

A new sugar refinery for Tunisie Sucre



*Preparation of the refinery
grounds*



In the north of Tunisia, in the free-trade area of Bizerte harbour, a new sugar refinery with a processing rate of 1,600 tons per day of raw sugar is under construction, which will comply with EU standards. The new Tunisie Sucre refinery is built by Tunisian investors who are also active in the agricultural industry.

At the end of 2008, Tunis-based BMA MENA was awarded the contract for delivery of the core equipment for this new refinery. The range of services supplied by BMA MENA included not only customer consulting, but also the communication with the corporate head office at Braunschweig. Project coordination as well as manufacture and supply of the equipment were performed by BMA at Braunschweig.

Thanks to the commitment of all participants, the project was successfully implemented and the equipment was delivered in time in 2009.

Among other equipment items, a total of 7 vacuum pans were supplied (\varnothing 5.2 x 7 m and \varnothing 4.4 x 7 m). BMA vacuum pans are the result of more than one hundred years of experience and continuous improvement. They can in principle be used for all products of the beet and cane sugar industry as well as for refinery operation. Tunisie Sucre will use the apparatus for refined sugar and A, B, and C product.

Seven strike receivers with different dimensions (up to 4 x 10 m), 5 distribution mixers (up to \varnothing 1 x 7.3 m) and 2 falling-film evaporators with a surface of up to 800 m² were also supplied. The beta-type falling-film evaporator offers advanced technology and a compact design, allowing custom solutions even when only limited space is available. Further features to be mentioned are the integrated juice separation system, which allows for optimum vapour-juice separation, and the



juice-protecting treatment, which is due to short residence times. Moreover, the BMA falling-film evaporator shows high heat transfer coefficients with low temperature differences.

The centrifugal station is equipped with modern B1750 batch-type centrifugals for refined sugar and K2300 continuous centrifugals for low-raw sugar.

In addition to the equipment supplied by BMA AG, supplementary services such as service, assembly and commissioning are provided by BMA MENA.

In 2009, BMA MENA was also awarded a follow-up order for the delivery of diverse process equipment such as pumps, heat exchangers, hoisting and screening machines, weighing and packing machines and other apparatus, and a supplementary order for a further evaporator with a surface of 1,800 m².

Carsten Klemp