MARKTEC
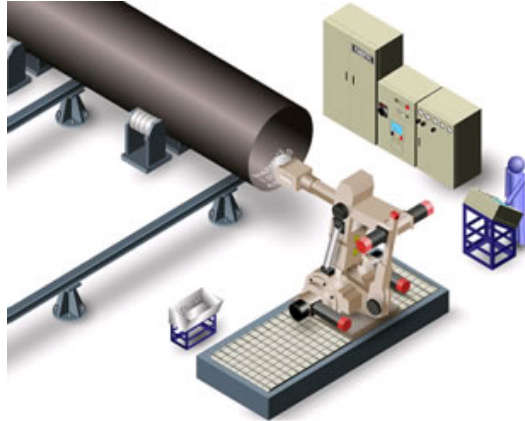Integrated supplier of Non-Destructive Testing and Marking

Robot Pipe Marking System

This system performs paint dot marking characters, symbols and special marks at the designated position of inside and /or outside surface of large diameter pipe in accordance with the data received from host computer.

The marking head, attached to the tip of robot arm, moves circumferential and longitudinal direction on the surface of the pipe to perform marking.

Features

Fully automatic marking in accordance with the marking data from host computer

Fast response pencil guns spray clear, sharp and uniform dot marking

6 axes, articulated industrial robot is used for moving the marking head to follow curved surface of the pipe

Max. 20 lines of characters (Numerals, Alphabets, Symbols and special marks) can be marked circumferential direction of inside/outside of the pipe and longitudinal direction of outside of the pipe

Main Specification	
Pipe to be marked	Large diameter ERW pipe, Spiral pipe, UO pipe
Outer Diameter	406.4-1524.0 mm (16-60 inches)
Pipe Condition	Dry, free of water, oil and mill scale Temperature : Normal temperature Bend : Less than 4/1000 mm for total length
Installed Position	Side of the pipe transfer conveyor (Applicable to both longitudinal transfer and transverse transfer)
Marking Specification	Marking Type : Paint dot spray type Color : White Dot Configuration : 16-dot-matrix Dot Diameter, Pitch : 3 mm Kind of Character : Numerals, Alphabets, Symbols, Special fonts and marks
Paint/Remover	Paint : Ecocolor PSG (White) Remover : Ecocolor Remover G

Main Equipment	
TP2000S Marking Machine	Marking Head (16 dots), Marking Head Case, Nozzle Cleaning Device and others Approx. 200 W x 180 H x 750 L mm Marking Controller IC-2000II Approx. 530 W x 660 H x 530 D mm Pump Unit IU-2000S Approx. 530 W x 875 H x 530 D mm
Multi Axial Robot	6 axes articulated Industrial robot Payload 50 kg Robot Controller: Approx. 600 W x 550 D x 1200 H mm

Control Equipment	Sequencer (PLC), Graphic Panel Approx. 900W x 1800H x 600D mm