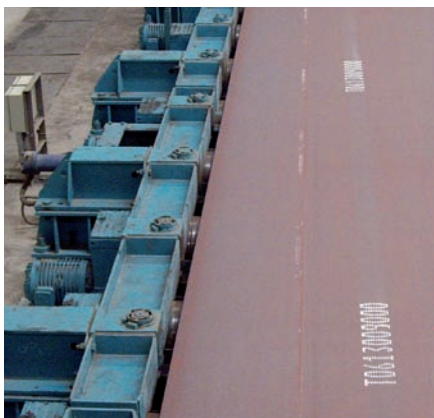


Tema Multi for Plates

This system marks steel plates by our TEMA Multi paint / ink marking head assuring a cost effective solution for high quality marking at high speed. Different configurations are available to comply with Customer specifications and installation lay out.

Main Marking Features

- Cold and Hot application up to 1100 °C
- Marking orientation: crosswise and/or lengthwise (perpendicular or parallel to plate transport)
- Static (plate stopped under marking machine) or dynamic (on fly) marking at high speed
- Marking position: on both top and bottom surface
- Symbols: letters, numbers, special characters (logos), Data Matrix code
- Height of symbols from 28 mm to 200 mm, in one or more lines (up to 10)
- Font based on dot matrix: 7 , 9 or 12 dots in height; special fonts up to 24 dots in height for special customer logos
- High quality marking also in case of plate waviness



System configuration

- Structure, being a cantilevered beam (fixed or swivelling) or a bridge overcrossing the plate conveyor line
- One or more TEMA Multi marking heads
- Paint preparation cabinet (including circuit for paint recirculation)
- Pneumatic cabinet
- Automatic cleaning system
- Plate speed / position detectors
- Power and control cabinet
- Control desk with HMI
- For hot applications, the system is equipped with a kit for thermal protection

Functional features

Flexible automation functions assure precise positioning of the markings, symbols size automatically adaptable to plate width/length, different dot matrices, top quality of the marking even if the plate varies its speed or stop, retracts and then restarts. Management of Mother / Daughter plates. Many parameters can be adjusted / selected by the operator via Control Unit, f.i.:

- Dot dimension (4 - 20 mm, automatically adjusted to plate temperature)
- Characters dimension (width, compression, height)

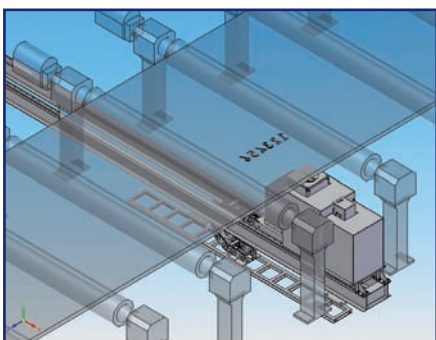
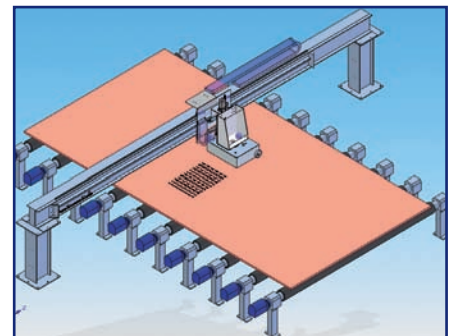
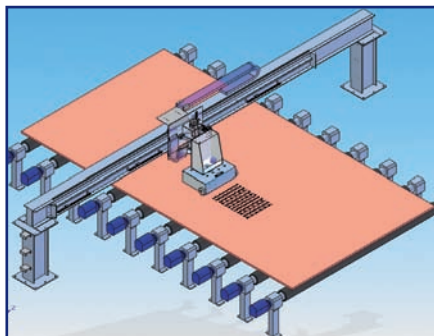
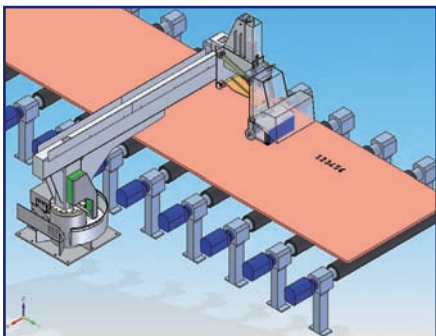
Host connection (Ethernet, Profibus or other common industrial fieldbus)

Optional function

- Air knife to clean the plate surface before marking
- Dedicated sensor to detect bended plate heads
- Tools for editing fonts and modifying parameters
- Marking a *Data Matrix* code readable by a standard reader (combined marking / reading function to achieve automatic tracking of plates)

Paint / Ink features

Type:
 cold: paint (solvent or alcohol base), ink (MEK or alcohol base)
 hot: paint (solvent or water base)
Colour: white (other colours available for cold applications)
Consumption: approx. 10 g for 1000 dots (about 60 chars 70mm high)



Certif. n° 1235/98



Certif. n° EMS-1724/S

