Receipt of Order for Continuous Galvanizing Line for Ton Dong A of Vietnam

CN Steel Plant Engineering Co., Ltd. (CNSE)*[1] of China, a joint subsidiary of the Plant & Machinery Division (Hiroshi Shiraishi, Director) of NIPPON STEEL AND SUMIKIN ENGINEERING CO., LTD. (NSENGI) (Makoto Takahashi, Representative Director and President) has received an order for a Continuous Galvanizing Line from Vietnam's Ton Dong A (TDA).

CNSE conducted a large proportion of the work for this project, from basic design to detailed design and supply, to achieve a competitive price. Also incorporated were unique NSENGI technical specialties, such as NS BLADE™ (patent pending), an air knife originally developed by NSENGI for preventing the splashing*[2] and edge overcoating*[3] that tend to occur during high-speed threading. Bidding was competitive due to participation of a total of nine companies from Europe, Japan, Korea, and China, but the client's favorable evaluation of both the price and technical strategies mentioned above resulted CNSE's selection as the receiver of the order.

NS BLADE™ delivers improved surface quality for steel plate and reduced running cost, features that have been demonstrated in iron works test plants in Japan. This project represents the successful implementation of NS BLADE™ in actual equipment. NSENGI has previously received a number of orders from other overseas clients besides those of Vietnam. We will continue to contribute to the business development of our clients by supplying technologies at a competitive price that create high added value.

*[1] CN Steel Plant Engineering Co., Ltd. (CNSE)

- Equity ratio: NIPPON STEEL AND SUMIKIN ENGINEERING CO., LTD.: 51%（5.1 million RMB）
  CN Steel Plant Engineering Co., Ltd.: 49% (4.9 million RMB)
- General manager: Tadashi Ninomiya (dispatched from NSENGI)
- Business: Design, manufacture, equipment procurement, sales, etc. of steel sheet processing lines

*[2] Scattering of zinc onto steel sheet surface during wiping.

*[3] Uneven coating thickness from center to edges of steel sheet.

Reference: NS BLADE™

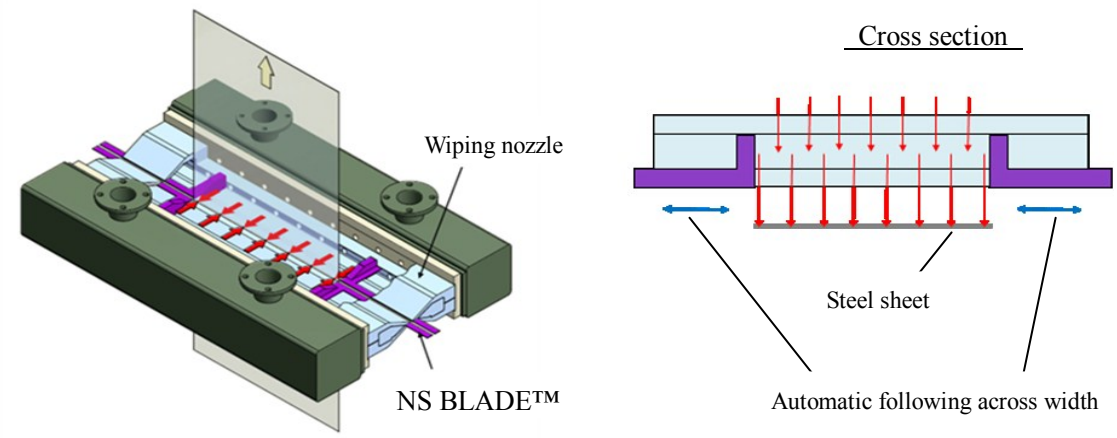
1) Overview

Wiping gas discharging from the air knife nozzle is jetted uniformly across the width of the steel sheet in accordance with the sheet width while preventing collision of jet streams at steel sheet edges.

2) Features

- Suppression of splashing and edge overcoating that occur during high-speed threading. Enables improvement of steel sheet surface quality.
- Reduction in consumption of zinc and wiping gas.
- Suppression of air knife noise.

Schematic



Results of Demonstration Test