FORGING PLANT
Forging plant

General information

- **Area**: Total area – 668,000 m²; production area – 217,200 m²
- **Production facilities**: 4 active forge-and-press production buildings, 1 mothballed production building (building No.2)
- **Technological cycle**: Cutting of rolled metal into billets, forging process, heat treatment, finishing operations. Complete cycle of technological preproduction, forge tooling production
- **Forgings weight**: 0.05–120 kg
- **Forgings dimension**: The diameter of round in plan forgings is up to 350 mm; the length of elongated in plan forgings is up to 1800 mm
- **Production capacity**: 197,000 t of forgings per year

**Competitive advantages:**

**Full cycle of new product creation**: from marketing and design to pre-production, production and sales. The company is equipped with modern facilities and has a wide range of competencies:
- ✓ own technology development,
- ✓ manufacturing of tooling, rehabilitation of tooling by welding,
- ✓ complete cycle production of forgings, stamping, heat treatment on various methods and modes of delivery of finished goods to the warehouse,
- ✓ own production of spare parts for equipment and the repair of equipment.

**Production versatility**: experience in forging production to the automotive business, railways, oil and gas industry, mining industry, etc.
Forging plant

Equipment

The forging process is performed on:
mechanized lines based on crank die forging presses:
- 1000 ton force – 6 units
- 1600 ton force – 10 units
- 2500 ton force – 8 units
- 4000 ton force – 9 units
- 6300 ton force – 5 units;

2 automated lines based on Oemuco crank presses operated by 12,000 ton wedge drive;

automated lines based on Hasenklever horizontal forging machines 250, 500, 630, 800, 1250, 2000 and 3150 ton force – totally 9 units.

Forging technologies

- Stamping using pre shaping (ARWS rolling)
- Stamping shafts with a set of smaller cross-section billet
- Cross-wedge shaft rolling
Forging production

Hot forgings of different parts for trucks and passenger cars, agricultural vehicles, trailers and power trains:

- Steering knuckles
- Front axle beams
- Crankshafts
- Hubs and flanges, round and elongated in the plan
- Levers
- Shafts
- Gears
Pre-production

Pre-production is carried out using the latest design techniques and tooling systems CAD – CAM – CAE:

- Unigraphics NX4 package – 3D design,
- Qform package – hot forging simulation processes;
- manufacture of dies using machining centers on 3D-models.
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