M.E.G.A. is certified according to

- ISO 9001:2008
- ASME NCA-3800
- AD 2000-Merkblatt W0 / TRD 100
- KTA 3201.1 Section 2.4
- Pressure equipment directive 97/23/EC (PED)

"Because we believe in quality"

Machining: a family business since 1962

In 1962 Mario Angeretti, following his passion for mechanical engineering, together with his friends Emanuele, Gianni and Alfredo, founded M.E.G.A. (the initials of their names): a company which machined steel fittings for the main oil and gas Italian companies.

Actually Mario Angeretti is the sole owner of the company and, together with his sons Massimo and Mauro, took M.E.G.A. to a worldwide leading position in manufacturing forged fittings in ferrous and non-ferrous material.

M.E.G.A. S.p.A. main manufacturing and administration headquarter is located in the industrial area of Scanzorosciate, which is about 60 km far from Milan and 12 km far from Orio al Serio (BG) airport.

It manufactures, through machining, a range of ferrous and nonferrous fittings including seamless elbows, tees, self-reinforcing outlets and nozzles, flanged and non-flanged branches, along with special products. The materials used include carbon and alloy steels, stainless steels, ferritic/austenitic stainless steel, and nickel, copper, molybdenum, aluminum and titanium alloys.

M.E.G.A. S.p.A. owns also a forging facility, located in the industrial area of Lallio, which is about 50 km far from Milan and 6 km far from Orio al Serio (BGY) airport.

The manufacturing process consists of die forging carbon and alloy steels, stainless steels, ferritic/austenitic steel, nickel, copper, aluminum and titanium alloys, with weight up to 16 kg.

M.E.G.A. S.p.A. own also a big storehouse for bars, billets and tubular products, where the raw material is stocked, cut, and sent to the other two locations for further processing. The storehouse is located in the industrial area of Albano Sant’Alessandro, which is about 5 km far from Scanzorosciate facility.

M.E.G.A. is certified according to Norsok M-650
Highest priority on promoting the health and safety of employees at work

M.E.G.A. is committed to providing a safe and healthy work place for its employees and for visitors to its premises. We are equally committed to preventing deterioration of the environment and minimizing the impact of our operations on the land, air and water. These commitments can only be met through the awareness and cooperation of all employees.

We are highly committed to upholding the highest safety standards in all our operations and facilities. We pursue a health, safety and environmental campaign that is maintained by dedicated safety professionals and a strong environmental management system. HSE excellence is one of the foundations of our relationship with our clients, suppliers, and subcontractors.

The protection of our employees’ health and safety as well as the environment in which we operate is a fundamental corporate responsibility, and a value governing all our activities. We focus on managing health, safety and environmental issues in a proactive, effective and coordinated manner.

Attention to safety issues and the work environment has become an intrinsic element in company’s behavior. Occupational health aims at: the promotion and maintenance of the highest degree of physical, mental and social well-being of workers in all occupations; the prevention amongst workers of departures from health caused by their working conditions; the protection of workers in their employment from risks resulting from factors adverse to health; the placing and maintenance of the worker in an occupational environment adapted to his physiological and psychological capabilities; the adaptation of work to man and of each man to his job. To know what are the hazards in the working area health and safety is very essential for everyone.

One of the basic characteristics of our EMS, which conforms to the ISO 14001:2004 standard, is the constant development of environmental protection. The development of environmental protection is ensured by setting environmental goals and carrying out the given programs in order to achieve them. The group of environmental aims changes dynamically according to the demands. We need to assess our goals and the programs responsible for accomplishing them within the framework of a managerial review. The conformity to our environmental policy and aims ensures the conscious development of our environmental activity and supports the attainment of our future goals.

M.E.G.A. S.p.A. also supports the principles of the United Nations Universal Declaration of Human Rights and is committed to upholding these principles in its policies, procedures and practices. Respect for human rights is and will remain integral to M.E.G.A. S.p.A. operations. We will endeavor to work with business partners who conduct their business in a way that is compatible with our policies of respect for human rights and ethical conduct. We will work with customers to ensure that contractual requirements do not infringe human rights.

Maintain high health, safety, environmental and ethical standards is our practice

HSE is the first of our targets

Nothing is so urgent that cannot be done in a safely and environmentally responsible manner
Examinations and test

M.E.G.A. reckons that Quality Control Inspectors are efficient professionals who ensure the completion, adequateness, and quality of work, products, materials and procedures by conducting a methodological audit and inspection of the materials, and observing how the work is performed.

Our Quality Control Inspectors ensure that manufactured products meet all company and customer specifications. They also check and test materials delivered by suppliers. The staff works very closely with production personnel carrying out scheduled and random checks on product quality during the production process, and also final tests prior to products being dispatched to the customer.

Quality Control Inspectors are able to identify where in the production process problems or faults could have arisen, and to stop the manufacturing process until a solution is found.

They are also involved with hold/witness inspections as specified by the customer, concerning mechanical tests, visual and dimensional examination, or any other quality control activity.

We are committed to the continuous improvement of our quality performances, and ask our suppliers to do the same. The supplier are monitored and evaluated by their capability to deliver high quality material.

Quality staff attends workshops and courses in order to keep up-to-date on technologies and reference standards.

NON DESTRUCTIVE EXAMINATIONS

Non Destructive Examinations (Magnetic Particle, Liquid Penetrant and Ultrasonic) are performed in-house by staff certified according to Level II and Level III of EN473 and SNT-TC-1A.

MICROGRAPHIC EXAMINATIONS

Our laboratory can perform micrographic examination according to ASTM E112 (grain size evaluation) and E562 (ferrite content evaluation).

POSITIVE MATERIAL IDENTIFICATION

PMI examination may be carried out using either X-Ray Fluorescence (XRF) Analyzer or Optical Emission Spectroscopy (OES) equipment.

State-of-the-art testing machines

The tests that can be performed in-house are:

- Tensile test
- Hardness test
- Impact test
- Spectrographic analysis
- Micrographic analysis
- Simulation of post welding heat treatment (PWHT)
From the design to the workshop: and effective CAD/CAM system

Products are designed both by using CAD-3D software with finite elements analysis and software developed within the company in accordance with standards ASME B31.1, ASME B31.3, ASME B31.4, ASME B31.8.

Design is performed for the following products:

- Self-reinforcing branch fittings: Megalet, Latromegalet, Socket-weld Megalet, Threaded Megalet, Insert-Megalet, Elbow-Megalet
- Wyes, Tees, Lateral Tee, Piggable Wyes, Piggable Lateral Tee
- Swivel and anchor flanges

Design is made according to the following standards:

- ASME B.31.1
- ASME B.31.3
- ASME B.31.4
- ASME .31.8
- ASME Boiler and Pressure Vessel Code Section I
- ASME Boiler and Pressure Vessel Code Section III Subsection NB
- ASME Boiler and Pressure Vessel Code Section VIII division 1 and division 2
- RCC-M
- Pressure Equipment Directive 97/23/EC (PED)
- and other
We are able to supply fully machined pieces of the strangest and most complicated shape, but if required, we can perform also welding of components and cladding with Corrosion Resistant Alloys like ASTM B564 UNS N06625 and others.

Welding processes adopted by M.E.G.A. are shielded metal arc welding (SMAW), Gas metal arc welding (GMAW), flux-cored arc welding (FCAW), Gas tungsten arc welding (GTAW), Submerged arc welding (SAW), and Electroslag welding (ESW).

We are fully aware that so many distinct factors influence the strength of welds and the base material, including the welding method, the amount and concentration of energy input, the weldability of the base material, filler material, and flux material, and the design of the joint. To test the quality of a weld, we perform destructive and nondestructive testing methods to verify that welds are free of defects, have acceptable levels of residual stresses and distortion, and have acceptable heat-affected zone (HAZ) properties.

We can perform non-destructive examinations on welds and on overlays, such as visual examination (VT), liquid penetrant (PT), ultrasonic (UT), magnetic particle (MT), and radiographic (RT).

SAFETY IN WELDING

It is crucial that pressurized gases and arc welding equipment are handled in a safe and secure way, and safety related issues are always a top priority for us.

The consequences of not adhering to correct safety procedures can be both hazardous for the staff and damaging to the product.

Therefore, health and safety issues are an essential and an important part of the welding process we offer.

The welding department

M.E.G.A. is in partnership with an Italian welding company (Honio Italia) for welding and cladding. We are also able to perform painting of the components and hydrostatic tests up to 1000 bar.

The subcontracted process is made official by our ISO 9001 scope of work, which includes welding as an outsourced process.
THE MACHINING DEPARTMENT

M.E.G.A. machining equipment consists of 60 machines among CNC lathes, milling machines, coring machines, sawing machines and boring machines.

We are able to machine from the smallest fittings used in a pipeline (1/8 in. diameter) up to pipes 11 m long and 3.5 m diameter, with maximum weight 30,000 kg.

For a complete catalog, please visit our website, or contact our sales department.
STRONG RELATIONSHIP WITH OUR CUSTOMERS

Throughout all its years of work, M.E.G.A. built and still maintains a strong business reputation, thanks to successful development, implementation, use and support of customer relationship management systems.

The key-points for our staff are

- Be helpful, courteous and knowledgeable
- Don't make promises unless you will keep them
- Listen to the Customer requests
- Deal with complaints
**Major projects we are involved in**

Åsgard Subsea Compression

Ekofisk upgrade – Eldfisk II

Gasoduto Sul Norte Capixaba (GSNC) Trecho Raso

Šoštanj Thermal Power Plant – Unit 6

Walker Ridge Natural Gas Gathering Pipeline

Flamanville Nuclear Power Station

Eddystone Nuclear Power Station