



ASSB-11 – Sand Blaster

The Sand Blaster (ASSB) is a machine used in photovoltaic (PV) production lines. Its task is to remove the metallic layers from the sides of the PV panels to insure human contact safety of the panels. For this purpose it uses a recycling sand blasting system with vacuum cleaning. The transport system is automated with pneumatic components.



The Sand Blaster (ASSB-11)

The machine consists of the transport system moving the panel under 4 blasters. 2 blasters remove on the longitudinal sides first, then 2 other on the shorter sides. The panels are almost constantly in motion. The sand is recycled by the system. The ASSB has to be set up in its own room with a slight negative pressure, and with the personel in breathing system. The system is very productive: with multiple panels under sand blasting at the same time, cycle time is well under a minute.

ASSB-11 – Sand Blaster



Specifications

Power:	9.1 kW
L × W × H:	6.1 × 3.63 × 2.6 m
Mass:	1380 kg
Workpiece:	1245 × 635 mm (configurable)
Cycle time:	50 sec or better
Compressed air requirement:	6 bar
Air consumption:	2800 slm
Sand type:	silicon carbide or aluminum oxide
Grain size:	120 ±10 μm
Sand lifespan:	about 20 cycles
Removal width:	adjustable via masking

Features

Sand recycling system
Dust removal brushes
Suitable for different workpiece widths
Four sandblasting heads for high productivity
Blaster nozzle: 6 mm B ₄ C (boron-carbid)
Blaster charge: 120 μm sieve sized Al ₂ O ₃ or SiC sand
Adjustable width of the insulating frame on the workpiece in a range of 5~15mm
Sandblasting simultaneously from two opposite sides at the same time
Automatic transport operation
Multiple panels under process
1 machine can serve multiple production lines
Abrasion resistant tubes
European CE-compatible