



Thailand Edition

Issue No.: 9 October 2015

MAGMA Thai Newsletter

Do you want to publish an article or success story?

info@m5engineering.co.th

What's new?



MAGMA/M5 Engineering Ltd. Relocated to new Office

Dear all...

Please note that we changed our office locations to the new address below:

567/46 Pradya Biz Home Onnut 67

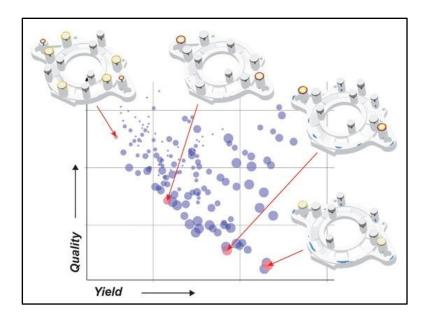
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Tel: +662116 6262 / +66884911841
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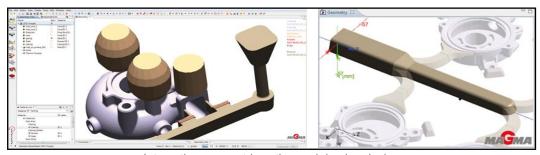
MAGMA 5 - fully optimize



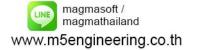
MAGMA ⁵ is the comprehensive and effective simulation tool for improving metal casting quality, optimizing process conditions and substantially reducing costs in production. The software enables the establishment of robust process conditions and optimized casting layouts for all cast materials and processes. MAGMA ⁵ is designed to predict total metal casting quality by simulating mold filling, solidification and cooling. Residual stresses and distortion, as well as microstructure formation and property distributions can be assessed in all casting manufacturing processes. Simulations can be used in a virtual test plan to pursue different quality and cost objectives simultaneously.



With its modular design, MAGMA ⁵ contributes to cost reduction along the complete process chain of a cast component: from conceptual to final component design, tooling layout and prototyping, all the way through to process optimization, reliable production and quality management.



Interactive parametric gating and risering design



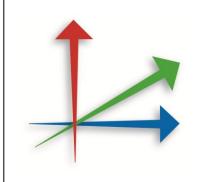
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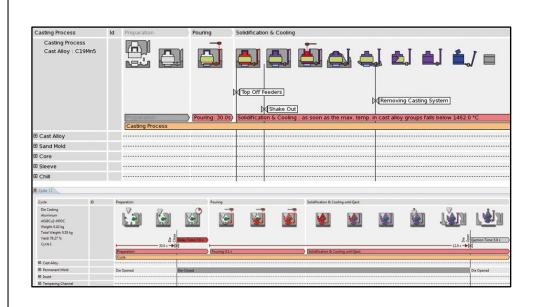
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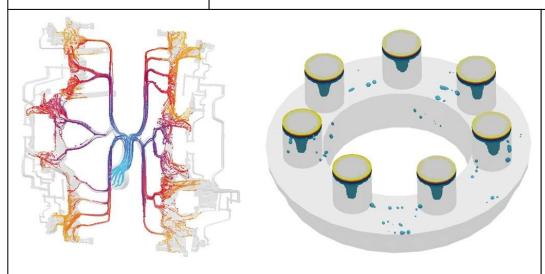


Practice oriented approach to production engineering

MAGMA ⁵ is designed to support all aspects of casting manufacture, from casting design, melting and metallurgy, pattern and mold making, and casting itself through to heat treatment, fettling and repair.







MAGMA ⁵ can be used for all cast materials, ranging from gray iron, sand and die cast aluminium, to large steel castings. MAGMA ⁵ is also applicable to all metal casting processes, for example allowing the die caster to design robust tooling layouts, minimize cycle times and predict reproducible casting quality, by using virtual experimentation during casting, tool and process layout.

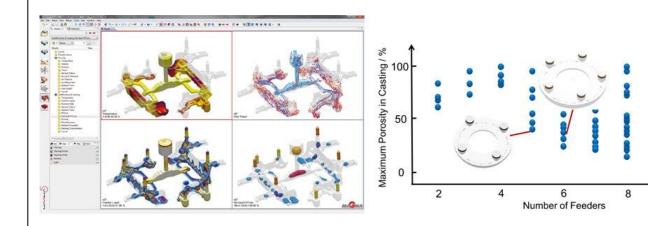






The cost benefits of using MAGMA ⁵ in the production or in design are:

- Avoiding metal casting defects that arise from misruns, turbulence, oxide and slag entrainment, gas porosity, and shrinkage
- Optimization of the filling process to provide a fast but smooth and controlled flow
- Time savings in the robust design and dimensioning of gating and risering
- Cost reduction from material usage through productivity, quality, and energy costs
- Reduction of cycle times and maintenance costs
- Establishment of robust process windows for a seamless and secure start of production
- Increased security by checking operating points and through proven process conditions
- Minimization of start-up costs through modifications to patterns or tooling
- Improved communication within your company and in cooperation with customers
- Increased customer confidence through a proactive demonstration of metal casting competence



Automatic result evaluation and quantitative assessment of robust processes and optimized solutions

MAGMA5.3- Metal casting! Understanding! Robustness! Profitability!





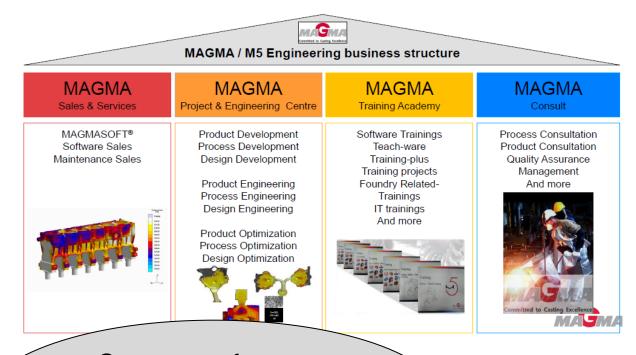
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October 2015

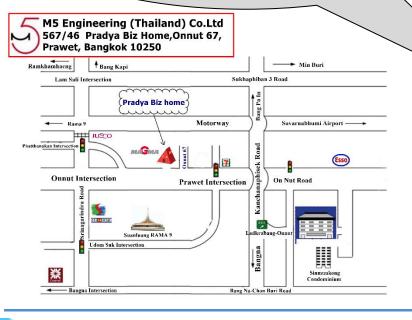


M5 Engineering provides the following services:



Contact us for more information: <u>0884911841</u>

www.m5engineering.co.th











Line ID: magmathailand & magmasoft



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