

# Automatic Marking Device for UOE Pipe End\*

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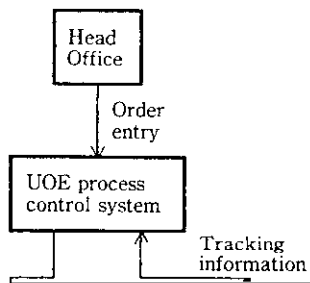
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## 1 Background of Development

Table 1 Marking item

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marking specification, and the necessary items will be displayed.

The marking device and typical marking sample are shown in **Photos 1 and 2**.

### 3 Outline of Apparatus

Marking apparatus consists of the transportation device which transports and rotates the pipe marking



Photo 2 Marking on the inside surface

Pipe-end start position: 0 to 600 mm  
 Host CPU: Fujitsu M3805 (for specification registration and preparation of pattern making) (Fujitsu Ltd.)  
 Process CPU: TOSBAC 7/70E (for tracking) (Toshiba Corp.)  
 Information relay device: Multi way (Nippon System Development Co. Ltd.)

#### 4 Concluding Remarks

- (1) Marking is possible without an error in respect of the shipping mark, length, heat number etc., of each pipe on the basis of its inspection approval information.
- (2) Marking is possible on the internal, external or both surfaces of UOE pipe of any size having an outer diameter of 20" to 64".
- (3) Easy marking is possible in respect of indication of special marks such as customer's logo mark and inspection company's mark.

A full-automatic marking device has been installed in which the marking head that has combined micro-nozzles and a robot which moves along the outer and inner circumferences of the pipe and spray character

paint was minimal, and the working environment has been greatly improved. This automatic marking apparatus has been operating satisfactorily since its commissioning, thereby contribut-