

Installation of Inline Bright Annealing Automatic Tube Mill

NAS TOA Co.,LTD., a group company of Nippon Yakin Kogyo Co., LTD., specializing in the manufacturing and sales of stainless steel and high-performance welded tubes, is pleased to announce the installation of a new automatic tube mill with inline Bright Annealing (BA) at its Chigasaki Plant (Hagisono, Chigasaki City, Kanagawa Prefecture).

※ BA: Bright Annealing – a heat treatment process conducted in a hydrogen atmosphere

1. Overview of the Inline BA Tube Mill

The newly introduced continuous automatic tube mill is equipped with an inline bright annealing furnace capable of heat treatment in a hydrogen atmosphere, and a cold weld bead processing unit for enhanced tube finishing.

Supported Size Range:

- Outer diameter: $\phi 12 - 38.1$ mm
- Wall thickness: 0.5 – 3.3 mm
- Length: 2.5 – 14.5 m

Applicable Materials:

- Nickel alloys
- Duplex stainless steels
- Austenitic stainless steels

2. Purpose of Installation

This new facility aims to strengthen competitiveness in the market for high-performance welded tubes such as nickel alloys, super austenitic stainless steels, and duplex stainless steels. Key benefits include:

Shorter lead times: Reduction by 15 to 30 days

Increased production capacity within supported size range

Expanded manufacturable range:

- Smaller diameters ($\phi 12.0 - 17.2$ mm)
- Thicker walls (3.1 – 3.3 mm)
- Longer lengths (12.1 – 14.5 m)

Improved quality: Oxidation-free surface finish

Lower CO₂ emissions through a more efficient production process

3. Main Applications

The welded tubes are expected to be used in heat exchangers for applications such as fuel cells related to carbon neutrality and in chemical processing facilities.

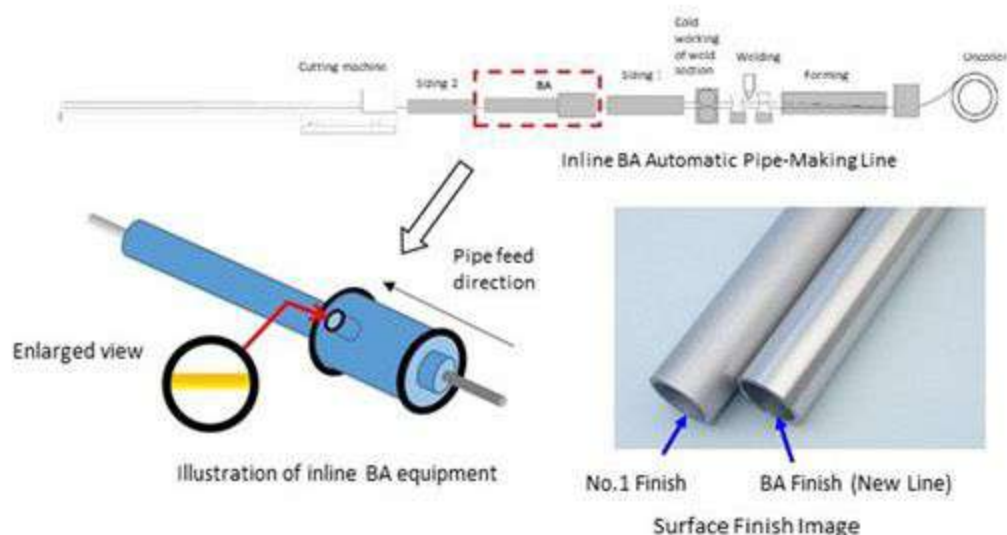
4. Scheduled Start of Operation

May 2024

5. Investment Amount

Approx. 400 million yen

NAS TOA Co.,LTD. will continue to invest in and upgrade its production equipment in a planned manner to meet increasingly sophisticated customer needs and to strengthen its manufacturing infrastructure.



For inquiries regarding this matter:
Steel Tube Sales Division, NAS TOA Co., LTD.
Phone: +81-3-6895-1370

Technical Management Team, Chigasaki Plant
Phone: +81-467-85-2222