

BFS Betonfertigteilesysteme GmbH, 89143 Blaubeuren, Germany

Dahmane TPH invests in new machines for pipe production

Since 2013, BFS, the machinery and concrete mould manufacturer from Blaubeuren in Southern Germany, and Dahmane TPH, situated in the North-West of Algeria, have been working in close cooperation. In February 2015, BFS installed a Souveraen 1225 T and a Jumbo 3625 Duo there.

Dahmane TPH, with a workforce of about a hundred, is situated in the industrial estate of the small town of Fornaka in the North-West of Algeria. Thirty years ago, the proprietor Bounoua Dahmane started off in the field of underground construction, and began step by step with the production of concrete elements, and diversified his field of business in the subsequent years. Today, the company specialises in the manufacture of concrete products, mainly used in public construction projects, wastewater treatment plants and buildings: concrete kerbstones and paving stones, concrete blocks and concrete slabs.

In close cooperation with BFS GmbH from Blaubeuren, Dahmane TPH has focussed in

the last two years on the production of elements required for sewage systems. It now manufactures concrete and rectangular pipes especially for the wastewater sector. In order to realise this line of business, Dahmane TPH decided to invest in modern and technologically sophisticated machine systems from BFS, these being a fully automatic Souveraen 1225T, which produces pipes from DN 300 to DN 1200, as well as a Jumbo 3625 Duo, which can manufacture pipes up to a size of DN 3600 and rectangular pipes up to DN 2500 x 2500 mm. "In BFS GmbH, a member of the Casagrande Group, we have a reliable partner with long-standing experience in this field. Casagrande has been present in Algeria for thirty years, permanently providing its

customers with support, even in the years of social tension", Managing Director Dahmane remarks.

Advanced machine concept

In February 2015, BFS installed both machines. The Souveraen 1225T provides very high product quality with low personnel deployment, because only one machine operator is required to operate the machine thanks to the fully automatic, computer-controlled production. All machine parameters can be stored for each type of pipe, which ensures constant quality. Changes of operating staff do not affect the product quality. BFS technicians have trained the Dahmane employees carefully and comprehensively,



Souveraen 1225T





Two machines in one: Jumbo 3625 Duo

so that the company can immediately make use of this new production system.

Together with a diagonally-toothed spur gearbox, the frequency-controlled electric motors of the S-Eco drive system provide exact speeds and a large drive torque for very good compaction results. One of BFS's major concerns in the development of the machine was that it should save energy in operation and generate as little noise as possible: Vibration noise occurs only briefly during the filling of the bell.



Dahmane produces pipes for the wastewater industry in Western Algeria.



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With the Jumbo 3625, pipes of different diameters or pipes and rectangular pipes can be produced in one shift.



The Jumbo 3625 Duo works almost simultaneously in both working stations.



Demoulding even in confined spaces

By means of the concrete feed system S-Feed, the quantity of concrete is regulated by torque control and fed to the compaction process in the required quantity and at the right speed, thus ensuring that the quality of the manufactured pipes is consistently high.

Centrepiece of the Souveræn 1225T

S-Compact, the patented compaction tool, forms the heart of the Souveræn 1225T. Thanks to the rotary press method with counter-rotation, the concrete is compacted so intensively that there are no longer any compaction-free zones. The counter-rotation ensures that the reinforcement cage is ideally embedded in the concrete. In addition, twisting of the reinforcement cage is avoided with this system. We have perfected the production process in the Souveræn machine concept down to detail. Low-wear operation and energy-saving production are guaranteed", the BFS management explains. "With the conversion system S-Flex, a change of nominal width is possible in 15 to 60 minutes. All major product parameters can be automatically changed at the press of a button. The enables flexible application and maximum utilisation of the machine. The ergonomically designed conversion kits facilitate maintenance and accelerate conversion."

Jumbo 3625 Duo – two machines in one

The semi-automatic, versatile machine Jumbo 3625 Duo is used for the production of concrete pipes with small and large diameters, rectangular pipes, manhole rings, manhole bases and manhole cones. Thanks to the underground pits, which limit the noise level from the intense vibrations caused by the central vibrator during concrete compaction, it is easy to demould the products, even if space in the hall is restricted. The Jumbo 3625 Duo works almost simultaneously in both working stations. Therefore, pipes of different diameters or pipes and rectangular pipes can be produced in one shift. The articulated concrete feeder with its rotating discharge belt transports the concrete into the mould and spreads it there accurately. A frequency-controlled drive ensures infinitely variable regulation of the concrete feed for exact adaptation to any product. "The Jumbo 3625 Duo is like two machines in one: The simultaneous production with two wet-cast moulds that differ in size and shape enable daily production to be increased", the BFS management says.

"Thanks to the BFS machines, we are able to produce pipes of extremely high quality. This enable us to convince our customers and achieve rapid success", Managing Director Dahmane states, expressing his satisfaction with the quality.



Mauro Morici (BFS),
Mr. Dahmane Bounoua (MD, Dahmane),
Mr. Harek Karim (Assistant, Dahmane)

Solution has proven itself straight away

The installation of both BFS machines in the same factory quickly proved to be an excellent solution. This not only provided versatile production, but also a high output capacity, enabling Dahmane to meet its customers' orders on time. The main challenge for Dahmane was basically to distinguish itself as a new manufacturer in a new segment and to maintain the high standards for which it is known in Western Algeria. A challenge that the company has mastered by its far-sightedness, its close cooperation with BFS and innovative technology.

Now, BFS and Dahmane are already planning new cooperation projects for the development of Algeria's infrastructure. ■

FURTHER INFORMATION



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