

ROBOT WIRE SPRAY FOR BLOOMS

This system marks characters on the surface of hot products (typically blooms), defined by a bright, white line ("handwritten" type) obtained spraying molten metal by a pistol handled by a six axes robot.

The markings are very well readable, even in presence of irregular surfaces, also from distance. Outdoor storage is possible also for long time. 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 the side surface

One or more lines, min. character height 50 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

Automatic detection of product dimension and position (centering device)

No clamps required

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 functions :

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 billets)

Wire features:

Type: solid aluminium or alumina core wire (others metals available)
Colour: white / yellow
Toxicity: not toxic
Consumption: from 1 to 3 g/character according to the size

