

Production cooperation. Castings.

■ Non-ferrous castings:

The following bronze grades and aluminium alloys are accepted for castings production:

- БрАЭЖЗЛ, БрА10ЖЗМц2Л, БрА10Ж4Н4Л GOST 493-79;
- Бр010Ф1, Бр05Ц5С5 GOST 613-79;
- castings production out of other non-ferrous alloys can also be considered. For example: GZ CuSn12Ni, GZCu7ZnPb, GZ CuSn12Pb DIN 1705, Бр08С12 ОСТ24.916.01-82 and others.
- castings production in the shape of rotary body by centrifugal process with weight of liquid metal from 20 kg up to 3,5 t. and diameter 105...1500 mm;
- large-size castings production, such as bushings, nut rings, shells with total weight of casting and attachment up to 10 t (crane capacity);
- castings production (blanks) in stationary chill molds with diameter from 50 up to 150 mm and height of 300 mm (without sinkhead); - castings production in the shape of plates with maximum dimensions of 1000x500x50;
- rough machining is applied to all castings in the shape of rotary body (to be specified upon conclusion of the contract);
- aluminium and copper scrap is remelted and cast into pigs.

Fettling, cleaning and primary heat treatment of steel and pig iron castings weighing from 0,5 up to 110 t.

■ Scientific research works performance related to metallurgical production study..

■ Testing centre is fitted with up-to-date equipment, enabling to inspect forgings, castings, welded joints and others. Specialists of the centre had been appropriately trained and obtained qualification certificates. Technical competence of testing centre has been certified for tests performance in regards to high-risk facilities manufactured under control of State Supervision Committee (GOSKOMNADZOR).

■ Steel casting:

- production of box-type parts (cross-beams, frameworks, housings) with weight up to 105 t out of carbon low-alloy and medium-alloy steel grades;
- heavy parts production (anvils, drop-hammer plates, blocks) with weight from 80... up to 110 t out of carbon low-alloy and medium-alloy steel grades;
- castings production with weight 5... 10 t out of carbon and alloy steel grades, as well as high-alloy and special steel grades (gear rings, housings, gear box covers);
- small castings production out of carbon and alloy steel grades with weight 0,05... 1 t (armour plates, eye ends, covers); any castings production out of low-carbon medium-alloy and high-alloy steel grades with weight from 1 up to 105 t, box-shaped castings – up to 60 t.

■ Iron casting.

Castings production out of the following iron grades:

- grey iron grades :Сч15, Сч20, Сч25, Сч30 GOST 1412-85 for castings with weight up to 70 t;
- iron grades СчИ1, СчИ2 ТУ24.00.13.031-87 for casting of molds, bottom plates, tops; casting molds with weight up to 105 t;
- iron grades with special properties ЧХ1, ЧХ3, ЧС5Ш ГОСТ 7769-82, ЧХ28Г2Н1МФ according to individual specs;
- bearing cast iron АЧС1 GOST 1585-85;
- high-strength cast iron according to DSTU 3925-99: ВЧ450-5; ВЧ500-2 for castings with weight up to 4,5 t., ВЧ600-3, ВЧ700-2 for castings with weight up to 50 kg;
- special-purpose iron grades СчР (for retorts), Сч20ХН (for blast furnaces lining), Gh190 (for automotive spare parts). Castings production from other iron grades can also be considered and accepted.