



Innovating engineering applications

History

Engineers of our times.

1951. Tensacciai was born as a solid engineers' concern, active in the field of constructions. In the mid-'60s the company was acquired by the present owner and started specializing in the prestressed concrete sector. The turning point took place between the '70s and '80s. In a pulsing world of changes where culture and technologies were rapidly evolving, Tensacciai worked in tune with its time. Italy was then developing its viaducts and highways network at full speed and the company acquired important contracts for the application of modern post-tensioning systems.

In the same period, Tensacciai set up as a limited company and started looking at foreign markets, from the Middle East to the African continent to Brazil, where it opened a subsidiary that, since the '90s, has become a leading company in South America. In 1989, Tensacciai became a holding company, with its internal managerial and financial structure. Such reorganization facilitated and accompanied its debut, in the following decade, in the new sector of parallel strand stays for the realization of bridges.

Tensacciai has increasingly been characterized by concreteness in dealing with every aspect of design and implementation, dialogue with the Client and development of tailored technical solutions. Its progressively more significant international presence has entailed hundreds of large works using post-tensioning and geotechnical ground anchors and more than 50 large cable-stayed bridge contracts, among which Rotterdam's Erasmus bridge in 1996 and the bridge on the Po river in Italy for the high-speed train line in 2007.

Company

Talking to solve.

Tensacciai interprets its being an enterprise with a broad-minded vision. Beyond the simple product, the daily main commitment is to propose building tools and equipment, i.e. high added-value technologies. Thus, the working attitude is focused on dialoguing and, more importantly, listening, so as to be able to provide the feedback of a true partner. On top of which lies the ability to follow the complex workings of the project development on the field, in the role of an interlocutor who is always active and present.

Technologies

Specialists in post-tensioning.

Tensacciai works in the post-tensioning concrete market in all its applications. Its competences range from the realization of newly built structures to rehabilitation interventions.

The two basic elements – strands or steel bars – are both employed to realize cables for post-tensioning, stays or ground anchors. Such technological range allows the company to face all sorts of applications with flexibility. Cables for post-tensioning are an essential component to realize large span reinforced concrete structures while guaranteeing

high-standard structural safety and durability in time. Similarly, when designing great modern bridges, the technology of stays allows to match slenderness and structural soundness.

Tensacciai also develops ground anchors systems in the field of geotechnics, for ground consolidation and the anchoring of structures.

Method

Knowledge, calculus, design.

Rigour, exactitude and the ability to elaborate a concrete analysis of all aspects regarding the building intervention: this is Tensacciai's methodological approach, where each project is developed functionally to the installation of the product and to how this should relate to the work as a whole.

With a double objective: organizing a rapid and efficient installation process and maximizing safety features and durability of the final realization.

Research

Construction innovations.

Investigating new solutions that are never an end in themselves.

The starting point being those existing technologies that Tensacciai submits to advanced customization, through studies and laboratory tests.

A proactive research process that follows the market's demands and the development of highly innovative customized systems, often finalized at realizing special projects.

Tensacciai takes an active part in the contemporary international technological debate as a member of FIB, Fédération Internationale du Béton, the world's most authoritative organization in the field of constructions.

Flexibility

Ideas, systems and tools.

Ideas run fast in Tensacciai.
A stimulating and productive exchange among professionals who make up a lean and agile structure of around 50 people: alive, dynamic, reactive.
To the benefit of the client, who can count on the rapid set-up of tailor-made systems and solutions.

People

Intelligence in doing.

A highly skilled labour force makes the difference: in terms of speed of execution, flow of processes, optimization of costs and quality of the final result. Tensacciai follows the realization of its different projects by selecting and coordinating qualified and proven teams of people who are passionate, accurate and experienced in their work.

Quality

Safety and technology.

Tensacciai's mission sums up in one word: quality. A strong concept enclosing values of safety and durability of each structure. An objective that Tensacciai achieves by collaborating tightly with designers and building contractors, closely following each specific application's project and installation. In all applications regarding the sector of post-tensioning technologies, from newly built structures to consolidating existing ones, and in the sector of stay cables technologies.

World

Exploring new opportunities.

From Rotterdam to Abu Dhabi.
From Alger to São Paulo.
Tensacciai crosses the world, being involved in large contracts that have been obtained throughout the five Continents, thanks to its competence and reliability.
A leading company in Italy, with a strong international vocation.
Tensacciai's headquarters are presently in Milan, with offices in Brazil and India.

The company has subsidiaries and affiliates all across the world, from Portugal to UAE and Oman.
With a significant presence, apart from EU markets, in those of Northern Africa and Middle East, featuring an expansion strategy that is always ready to explore new areas to pragmatically seize opportunities for development.

Works

Passion in every challenge.

Contemporary architecture.

Works that represent an exciting challenge at all latitudes, where the company is an active part in projects whose outcome is often fascinating and grand.

From cable stayed bridges to the possible diverse post-tensioning applications: liquefied gas tanks, waterworks, large road infrastructures, large dimension buildings that find new constructing solutions in the post-tensioning concrete technology, parking lots and special applications, such as structural repair and consolidation interventions.



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