

Blast Cleaning of Flat or Bend Section Parts

A compact small roller conveyor type section blasting machine is a useful production tool for surface preparation of flat items before a larger assembly is carried out with it. Examples are:

Type of Industry:

- * Steel plate bracket & flanges
- * Rubber coated shock absorber
- * Marble slab surface texturing
- * Automobile chassis steel
- * Wood grain texturing

Design Application:

- * Surface blasting before painting of steel structure fabrication on I-beams with flanges and brackets welded for bolting
- * Cleaning of metal surface & provide it with clean roughen profile for adhesion bonding of polymer material
- * Decorative finishing by removing softer element or homogenous texture creation by using control blasting intensity
- * Thin section formed steel surface cleaning alternative before coated finishes by controlled mechanise production
- * Decorative hard wood planks with sawn grains removed exposing the whole grain texture

Case Study on Project ref WT42 for a Marble Slab Surface Texture

(Detailed descriptions are available upon request)



General assembly view of the equipment will consist of the blast wheels that propel abrasive medias to the part surface achieving the particular surface preparation required.



An electrical control system is deesigned and built to carry out the various functions required for achieving the production quality in the parts finishing.



Material handling in the form of motor driven roller conveyor is an integral part of the machine which serve to move the parts through the machine at selected variable speed.



Marble Slab Surface Texturing



The process of blasting is done inside the liner installed cabinet with inlet and exit covered by rubber curtain to prevent excessive abrasive coming out. Safety are ensured with built in metal guard for all power transmission installation. Opeartor will wear safety google as part of the procedure to protect the eyes from accidental abrasive shot.

Dust collector is an important module of the machine. It is connected to the cabinet as well as the abrasive separator to remove air borne dust generated through out the production process. The dust collector separates dust by high efficiency cartridge filters that can operate continuously with automatic filter dislodging of collected dust.

Ref WT86 Project Technical Specification: Flange Plate Blaster of 0.5m Wide Blast Cleaning Machine

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|----------------------------|---|
| 1. Installation Area | Up to 5mL x 1.5mW x 2.7mH |
| 2. Production Speed | 0.5 to 1m/min Adjustable as per finishing standard needed |
| 3. Blasting Power | 2 x 3HP |
| 4. Electricity Line Input | 60Amp 3 Phase + N + E |
| 5. Compressed Air Input | 20CFM 5 Bar |
| 6. Abrasive Type | Steel Grit G40 + S330 |
| 7. Dust Collector Capacity | 1000CFM 44m2 filter area with reverse pulse jet cleaning |
| 8. Conveyor | Roller 600mm wide variable speed inverter control |
| 9. Control System | Main electrical panel box c/w wiring |

