

Prinzing GmbH, 89143 Blaubeuren, Germany

New fully automatic manhole pipe machine for HABA in Austria

Concrete plants which are investing in a machine for manhole precast elements now also have to make the important decision as to whether they will also have to manufacture so-called manhole

pipes with overall lengths up to 2.5 m. Internationally, a clear trend has been developing in the industrialised countries in favour of manhole pipe machines and this is increasing.

The fact that the international trend towards manhole pipe machines has increased can be easily recognised at Prinzing by the 20 manhole pipe machines which the company has already supplied to 11 countries. The advantages of manhole pipes to the producer and the user are sufficiently well known. The in-plant operational sequences are extremely efficient and cost effective; seals are saved and the costs of shifting the manholes at the construction site are reduced to a minimum.

HABA Beton with its seven modern concrete plants in Germany and Austria is on



Manhole pipes overall length 2,400 mm with integrated cone and step irons



Type MISTRAL 150/250 fully automatic vibration pipe and manhole ring machine



Crane robot with three grippers for the wet and dry end



Buffer line for finished products in the outer area of the production hall

course for further expansion and, after a short construction period, commissioned a modern manhole pipe plant at the Nussdorf site in Austria at the end of 2004. The existing plant was also extended by approximately 40 m. Since Prinzing was able to present the most references for manhole pipe plants and because there was confidence in the innovative and mature technology of the company, Prinzing was appointed to supply the entire system, complete with handling. Production of the manhole elements with a nomi-

nal size of 1,000 mm was started after an installation time of just 7 weeks. Only one man is required to supervise production and monitoring. The complete fully automatic system includes the following components: MISTRAL 150/250 pipe and manhole ring machine, installation fixture for lifting anchors, GEBA procedure, step-iron magazine, product converter, floor-mounted truck conveyor, crane robot with three grippers for the wet and dry end, automatic support ring inspection with feedback, inscription machine, bottom socket releaser, socket cleaner, socket stacking stations, bottom-socket supply with oil station, transport gripper for tied products, with stacking equipment for manhole rings with low overall height and buffer line for finished products in the outer area of the production hall.

The machine is equipped with hydraulic mould clamps for fast mould changes. The high operational reliability and long service life of Prinzing machines is also ensured here by using the best quality components, such as Bosch Rexroth for the hydraulic system, menu-driven controller with the Siemens S7, data communication using the Siemens profibus system and absolute displacement systems for all

main movements etc. Only one control console with menu-driven control panel which can be rotated in any direction for viewing convenience is necessary for control and monitoring. The entire system is designed so that all the components can be seen from this one control console and the routes for the machine minder are extremely short

Summary

The newly installed manhole pipe system from Prinzing is an investment for the future for HABA Beton and will secure a competitive edge for the producer in the long-term, since only one machine minder is required to run production, a high product quality is achieved and the additional advantages of manhole pipe production are made available to both the producer and the user. The competitiveness of manhole structures constructed from precast concrete elements is strengthened in relation to other materials such as plastics. ■

Further information:

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Only one menu-driven control panel which can be rotated in all viewing directions is necessary for the entire manhole pipe plant