

X-Y Continuous Character

Hot Slab/Coil Marking System



Actual mark on hot coil

The X-Y Continuous Character Marking System from InfoSight Corporation is a breakthrough in hot product marking. This system, designed for reliability and ease of maintenance, automatically prints durable, high quality characters on cast shapes and coils at temperatures up to 1900°F (1040°C). The marking system is fully programmable and capable of printing the full range of alphanumeric characters at sizes from 1 inch (25mm) to 6 inches (152mm) tall.

The X-Y continuous character marking system uses a specially-formulated water based ink to produce high contrast characters that are extremely resistant to high temperature, harsh weather and rough handling.

Unlike wire or metalized powder spray marking, the X-Y continuous character marking system presents no danger of metallurgical side effects such as liquid metal induced cracking. It uses no complicated feed mechanism, flame, explosive gas or electric arc, it is easier, less costly, and safer to operate and maintain.

Features

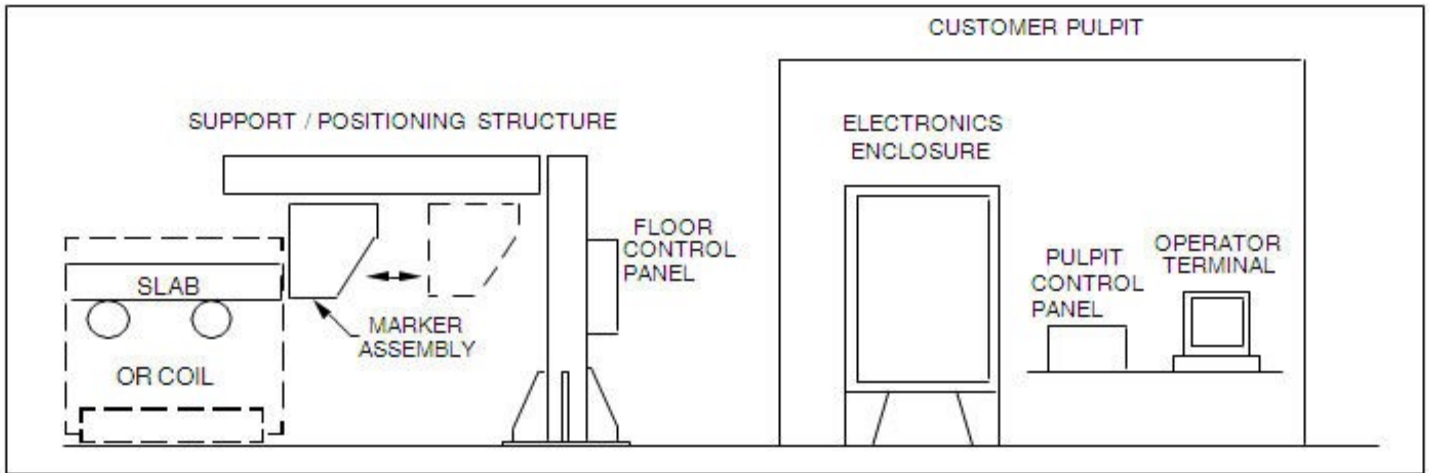
- Fully Automatic Operation
- Prints a string of up to 12 highly legible characters at sizes from 1 in. (25mm) to 6 in. (152mm) in height
- Can print on the most severe surfaces including torch cut slab ends
- Uses reliable InfoSight InfoDent® technology to remove scale prior to marking
- Prints at temperatures up to 1900°F (1040°C)
- Print speed is 2-3 seconds per character nominal
- Printed message can be downloaded from a host computer or PLC
- Automatically incremented numbering
- Marking material is easy to refill and cures on contact to durable finished mark which will withstand weathering

System Options

The following system options can be custom tailored for your application:

- Special Font and Logo Designs
- Custom Designed Data Functions
- NUMBRA® Bar Code Printing
- Custom Host Computer Interface
- Data Logging Printer
- High Pressure Water Descaling

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SYSTEM OVERVIEW

Support / Positioning Structure

The support / positioning structure is custom configured for the customer's mill. The marker assembly can be jib mounted as shown above or can be floor mounted. Another configuration allows end marking on multiple strand slab casters using a single traveling marker assembly.

Electronics Enclosure

The electronics enclosure is a floor-mounted NEMA 12

- Enclosure containing:
- Marking controller
- Programmable logic controller
- Step-down transformer as required
- Power disconnect
- Field terminal strip connections as required

Marking Assembly

The Marking Assembly is a steel-mill duty welded steel assembly containing:

- Material delivery system
- X-Y servo-controlled marking nozzle with a protective shroud which thoroughly cleans and cools the nozzle tip after each message is printed
- InfoDent® or water descaling head for slab marking application
- Indexing equipment to position marking nozzle and descaling head

Specifications

Utilities:

Power Requirements.....	460/230/120 VAC,50/60 HZ
Power Consumption.....	2 KVA
Air (Marker).....	2.0 CFM
Air (Descaler).....	40.0 CFM
Water (Nozzle cleaning and cooling).....	10.0 GPM
Gas.....	NONE
Oxygen.....	NONE
Wire.....	NONE
Powder.....	NONE

Host Interface:

Electrical.....	RS-232C
Protocol.....	InfoSight Extended Protocol

Marking parameters:

Character Size.....	1"-6" (25-152mm) nominal
Character Line Width.....	1/2" (13mm) nominal
Print Speed.....	2-3 Seconds/Char. nominal +10 seconds positioning overhead
Message Length.....	Adjustable
Character Set.....	Upper Case ASCII (A-Z, 0-9)

Product Temperature Range:

750°F (400° C) to 1900°F (1040°C)