

ENGINEERING TRACEABILITY



A REFERENCE BRAND IN THE STEEL SECTOR

SMARKTEC's expertise is focused on the marking, coding and traceability of steel products. We are present in most of the global steel groups, being a reference in the Oil & Gas sector in the USA.

Our innovation skills allow us to be the pioneer of direct marking of continuous casting products, such as billets or blooms, marking QR Codes and OCR Texts for the easiness of the automatic data capture.

We offer an international distribution network that will help you building a solution for your Track & Trace needs.



STEEL PRODUCTS_Marking & Traceability



BILLETS, BLOOMS & SLABS

DIRECT MARKING

Direct Marking on the surface of the billet.
HI TEMPERATURE: Marking up to 1200°C.
High mechanical resistance to scratch.
Long lasting marks in outdoors stocking conditions.

QUALITY & CONTRAST

High resolution Laser marking technology.
Easily readable mark by humans and machines.

ROUGH SURFACES

Mark on rough surfaces with bad oxy-cut.
Contactless marking - distance > 150 mm.
No tags attached that fall off the billets.
No pollution of tags at the rolling mill.

HIGHEST READING RATIO

Reading OCR & Datamatrix for redundancy.
Inventory easiness with hand held scanners.

COILS

DIRECT HI RESOLUTION MARKING

High Quality Labels DIRECTLY on the surface of the Coil.
HI TEMPERATURE: Marking up to 1200°C.
Logos, OCR texts & 2D barcodes.

100% OF COIL PRODUCTION VERIFIED

Machine vision system verification of every single coil.
OCR and Datamatrix automatic reading.

FAST WRITING

Fast writing cycles for multiple line marking.

STEEL PRODUCTS_Marking & Traceability



PLATES

PAINT MARKING

Multiple lines robotic QUALITY marking.
Static and on-the-fly marking.
Up to 1200°C plate temperature.
Text, Logos & Datamatrix.

EDGE MARKING

Laser marking technology.
HIGH RESOLUTION printing.
Up to 1200°C plate temperature.
Text, Logos, 1D & 2D barcodes.

DOT PEEN MARKING

High quality punched characters.
Fast writing cycles.
Single Pin to reduce maintenance.
Text, Logos and 2D barcodes.

HOT ROLLED BARS

HIGH RESOLUTION DIRECT BAR MARKING

Fast Marking cycles (18 bars /10 seconds).
Datamatrix codes & alphanumeric Texts.
Up to 1200°C bar temperature.

AUTOMATIC DETECTION

Automatic detection of the number of bars to mark.
Automatic detection of the diameters.
Automatic detection of the bars position on the conveyor.

AUTOMATIC VERIFICATION

Automatic verification of the Datamatrix codes after every print.
100% of the production is verified.

STEEL PRODUCTS_Marking & Traceability



TUBE & PIPE

VISION SYSTEMS

MULTIPLE PIPE ROBOTIC MARKING

Hi quality OCR characters & Datamatrix codes.
Short cycle times for marking & verifying.
Up to 300°C.

1D LINEAR BARCODE MARKING

Easy capture with barcode scanners directly on the Oil rig.
Optional Clear coat application for a better resistance.

SMARKLASE PIPE ID MARKING

Laser marking technology. High resolution printing.
Text, Logos, 1D & 2D barcodes.

INK JET ID ROBOTIC MARKING

Up to 3 layers wet-on-wet for outdoors protection:

- Black base coating.
 - White pigmented Ink Jet ink.
 - Protective Clear coating.
- Automatic cleaning cycles.
Unattended working.

SPIRAL PIPES INK JET MARKING

High quality marks parallel to the seam.
Text, Logos & Datamatrix.
Optional Clear coat application for a better resistance.

COATED PIPE MARKING

High quality Texts, Logos and Datamatrix.
Multiple inks available in colors & formulations.

BILLET TRACKING CAMERAS

Verify 100% of your production.
Eliminate heat mixes.
Full traceability of billets.

TUBE & PIPE TRACKING CAMERAS

Verify 100% of your production.
Track your pipes through the mill.
Capture your pipe's 2D codes up to 3 m/sec.

VISION SYSTEMS FOR THE MILL

Robust Integrations.
Customized lighting and filters.
OCR & 2D barcodes data capture and verify.
Linear cameras to scan larger areas.
High resolution cameras.



More than
2500 customers



Innovative vocation



A strong sales engineers team specialized in
marking and coding solutions



Engineering department with more
than 30 years of experience



Industry
4.0 reference

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