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New cage welding machine for the manufacture of conical and round reinforcements for concrete poles

It's the new product from mbk – the LSM-150-C cage welding machine, which was developed for the manufacture of round and conical reinforcements for concrete poles and piles in precast construction. The dimensions of these reinforcement cages range from 200 mm to 1450 mm in diameter and up to 24 m in length. A further area of use of the LSM-150-C is foundation engineering – wherever bored piles are necessary. The stable design of the LSM-150-C makes it ideally suited for harsh everyday production in steelworks and precast plants.

The wire cage welding machines of the type LSM-150-C are equipped with the new electronic welding point control. Maximum and extremely precise welding quality is achieved with this enormously high welding power. In addition, the LSM-150-C machines stand for outstanding flexibility in the manufacturing process. This is achieved through the automatic diameter adjustment with which the taper of the cages is achieved as well as simple and fast changing of the cage geometries and diameters.



The cage lengths of the type LSM-150-C range from 8,000 mm to 24,000 mm and the longitudinal wire diameters from 8 mm to 13 mm; further diameters are optionally possible. Cages with up to 48 longitudinal wires at the base (1450 mm) up to 4 longitudinal wires at the narrow end (200 mm) can be manufactured and the machine's design allows wires with different diameters to be used within a cage in the course of the diameter change. The winding wire diameter ranges from 6 to 8 mm. The high variability of the winding wire pitch is an outstanding feature of the LSM-150-C. This winding wire pitch lies between 20 mm and 250 mm and can be adjusted in the cage program for the specific customer according to the cage specification. The taper here is up to around 15 mm/m. A clear touch panel and the IPC/PLC controller enable very simple handling and programming. The setting of the reinforcement cage and welding data can be saved simply via programs, which make things noticeably easier for the employees in day-to-day production.



The hydraulic longitudinal wire clamping, longitudinal wire supports, cage supports, adjustable coiler attachments, the motorised winding wire coiler and simple winding wire guidance up to the welding point ensure stable production processes. The machine is controlled by a Siemens Microbox (PC) and the software PLC (Win-AC); a UPS is used for the controlled shutdown of the PC. The voltage is 400 V with a mains frequency 50 Hz and can optionally be adjusted to suit the respective country. The standard ambient temperature extends to +40 °C and there is an option of a regionally-specific extension to +55 °C.

Customer support can be given by the mbk Service Team at any time online via a LAN connection and the mbk remote maintenance.

mbk Maschinenbau GmbH is ISO-certified and manufactures all machines in accordance with the latest EU machine directives.

One of mbk's philosophies is the high level of individualisation. In close co-operation with the in-house technical team, the machine specifications are adapted to the customer's individual requirement profile. The large range of optionally available accessories stands for maximum flexibility in an innovative branch of industry. This ensures that appropriate configurations/extensions of the machine can be carried out at any time in order to secure competitiveness in a rapidly changing market.

Customer orientation is not just an empty phrase at mbk. mbk considers customer orientation to be active communication with customers and fast reaction to their requirements. That is made possible by a worldwide network of customers, partners and branch offices in which needs turn into ideas. And these ideas are then developed together with the competence team and brought to readiness for series production.

The LSM-150-C is the answer to the most demanding customer needs. With this new machine, mbk has both met and patented the challenges in innovation performance and thus set a new milestone in the production of conical reinforcement cages.

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