

ENGINEERING AND METALLURGICAL GROUP



UNEX®

COMPANY PROFILE

MINING EQUIPMENT

HEAVY ENGINEERING

CASTINGS AND FORGINGS





UNEX®



TRADITION – QUALITY – FLEXIBILITY

Metallurgical and engineering group UNEX is a world-known manufacturer of bucket wheel excavators, an experienced supplier of heavy engineering components, a long-term partner of numerous multinational industrial corporations and a major employer in the region.

The UNEX engineering-metallurgical complex has been helping more than 65 years to create a tradition of Czechoslovak heavy engineering. The experience and expertise of the people; together with modern technologies, robotised and automated workplaces, a number of

heavy machine tools and extensive production facilities enable to efficiently produce high quality products for various industries according to drawings and requirements of the most demanding customers.

Thanks to its own engineering shops, paint shops, foundries and forging shop, UNEX is able to deliver a wide range of heavy steel structures, including assembly, final machined castings and forgings. More than 2 thousand experts work in three plants in Uničov, Olomouc and Slovak Snina. UNEX exports most of its production all over the world.



UNIČOV

- Bucket wheel excavators and mining equipment
- Steel structures up to 120 t in weight and 40 m in length
- Steel castings from 5 kg up to 18 t
- Manganese steel castings, nodular and grey iron castings from 5 kg to 3.5 t
- Cut parts from standard and special materials



OLOMOUČ

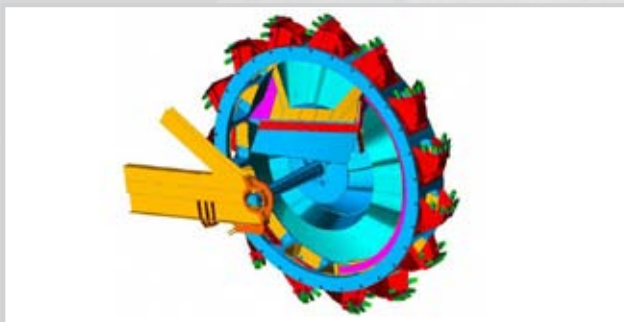
- Nodular and grey iron castings from 50 grams up to 6.5 kg
- Nodular iron fittings
- Die forgings from 2 kg to 25 kg



SNINA

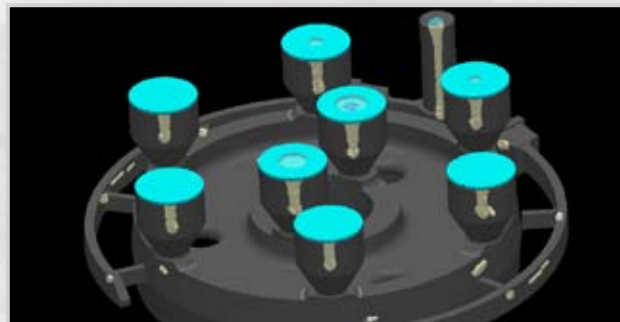
- Steel constructions with a max. weight of 64 t and 45 m in length
- Cut parts from standard and special materials

TECHNICAL AND PRODUCTION CAPABILITIES



Design and Development Work

We provide technical support, it is understood as all technical activity - offer proceeding, development, production drawings, up to technical assistance during production and assembly.



Metallurgy Technical Support

We use a wide range of software tools to help us achieve production efficiency and cost savings, i.e. programmes MAGMASoft, CATIA and Simufact.forming 8.0. We offer support to business partners in the development or technical modification of their products.



Castings Production

We produce castings from 50 grams up to 18 tons depending on the material standard and product dimensions. We offer automatic, semi-automatic and hand moulding.



Die Forgings

The forging shop assortment includes die forgings with the weight of 2–25 kg. We produce rotating and non-rotating forgings in production batch from 100 pieces.



Cutting and Forming of Materials

We deliver shape cut parts from standard construction steels and special material. We are also able to provide non-standard materials or materials with unusual dimensions.



Welding

As a standard we ensure welding of standard and austenitic steels and welding of non-ferrous metals, including aluminium. We verify the quality of welding using all known methods.



Machining

We are able to perform both rough and precision finishing machining of parts with dimensions from several centimetres up to sizable workpieces. We process both rotating and non-rotating parts, including those involving intricately shaped surfaces, such as forging dies, etc.



Heat Treatment

We offer normalization, annealing, quenching and tempering, stress relieving, soft annealing, stress relieving after welding and ferritizing annealing.



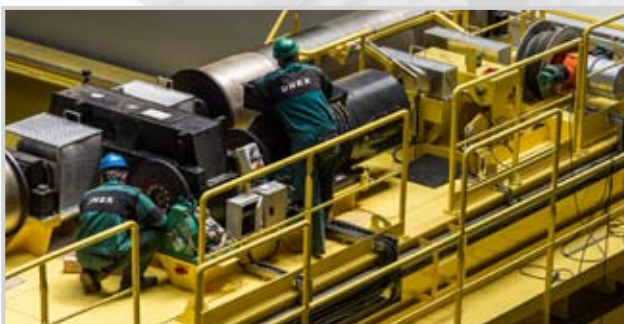
Surface Treatment and Painting

The entire production process is ended with a surface treatment and final painting and/or anti-corrosion protection according to customer's request.



Quality Control

We check the quality of our production throughout the entire production cycle. Our certified laboratories and test-rooms are fully equipped to help us evaluate the quality of all produced materials and final products.



Completion and Assembly

We assemble mining equipment, but also construction units. In the case of products for which we do not provide assembly work, we assemble such equipment ourselves and for more complicated technological components we also do trial assembly operations.



Service

We repair and renovate own products as well as the products of other companies. The scope of offered operations is based on the requirements of the customer – from minor repairs to overhaul and modernisation of machinery.

MINING INDUSTRY

- Booms, arms, pylons, side frames
- Parts for transmissions, chassis and bodies of dump trucks
- Components for stacking machines, reclaimers and excavators, mining trucks
- Steel construction of hoisting equipment and mining transport devices
- Long-distance belt conveying, stocking machines
- Discharging wagons, belt wagons, mobile hoppers



HANDLING AND LIFTING EQUIPMENT

- Booms, arms, pylons, under frames
- Crane frames, travelling wheels, pulley
- Parts and steel structures of harbour, bridge and portal cranes
- Low-lift truck parts



POWER INDUSTRY

- Frames for the settings of steam turbines
- Steel structure suspension of water turbines
- Steel structures for transformer housings
- Frames and other parts for wind-power plants
- Parts for grinding equipment and coal crushers
- Transport frames



CONSTRUCTION AND EARTHWORKING MACHINES

- Booms, arms, frames, pylons, undercarriage parts
- Track links, teeth
- Parts for transmission and drive units
- Other parts for construction machines



**WE PRODUCE UP TO 39,000 TONS OF CASTINGS
AND 24,000 TONS OF WELDMENTS PER YEAR.**



AUTOMOTIVE INDUSTRY

- Parts of articulated shafts, transmissions and truck chassis
- Components of drive units for cars
- Components for towing device, exhaust bodies



RAILWAY INDUSTRY

- Steel structures, castings and forgings for bogies
- Parts for rail gears
- Parts for brake systems
- Parts for air units
- Bearing plates



OFFSHORE

- Base frames for turbo-generators set on FPSO vessels
- Parts for offshore cranes



AGRICULTURAL MACHINERY

- Parts for transmission, drive and brake systems
- Parts and steel structures for agricultural machinery

**WE USE 191,767 SQUARE METERS OF PRODUCTION SPACE
AND 62,877 SQUARE METERS OF WAREHOUSE SPACE.**

CONTACTS



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