

Bianchi Casseforme s.r.l., 43045 Forno di Taro (PR), Italy

Two new lines for prestressed beams in Romania

Bianchi Casseforme srl consolidates its presence in Romania through the installation of two universal lines to produce pre-stressed TLR / I / T beams.

SW Umwelttechnik was founded in Klagenfurt in 1910 and then expanded over the years first into Hungary and then into Romania. It has also been listed on the Vienna Stock Exchange since 1997.

SW Umwelttechnik is an international company that has nine facilities in Austria, Hungary, and Romania. It develops and produces precast concrete elements for the construction and expansion of different types of infrastructures. With modern production facilities and the know-how acquired over time have led SW Umwelttechnik to be one of the leading companies in the construction sector.

In 2021, SW Umwelttechnik commissioned Bianchi Casseforme srl, to manufacture and install two tilting tables and a modular multi-story column mould. Bianchi Casseforme s.r.l. is an Italian family-run company, founded in 1964, and active all over the world with a wide range of services and products for the prefabricated industry and the construction of industrial buildings represented in Romania by the Gabor Concrete.

First Supply

Modular Column mould, made entirely in steel; 32 m long. The formwork allows the production of variable rectangular or square section columns: minimum 50 x 50 cm up to a maximum of 100 x 100 cm with the possibility of creating corbels on all four sides if required. The formwork is composed of a base frame, two modular side moulds these open and close hydraulically, adjustable in height to produce smaller profiles included in the initial supply was the base 60 cm wide base plate.

N°2 Tilting tables with dimensions (12 x 4.5 m and 12 x 4 m) to produce precast concrete panels. Made of 1 cm thick sheet steel and stiffened using other structural profiles. The tilting mechanism is by telescopic hydraulic cylinders which allows, after the concrete has cured, an easy removal of the elements in a vertical position. The tables are completed by a lower side former and two lateral forms adjustable in height to allow the production of panels of different thickness. Included with this supply are curing pipes as well as electric vibrators Bianchi type VFC2000.



Relaxation abutments 800 ton each



View through Stressing Head Base 68m and side moulds for T, L & rectangular beams



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info@bianchicasseforme.it



Adjustable Column Mould, 32m long



Two tilting tables

Second Supply

In 2022 SW Umwelttechnik once again entrusted Bianchi Casseforme srl and Gabor Concrete, with the supply of equipment to produce pre-stressed concrete beams this equipment included:

- 2 sets of Strand Anchoring Structures: Each set designed to support a tensile load of 800 tons. The relaxation ends consist of two columns inserted into pits 1.80 m deep, with an internal space of 90 cm; 2 transverse sliding beam predrilled with holes for 0.6" (dia. 15.2mm) strands for relaxation operations; N° 2 single-acting relaxation cylinders with a load capacity of 400 Ton and N° 2 single-acting relaxation cylinders with a load capacity of 100 Ton. The fixed end consists of only one column inserted into pits 1.80 m deep, with an internal space of 90 cm predrilled with holes for 0.6" (dia. 15.2mm) strands.
- 2 No. Universal Casting Base: The base frame has a length of 62 m and a width of 100 cm and was made with an 8 mm thick plate and stiffened by metal profiles on which the sides are positioned and locked by a special clamping device.
- Moulds for Inverted T & L beams: a pair each 24 m long to produce elements with rectangular, "L" or inverted "T" profiles with sections variable in base width between 400-1000 mm, max height. of 1200 mm. The sides are made of 6 mm thick sheet metal, stiffened by a frame made up of structural profiles. The sides are equipped with 2 bolted vertical pads 150 x 570 mm and complete with upper spacer and lifting hooks. The sides are designed for use on a universal base and equipped with clamping devices.
- Moulds for I / T beams: a pair each 30.5 m long to produce "I" beams of max length 30 m, with sections variable in base width 30/50 cm and height variable 120/140/160 cm and T beams of max length 24 m, base 30 cm and H 120/140/160 cm. The sides are assembled from 6 mm thick sheet metal in contact with concrete, stiffened by a frame made up of other sheets and struc-

tural profiles. The sides are modular both in height and in length to allow the production of elements of different sizes. The sides are complete with upper spacer and lifting hooks and designed for use on a universal base.

Once again Bianchi Casseforme srl has distinguished itself thanks to its know-how, its experience and competence, working alongside SW Umwelttechnik as a partner. ■

FURTHER INFORMATION



SW Umwelttechnik România
CP 087253 Izvoru, Str. Zăvoifului Nr. 1,
Comuna Vânătorii Mici, Jud. Giurgiu, Romania
T +40 246 207050
www.sw-umwelttechnik.ro



Gabor Concrete SRL
Doicesti, Dambovita, Romania
T +40 748958640
gabor.concrete@gmail.com
www.facebook.com/gabor.concrete



Bianchi Casseforme srl
Via G. Di Vittorio, 42
43045 Fornovo di Taro (PR), Italy
T +39 (0) 525 400511, F +39 (0) 525 400512
info@bianchicasseforme.it, www.bianchicasseforme.it

