

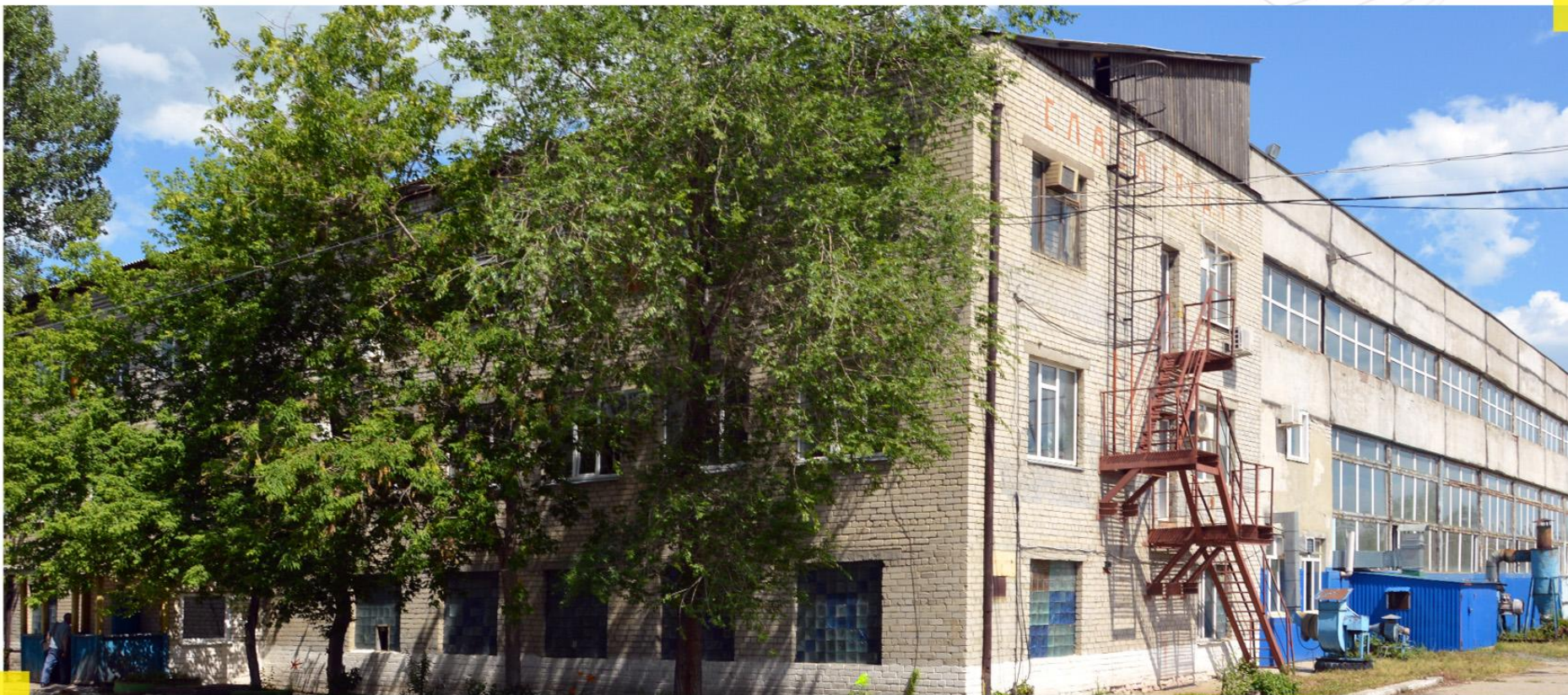


УЛЬЯНОВСКИЙ
ПРИБОРО-РЕМОНТНЫЙ
ЗАВОД

ТОЧНОСТЬ В ДЕТАЛЯХ

ULYANOVSKIY PRIBORO-REMONTNIY ZAVOD

ACCURACY IN DETAILS



ULYANOVSKIY PRIBORO-REMONTNIY ZAVOD (UPRZ) — a diversified enterprise with a large range of manufactured products and services. The presence of machine tool fleet, and machinery and competent engineering and technical staff allows producing high-quality products in a very short time.

United production complex:

- toolmaker's shop,
- production shop of plastic products,
- die stamping plot,

- nonferrous castings plot,
- assembly shop.

Main business lines:

- design and manufacture of tooling,
- die stamping and casting (nonferrous metal casting and plastic on injection molding machine),
- manufacture of items and components for automotive industry.



The enterprise was founded in the city of Ulyanovsk, which has a favorable geographical position in the center of the industrialized Volga Federal District of the Russian Federation.



Tool-making facilities of our factory are for over 20 years. During the last few years, with a transfer to the new equipment there has begun an active development, which allowed to increase the complexity of the manufactured equipment and its dimensions.



The enterprise is equipped with modern domestic and foreign equipment related to:

- precision metalworking,
- manufacture of tooling (molds, dies, metal kits),
- die stamping,
- injection molding of plastics and nonferrous metals,
- assembly of units.

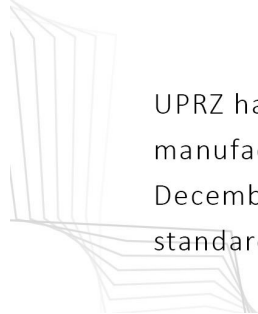


The enterprise purchases equipment from the world's leading manufacturing companies (DMG MORI, Haas, Mitsubishi, ENGEL , Bole, HAITAI).

The staff an enterprise - highly skilled professionals who want to develop.

All this allows the full cycle of works from design to output of the final finished product.

SYSTEM



PARTNERS

ottobock. mobility

ALBIS

Tarkett | УНИКАЛЬНОЕ
ОЩУЩЕНИЕ ПОЛА

VAM Производство
Автокомпонентов
BM АВТО

АВИАСТАР-СП

YTEC

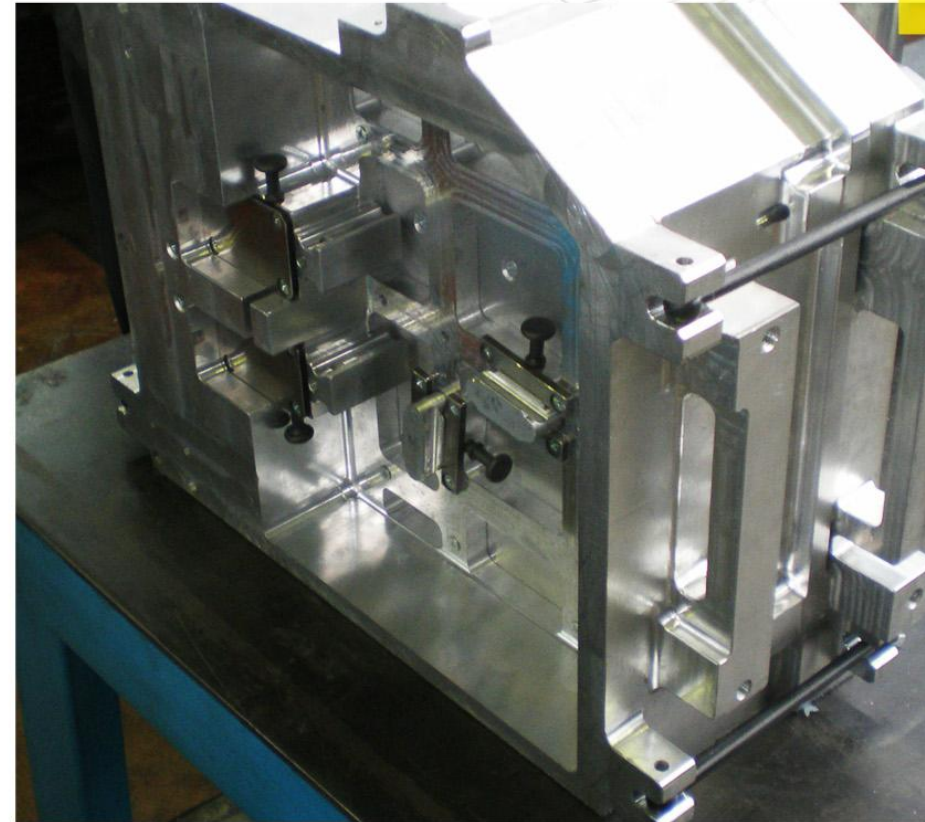
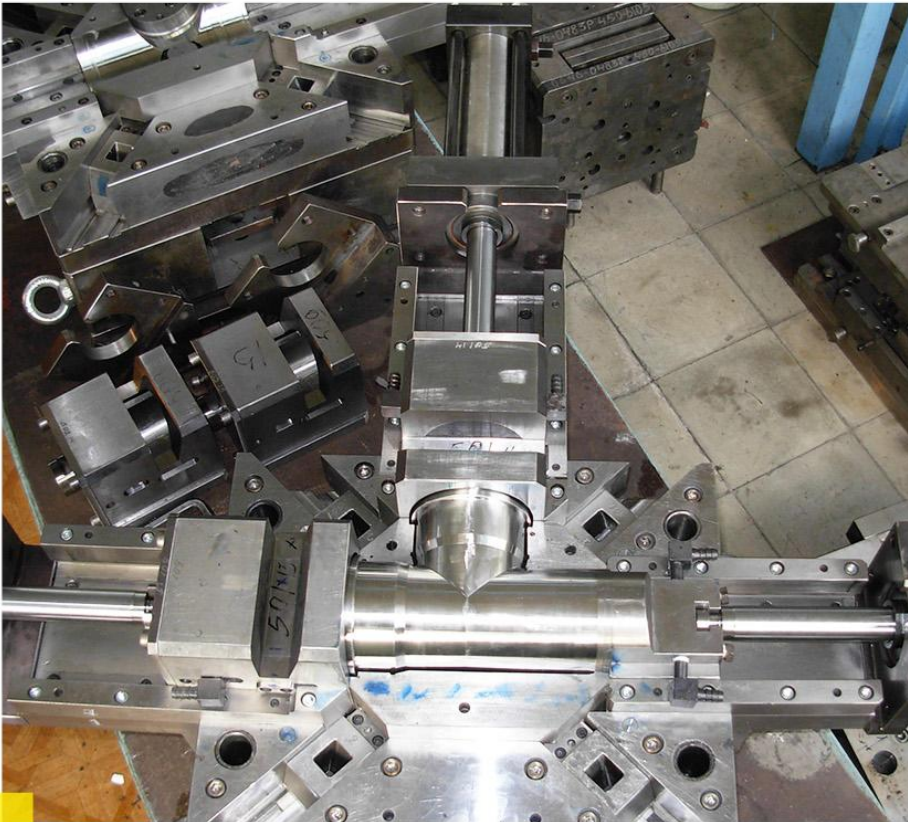
DMG MORI

КАЛТЕК

SCHMOLZ + BICKENBACH
Providing special steel solutions



TOOL-MAKING FACILITIES



UPRZ develops and manufactures the following types of tooling:

- press molds (casting molds for high-pressure casting of plastic materials and metal alloys),
- cold forming stamps,
- casting molds,
- casting pattern equipment - sand mold casting,
- investment casting,
- accessories,
- other products.

TOOL-MAKING FACILITIES

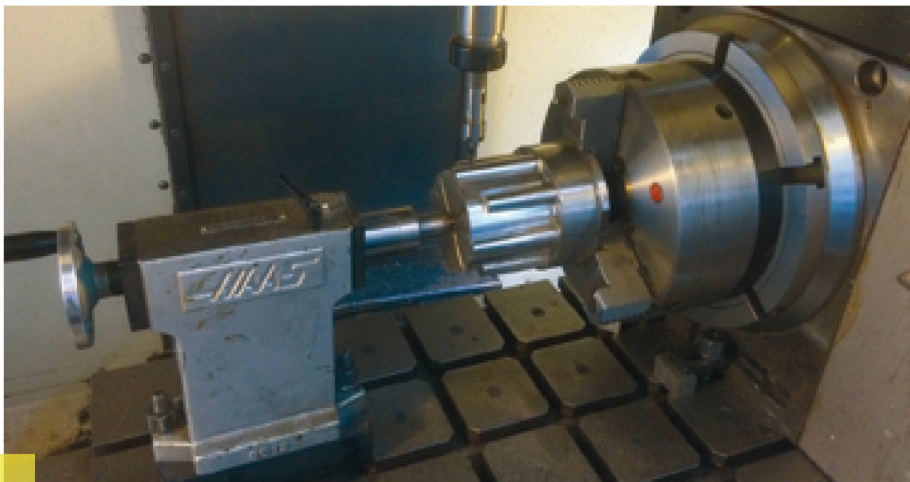
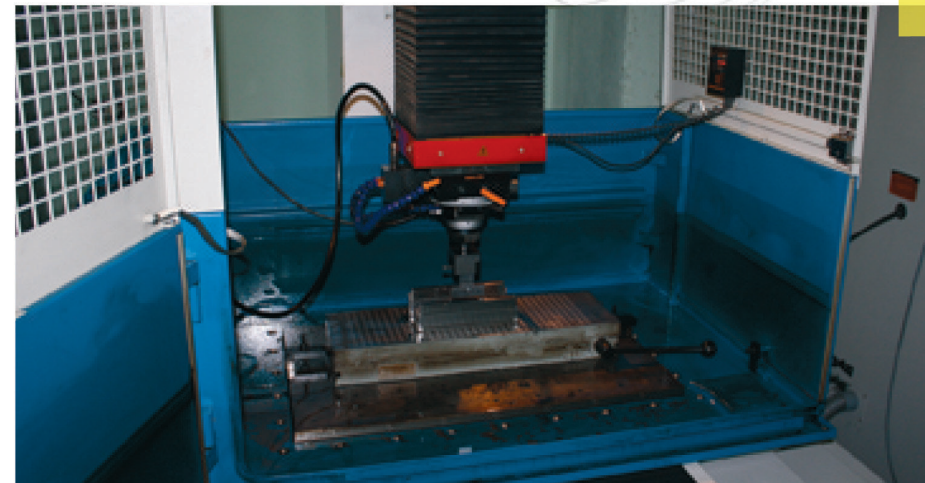


In the shop there is a complete tooling cycle:

- design of tooling using engineering simulation software,
- development of technological machining programs,

- manufacture of tooling,
- finished tooling testing.

TCAPABILITIES OF TOOL-MAKING FACILITIES



The presence of special technical processes allows the full cycle of manufacture of equipment at production sites with dimensions up to 1000x1000 mm and weight up to 5000 kg.

All these areas are equipped with turning, drilling, grinding, milling, electrosparking, jig grinding equipment of domestic and imported production and processing centers.

PRODUCTION SHOP OF PLASTIC PRODUCTS



Plastic molding is carried out at the plant using the equipment made by leading foreign manufacturers: «Battenfeld» (Germany), «Arburg» (Germany), «Bole» (China).

On injection molding machines is recycled a wide range of thermoplastic materials and compositions of them. Are available injection molding machines with clamping forces from 60 to 400 tons and injection volume up to 2000 cm³. In the production of products, the following types of thermoplastic are used:

- polypropylenes PP,
- polyacetals POM,
- polycarbonates PC,
- glass-filled and molding polyamides PA,
- plastic ABS,
- polystyrene PS,
- polyvinylchlorides PVC,
- polyethylenes of high and low density.

DIE STAMPING SITE



UPRZ carries out cold stamping of sheet (including the roll one) material, thickness of which may vary in the range of 0,3-6 mm, in presses with pressing force of up to 160 tf. For cold stamping the following materials are used: brass, bronze,

steel 45, steel 08 YU, steel 08 KP, steel 08 PS, steel 65 G, etc. On the site are made inserts for molding of plastics under pressure, spare parts for cars UAZ, as well as contacts of lighting and electrical appliances.

NONFERROUS CASTINGS SITE



On UPRZ there is a site equipped for casting under pressure of metal alloys based on two types of metals: aluminum and zinc.

The casting process is performed using casting machines, which locking force is from 1600 to 2500 kN.

Depending on the design of casting moulds made of aluminum and zinc alloys under pressure are made castings of various structures and configurations. Materials for such production are selected based on technical requirements for products, namely: aluminum AK 5 - AK 12, zinc ZAM4-1.



One of the main business areas of UPRZ is the production of car components for the automotive industry, and there is a large variety in the assembly shop. In UPRZ there is a wide range of automotive components of the following types:

- breakerless ignition switch,
- lamps and lighting technology for cars UAZ, VAZ, etc.,
- different types of handles for vehicle equipment: side door handles and outside handles for doors of luggage compartment.



Stages of the production process and potential of the assembly shop:

- machining of workpieces(drilling, drawing, the thread, etc);
- painting metal parts with powder paints with total surface of painted area up to 400 cm³. The process takes place in an electrostatic field on a semi-automatic line;
- electric contact elements welding with thickness up to 4mm;



- painting details with nitroenamels manually using a sprayer;
- manually installation of auto component parts (lights, handles for external and internal doors of UAZ, eurohandles for UAZ vehicles, etc) with the use of pneumatic and electric screwdrivers;
- electric assembly of circuit plates and adjustment of elements using electronically controlled equipment.



ULYANOVSKIY PRIBORO-REMONTNIY ZAVOD (UPRZ)

42 v Moskovskoe shosse, Ulyanovsk, Russia 432045

+7 (8422) 61-35-55

+7 (8422) 61-73-88

uprz@uprz.ru

www.uprz.ru

THANK YOU FOR YOUR ATTENTION!

