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## Sand Blasting Room

### Sand Blasting Container



Industrial sandblasting equipment for sale is mainly composed of shot blaster assembly, shot blasting room, trolley transportation system, dust removal system, electrical control system and other parts.

#### Composition of Sand Blasting Container

Commercial sandblasting equipment for sale is mainly composed of shot blaster assembly, shot blasting room, trolley transportation system, dust removal system, electrical control system and other parts.

##### 1. Shot blasting room

The shell of the shot blasting cleaning room is made of color steel rock wool sandwich composite board and rectangular steel welding riveting structure, which is a strong, sealed and spacious operation space for shot blasting of the workpiece. The shot blasting cleaning room is composed of the left and right side walls, the rear sidewall, the top plate, the rubber guard plate, and the gate. The shot blasting room is equipped with metal halide lamps (protected by stainless steel mesh). The interior of the shot blasting chamber is protected by white wear-resistant rubber guards, and all guards are installed with bead bolts. The door of shot blasting room adopts container type manual folio.

##### 2. Shot blaster assembly

The shot blaster assembly is composed of a tank, a nozzle, a pneumatic element, etc. It is a large-capacity continuous operation double-gun shot blaster. The nozzle is made of boron carbide and is durable. The nozzle is made of ultra-wearable high-pressure rubber tube. Among them, the production of tanks has the qualification of making pressure vessels.

##### 3. Pellet material circulation purification system

The pellet circulation purification device includes a circulation system and a pellet separation purification system, which is composed of a screw conveyor, a bucket elevator, a pellet sand separator, a pellet supply gate valve, and a pellet delivery pipe.

Screw conveyor:

The screw conveyor is composed of a casing, a screw shaft, a bearing with a seat, a drive mechanism, etc. It is a serialized part of our company, with high versatility, high interchangeability, and stable and reliable performance.

This component is responsible for conveying the shot sand mixture to the elevator. The screw conveyor is located at the bottom of the shot blasting cleaning chamber, and the screw blades are welded to the drive shaft. When working, the conveyor motor drives the screw conveyor to rotate through the cycloid reducer to transport the pellets to the discharge port, and then the discharge port transfers the scattered pellets and dust mixture to the bottom of the elevator.

The two ends of the screw conveyor are protected by a three-stage seal, a labyrinth seal cover is added inside the end plate, an oil seal is used for protection in the middle, and the bearing is separated from the end plate outside the end plate. Once the pellets and dust are extruded, they will fall from the gap between the end plate and the bearing and will not enter the bearing.

Bucket elevator:

The bucket elevator is composed of cycloidal pinwheel speed reducer, upper and lower rollers, conveyor belt, hopper, closed barrel and tensioning device, etc., and centrifugal gravity is used for blanking.

When working, the hopper fixed on the conveyor belt scrapes the pellets at the bottom and sends the pellets to the top, and then falls by centrifugal gravity. Adopting special transmission belt of polyester wire core, high strength and high tensile performance.

The pulley adopts a squirrel-cage structure with a slight protrusion in the middle, and each spoke is processed by chamfering. It not only improves the friction between the lifting tape and the pulley, avoids the slipping phenomenon of the old-fashioned light pulley and the pulley to the belt, but also reduces the pretension of the lifting belt and extends the service life; at the same time, it avoids the embedding of scattered bomb. Between the pulley and the belt affects the transmission.

There is a 10% margin for the lift. Because the hoist falls by centrifugal gravity, each time it falls, there will always be part of the material falling back into the hoist, so it is necessary to increase the lifting amount appropriately.

Pellet separator:

This machine adopts the world's most advanced full-curtain flow curtain air separation pill residue separator, and its separation efficiency is  $\geq 99.5\%$ . This separator is the latest type of separator of our company. The separator is one of the key components of this equipment. The design size of the separation zone directly affects the separation effect of the separator. If the separation effect is not good, it will accelerate the wear of the blasting blade.

#### 4. Trolley conveyor system

Flat car transportation is adopted; the load-bearing is customized according to the actual situation of the customer. According to the condition of the workpiece, manually push the flat car into the cleaning room to receive shot peening. The front of the wheel can be equipped with a polyurethane scraper to scrape off the projectiles above the rail.

#### 5. Dust removal system

Dust removal system includes a filter cartridge dust collector, fan, motor, pipeline, chimney, etc.

Automatic pulse back-flushing, dust-removing valve adopts pneumatic control, and a dust collecting barrel with a roller is arranged under the ash hopper, to avoid the secondary dust phenomenon caused by back-flushing

The dust filter cartridge can be easily removed for cleaning and reuse.

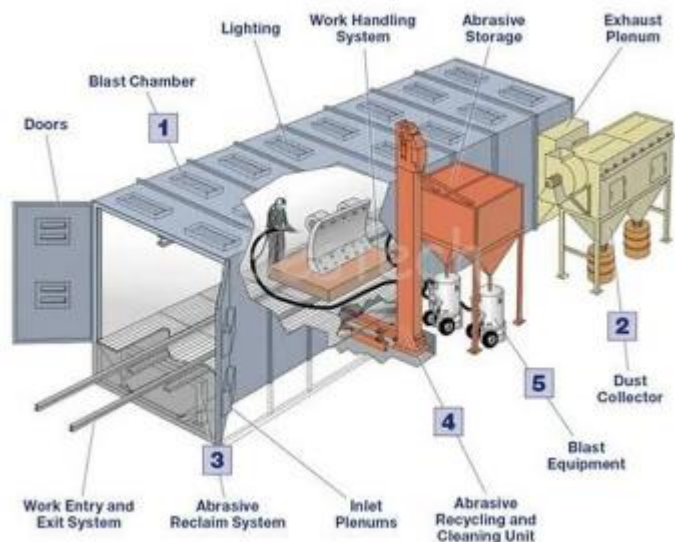
#### 6. Electrical system

Shot blasting machine, maintenance door, projectile controller and projectile circulation system are all equipped with electrical interlock and self-locking mechanisms to ensure the reliable operation

of equipment and the safety of operators. The dust blower back blowing adopts automatic pulse control

Size of workpiece (L*W*H)m	3*2.6*2	4.5*3.5*2.5	7.5*5*3.8	26*3.1*4.6
Carrying capacity(t)	3	5	20	80
Power(Kw)	37	40	86	186

## Automatic Recycling Sand Blasting Room



Sand blasting room also called sand blasting machine or sand blast equipment, suitable for large work piece surface cleaning, rust removal, increase the work piece and the adhesion between the coating effects

### Automatic Recycling Sand Blasting Room

Sand blasting room also called sand blasting machine or sand blast equipment, suitable for large work piece surface cleaning, rust removal, increase the work piece and the adhesion between the coating effects, sandblasting room according to the abrasive way of recycling peening room is divided into: mechanical recycling type shot blasting room and artificial recovery type shot blasting room. The artificial recycling sandblasting room due to the economic and practical, simple, convenient, simple materials, greatly reduced the cost of sandblasting room cost, also accepted by many customers, especially small and medium-sized enterprises.

Automatic Recycling Sand Blasting Room is also called shot blasting room and sand blasting room. It is suitable for surface cleaning and rust removal of some large workpieces, and increases the adhesion between the workpiece and the coating. The sand blasting room is divided into the shot blasting room according to the recycling method of the abrasive. : Mechanical recycling type shot blasting room and manual recycling type shot blasting room. Among them, the manual recycling type blasting room is economical and practical, simple and convenient to make, and the material is simple, which greatly reduces the cost of the blasting room and is also accepted by many customers.

Main Parts	Sand blasting chamber
	Sand(shot) Storage Hopper
	Sand blasting device
	Bucket elevator
	Screw conveyor

Elevator
Conveyor
Separator
Abrasive recycling system
Lighting system
Dust Collector
Steel grating
Trolley system

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