

CHARACTER SIZE FROM 40 TO 150 MM

LONG DURABILITY OF MARKING

LARGE, EASILY LEGIBLE CHARACTERS

TECHNICAL CHARACTERISTICS

Completely redesigned marking heads for high performance even in the harsh steel plant environment. Equipment manufactured using standardised modules, resulting in high reliability and low maintenance of equipment. Forced air cooling to maintain low ambient temperatures within marking unit. System based on metal spraying gas burner system.

ECONOMICAL AND TECHNICAL BENEFITS

Variable character size. Low operating costs, with one type of marking powder across the full temperature range. Large characters, highly visible marking. Durability of at least a half year outdoors.

TECHNICAL DESIGN

Machine frame is a robust fabricated construction, linear rails, safety devices for marking head. Electrical drives with servo motors via gear rack and pinion and cable drag chains. Writing movement of marking head with linear x and y axis driven by servo motors. Control systems (standard Siemens S7 PLC) with standard interfaces to steel plant equipment and fault diagnosis system.

OPTIONS

- Other control systems (Allen Bradley, etc.)



Metal Powder Marker



Metal Powder Marker



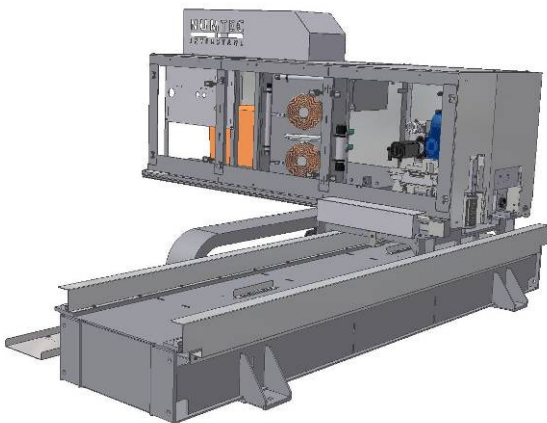
MP Marking



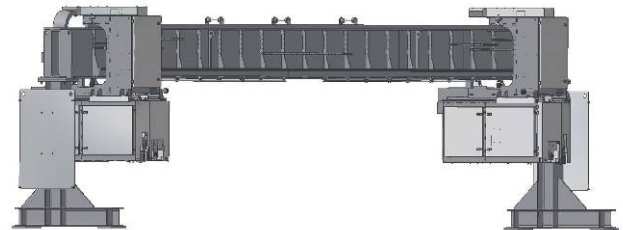
MP Marking

TECHNICAL DATA	
Usual applications	Slabs and blooms
Temperature range of products	400 °C – 1,200 °C
Type of mark	White
MARKING DATA	
Character size	40 – 150 mm
Number of lines	1 or 2, depending on character size
Typical time for marking	Approx. 60 sec for 10 characters at 100 mm size
ELECTRICAL	
Main supply	3 x 400 V, 50 Hz (other voltages possible)
Power consumption	Approx. 5 kVA
Control voltage	24 VDC
PNEUMATIC	
Compressed air	filtered and drained
Pressure	min. 4 bar
Consumption	max. 0.2 Nm ³ /min
GAS	
Oxygen	Min. 99.5 % purity
Pressure/consumption	Min. 3 bar/approx. 2 Nm ³ /min
Consumption per marking cycle	Approx. 50 Ndm ³
Natural gas	Dry and clean without settling elements
Pressure/consumption	Min. 1.5 bar/approx. 0.8 Nm ³ /h
Consumption per marking cycle	Approx. 20 Ndm ³
CONSUMABLES	
Marking powder	NTMPM Al ₂ O ₃ Version 2

MACHINE TYPES



Metal Powder Marker Floor Version



Metal Powder Marker Bridge Version