shotcrete Pump

GPS-7A wet shotcrete machine use hydraulic pumping S valve structure, two oil cylinders Reciprocating motion alternately to pump concrete from conveying pipe to nozzle, Add compress air to wet shotcrete machine outlet and add A percentage of the accelerator at nozzle, concrete slurry be sprayed to surface directly.



Technical Data

Item	Technical Data	Item	Technical Data
Output	5-8m³/h	Hydraulic Oil Tank Volume	160L
Max. Pressure	8MPa	Air Pressure	0.7MPa
Distribution Valve Type	S valve	Air Consumption	6m³/min
Stroke x Cylinder ID	550×120mm	Max. Aggregate Size	20 mm
Hopper Volume	210L	Suitable Concrete Slump	8-15cm
Power	22kw	Accelerate Flow	70-320L/min
Rotation	1450r/min	Dimension	3500x1360x1530mm
Main Oil Pump	30-50cc/Rev	Weight	1515Kg



Nozzle Assy



Accelerator Pump

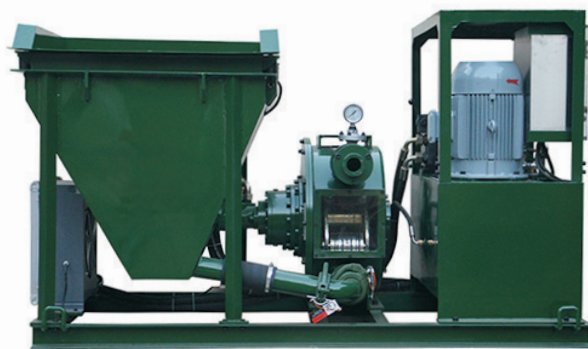


## GDS1500 Concrete Spraying Pump

GDS1500 concrete spraying pump run by a highly-reliable direct drive planetary gearbox and hydraulic power pack. GDS1500 concrete spraying pump is used for building dome, swimming pool etc, and pumping and spraying normal concrete, mortar, plaster and cellular light concrete

### Optional Part:

1. Honda GX630 gasoline engine and diesel engine for option;
2. Trelleborg squeeze hose for option.



Honda GX630 Gasoline engine



Nozzle Assy

### Technical Data

Item	GDS1500E	GDS1500G	GDS1500D
Drive type	Electric motor	Gasoline engine	Diesel engine
Power	5.5kw	Honda GX630	10hp, CFZ12
Overall Dimension	1.9x0.85x1.25mm	2.3x1x1.4m	2.15x1.1x1.15m
Working Pressure	1.5Mpa(Chinese Hose)/3.5Mpa(Trelleborg Hose)		
Output Capacity	1. 5-3m³/h		
Max. Aggregate Size	10mm		
Squeeze Hose ID	50mm		
Conveying Hose ID	38mm		
Squeeze pump Model	GH50-455		
Hopper volume:	200 Liter		
Requested air compressor	3m³/min, 0.5Mpa Pressure		
Vertical Conveying Distance	15m (Chinese Hose)/30m (Trelleborg Hose)		
Horizontal Conveying Distance	40m (Chinese Hose)/80m (Trelleborg Hose)		



Steel Rotor Plate



Upper Sealing Plate



Lower Sealing Plate



Rotor Body



Hopper



Cone Casing Pipe



Rubber Elbow



Clamp



Long Hose Joint



Short Hose Joint



Rubber Chamber



Nozzle House



Nozzle Tip



Clamp Device Assy



Base Plate House



Mixer



Mixing Shaft



Vibrator



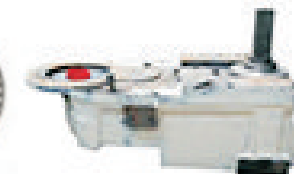
Water Hose



Whirl Stream Implement



Mesh



Gearbox



Rubber Spring



Clamping Spring



Hopper House



# Air Driven Refractory Gunning Machine



## Application:

- ★ Refractory Spraying;
- ★ Structural Concrete Repair;
- ★ Slope Stabilization;
- ★ Tunnels and Mine Support;
- ★ Pools and Spas;
- ★ Retaining and Fire Walls;
- ★ Dams and Reservoirs;
- ★ Sand and Gravel Backfill;

GAODE GZ-7AR/S Air Driven Guniting Machine provides a steady flow of material which allows uniform hydration and very smooth placement.

The adjustable output of material may be increased without sacrificing the quality of the application. The compact GZ-7AR/S is capable of spraying through 38mm inner diameter conveying hoses. Widely used in refractory spraying and installing project.

## Standard Features:

- ★ Direct Drive 5HP Air Motor;
- ★ Continuous Feed Hopper;
- ★ Bag Breaker Included;
- ★ 2 Blade Material Agitator;

Model	GZ-7AR/S
Maximum Output	7m <sup>3</sup> /h
Max. Aggregate size	10mm
Feed Bowl Pocket Number	16
Hose ID	38mm
Air Motor Power	5HP
Air consumption	9~11m <sup>3</sup> /min
Dimension	1100x790x920mm
Weight	230Kg

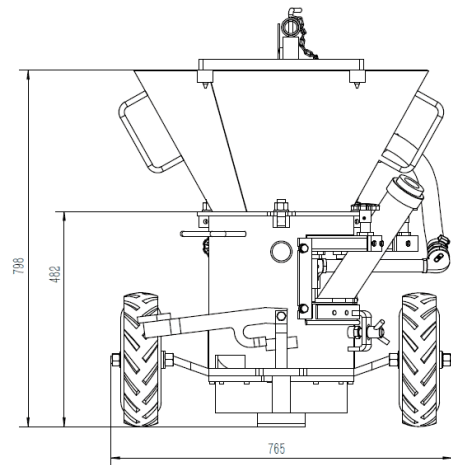
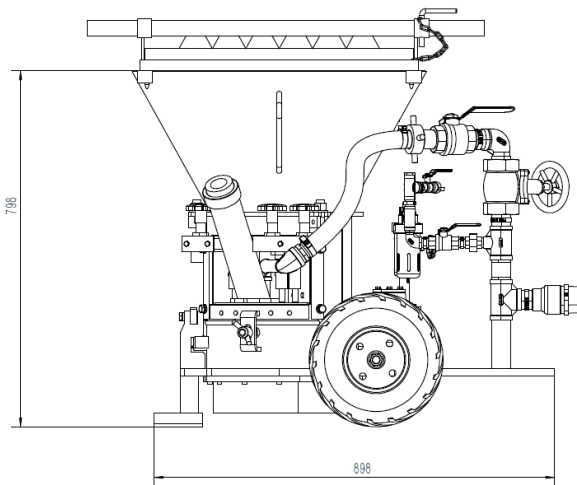




# AIR DRIVEN REFRACTORY GUNNING MACHINE

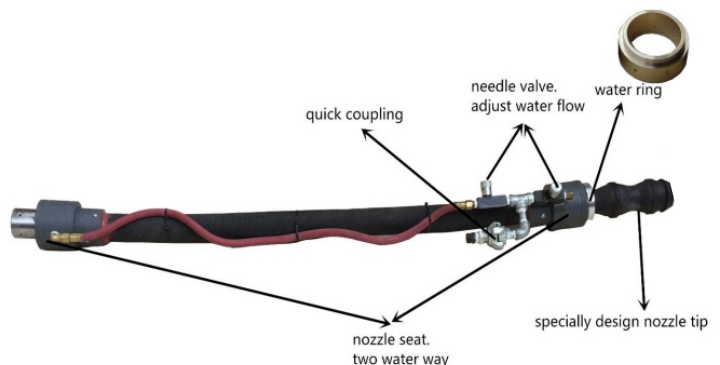
## Operating Principle:

1. The dry material is fed through the hopper down into the pockets of the rotary feed wheel below.
2. The rotary feed wheel, driven by a heavy-duty oil bath gear drive, rotates the mix under the conveying air inlet and material outlet.
3. With the introduction of compressed air, the mix is evacuated from the feed wheel pockets, then traveling through the outlet and into the hoses.
4. The dry mix material is then conveyed in suspension through hoses to the nozzle, where water is introduced and the water and dry material mix.



## Pre-dampening Nozzle Assy

- ★ Low rebound, low dust;
- ★ Reduce additive water amount;
- ★ Improve refractory compactness and strength;



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# GZ-15L Shotcrete Machine

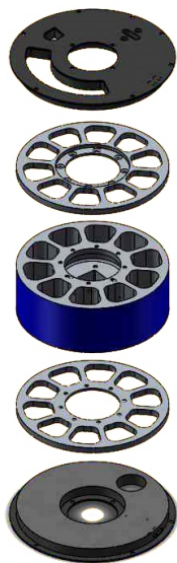
LARGE OUTPUT CONCRETE SPRAYING MACHINE. PEA GRAVEL CONVEY MACHINE.



GZ-15L shotcrete machine is one kind of multifunctional rotor type wet and dry concrete shotcrete machine.

The machine is used for conveying and spraying concrete, bean gravel, gravel, sand and other materials in mine, tunnel, culvert, subway, hydropower engineering, underground engineering, municipal construction, slope reinforcement and other projects shotcrete support, can also be used for TBM bean gravel injection filling.

Model	GZ-15L
Output capacity	10m <sup>3</sup> /h (wet)/15m <sup>3</sup> /h (dry)
Max. conveying distance	35m/200m
Max. aggregate size	20mm
Concrete slump	8~15cm
Conveying Hose ID	64mm
Speed Control	PLC+VFD+touch screen
Main Power	7.5Kw
Operation air pressure	0.2~0.6Mpa
Air consumption	16~18m <sup>3</sup> /min
Material Charging Height	1200mm
Dimension	2300x900x1350mm
Weight	1400Kg



- ★ Hydraulic floating compression, pressure automatic compensation after the rubber sealing plate is worn.
- ★ Conveying hose automatic anti-blocking function is composed of PLC, VFD, pressure sensor, quickly remove the material blockage in the conveying hose during the working process.
- ★ Sector hole to replace the circle hole in the rotor to improve the volume of the rotor and to decrease friction area, then with the same output, the rotor speed will be lower to improve the work life of rubber sealing plate and keep the motor power lower.
- ★ adding automatic lubricator to the rubber seal plate to make the
- ★ Work life of wear parts longer and make the motor power lower.



Automatic lubrication pump provides lubricating oil to seal plate

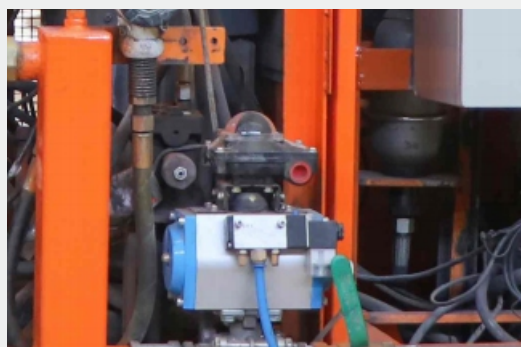


Four pieces of sealing plate lubrication point





Sector hole rotor body, improving the volume of the rotor and decreasing friction area



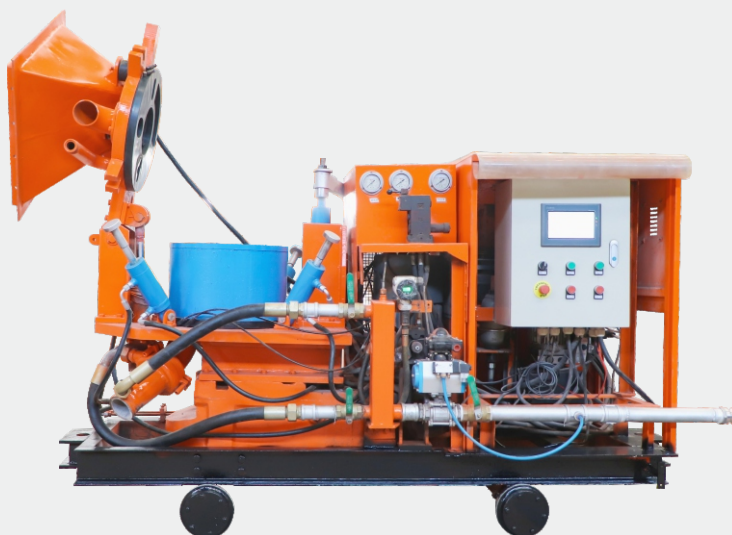
Pressure sensor and solenoid valve is used for automatic anti-blocking system.



Touch screen operation panel for easy parameter setting



Square hopper design, large loading capacity



Hydraulic turning hopper house and Hydraulic lifting rotor body, Easy to replace the sealing plate and steel rotor plate

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# GSZ-10S Concrete Spraying Machine



## Application:

- ★ Concrete renovation;
- ★ Swimming ponds, swimming pools;
- ★ Slope protection, rock consolidation;
- ★ Canal-renovation (sewage);
- ★ Mining and tunnel applications;

The GSZ-10S is the universal machine for the application of dry- and wet shotcrete in the thin-stream method. The new and very compact design of the machine impresses through its dimensions, weight and performance.

The GSZ-10S fits on every job site and is easy to install and operate. With its unbelievable output capacity range from 0.7– 10 m<sup>3</sup>/h (with 3 rotor sizes) the machine works on small concrete renovation work as efficient as on big slope protection or in mines. Less maintenance and wear cost makes it the ideal shotcrete machine for all applications. In addition, GSZ-10S is equipped with rubber sealing plate lubrication system, which can effectively reduce the wear of rubber plate, longer service life and better sealing effect.

Name	Data			
Machine Type	Rotary machine GSZ-10S			
Process	Thin-stream			
Motor power	7.5 kw			
Power supply	3X380-480V. 50/60Hz			
Rotor size in liters	2.7	7	10	13
Theoretical output in m³/h ①	0.7-2.0	2.0-5.3	2.9-7.6	3.7-10
Recommended hose sizes	D38	D51	D51	D64
Grain sizes in mm	12	16	16	20
Max.conveying distance	Dry		300/100	
in m horizontal/vertical	Wet		40/15	
Dimensions in mm	Length		1940	
	Height		H1	
	Width		856	
Weight in kg	1000 Kg			

① Based on a theoretical filling level of 100%. Prior to use or processing, always consult the current product data sheet of the products used.

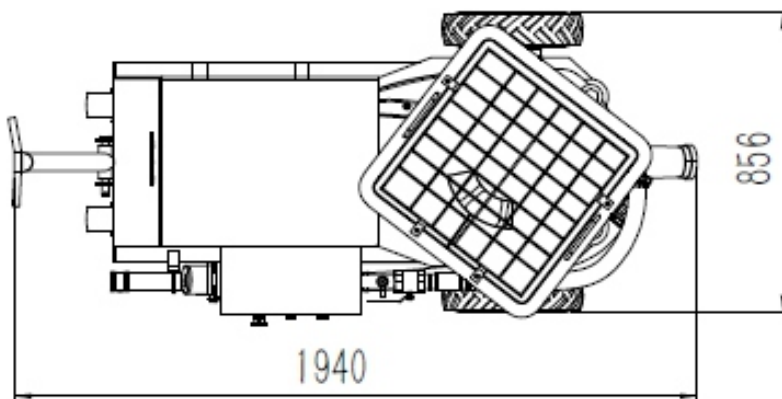
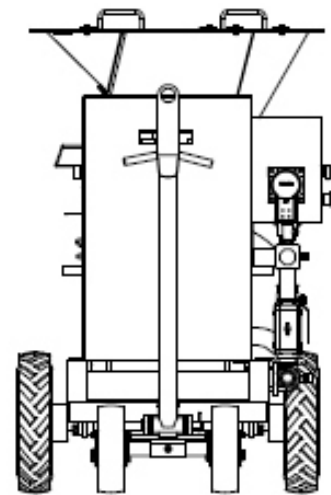
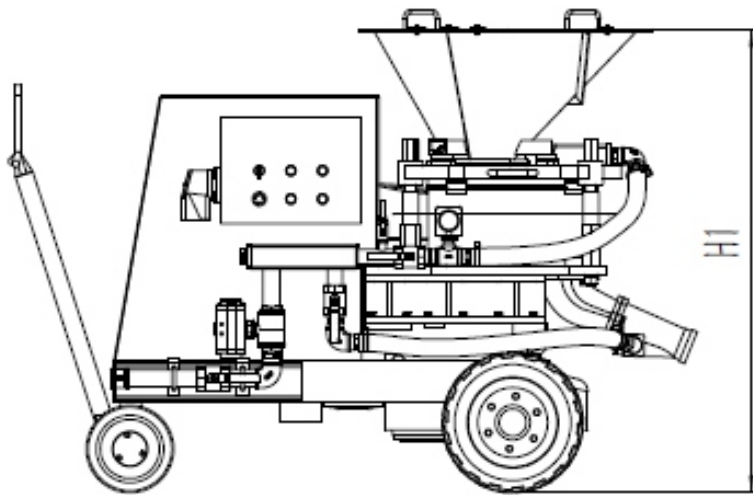
We could also customize according to your demands.





# GSZ-10S CONCRETE SPRAYING MACHINE

## Dimension Figure:



Rotor	H1
13L	1320mm
10L	1285mm
7L	1250mm
2,7L	1200mm

weight: ~1000Kg



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