

Further BMA extraction plants for Egypt

In the past years, the Egyptian sugar market has undergone fundamental changes: several new sugar factories have been built (Nobaria, Nile Sugar, Belkas II), existing factories have been modernised and their capacities extended, and there are plans for further factories. In all these activities, BMA has been playing a decisive role, be that in planning, engineering or the supply of equipment. For factory modernisation and capacity extension, BMA know-how is also in demand. In engineering and studies, for instance, BMA has been preparing appropriate concepts in order to determine what additional equipment is needed and optimise its integration into existing plants.

In Egypt, BMA extraction technology is applied in all new factories as well as in the extension and modernisation of existing plants. Since the construction of the first beet sugar factory in Egypt, a large number of extraction plants have been operating to the fullest satisfaction of our customers.

This traditional cooperation with all sugar factories, and above all with ESIIC, is continued on a partnership-basis. With the installation of a countercurrent cossette mixer and a new tower two years ago, Belkas I extended the capacity of its factory from 7,000 tons of beet per day to 10,000 tons. Under this concept, a large countercurrent cossette mixer is placed upstream of two BMA extraction towers, which saves space and is perfect in terms of process technology.

The same concept is now being implemented at Fayoum. After the successful commissioning of a new countercurrent cossette mixer (6.7 x 8.5 m), Fayoum will be equipped with a new BMA tower in order to increase the capacity of the overall plant to 10,000 tons. The extraction tower will have a diameter of 7 m and an extraction length of 17.4 m.



*Example of a BMA
extraction plant*



*From right to left: Nagy Moussa,
Ahmed El-Bakry (Chairman Fayoum Sugar),
Dr Mohsen Makina, Mohamed Tantawi
(Managing Director Fayoum Sugar)*

BMA MENA prepared a basic concept in order to determine the additional equipment needed for the extension to 10,000 tons. The extraction plant as well as centrifugals, evaporators, vacuum pans and sugar coolers will be supplied. The other process stations were also analysed by BMA MENA.

With two production lines, Delta Sugar Company is the largest sugar producer in Egypt. Two years ago, Delta installed and commissioned a countercurrent cossette mixer upstream of a drum extraction plant for the modernisation of its factories. This arrangement has been implemented in several sugar factories with drum extraction plants, in order to reduce steam consumption in extraction and save energy (see also BMA Information 2008). In a second step, Delta will replace the technically outdated basket with a new and modern BMA extraction tower with a diameter of 9.6 m and an extraction length of 22.7 m.

Dr Mohsen Makina

Benefits

- Optimal state-of-the-art plant concept
- Minimal extraction losses
- Cost savings thanks to local manufacture for some plant sections
- Improved processing capacity, profitability and product quality
- Low maintenance and operating costs
- Optimal heat exchange allows for low energy requirements

Signing the contract:

Eng. Hassan Gad (Delta Sugar), Dr Mohsen

Makina und Nagy Moussa

