

## **Introduction of Automated Tube Production Line with In-line BA**

NAS TOA Co., Ltd. (manufacturer of welded pipes made of stainless steel and high-performance alloys), a group company of Nippon Yakin Kogyo Co., Ltd., has introduced an automated tube production line equipped with an in-line BA(\*) at its Chigasaki Plant (Hagisono, Chigasaki City, Kanagawa Prefecture).

(\*)BA: Acronym for Bright Annealing

### **1. Overview of automated tube production line with in-line BA**

A continuous automatic tube production machine equipped with both bright annealing furnace (BA) that enables heat treatment within a hydrogen gas atmosphere and a weld cold processing device.

- Manufacturable dimensions: Outer diameter: 12-38.1 mm, wall thickness: 0.5-3.3 mm, length: 2.5-14.5 m
- Manufacturable materials: Nickel alloys, duplex stainless steels, super austenitic stainless steels, etc.

### **2. Purpose of Introduction**

To strengthen competitiveness of welded pipes made of high-performance materials (nickel alloys, duplex stainless steels, super austenitic stainless steels, etc.)

- Shorter delivery time: shortened by 15 to 30 days
- Greater production capacity: increased production of manufacturable sizes
- Enhanced manufacturing range: small diameters ( $\Phi$ 12.0-17.2 mm), thick walls (3.1-3.3 mm), long lengths (12.1m-14.5m)
- Quality enhancement (does not cause oxidation)
- Reduced CO2 emissions

### **3. Main applications of the product (welded pipes)**

Expected to be used for carbon-neutral related fuel cells, heat exchangers in pharmaceutical plants, etc.

### **4. Scheduled commencement of operations**

May 2024

### **5. Capital investment**

Approximately 400 million yen

In order to meet the increasingly advanced needs of its customers, NAS TOA will maintain and enhance our production infrastructure by promoting systematic introduction and modification of our equipment.

