MCT Italy S.r.l., 06084 Bettona (PG), Italy

MCT Italy confirms its leading role in precast elements for the infrastructure sector

Crezza S.r.l. was founded in 1992, since when it has been operating on the market of precast concrete elements destined for the infrastructure sector. It offers a wide range of products, such as certified concrete road barriers and site barriers; tunnel lining segments; tunnels; suspended, lateral and underground escape routes; noise protection systems; retaining walls; box elements; staircases; ducts for collecting and treating water; and manufacturing to individual designs. Parallel to the production of prefabricated building components, the company continued to develop into a construction company for the erection of infrastructure facilities of national and international importance for both open and closed construction methods.

The company is also active in the field of passive tunnel fire protection, designing elements for suspended or lateral escape routes. In 2002 Crezza, together with other companies in the sector, founded ABESCA - Associazione Barriere Elementi Sicurezza Cemento Armato (Association for Reinforced Concrete Safety Elements) - and in 2005 ABESCA Europe S.r.l. with the aim of investing in the research and development of reinforced concrete road barriers to improve passive protection for road users.

The constant striving for innovation, the use of top quality materials, the highly qualified staff and the high specialisation of the construction activities have enabled Crezza to become a leading company in the infrastructure and transport sector, whose customers today include the major Italian and foreign construction companies as well as the most important public clients. The keywords that best describe Crezza's business activities are without doubt quality, flexibility and customisation; the "case by case" approach makes it possible to identify the most suitable product, technology and approach for each individual project. In this way, maximum customer satisfaction is achieved and a lasting relationship of trust is created.

Mixing plant with bucket conveyor

Storage and dosing plant for aggregates

The complete concrete mixing plant.

Crezza offers "turnkey" solutions, taking care of all aspects from the design phase to construction. The customer is thus relieved of all tasks related to the management, prefabrication and construction of his building project. This service must be based on a synergetic dialogue with the client in order to identify the specific needs of each project and find appropriate solutions.

The meeting between Crezza and MCT Italy took place during the WTC (World Tunnel Congress) in Naples in May 2019, where both companies participated as exhibitors.

From the very first contacts it became clear that the two companies share a common vision and business philosophy: Both are family-owned companies driven by the enthusiasm and know-how of their respective founders, Corrado Guerini and Lamberto Marcantonini. The specific needs of the customers are at the heart of their business activities and tailor-made solutions are developed to meet these needs. A few months later, Sebastiano Guerini, representing the second generation at Crezza, called Luca Cellini, Sales Manager for Italy at MCT Italy with a request for a study to replace the concrete mixing plant installed at the Gordona plant, an essential element to ensure the uninterrupted execution of the construction work. The engineering department of MCT Italy immediately developed a solution to replace the concrete mixing plant in two separate steps: The aggregate storage and dosing plant would be replaced during the two-week summer holiday; production would continue with the existing plant, while the dosing and mixing plant and control system would be replaced during the Christmas holiday.

To ensure the success of the project, MCT Italy developed an interface system to connect the new aggregate storage and dosing unit installed in Phase 1 with the automation of the existing plant to ensure uninterrupted production for the customer from August to December 2020. Thanks to the fact that all the equipment was pre-assembled and tested at MCT Italy's plant, the assembly and commissioning were carried out extremely quickly and within the specified timeframe.

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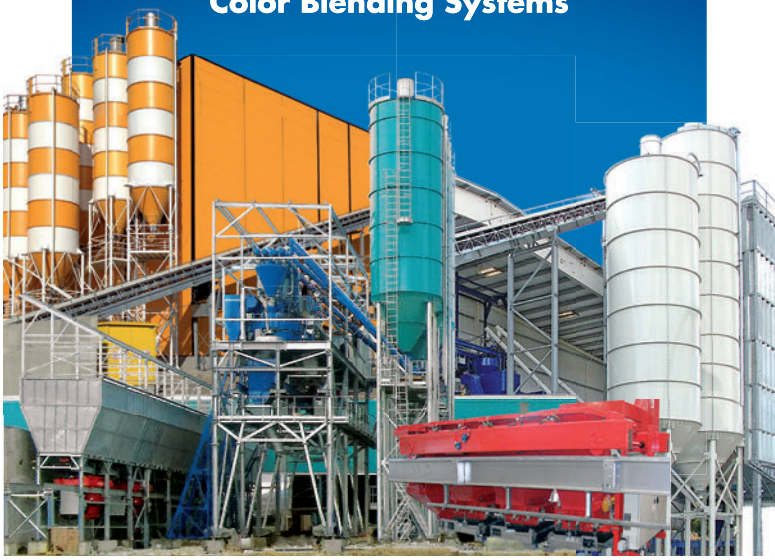

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Installation of concrete road barriers (New Jersey)

Assembly of prefabricated lining segments

During the Christmas holidays 2020, the delivery of the plant was completed with the installation of the mixing plant including accessories, the dosing systems and the control cabinets with the corresponding conversion to the COMPUNET control and monitoring system.

The complete concrete mixing plant consists of an aggregate store with five sections, each with a capacity of 35 cubic metres, an aggregate dosing system equipped with load cells that combines speed and dosing accuracy, and a MAV 2250/1550 planetary mixer that is particularly suitable for the production of concrete of all consistency classes and guarantees perfect hydration of the cement with perfect homogenisation of the concrete in an extremely short time. The new plant was equipped with a bucket conveyor system for transport and distribution, which made it possible to supply both the three existing production halls and the new hall built at the same time as the concrete mixing plant. This system eliminates the need to transport concrete to the plant using truck mixers, which significantly increases not only daily productivity, but also health and safety standards at the workplace.
In accordance with the provisions of the national Industry 4.0 plan, the concrete mixing plant was connected to Crezza's enterprise system. This process is extremely agile thanks to the enormous possibilities offered by the COMPUNET management and control system, which is not only absolutely simple and intuitive to use, but has also been designed by the MCT engineers to communicate easily with the customer's operating software thanks to appropriate input and output protocols.
Once again, the COMPUNET software has proven to be the absolute strength of MCT's offering, fully meeting the requirements of the national Industry 4.0 plan. This allows the client to claim a total tax credit of 50 % of the value of the investment for the three years following the purchase.

MCT Italy Sales Manager, Ing. Luca Cellini, stated: "Working with a company like Crezza, which embodies the same corporate values as MCT, has been a great pleasure. The goal of constructing the concrete mixing plant without interfering with ongoing production at Crezza presented a major challenge. We can say with great satisfaction that we have fully achieved this goal. Cooperation between the companies will continue. MCT continues to be considered a strategic partner for Crezza, which will increasingly become a leader in precast concrete products on a national and international level."

Corrado Guerini, founder of Crezza, said: "MCT Italy was able to fully meet Crezza's requirements, not only in terms of quality of delivery, but also in terms of modus operandi and adherence to delivery and installation schedules. In view of the trusting relationship that has been established, the synergy between our companies will continue in the future. I would like to recommend MCT Italy for its professionalism, experience and constant pursuit of innovation." ■

FURTHER INFORMATION

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