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Automatic Deburring Machine for Sheet Pile

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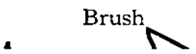
Synopsis :
Kawasaki Steel Corporation has recently developed an automatic machine for deburring the end surface of sheet piles and it is successful operation at Mizushima Works. Removal of burrs from the sawed section of sheet pile is necessary for making smooth interlocking of joints and for worker's safety. This automatic deburring machine has eight disk-type planetary-moving wire brushes and the head is designed to trace the inclination of the end surface of the sheet pile fixed on-line, while pressing its wire brushes to the sheet pile's end surface in such a way as to give a round profile of 1 mm radius or more to the end corners. This machine is contributing greatly to labor saving and higher commercial values of finished products with the sectional surface of any complexity.

Automatic Deburring Machine for Sheet Pile*

(2) The maximum grinding effect is obtained when the wire is applied to the edge of the steel product



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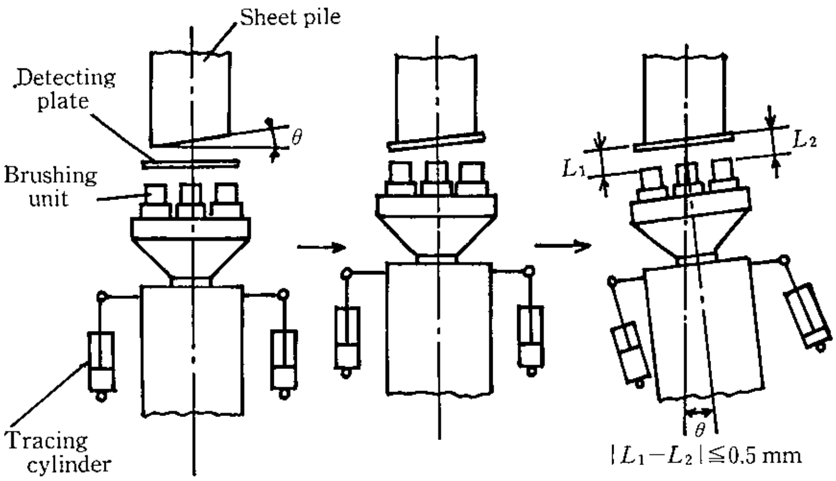

Detection of inclination After tracing

Fig. 5 Principle of tracing to end face of sheet piles

pile was 12 mm horizontally and 2 mm vertically.

directly coupled to gears within the head so as to rotate. The brush fixed to the gear shaft with a nut

(1) A sheet pile is carried to the grinding spot on the

main body through the tracing cylinders.

(4) As two servo valves are balanced at a certain pressure, the tracing work is completed.

(5) After finishing the tracing work, the tracing plate

Revolution: 60 rpm

(g) Clamper

Clamping force: 2 000 kgf/unit

Number: 2 or more