New order for annealing furnace to process high-strength steel

Ma’anshan Iron & Steel (Masteel), part of Baowu Group, chose Fives, an international engineering group, to supply an annealing furnace equipped with the latest technologies to expand the steelmaker’s capabilities to produce coils for the automotive industry.

The project includes the design and supply of Stein Digiflex®, an annealing furnace with an annual capacity of 450,000 tonnes, for a new continuous galvanizing line dedicated to Advanced High-Strength Steel (AHSS).

“We look forward to launching this new CGL №6 to further enhance our product quality and market competitiveness. We plan to build this new production line as a benchmark project in the steel industry together with Fives Group, which has rich experience in steel making technology and in which we have great confidence,” says Yuxiang Jiang, Chairman of Masteel Group.

The new furnace will be equipped with the latest generation AdvanTek® combustion system, precise pre-oxidation control and FlashCooling®, a breakthrough technology with high hydrogen content. The furnace will be supported by Virtuo™-L, a thermal optimization solution to achieve the desired mechanical properties.

Masteel already operates four strip processing lines dedicated to the automotive steel grades, all equipped with Stein Digiflex® furnaces. With this new order, Fives is continuing its long-standing cooperation with Masteel, which goes back more than 20 years.
About Fives

As an industrial engineering Group with a heritage of over 200 years, Fives designs and supplies machines, process equipment and production lines for the world’s largest industrial players in various sectors such as steel, aerospace and special machining, aluminium, automotive and manufacturing industries, cement, energy, logistics and glass. In 2023, Fives achieved €2.4 billion of sales and employed close to 9,000 people in 24 countries.

In the steel industry, Fives offers process expertise, ground-breaking technologies and digital solutions, supporting steel and tube manufacturers’ ability to achieve the ultimate in performance excellence, including:

- Customer strategic development support
- Ultra-low NOx reheating furnaces
- Advanced cold rolling mills
- Complete strip processing lines for carbon (including AHSS and UHSS), stainless and silicon steel
- Unique transverse flux and longitudinal induction heating technologies
- High-quality ERW tube mills and finishing equipment
- A full range of services: process optimization, upgrades, modernization, training and maintenance assistance

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