Foundry Machinery
Advanced technology at its best
Melting, shaping and casting

The targets of modern iron, steel and non-ferrous metal production and processing are connected with lightweight design, efficiency, flexibility and the conservation of resources. These objectives set the standards by which the casting industry is measured in competition with other production processes or non-cast materials. Casting solutions can only be successful if they offer the user clear advantages.

Advanced casting processes are characterised by:

- the integration of computer-based technology (development using CAD/CAM, FEM load case calculation, casting process simulation, rapid prototyping)
- seamless process automation
- innovative die-casting methods
- material development in line with requirements
- compliance with environmental requirements regarding emissions, recycling and waste management

The range of machinery and equipment supplied includes:

- melting and soaking furnaces
- casting machines
- gravity die-casting machines
- die-casting machines
- sand treatment and regeneration systems
- mould production machines and systems
- core production machines and systems
- machines for emptying and cleaning moulds and treating raw castings
- blast cleaning systems
- environmental protection systems
Efficiency and sustainability

Throughout the world, efforts are being stepped up to conserve resources and reduce pollutant emissions. Energy consumption is becoming a decisive factor in competition within manufacturing industry.

The casting machinery suppliers within VDMA provide their customers with support for the optimisation of process stages with a view to accessing unrealised potential for efficiency improvement and resource conservation.

The casting machinery suppliers within VDMA have the know-how required for

- energy-efficient thermal process control
- low-emission mould and core production systems
- closed material cycles
- optimum automation and precise process control
- strength and casting simulation
- energy-efficient components
- advanced waste gas and spent air systems
- the reduction of metal loss in melting operation
- material and process development
Global competence for casting innovations

The companies which are members of VDMA’s Foundry Machinery specialist association stand for modern, high-efficiency, environmentally compatible casting solutions. They not only supply tailor-made machines and plants but are also competent advisors offering holistic solutions to their customers – including system partnership and full service over the entire plant life cycle.

The foundry machinery manufacturers among the VDMA members are highly respected partners of the casting industry and its customers throughout the world, especially in the following sectors:

- automobile and automobile components
- power systems
- building systems
- communication systems
- plant and machinery
- medical technology
- traffic systems
- tool industry

In addition to their export activities, manufacturers of foundry machinery provide expertise locally through subsidiaries in many countries.
VDMA is the largest engineering industry association in Europe. The VDMA specialist Foundry Machinery association includes among its members the leading plant and component manufacturers in the sector, employing more than 5,000 people in the German-speaking countries.

Strong networks offer services to members as well as representing their interests. They also serve as an information and communication platform. This includes commitment to national and international standardisation work as well as support for technical working parties, the provision of sector-specific market information, the organisation of symposia and support for companies attending key industrial trade fairs.

CEMAFON, the European Foundry Equipment Suppliers Association, represents members’ interests under the leadership of the specialist association.

Genuine machines represent quality, innovation, efficiency, experience and safety. VDMA’s “Pro Original” campaign supports the use of genuine machinery and the organisational, technical and legal efforts of members to protect their intellectual property.
VDMA
Foundry Machinery
Lyoner Strasse 18
60528 Frankfurt am Main
Germany
E-Mail  foundry@vdma.org
Internet  www.vdma.org/foundry

CEMAFON
The European Foundry Equipment Suppliers Association
E-Mail  cemafon@vdma.org
Internet  www.cemafon.org

Contact
Winfried Resch
Phone  +49 69 6603-1419
Fax  +49 69 6603-2419

www.vdma.org/foundry