

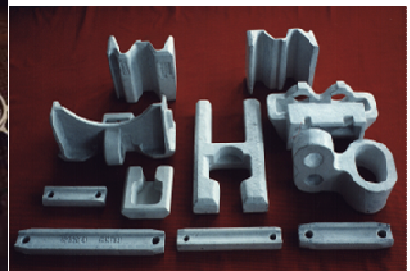


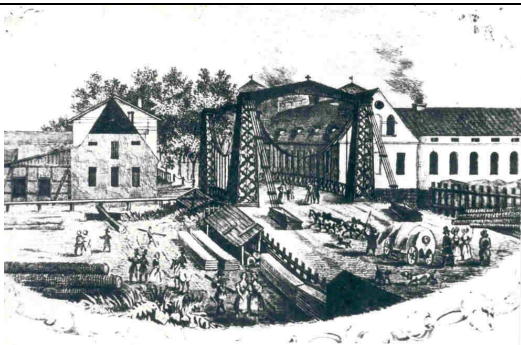
**SYNERGY OF TRADITION, EXPERIENCE AND
KNOWLEDGE**



HUTA MAŁAPANEW
GRUPA GWARANT

BIRTHPLACE OF POLISH FOUNDRY





HISTORY

The origins of HUTA MAŁAPANEW date back to 1754, when King Frederick II ordered that a Royal Foundry is to be built on the banks of Mała Panew river. It consisted of two large furnaces and a bloomer furnace.

Since 1791 Huta started founding cylinders, wheels, steam machines, chains, pillars, bars, tombs and bridges.

In 1796 an iron bridge was casted for Strzegom, two years later another one for Berlin, and in 1827 one for Mała Panew river (the oldest in Europe now).

In 1850, the castings from Huta were rewarded with a silver medal at the agricultural exhibition in Opole, a year after the milling rolls were awarded with a bronze medal in London.

ABOUT US

HUTA MAŁAPANEW Ltd. took over the heritage after the joint-stock company named likewise. Since 2004 it is a part of GWARANT Capital Group S.A. Huta is on of the biggest polish founders and a valued supplier of steel casting, including rolls of many sorts.

Huta supplies rough and machined castings for internal market and over 15 countries worldwide. We cater for industries like: metallurgy, energy, railways, mining industry, mineral industry, armatures as well as for the transportation industry. We also produce fittings for pipeline transporting purposes.

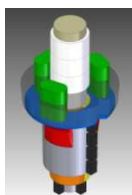
CERTIFICATES AND REFERENCES

Our foundry operates with an Integrated Quality and Environment Management System in accordance with ISO 9001 and ISO 14001 norms, certified by BV and a Quality Management in Laboratory System compliant with PN-EN 17025. Our highest effort in ensuring quality in production and inspections, including the implementation PED Directive material and process requirements, as well as the competence of our staff are confirmed by many renowned body certificate and Classification Societies:

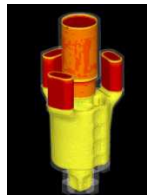
- for tests (chemical, mechanical, nondestructive)
 - UDT, BV, PRS
- for castings - LR, BV, PRS, ABS, DNV GL
- for railway castings: welding – TUV, casting and head treatment - DB
- for valves – BV.



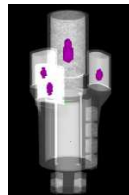
Body for casting simulation



Pouring technology



Ladle chill simulation



Porosity simulation

TECHNOLOGICAL DESIGN

An order for castings is evaluated by the Technologists in Huta. Based on the construction documents, pattern or model and the discussed quality requirements, they prepare a complete technological documentation for creating the models, forms and cores along with heat treatment.

Technology design is supported by innovative software Solid Edge by Unigraphics, which is an excellent 2D/3D design workstation. We also use the Pro CAST software made by a Swiss company ESI, for simulations of pouring and ladle chill in the forms. Fittings are designed by CAD.

PRODUCTION AND SERVICE CAPABILITIES

OFFERED PRODUCTS AND SERVICES

Production capabilities of HUTA MAŁAPANEW is 10 000 Mg/year in castings. Main lines of our production are: rough castings, finished castings, rolls, fittings and machine parts (wheel sets, rolling instrumentation). Castings are delivered up to clients request either rough or treated (coarse or finished).

We also offer production and measurement services like:

- heat treatment (weight - 10 Mg max, input weight 5-30 Mg)
- mechanical treatment (detail weight - max 25 Mg)
- tests and measurements of details, length and angle instrumentation

You will find more details on products in specific offer charts.

PATTERN INSTRUMENTATION

We use pattern instrumentations made from wood, artificial materials or metal. We make our own instrumentation, adapt clients patterns or prepare it along with clients requests in our own pattern manufacture or by cooperates.

IRONMAKING

We produce castings from nearly 200 types of steels and irons according to material norms: PN, ISO, EN, DIN, ASTM, GOST, BS or as requested. We cast in induction and arc furnaces. Maximal weight of one castings can take up to 20 Mg of metal.

FOUNDING

Cast forms and cores are produced manually and by machines. Depending on the material and construction of the cast we use moist (bentonite) and chemo-toughening (tetrol, alkyde, Floster and others).

Maximal weight and dimensions of castings:

- | | |
|---------------------------------------|--------------------------------------|
| - rough casting weight | min 5 kg, max 12 000 kg |
| - manually formed casting dimensions | max 3000 x 3800 x 1500 mm |
| - machine formed casting | max 1000 x 500 x 250 mm |
| - minimal thickness of casting walls: | steel cast - 8 mm, iron cast - 5 mm. |

HEAT TREATMENT

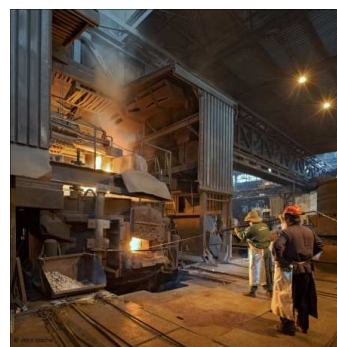
We ensure the required endurance properties of casts due to heat treating them in computed heating furnaces, hardening basins and sorbiting whirls.

WELDING

We use welding technologies (WPQR) compliant with norms: PN-EN ISO 11970, PN-EN ISO 15614-1, and PN-EN ISO 15614-7 approved by classifying societies like TÜV Nord, TÜV Sud, ABS, DNV for materials: GP240GH, G17CrMo5-5, GX6CrNiMo19-11-2, GX5CrNi13.4, GS18NiMoCr3-6, LCCQT.

We hold the following certificates of compliance with PN-EN 15085-2 norm for CL-1 for welding castings for railway industry.

Our welders are certified by: TÜV Nord, TÜV Sud.

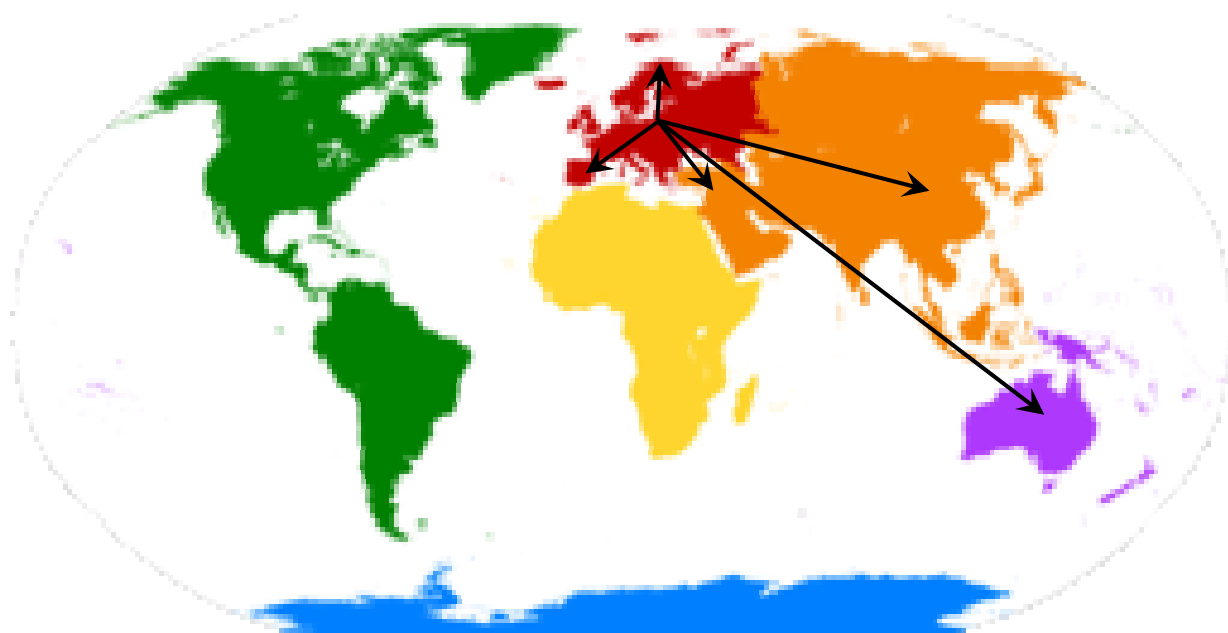


TESTS AND QUALITY CONTROL

Along with production our internal laboratory runs chemical and endurance tests for metal samples as well as destructive and non-destructive tests on castings.

During the final examination by Quality Control, casting are also measured for hardness, dimensions (also leakproofness if needed).

Our quality is confirmed by 3.1, 3.2 certificates and the declaration of conformity, also the detailed protocols if requested.



COUNTRIES WHERE WE EXPORT OUR CASTINGS

EUROPE

Germany, UK, Holland, Czech Republic, Slovakia, Hungary,
Romania, Spain, Greece, Turkey, Sweden, Finland

OTHER

China, Israel, Australia

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