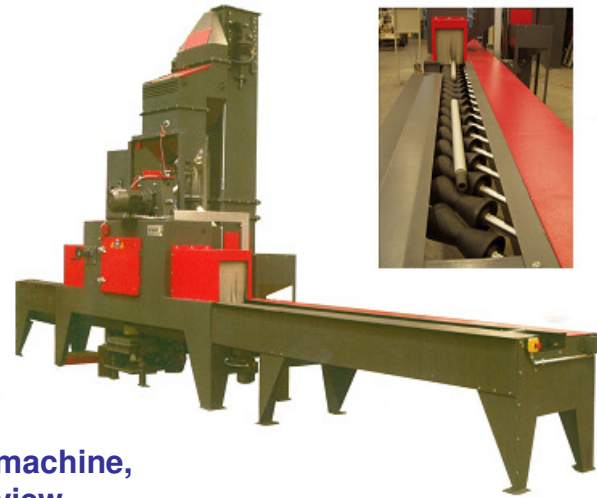


Our process plants are equipped with:

- Tube reception station
- Shotblasting or continuous brush machine to remove scale rust and dirt
- Weighing device for single tubes
- Length measuring device for single tubes
- Preheater
- Transport system to painting cabinet equipped with light sensor for tube diameter detection

Rösler-Tube shotblasting machine with double conical roller conveyor



Brush machine, inside view



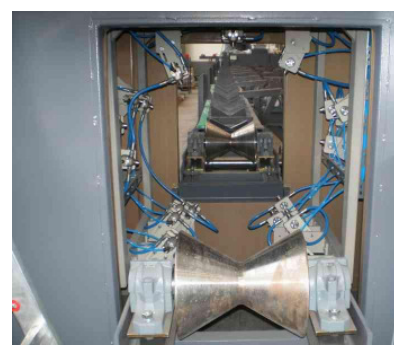
Brush machine for tubes with outer diameter ranging from 168 – 406 mm



Painting cabinet for single tubes with adjustable spray pattern

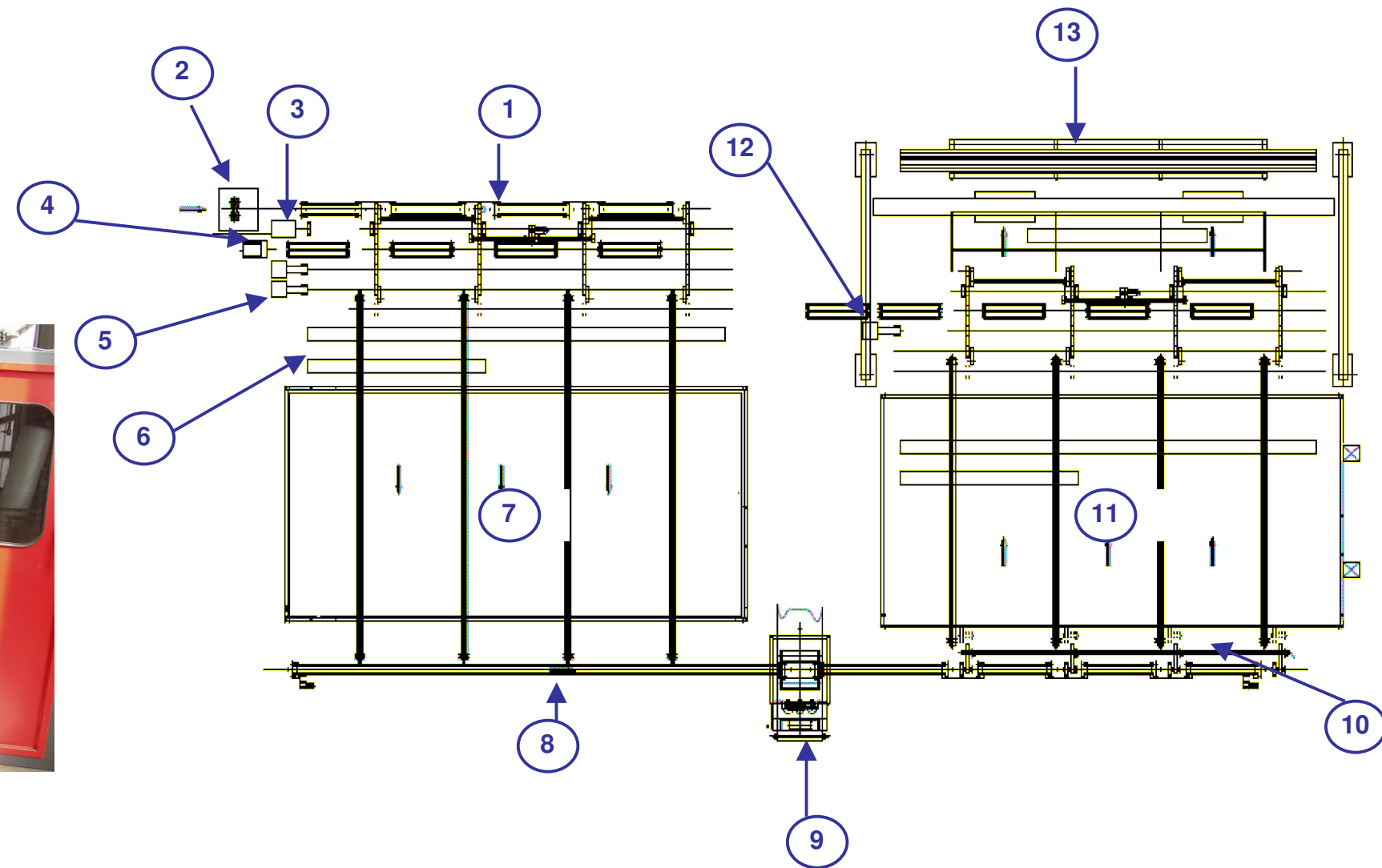


Inside view painting cabinet



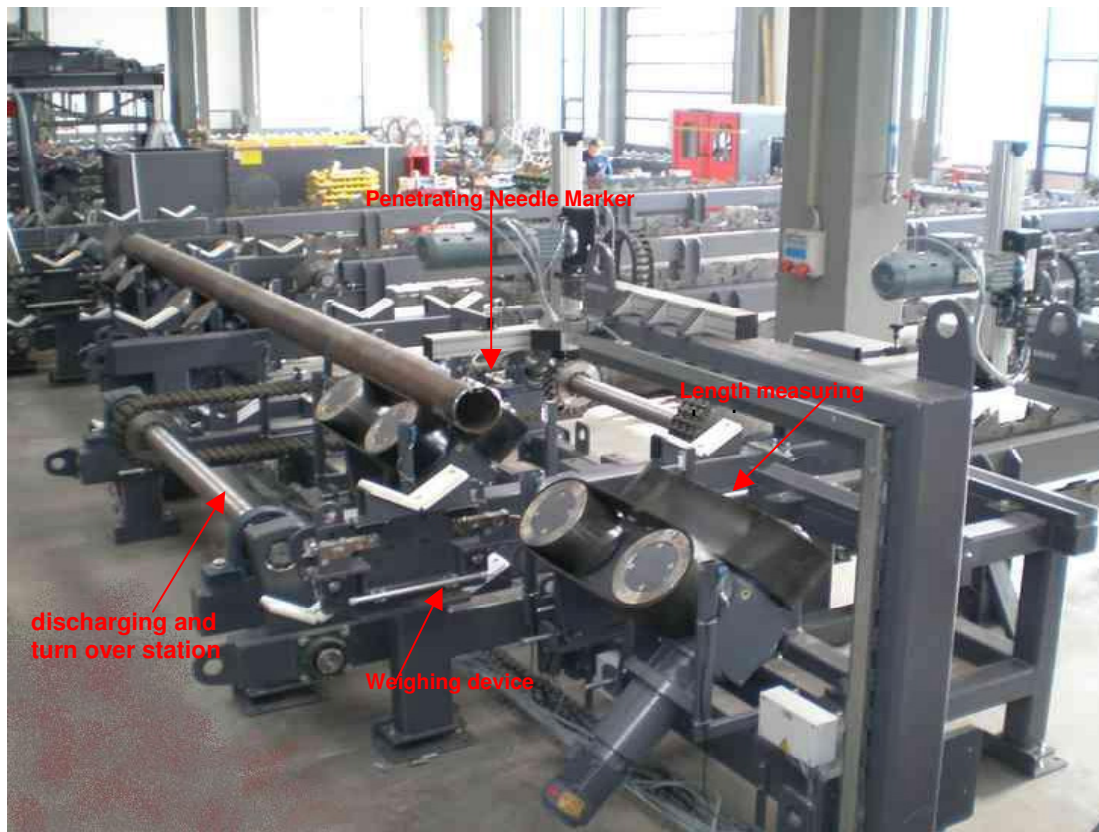
Process diagramme

- | | |
|-----------------------------------|--|
| 1.) Tube reception station | 8.) Transport system to painting cabinet |
| 2.) Shotblasting or brush machine | 9.) painting cabinet R 400 TF |
| 3.) Weighing device | 10.) Conveyor to paintdryer |
| 4.) Length measuring device | 11.) Heated paint dryer |
| 5.) Penetrating needle marker | 12.) "Inkjet" marker |
| 6.) Conveyor through preheater | 13.) Hexpacking machine for tubes |
| 7.) Preheater | |



Single Tube Process Plants

Transport, painting and paint drying plant, including length and weight measuring and subsequent marking of tubes, completed with packing machine for "hex" or other pack shapes.



Penetrating Needle Marker:

Up to four characters per second with approx 8 mm height of the characters can be engraved specific for each tube.

Coloured Ring or Strip Coding Device:

Up to three different colours can be used, to provide rings around the tube or strips alongside of the tubes.

Inkjet Marker:

For 30 mm high characters in a single row alongside the tube. The acquired data from the plant sensors (length and weight) is automatically transferred to the inkjet control.

Tube Packing Machine:

The tubes are picked by vacuum sucking devices and put into the pack forming arms. The portal crane exactly positions each tube, so that there is no damage of coating surface by friction between tubes.



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