

Robot Powder Spray for Slabs

This system marks characters on the surface of hot slabs, defined by a bright, white line ("handwritten" type) obtained spraying a special metal powder by a pistol handled by a six axes robot. The markings are very well readable, even in presence of irregular surfaces, also from distance. The system assures excellent reliability and close to zero maintenance and operational costs.

Main Marking Features

- Hot application up to 1200 °C
- Marking position: on the front or side surface
- One or more lines, min. character height 40 mm
- Symbols: letters, numbers, special characters (logos)
- Standard or OCR fonts



System configuration

- Six axes robot with marking head
- Integrated cooling system
- Pneumatic cabinet
- Powder preparation and supply unit (with air dryer)
- Work cell with safety fence and thermal protection
- Control desk with HMI

Functional features

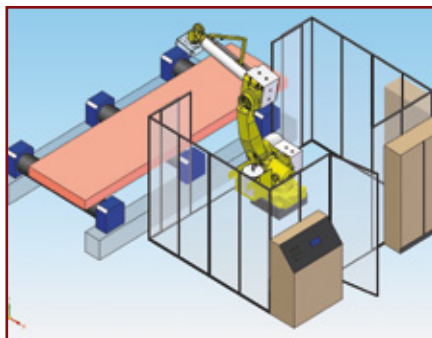
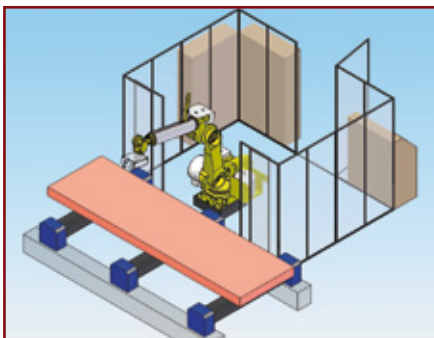
- Special function for marking on fly following the slab moving at casting speed
Automatic detection of product dimension and position (centering device)
Many parameters can be adjusted / selected by the operator via Control Unit, f.i.:
- Characters dimension (width, compression, height)
 - Host connection (Ethernet, Profibus or other common industrial fieldbus)

Optional function

- High pressure water descaler
- Using OCR fonts, markings can be automatically read by our AURS system (combined marking / reading function to achieve automatic tracking of slabs)

Powder features

Type: metal base powder
Colour: white
Toxicity: not toxic
Consumption: from 0.5 to 2 g/character according to size



Certif. n° 1235/98



Certif. n° EMS-1724/S

