

COMPANY PROFILE

Zlieváreň Zábřež, Inc. is a joint stock company established in 1997 for the field of precision casting. The company specialises in the production of steel castings by lost wax process, also called precision castings.

The castings made in Zlieváreň Zábřež Inc. have a variety of uses in various branches of industry such as: automotive industry, mechanical and electrical engineering, metallurgy, building industry, aerospace industry, textile and arms production, transport and agricultural technics.

TECHNICAL PARAMETERS

The size of the castings is limited by following parameters:

Weight		0,002 kg – 15,00 kg
Minimum wall thickness		2 mm
Maximum dimensions:	<i>length</i>	500 mm
	<i>width</i>	250 mm
	<i>height</i>	100 mm
	<i>diameter</i>	240 mm
Standard surface roughness	<i>(after shot blasting)</i>	Ra 6,3μ

* requirements close to the mentioned parameters have to be consulted individually

ASSORTMENT OF MATERIALS

➤ **Steels**

- carbon /e.g. STN 11600, 12010, 422643, 422660, 422670, 422819, DIN GS52, 55Si7/
- low alloyed /e.g. STN 14220, 422830, 422842, 422843, DIN 16MnCr5, 15CrNi6, 42CrMo4/
- medium alloyed /e.g. STN 17241, 422760, DIN 1.4408/
- high alloyed /e.g. STN 422951, DIN 1.4849, 1.4852, 1.4865/

➤ **Grey cast iron and white cast iron**

- **Bronze** /e.g. CuSn10, CuSn12, CuSn12Ni1/
- **Brass** /e.g. CuZn31MnAl, CuZn36Pb1/
- **Ductile iron**

DIMENSIONAL ACCURACY of castings meets the requirements of following standards:

- STN EN ISO 8062-3
- VDG-P 690 /Germany/
- others

ADDITIONAL TECHNOLOGICAL OPERATIONS, which the company is able to ensure by own capacities or in cooperation:

- Straightening /calibration/
- Thermal treatment /e.g. normalizing, spheroidizing, heat treatment/
- Surface treatment /galvanic, chemical/ *in cooperation*
- Machining *in cooperation*

Production of samples with new types of casting, including production of mould is provided within 6 up to 8 weeks.

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Serial production of new castings can be started by 1 month after validation of the samples. Volume of production series starts from 10 pcs a year.


Customers are always supplied with casting agreed certificates. The quality control system has been certified according to **EN ISO 9001:2000** since 2001.


INVESTMENTS AND INNOVATIONS

In the last few years the company has invested in the innovation process by purchasing the following items:

- optical scanner ATOS
- 3D printer DIMENSION,
- new pressure device- autoclave
- coating line

All these innovations lead to higher quality of the castings, constantly shortening time of deliveries, increasing of production capacity and improving the working environment of its employees.

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