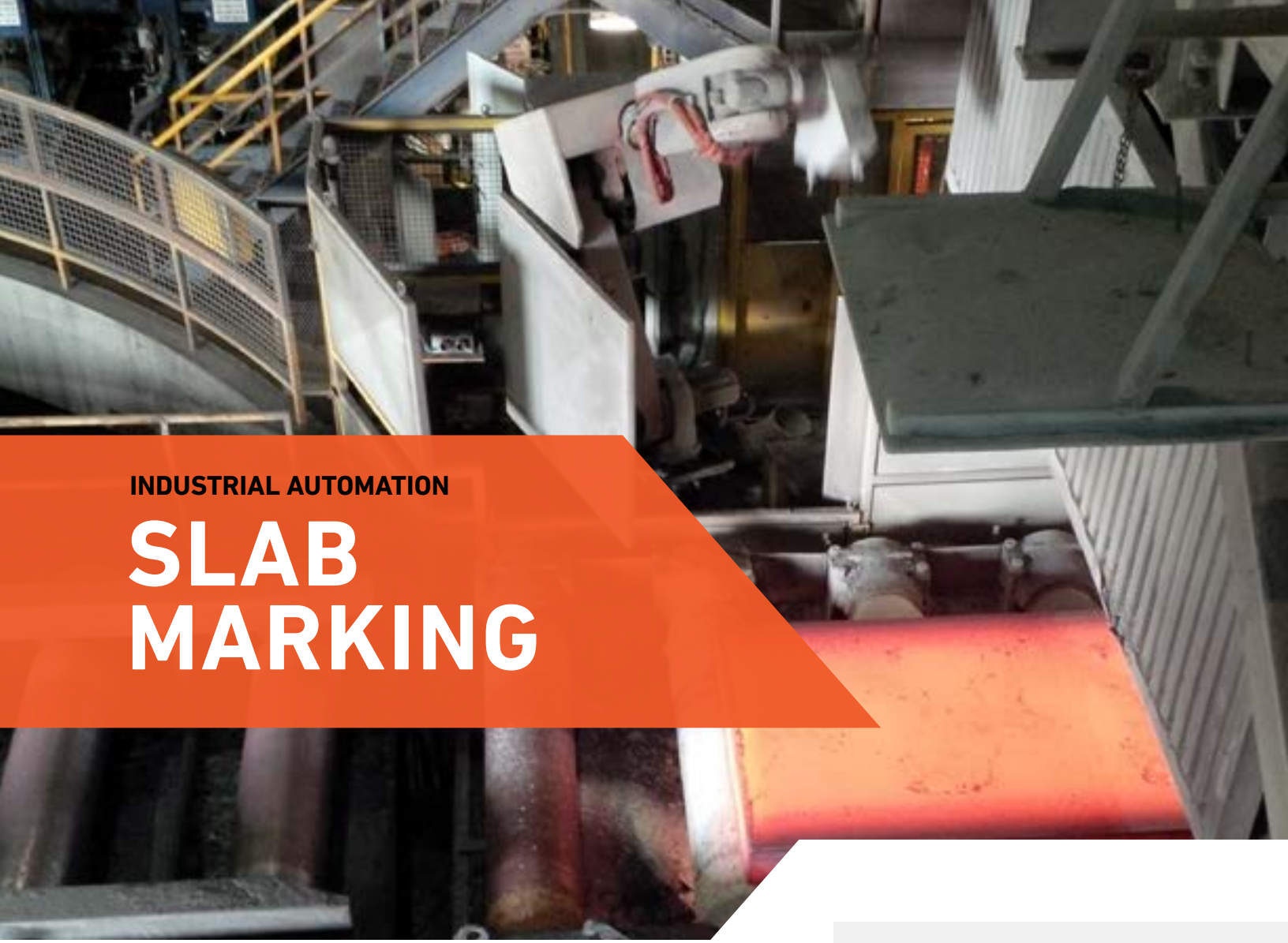

INDUSTRIAL AUTOMATION

SLAB MARKING

The continuous writing slab marker has been designed around a standard robot for extreme mechanical reliability and high speed marking. Tebulo robots have been in operation in mills around the world for many years and have proven to be reliable in tough conditions.

The slab marker is based upon a heat protected Single Nozzle paint marker equipped with a de-scaling device. The robot in combination with this paint spray system is used for marking hot products with surface temperatures up to 1000°C.

The slab marker measures the position of the slab on the roller table and writes the characters in a line on the side of the slab.

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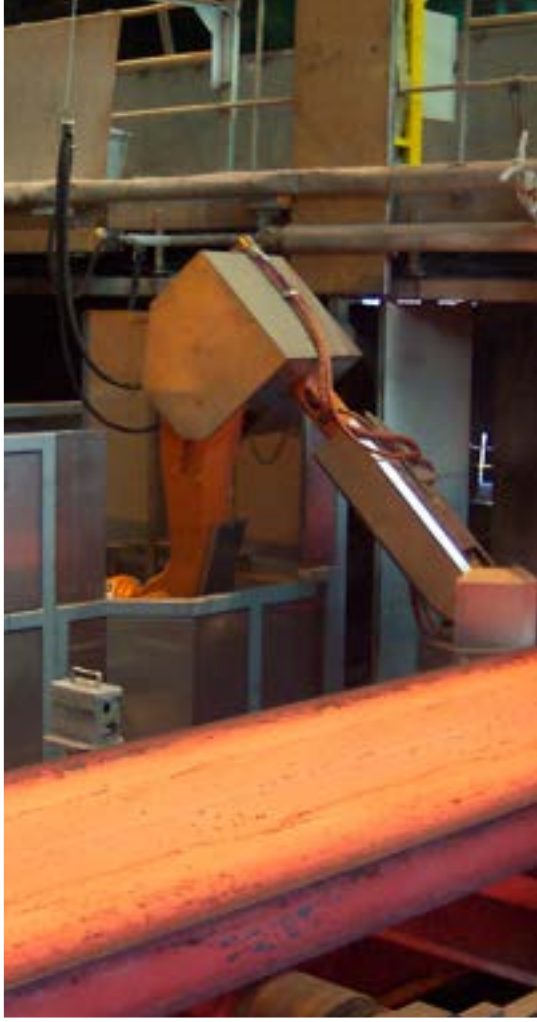
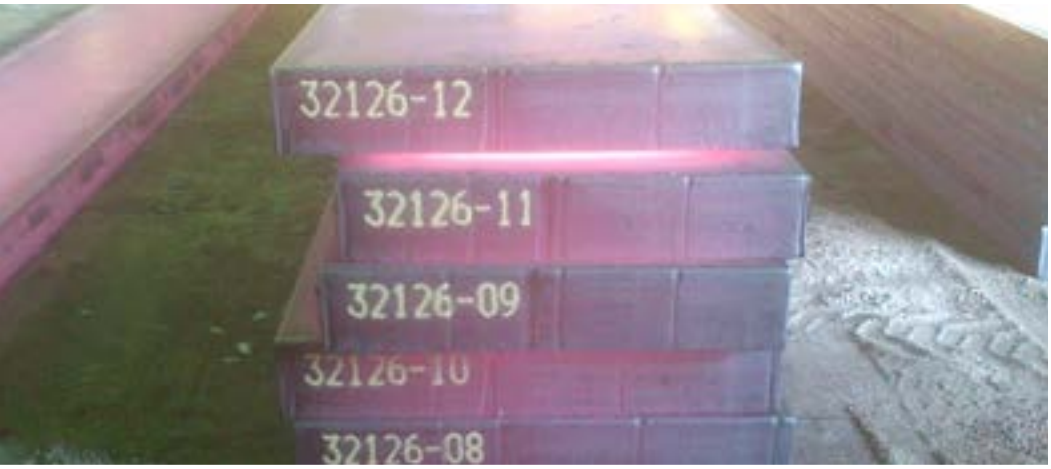
FEATURES:

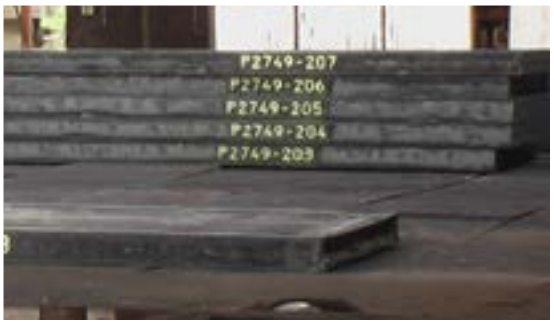
- Complete automatic marking
- No intermediate cleaning by blowing solvent in the open air between each marking cycle
- Flexible operation by using a standard robot
- Fully programmable
- Non-toxic, non-clogging paint
- Paint level indication and warning
- Easy installation and integration into existing or new production lines
- Low maintenance costs



Standard Specifications

Measuring time	10 seconds
De-scaling time	10 seconds
Character writing time	1.0 second per character
Slab width	minimum 60mm (2 inches)
Control	Robot control PLC
Communication	Ethernet/Profibus DP
Communication protocol	Any standard
Max. slab surface temperature	950 °C (1742 °F)
Standard paint colour	White
Character height	50-120mm (2 - 5 inches) depending on slab height
Overall height	2,250 mm (89 inches)
Overall length	3,200 mm (126 inches)
Overall depth	2,700 mm (106 inches)
Power consumption	14.0 kW
Supply voltage	Any standard





Additional Options:

- Heat proof label attachment
- PC in the operator pulpit
- Traverse system (to move the robot in between two production lines)
- Other paint colours on request
- Multiple PLC options

TEBULO
70 Lancing Drive, Hamilton, Ontario, Canada
1.905.639.7370 | info@tebulo-na.com
tebulo-na.com