



Alfema Model SVA



MODEL SVA 1400: maximum working height 1400 mm or 55 inches
MODEL SVA 1800: maximum working height 1800 mm or 70.8 inches
MODEL SVA 2500: maximum working height 2500 mm or 98 inches
MODEL SVA 3200: maximum working height 3200 mm or 125 inches

Glass thickness on all models: 2 to 50 mm (up to 2")

The Alfema Automatic Sand-Blasting Machine consists of the following components



BOX

Box size for model SVA 1400: 1700mm X 1000 X h2400 or 55" X 66" X 95"

Box size for model SVA 1800: 1700mm X 1000 X h2800 or 66" X 40" X 112"

Box size for model SVA 2500: 1700mm X 1000 X h3500 or 66" X 40" X 138"

Box size for model SVA 3200: TBD

Loading capacity: 600KG all Models or 1323lbs

The box is constructed with hard thick sheet steel with a double coating of paint (gray #7032 and yellow #1028). It is completely insulated and sound – proofed in order to prevent dust and to reduce noise.

The door is large (600 X 1000 or 23.5 in. X 39"). The door is located on the front side of the box, allowing the operator easy set up of the guns. The door is equipped with a stop/safety micro switch and has a porthole and rubber sleeves for possible manual operation.

The side opening is 75mm or 3" to permit the passage of glass with studs. The glass is positioned on a motorized transfer belt and is supported by an inclined frame made of galvanized iron bars mounted on small plastic wheels. The speed can be selected from 100 to 500mm per minute or 4" to 19".

The sand box is located under the cabinet and has inclined sides to allow a good recovery of the abrasive material.

ABRASIVE SPRAY GUN

The machine is equipped with five (5) automatic spray guns and a manual spray gun and trigger. The aerodynamics of the guns has been carefully studied and perfected by the Alfema team. It allows for a very high range of the air/abrasive mixture over a wide treated surface and assures exceptional speed of the sand bath.

Each gun is endowed with a special feeder placed in the lower part of the box containing the abrasive material.

The pressure of all the guns can be regulated between 0 to 10 atmospheres using a relevant manometer.

Spray Gun Handling

The spray gun is on a robot system adjustable for height and speed, and it is placed on the front side of the box.

[back to top](#)

CONTROL PANEL

The control panel is located on the side of the box and contains a PLC manufactured by Seimens, which keeps the system controlled. 24 Volts of electricity operate the panel.

[back to top](#)

RACK

The machine is equipped with:

Two (2) racks, one on the right and one on the left. The size is 2500mm for each size or 98 inches.

It is possible to add more if ever necessary. The height is 1500mm or 59 inches.

One (1) internal rack with a size of 1600mm X 1500mm or 63" X 59".

The exit rack is equipped with a stop switch to avoid glass from falling.



[back to top](#)

AIR DUST COLLECTOR (CYCLONE)

Capacity 2500 cubic meters per hour.

Size: 600mm X 600mm X 2100 ht. Or 23.5 inches X 23.5 inches X 82.5 inches.

The dust collector is used for collecting and selecting the abrasive material coming from the sand bath box and to send it on to the filtering system.



AUTOMATIC FILTERING GROUP

Automatic de-dusting.

Size 920mm X 1310mm X 2550mm or 36" X 51.5" X 100".

Benefits of filtering group:

- Environmental protection
- Improvement in the working area
- Higher yields
- Excellent recovery of exhausted material
- Timed automatic shaking of the material

Special note: Alfema equipment runs substantially cleaner with no need to install catch bucket at end of conveyor.

TECHNICAL DATA

Speed: 1 minute, 30 seconds per square meter of glass. Note: The Alfema equipment is substantially superior in speed to other automatic machines. Alfema uses 5 sand-blasting nozzles.

Glass Thickness: 1 to 50 mm, 2 inches maximum thickness.

Minimum size: 8 inches X 8 inches.

Glass Working height:

SVA 1400: 55 inches

SVA 1800: 70 inches

SVA 2500: 98 inches

SVA 3200: TBD

Weight:

SVA 1400: approx. 2500 lbs

SVA 1800: approx. 2700 lbs

SVA 2500: approx. 3200 lbs

SVA 3200: TBD

Length: 22 feet

Power: 4.5 KW. Note: The Alfema machine has more KW than other sand-blasting equipment due to a stronger vacuum system, which allows the equipment to run substantially cleaner, creating a much less dusty environment.

Feeding tension: 400V 50/60 HZ and neutral.

Air Consumption:

Each installed spray gun: 600 liters per minute, 3000 liter/min total.

The amount of air pressure for all SVA models is 6 ATM, which is equivalent to 88 PSI or 5.9 Bar.