

EMP S.R.O. INTRODUCES

Company EMP s.r.o. was established in 1991 and since July 1994 it has taken over the MEZ BRNO production plant in Slavkov u Brna as part of privatization. It thus continued the long tradition of manufacturing electric motors and electric pumps on the domestic market and ranked among the traditional manufacturers of electric machines in the Czech Republic. Today, EMP s.r.o. celebrates 25 years of existence and has built up its position not only in the Czech Republic but also on the world markets.

The company has expanded production program to meet the needs of customers. Since the main customers of electro pumps used it for cooling and lubricating emulsions are machine tool manufacturers (mainly lathes, milling machines, metal saws, grinders and drills), EMP s.r.o. joined the Association of Engineering Technologies in 2004 to better monitor technological trends in this sector and subsequently able to adapt its products to the needs of machine tool manufacturers.



The company's production program can be divided into three main groups. The first group consists of electro pumps for pumping cooling and lubricating emulsions, which can be further divided into series:

- 1) **COA series** - consists of smaller pumps with a pressure of up to 0.4 bar with a liquid flow rate of 16 l / min. up to 260 l / min. Material design of components can be changed according to customer requirements and application of the pump: aluminum, plastic and bronze.
- 2) **COV swirl wheel pump series** - are pumps with pressure up to 8 bar, with pumped liquid flow rate from 28 l / min. 60 l / min.
- 3) A series of multistage centrifugal wheel pumps **COS** - consists of pumps with pressure from 1 bar to 6 bar, with pumped liquids from 30 l / min to 220 l / min.
- 4) **COSM** multistage special pumps range - pumps from 5 bar to 22 bar, liquid pumping 30 l / min.
- 5) Series of **CZ gear** oil pumps - it consists of pumps with a pressure of 3 bar to 12 bar, with a pumped liquid volume of 0.9 - 2.4 l / min.

For all of the above ranges, the voltage and frequency of the power supply can be changed according to customer requirements.



The second product group consists of electric asynchronous motors, which are further divided into:

- 1) Series of **three-phase** motors in axial heights **TM** 63, 71, 80, 90, 100, 112, 132 with outputs from 120 W to 5.5 kW 4, 6 or 8-pole winding
- 2) **Single-phase JMC** motors with permanently connected capacitor sizes 63, 71, 80, 90, 100 and power from 120 W to 3 kW. These motors are also produced in combination with the JMO disconnector.
- 3) Custom-made special motors according to customer specification in different designs (such as different polarity reversal, with brake, with temperature sensors or thermostats in the winding, with different designs of skeletons, shields and shafts, with different types of terminal blocks).



EMP s.r.o

Nádražní 394, 684 01

Slavkov u Brna, CZ

E: info@emp-slavkov.cz

T: +420 544 423 011

W: www.emp-slavkov.cz



4) Special motors with epoxy resin encapsulated windings intended for continuous operation in the aquatic environment, i.e. products intended for drinking and waste water pumps. Common versions of the above products: IP55, insulation version F (optional H), shields in various variants (B3, B5, B14A, B14B), efficiency (IE1, IE2, IE3), voltage and frequency of supply according to customer requirements. As well as customer modifications.

The last group of products consists of built-in motors according to customer's



Some of the above products have been developed in cooperation with Brno University of Technology and the Academy of Sciences of the Czech Republic and with the support of EU funds for research, development and innovation. Above all, these were COV, COS, COSM, and potted motors.

The company has invested in machinery to increase productivity and improve the quality of its products. The company invested in CNC machine tools, baling machines for the production of stators, new drilling machines, impregnation furnaces. Existing machinery has been continuously modernized and equipped with industrial control. Investments were also made in modern information systems (ERP Helios Orange), permanent upgrading of employees' qualifications, thermal insulation and maintenance of buildings.



In recent years, the company's turnover has been around CZK 110 million and has a permanent staff of approximately 115 employees. It owns ISO 9001, ISO 14001 and the prestigious BLUE COMPETENCE trademarks. Our sells 40% of its products within the domestic market and 60% of its products go abroad.



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