

The background of the image is a photograph of an industrial manufacturing facility. In the center, a large piece of machinery is processing molten metal, which is glowing bright orange and yellow. The surrounding area is filled with various industrial components, pipes, and structural elements. The lighting is somewhat dim, with the primary light source being the heat of the molten metal. On the left side, there are blue and black geometric shapes that appear to be part of a graphic design or logo.

CHÁMOR ZRT.

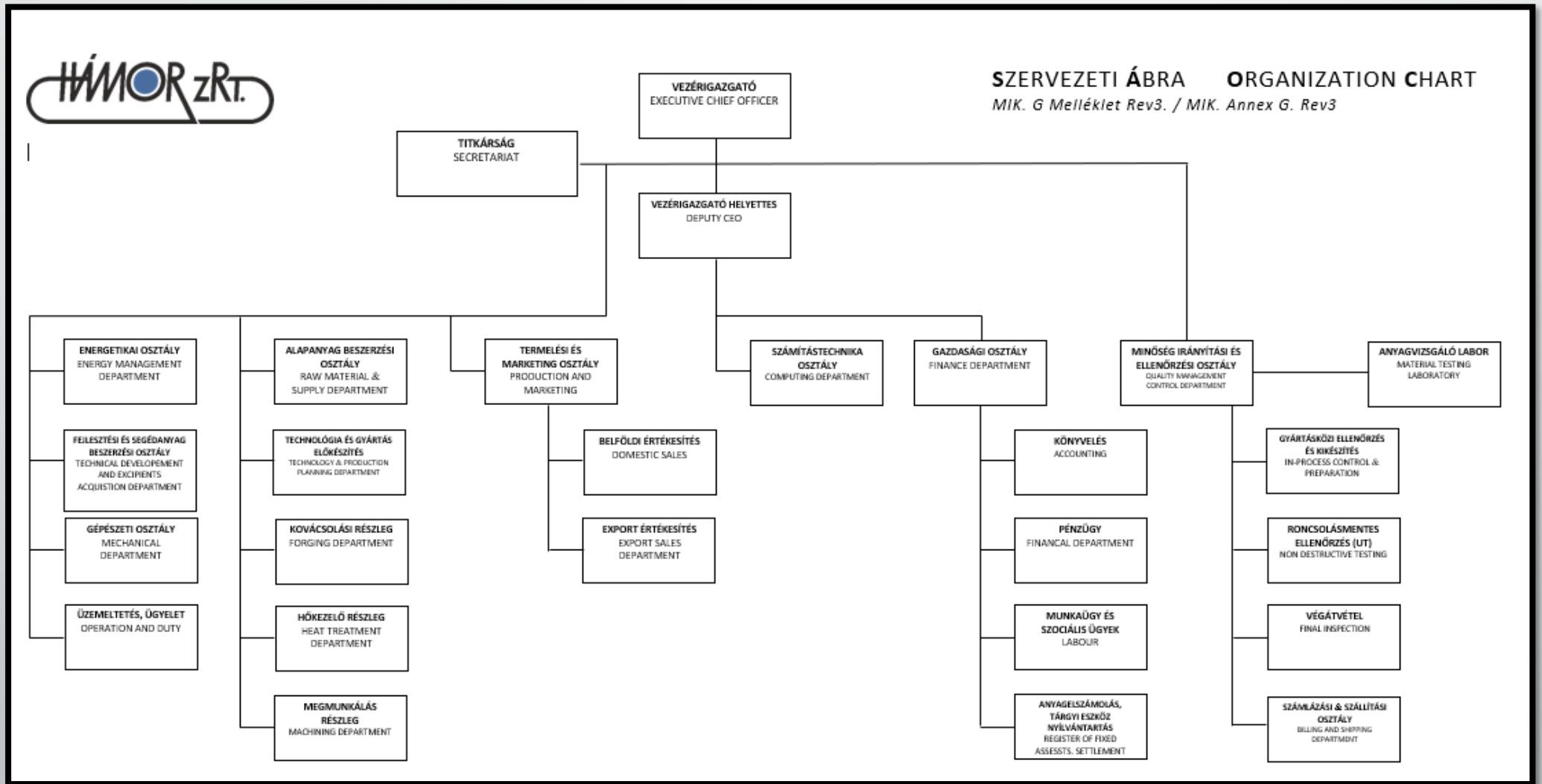
FORGING , MACHINING, HEAT TREATING, MATERIAL TESTING

ABOUT OUR COMPANY

- Hámor Zrt. is the largest Hungarian open-die forging mill.
- The Company was founded in 1989.
- At that time we supplied the Hungarian market with wide range of forged products while in the export market we mainly focused on the railway industry and supplied wheels to more than 15 countries.
- At the beginning of the 90's we made investments to getting into the market of bearing industry which is still playing an important role for us through our daughter company, the Steelring Ltd.
- At the beginning of 2018, our new Material Testing Shop was created. The top management's plan was to provide all informations about materials of our products.
- In 2020 the company invested in a new diesel manipulator to speed up the production
- In the second half of 2021, the investment of the century was realized: the brand new hydraulic forging press with integrated railbould manipulator was ordered, installed!
- At the beginning of 2022, the brand new forging press was put into production.
- Despite the war and economic crisis, our position has strengthened in the market.
- 2023 - We started this year with a challenge that involved producing products that had to comply with the DNV RP 0034 specification. We had to manufacture forged pieces at the SFC1 and SFC2 levels, which had to meet various requirements.
- 2024 – New Year New Challenges – we break into the world of copper forging
- 2025 – From this year onwards, the demand for copper forging has been continuous. Strick requirements continue to be met (SHELL, TECHNIP, DNV RP0034 specifications)



ORGANIZATION CHART



VISION & MISSION

At HÁMOR ZRT, we envision becoming a global leader in open-die steel forging in EUROPE, setting the industry standard for quality, innovation, and sustainability. Our mission is to deliver high-performance forged steel components that exceed our clients' expectations in strength, durability, and reliability.

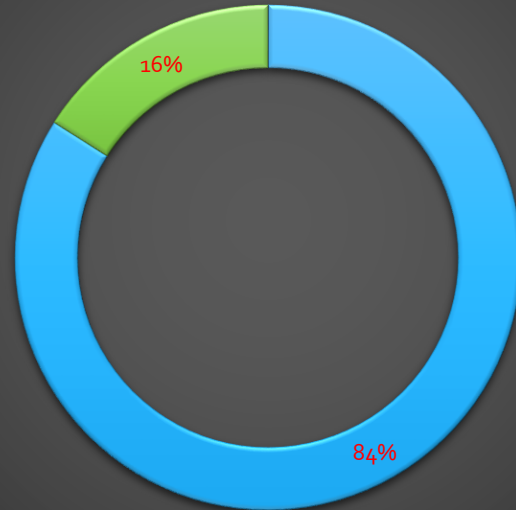
We committed to

- Innovation & Excellence – Continuously advancing our forging techniques**
- Customer-Centric Approach – Building long-term partnerships by providing tailored solutions and exceptional service.**
- Uncompromising Quality – Adhering to the highest industry standards, including SHELL, TECHNIP, and DNV RP0034 specifications.**



SOME INTERESTING DATAS

2024 - Export/Domestic ratio



- Export – 84%
- Domestic – 16%
- Approx 3000 TONS / YEAR (Product)
- LESS THAN 0,2 % SCRAP PRODUCTS / YEAR

Most Manufactured Material Grades - 2024

Case-hardening steels	18CrNiMo7-6
Low – alloy steels	42CrMo4 (AISI4140)
	25CrMo4 (AISI4130)
	30CrNiMo8, 34CrNiMo6
Carbon steels	C45, C60
Carbon manganese steels for pressure equipments	S355J2G3 (S325G)

process
improvement

QUALITY CERTIFICATES



Quality Management System

ISO 9001:2015



Quality Assurance System

Pressure Equipment AD 2000 Wo



Laboratory Approval Certificate



American Bureau Of Shipping (ABS)
Facility and Process Approval



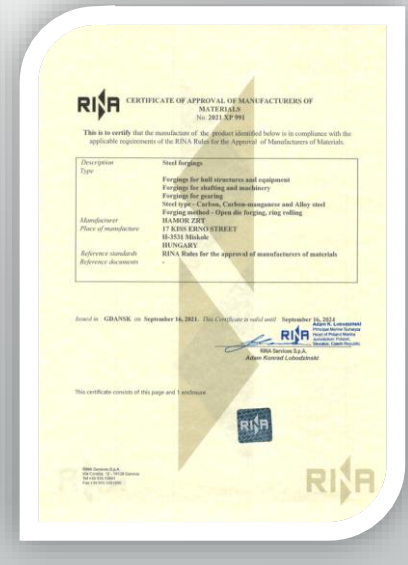
Bureau Veritas (BV)
Facility and Process Approval (Marine - Offshore)



DNV
Steel Forgings Approval



Lloyd's Register (LR)
Steel Forgings Approval



RINA
Steel Forgings Approval

MATERIAL GRADES

ASTM Qualities	EN Qualities 1	EN Qualities 2	BS Qualities
A105	11CrMo9-10	P250GH	708M40
A106	13CrMo4-5	P265GH	709M40
SA-105	16Mo3	P275NH	722M24
SA 182 F22	16MnCr5	P280GH	817M40
SA 182 F11	20MnCr5	P280NH	826M40
SA 182F12	18CrNiMo7-6	P285QH	655M13
SA 266 Grade 2	20Mn5	P295GH	832M13
SA 266 Grade 3	21CrMoV5-7	P305GH	
SA 266 Grade 4	25CrMo4	P255NH	
SA 266 F22	31CrMoV9	P355GH	
SA 516 Grade 65	30CrNiMo8	P355QH1	
SA 516 Grade 70	34CrNiMo6	P420NH	
SA 675 Grade 65	42CrMo4	P420QH	
SA 765 Grade II.	50CrMo4	P460QH	
SA 765 Grade IV.	51CrV4	S355J2G3	
SA 516 Grade 70	C45	S235JR	
SA 516 Grade 65	C22	S235JO	
SA 516 Grade 60	C22.8	S355JO	
SA 576 Grade 1045	C35	S420	
SA 694 Grade F60	C60	S460	
SA 694 Grade F65	P235GH		
SA 668	P245GH		

- **SUMMERIZE:**
- **CARBON STEELS**
- **HEAT TREATABLE STEELS**
- **LOW ALLOY STEELS**
- **CASE HARDENING STEELS**



COMMON STANDARDS

- EN 10222
- EN ISO 683
- EN 10250
- ISO 6336-5
- 02-SAMS-011
- API 6A
- ASME BPVC Section II, VIII
- API 20B
- BS 970
- DEF STAN 02-381
- DNV RP 0034
- NACE MR0175 ISO 15156
- VGS
- TLV SIEMENS
- AD 2000 W9-10-13
- TFMC specifications
- NDT STANDARDS: EN 10228-1,-3, ASTM A388, ASME Section V



SERVICES

FORGING



TESTING



HÁMOR ZRT.

HEAT TREATING



MACHINING



HÁMOR ZRT.

PRODUCTS

RINGS



BAR



DISCS



BUSHES / SLEEVES



SHAFTS



Our capabilities



Forged rings / disc

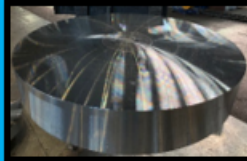
Rings: OD max. (outer diameter): 2500mm

Max. Weight: 12 tons



Disc: OD max.: 2200mm

Max. Weight: 5,5 tons



Blocks

Max. Length: 5500 mm

Max. Weight: 5 tons

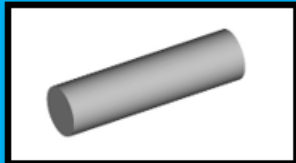


Round Bars

Max. Diameter: 650 mm

Max. Length: 6000 mm

Max. Weight: 10 tons



Shafts

Max. Diameter: 800 mm

Max. Length: 7000 mm

Max. Weight: 10 tons



Flange Shafts

Max. Diameter: 2000 mm

Max. Length: 7000 mm

Max. Weight: 8 tons



Bushes

OD max.: 1500 mm

Max. Length: 2500 mm

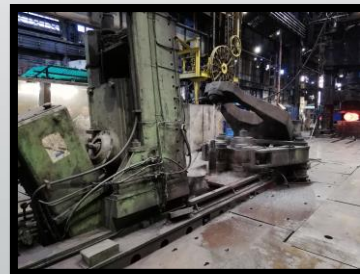
Max. Weight: 5500 kgs



FORGING

Equipments

Quantity	Machine	Capacity
1 pc.	Open – die Hydraulic Press	2500 tons
1 pc	Pneumatic Forging Hammer	3 tons
1 pc.	Ring Rolling Machine	2000 mm (max. OD)
4 pcs.	Forging Manipulator	Up to 12 tons
7 pcs.	Gas Fired Heating Furnace	Up to 40 tons



HEAT TREATING

Equipments

Quantity	Machine	Capacity
2 pcs.	Electrically Heated Bell Furnace	Max. 2500x1100 [mm]
11 pcs	Electrically Heated Bell Furnace	1400x2000 [mm]
1pc.	Gas Fired Box Car Furnace	Max. 20 tons
1pc.	Water Quenching Pool	Max. 5000x3000 [mm]
1pc.	Polimer Quenching Pool	Max. 5000x3000 [mm]



MACHINING

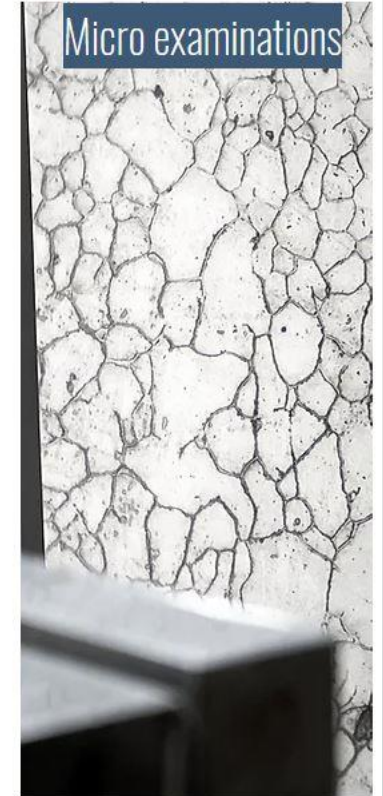
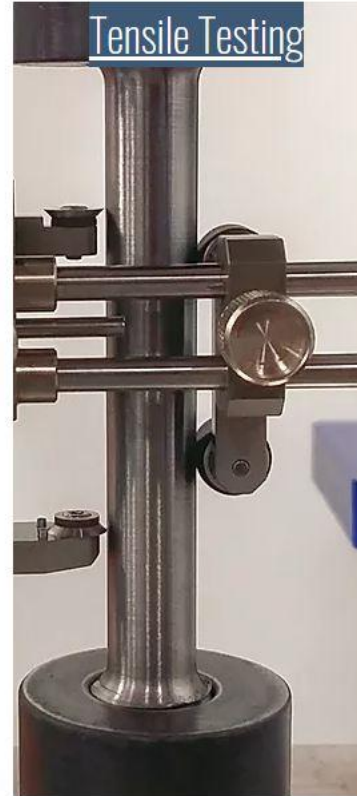
Equipments

Quantity	Machine	Capacity
10 pcs.	Vertical Carouse Lathe	Dmax:2500 [mm] Hmax:1300 [mm]
6 pcs.	Metal Lathe	Dmax: 600 [mm] Hmax:7000 [mm]
2 pcs.	Horizontal Boring Milling Machine	TOSWmax 100



MATERIAL TESTING

Services

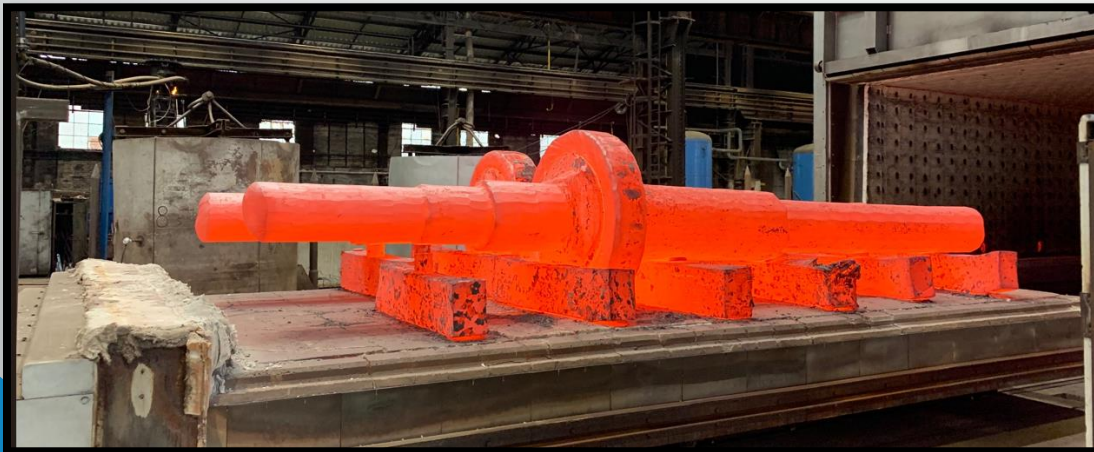


NDT TESTING (EN/ISO/ASTM)

- VISUAL INSPECTION
- ULTRASONIC INSPECTION
- MAGNETIC PARTICLE INSPECTION
- LIQUID PENETRANT TESTING



GALLERY



CONTACT



FORGING SHOP



OFFICE

Head Office
17 Kiss Ernő Road
Miskolc
H-3531
Website: www.hamorzrt.com
E-mail: hamor@hamorzrt.com

