

Supply of control equipment for a kiln charging overhead crane at the Pittini Group.

Verona Galtarossa melt shop of the **Pittini Group** has received the kiln charging bridge crane with new equipment/control equipment from AIC in cooperation with Carpenteria Meccanica Almici SpA. The activities began near the end of October 2022, followed by in-house tests at Almici, and were fully operational in-site on the first days of 2023.

AIC provided the switchgear room, Siemens Simatic operator panels, line arrival switch, Siemens PLC, and software in the TIA Portal, which were assembled in the pre-assembly container.

The charging crane is operational 24/7: the position of the hook is visible remotely in three dimensions and in real time, allowing for immediate remote diagnostics.

The presence of redundant machines permits operations can continue without production interruption if an inverter fails, by utilizing the others that are available.

Furthermore, operation without a PLC is possible: in the event of its breakdown or malfunction, an electromechanical push-button on the panel can be used to control the movement of the kiln charging crane and bring it to its limit switch at a reduced speed and safety.

The ladle's load has been increased to 160 tons because of these additions, resulting in an undeniable increase in productivity, the assurance of regular continuous casting, and an improvement in sustainability outcomes.



About Companies:

AIC Group is a technological partner with extensive experience and deep know-how and stands itself as a global power control supplier and system integrator designing, manufacturing, and implementing automation systems, process control, and mechatronic solutions for both greenfield and revamping projects. Focusing on the steel and metals industries for long and flat products, the Group provides cutting-edge technical solutions by handling complex project schedules and thus establishing satisfactory and remarkable partnerships through its 6 international offices. More than 45 years of modernization for endless reliability processes.

Carpenteria Meccanica Almici SpA boasts a long tradition since 1958 rooted in Valle Sabbia (a small town in Northern Italy), and stands on an area of 24,000 sqm, of which 11,000 sqm is covered. In the heavy lifting equipment sector, Carpenteria Meccanica Almici SpA offer a complete range of machines, with lifting capacity varying from 5 t to more than 500 t.

Pittini Group headquartered in Osoppo, in the province of Udine (Italy), with an annual production of more than 3 million tons of steel, is a leader in the production of long steels for the construction and mechanical industry. Starting out as a wire drawing mill in the 1950s, today the Group become a steel group that manages the entire steel production cycle from the perspective of the circular economy. Nowadays, it has 8 companies, 18 plants, and nearly 2000 employees, with a strong international orientation that focuses on electric furnaces.

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