



Various fixtures, fittings and valves

In addition to fittings, which represent our basic product group, we can also produce various fixtures, which are used to transfer different types of fluid. Because of good mechanical properties, products can be used for gas installations, in hidraulic industry and for other installations.



Made-to-order castings

White malleable cast iron can be used for manufacturing of various cast products, where mechanical properties must be consistent with standard EN 1562. Casted parts can be delivered row or machined, surface can be unprotected or protected - painted, galvanized or hot-dip galvanized.



Technical facts

We produce white heart malleable iron according to DIN EN 1562 with following quality grades:

Code DIN EN 1562	Material number	Nominal diameter mm	Tensile strength N/mm2 min.	Yield 0.2 % min.	Elongation at fracture % min.	Hardness HB max.
EN GJMW 360-12W	0.8038	9	320	170	15	200
		12	380	200	2	200
		15	400	210	8	200
EN GJMW 400-5	0.8040	9	360	200	8	220
		12	400	220	5	220
		15	420	230	4	220
EN GJMW 450-7	0.8045	9	400	230	10	220
		12	450	260	7	220
		15	480	280	4	220
EN GJMW 550-4	0.8055	9	490	310	5	250
		12	550	340	4	250
		15	570	350	3	250

The fundamental goals of LIVARNA TITAN are:

- Satisfied customers
- Development and positive growth
- Creative co-workers
- Healthy and safe environment

Our buyers confirm our quality. Through a market-oriented sales strategy we are able to adapt our products to the demands of our customers as well as nurture genuine and mutually satisfying business relationships.



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Malleable iron

- Machine construction
- Automotive industry
- Construction industry
- Agricultural machinery
- Various fixtures, fittings and valves,
- Made-to-order castings

Since 1920
Made in EU





About us

LIVARNA TITAN, d.o.o. continues tradition that was started by the TITAN manufacture many years ago. The beginnings of LIVARNA TITAN reach back to 1896 when small cottage plant started manufacturing door locks and hinges. Production of pipe fittings began in 1920's when foundry was built and company LIVARNA TITAN was officially founded. Foundry experienced rapid growth in the following years and made a substantial contribution to the progress of local society, especially in the years after the World War II. During that time trademark TITAN became synonym for reliable and high quality fittings and castings. In 2001 the foundry became a consolidated entity within the CIMOS group and started environmental and technological modernisation of its facilities as well as organisational restructuring. In 2014 CIMOS focused on its core business and LIVARNA TITAN became independent, privately owned company.

Today foundry LIVARNA TITAN delivers castings for wide range of industries and applications. Use of modern technologies, lean production processes and reach in-house know-how enable LIVARNA TITAN to satisfy the highest quality standards and achieve great flexibility in meeting customers' individual needs.

LIVARNA TITAN is specialized foundry for white heart annealed iron alloys, compliant with GTW 40, GTW 45, GTW 55 and GTW 38 W (featuring good welding properties) standards. However, forthcoming foundry expansion will also add nodular alloy castings to product range, which will additionally contribute to our mission of being complete and reliable supplier of high quality products as well as socially and ecologically responsible company to all our stakeholders.

Our quality is confirmed by our partners from Central and Western Europe where we make over 90% of total revenues. Continuous innovation and production expansion enables foundry LIVARNA TITAN to expand on new markets and strengthen its presence on traditional ones. Through flexible and market-oriented sales strategy we are able to adjust our products to customers demands as well as nurture genuine and mutually satisfying business relationships with our partners.

Malleable iron

LIVARNA TITAN d.o.o. is specialized producer of high-quality white heart malleable iron castings with wide range of mechanical properties, using the latest casting processes in a modern, automated foundry line. Raw material is melted in a medium frequency melting furnace. Chemical composition of molten is constantly monitored by emission spectrometers. Products, with or without cores, are casted on a vertical, automated DISAMATIC line.

The foundry is capable to produce parts ranging from 0,1 kg to 10 kg. All castings are cleaned with steel granulate in an automatic blasting machine. Heat treatment takes place in a furnace with automatic control of the process and atmosphere. With the heat treatment process we can achieve the change of cementite into ferrite and graphite. With this kind of heat treatment – tempering of the brittle cast iron, toughened white malleable cast material is produced. We can produce products with various shapes, from simple to complex, which have good mechanical properties, especially when forging or plastic transformation is too expensive and steel casting too complicated. The important advantage of white malleable cast iron is also its good weldability. Because of its good viscosity malleable iron is appropriate for products with difficult, thin-walled forms that require high surface quality. Relatively high strength and toughness of white malleable cast iron allows products to be used in applications with high dynamic and impact stresses. Good weldability of material EN-GJMW-360-12W (GTW-S38) opens up a wide range of possible uses in sophisticated welded constructions. White malleable cast iron has excellent handling properties and is corrosion and wear resistant.

Modern technology allows us to develop and produce casting tools in a short time. Castings are machined on a wide range of modern CNC machines and robots. Casting tools can be designed on a basis of a sample or a technical drawing. If it is necessary, we can protect products against corrosion with an anti-corrosion coating – painting, galvanizing or hot-dip galvanizing.



Machine construction

The foundry Livarna Titan d.o.o. produces high-quality white malleable cast iron, available in different shapes. Mechanical properties of products are consistent with standard EN 1562 and allow using this material in different sectors of machine industry. Due to relatively high tensile strength and hardness, this material is particularly suitable for dynamic and impact stresses. White malleable cast iron is also suitable for use in various welded and steel constructions. Malleable cast iron parts can be delivered raw or machined, surface can be unprotected or protected - painted, galvanized or hot-dip galvanized.



Automotive industry

The foundry Livarna Titan d.o.o. produces high-quality white malleable cast iron, available in different shapes. Mechanical properties of products are consistent with standard EN 1562. The material is very suitable for welding, so it is often used in automotive industry – especially in production of various closures and hinges on the car door. Delivered cast iron parts can be machined or row, surface can be either protected or unprotected.



Agricultural machinery

White malleable cast iron products have good mechanical properties: relatively high hardness, toughness, wear resistance and good weldability. Because of these properties, they are suitable for different parts in agricultural machinery. Products can be delivered raw or machined, surface can be unprotected or protected - painted, galvanized or hot-dip galvanized.



Construction industry

White malleable cast iron has good mechanical properties consistent with standard EN 1562 and because of good weldability it is also suitable for use in construction industry, especially in formwork and scaffolding. Products can be delivered raw or machined, surface can be unprotected or protected - painted, galvanized or hot-dip galvanized.

