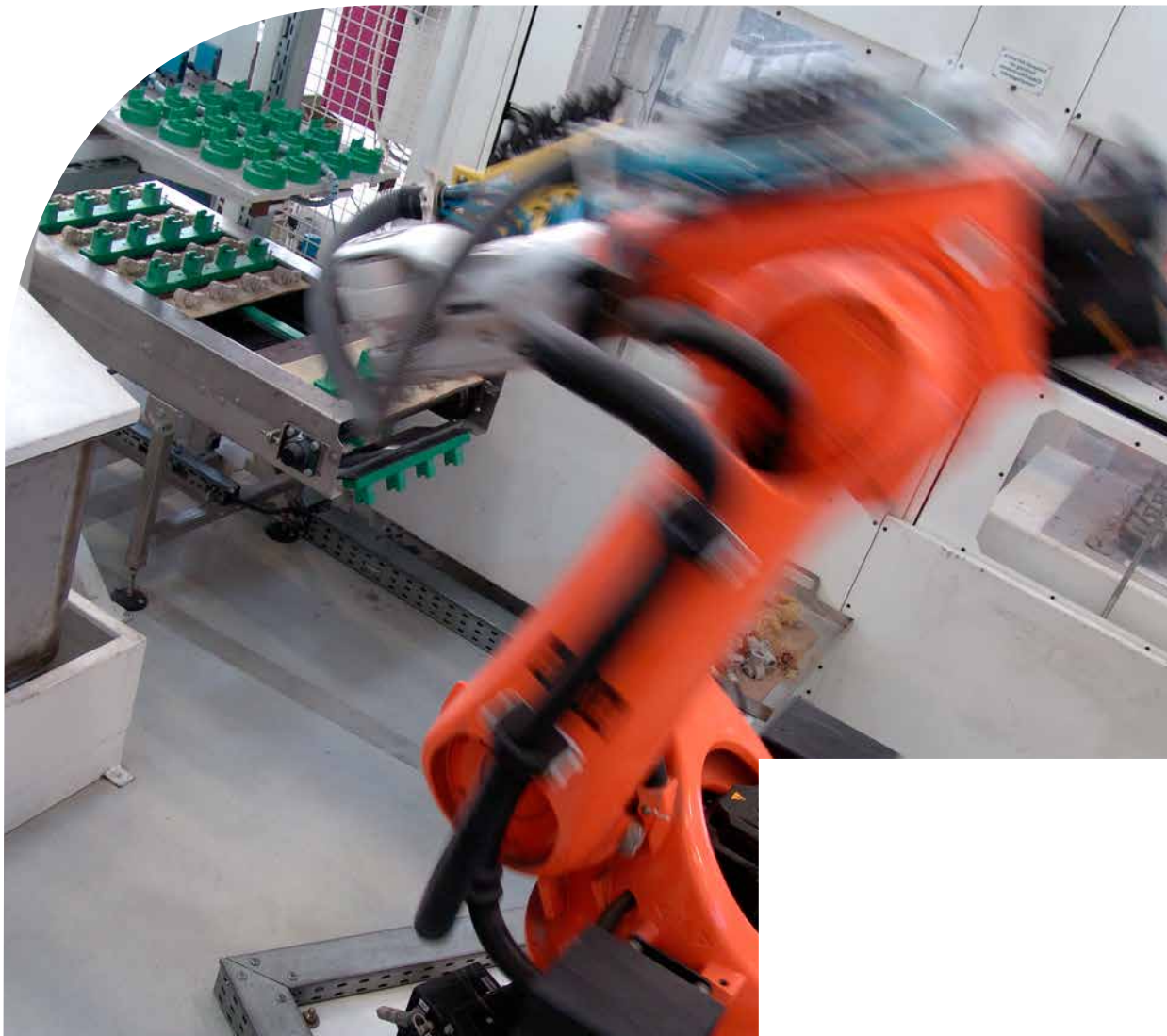




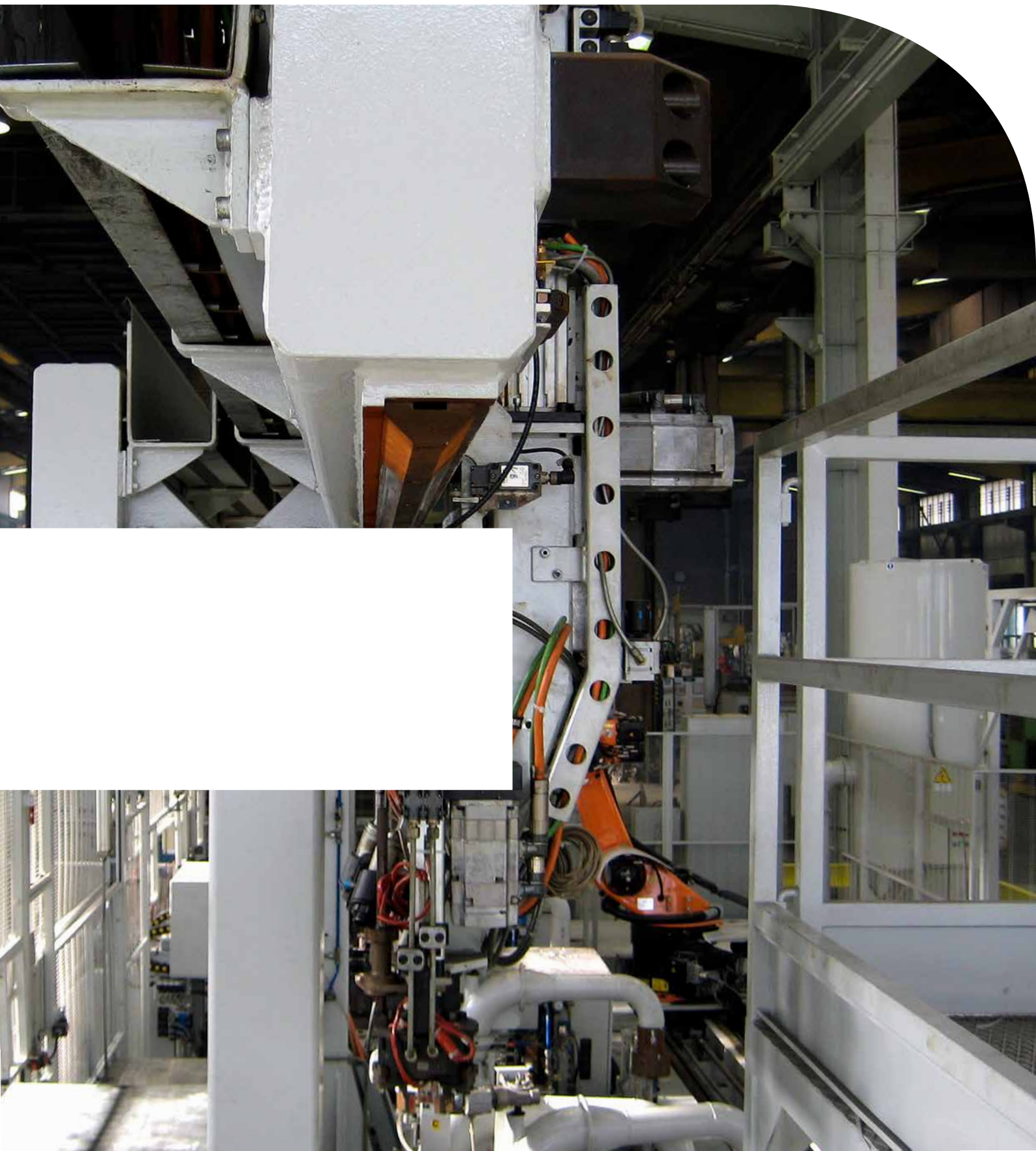
# analysis consulting planning

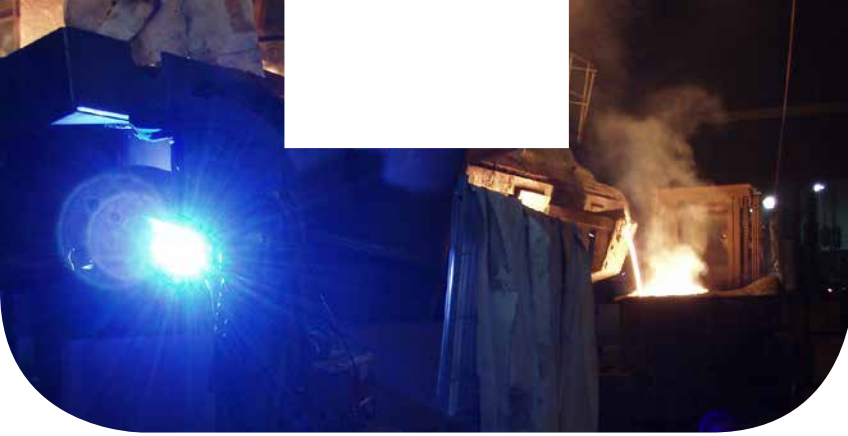
**MAC GmbH | Consulting and Engineering** looks at things from a fresh angle, and, with our international experience and skill in the foundry and machine-building sector, we can help you embark on a new path. We offer you support in analysis, consulting and planning as well as in practical implementation. Our approach to assignments is goal-oriented, and we stand by each project until its successful completion.



Our approach arises out of an analysis of the current situation and a plan for the future. Creativity, experience and professional expertise in combination with firm project management guarantees an optimal planning and implementation. We are quick to think our way into a task, and we know where to attack a problem so as to get a maximum output from our effort.

Our know-how is the product of direct experience in consulting and planning on manufacturing and executive positions. Interim and project management are our daily bread.





MAC GmbH is at home in foundry processes and delivers regularly innovative **planning and engineering solutions**. Even in mature processes we are able to reach more efficient results together with our customers. Here a few keywords:

## intervention realization support

**Aluminium and magnesium:** Sand casting with inorganic binders | permanent mould with inorganic cores | magnesium high pressure die casting for automotive structural parts | V-process with foil | continuous casting vertical, horizontal and EMC

**Iron casting (GJL, GJS, GJV, ADI and steel):** Casting processes for large castings with weight up to 120 t and higher | cooling time reduction for large castings | design of residual stress in castings | V-process with foil | thin walled steel casting | permanent moulds for rotation-symmetric castings

**Copper and bronze:** V-process with foil | permanent mould casting and sand casting for all copper and bronze alloys | tilt pouring of aluminium multicomponent bronze | composite casting process

**Planning of complete foundries and process lines:**

Greensand production lines for machine building and automotive castings | permanent mould large castings for marine applications | foundries for wind castings

We combine our planning and process knowledge with our **consulting know-how** and reveal the potential buried in your foundry and your projects. You can put trust on us. MAC is willing together with you to put every solution proposed into operation and to realize the economic potential. This are the goals by which we want to be measured.

Our Consulting spectrum includes:

- ▶ Potential audits on shop-floor level or on the basis of industry benchmarks
- ▶ Benchmark studies
- ▶ Technical Due Diligence
- ▶ Process improvements and their valuation
- ▶ Partner-, target- and site evaluation
- ▶ Technology audits
- ▶ Enterprise appraisalment
- ▶ Interim-Management





## review optimization finishing

MAC GmbH | Consulting and Engineering was established in 2003 in Winterthur and has gained an important role in the foundry and machine-building sector. Since early 2009 MAC is present in Germany and since 2011 also in China.

The MAC team comprises committed and experienced professionals operating worldwide. Their tremendous know-how is a function of more than 200 years spent in a wide variety of consulting, planning and production companies serving the machine-building and foundry sector.

Added to this is an international network of partner companies (see [www.maceng.ch](http://www.maceng.ch)) and freelancers from the engineering and consulting world, whose cooperation guarantees access to specialized expertise and great flexibility in capacity planning.

This network means that we have an excellent grasp of the market of equipment and machinery as well as raw and operating materials. We are committed to remain independent from other market participants in the interest of our clients, and thus are able to identify and implement the best solution to every problem. Our solid relationship with suppliers enables us to apply unconventional methods quite often.



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