

## Products and services

Established in July 2005, EUROMAG SA is currently **the largest and most modern magnesium die casting foundry in Poland**, applying hot chamber die casting technology. It is a magnesium component **supplier for automotive, machine and electric tool industries as well as for construction and interior design applications.**

**Significantly less expensive, very durable and resistant, magnesium products are an excellent replacement for traditional and heavier materials: steel, zinc and aluminum or less durable plastics.** It allows for a **significant reduction of weight and cost of components.** What is more important, magnesium is irreplaceable in the manufacture of complex and thin – housed items.

Magnesium castings are mainly used by automotive and electronic industry companies, and prospectively for aviation. Magnesium components manufactured by EUROMAG SA are employed in the production of **cars and electric tools.** They also find applications in the manufacture of **furniture finishing elements, window woodwork and sports gear.** The number of applications for magnesium castings is growing day by day. Among the alloys used by EUROMAG SA there are:



- **AZ91** – on account of its **good castability, high strength and relatively high corrosion resistance** this is the most popular casting alloy. Used in power transmission systems, mechanical components and all types of casings in which durability is more important than deformation resistance.
- **AM60** – this alloy is commonly used in the automotive industry for the production of safety components. It is characterized by **superb crack resistance, the ability to absorb energy and conductivity, strength and ease of casting.**
- **AM50** – decreased aluminum content (compared to AM60) makes this alloy more flexible at the cost of a certain reduction in strength.

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EUROMAG SA provides services not only in die casting but also in **mechanical and surface treatment, painting and vacuum metal plating** of cast components. Gradually the range of services will be extended by **assembly**.

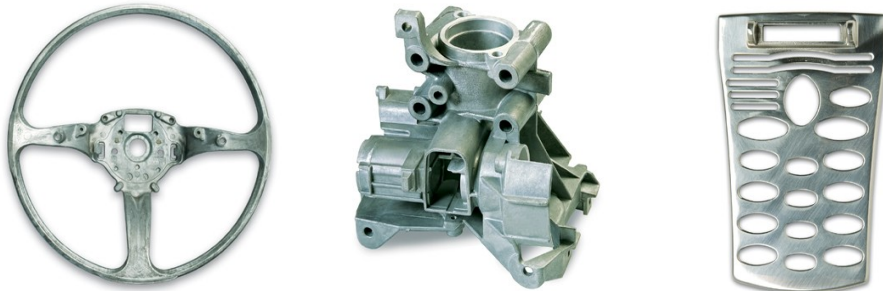
**Just-in-Time logistic solutions and deliveries** comply with European automotive standards.

**Quality management system** at Euromag is certified for compliance with **ISO 9001:2000** and will be certified according to the requirements of **ISO TS 16949** at the beginning of 2008.

### **Market development perspectives**

The global rise of magnesium applications is about 15-20 % annually. It is estimated that at a fifteen-percent annual increase, the demand for magnesium will reach 570 thousand tons by 2009.

**The automotive industry is a strategic market for EUROMAG SA.** Increasingly higher prices of petrol encourage car manufacturers to reduce their weight and fuel consumption. By 2020 increasing the weight of magnesium parts in commercially manufactured cars to more than 60kg is planned. This would result in a **ten-fold increase in the total demand for magnesium**.



### **Magnesium castings are increasingly widely used in:**

- the armament industry (elements of armaments and equipment),
- aeronautics (components of seats and cockpits),
- textile industry (components of weaving looms),
- manufacture of optical and audio/visual equipment (binoculars, loudspeaker frames, camcorder housings, cameras),
- manufacture of medical equipment,
- manufacture of sports gear (bicycle frames and accessories, rollerskate components , tennis rackets).

A growth of magnesium applications should be expected to extend to further areas of the economy every year.

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