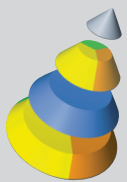


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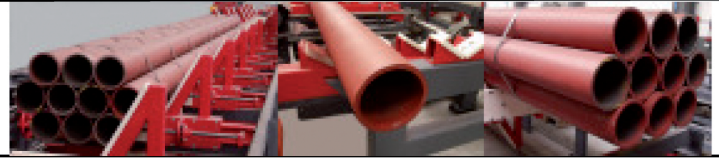


Round bar processing



Round bar processing, tube blasting, tube bundling

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These specialised and highly efficient tube blast machines allow a comprehensive and uniform shot blast treatment of tube and round bar external surfaces as a continuous process.

With their modular design the machines can be easily integrated into existing production facilities.



Applications

Brushing, de-rusting, descaling, etching, painting (incl. pre-heating and drying), length measurement and weighing, marking, bundling

Features of the Rösler tube processing facility

- Fully automatic processing for continuous production
- Easy integration of entire or individual system elements into existing manufacturing sequences
- Accommodation of different tube lengths and diameters
- Uniform cleaning and evenly applied coatings / I.D. marking of part or full lengths
- Pre-stored programme selection for product change with consistency and repeatability
- Low levels of wear due to a manganese steel housing and solid manganese lining of the
- Compact modular design with roof mounted blast wheel
- Multiple blast module options for high volume production

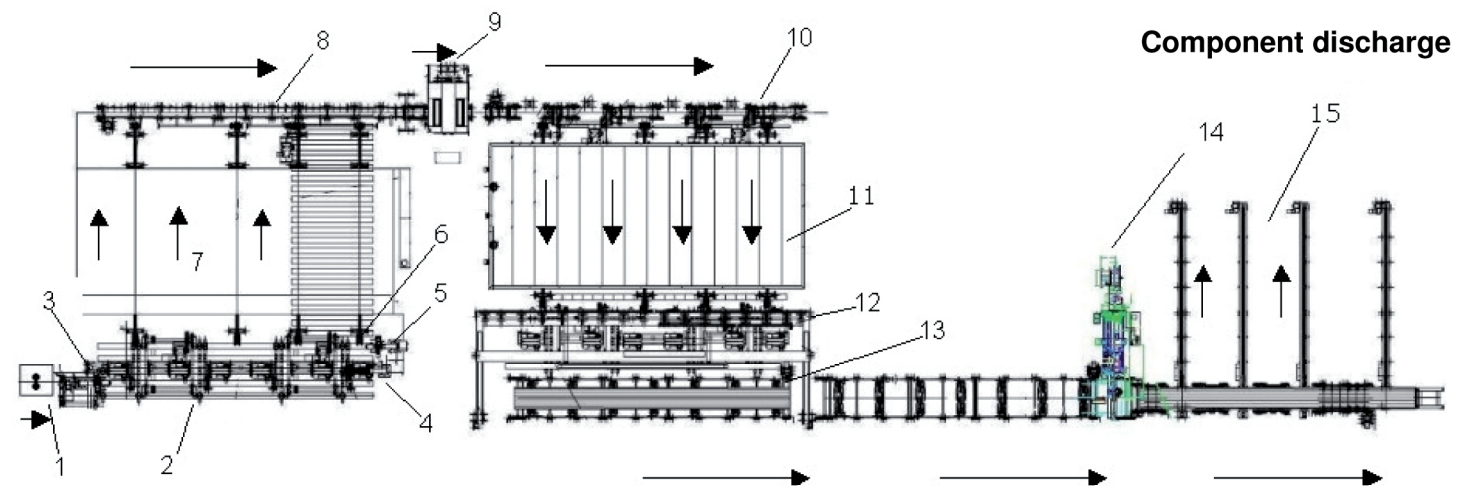


Single tube processing lines

This fully automatic processing line will blast, paint, dry, measure, weigh, label, and package into a hexagonal bundle ready for transportation.



Flow chart of a single tube processing line



Component supply

- 1.) Blasting or brushing station
- 2.) Transfer station/mechanical transfer unit
- 3.) Weighing machine
- 4.) Length measuring unit
- 5.) I.D. marking unit
- 6.) Transfer Conveyor to the pre-heating unit
- 7.) Pre-heating unit

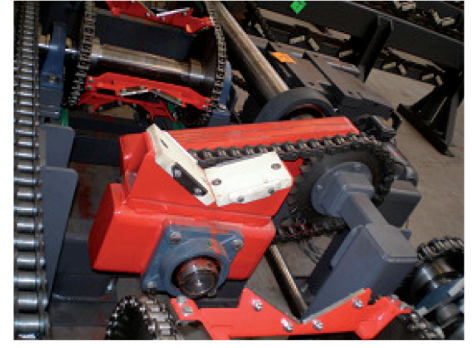
- 8.) Mechanical transfer unit/long chain conveyor
- 9.) Painting chamber R 400 TF
- 10.) Conveyor system to the after-dryer/mechanical transfer unit
- 11.) Heated paint dryer
- 12.) Colour marking/pneumatic conveyor
- 13.) Tube bundling machine
- 14.) Tube packing machine
- 15.) Cross conveyor

System elements for easy integration into existing production lines



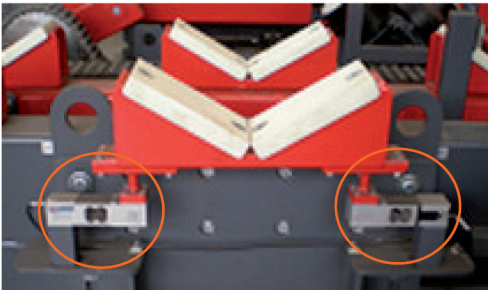
Blasting or brushing station (1):

Will accommodate nominal diameters between 1" and 20".



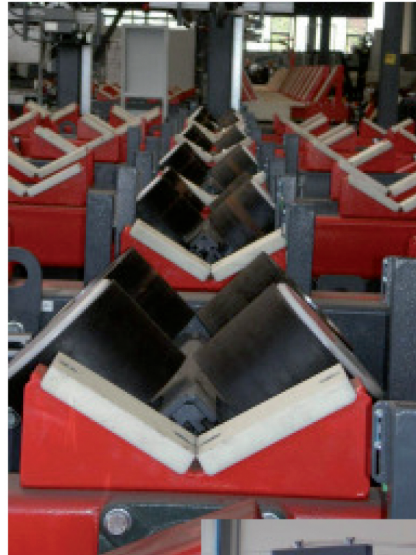
Mechanical transfer unit (2 + 10):

A specially designed chain mechanism with a 360° rotation transfers components to a cross conveyor.



Weighing station (3):

Measuring/ load cells, establish the weight of the tubes.



Length measuring unit (4):

A light barrier and a friction tape (with converter) to establish the length of the tubes.



Permanent I.D. marking unit (5):

Labels the individual tubes with their weight, length measurements, manufacturer's name etc.



Cross chain conveyor (6 + 15):

Individual tubes are conveyed to parallel conveyor systems or processing facilities.



Pre-heating unit (7)



Long chain conveyor (8):

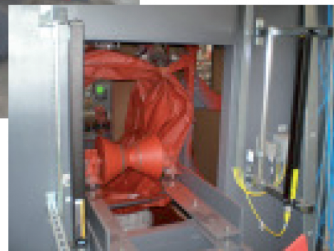
The tubes are conveyed on prisms between two circulating chains. Method used for freshly painted components.

System elements for easy integration into existing production lines



Heated paint dryer(11)

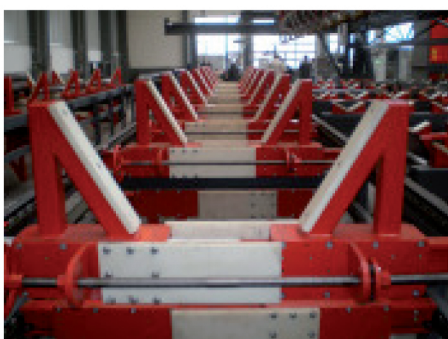
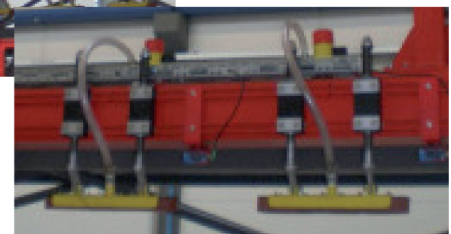
Painting chamber (9):
Tubes with nominal diameters between 1" and 20" can be painted.



Colour marking (12):
Rings, stripes or colour-coded end marking options can be selected.



Tube bundling machine (13):
Equipped with vacuum transfer and adjustable support guides.

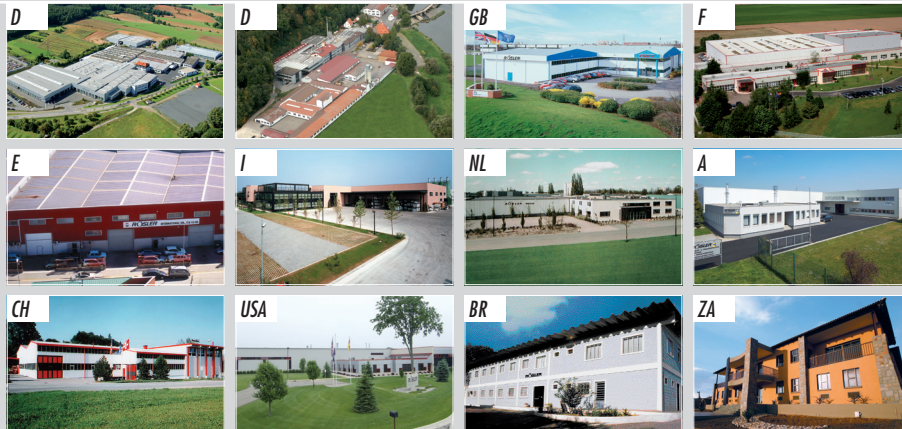


Tube packing plant (14):

The adjustable support guides retain the tubes as a hexagonal form for automatic strapping and transfer to the buffer zone to await transport.



The finished product



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