

EnginSoft is a premier consulting firm in the field of Simulation Based Engineering Science (SBES) with a global presence. It was founded in 1984, but its founder and initial employees had been working in SBES since the mid '70s. Throughout its long history it has been at the forefront of technological innovation and remains a catalyst for change in the way SBES and CAE technologies in general are applied to solve even the most complex industrial problems with a high degree of reliability.

Today, EnginSoft is comprised of groups of highly qualified engineers, with expertise in a variety of engineering simulation technologies including FEM Analysis and CFD, working in synergic companies across the globe. We are present in Italy, France, Germany, the UK, Turkey and the U.S.A. and have a close partnership with synergistic companies located in Greece, Spain, Israel, Portugal, Brazil, Japan and the U.S.A.

EnginSoft works across a broad range of industries that include the automotive, aerospace, defense, energy, civil engineering, consumer goods and biomechanics industries to help them get the most out of existing engineering simulation technologies.



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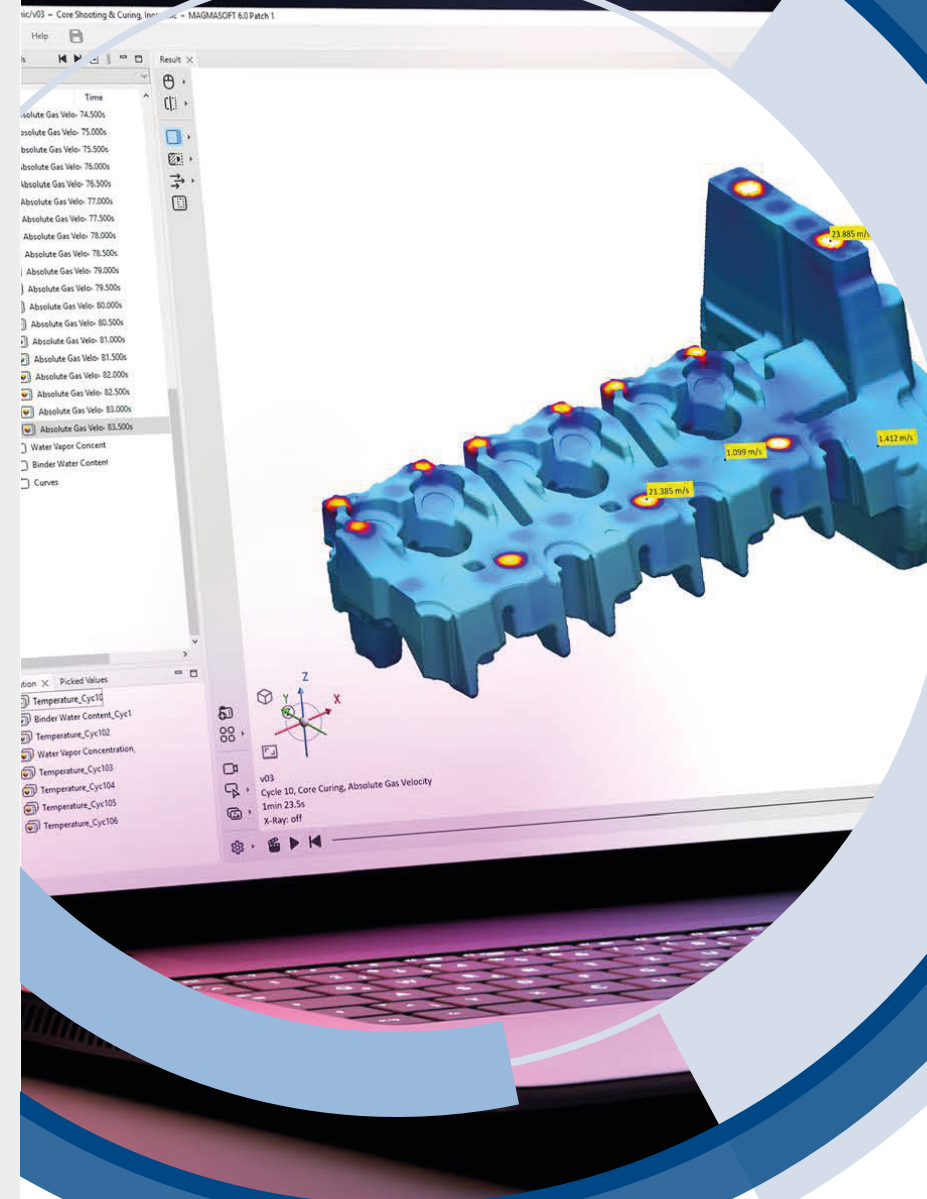
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ENGINSOFT

DATA SHEET



MAGMASOFT®
autonomous engineering

MAGMA C+M 6.0:
Autonomous Engineering

Robust, Economical, Fast, Optimized

Optimize all aspects of coremaking and find the best solution for your requirements - with MAGMASOFT® autonomous engineering and MAGMA C+M.

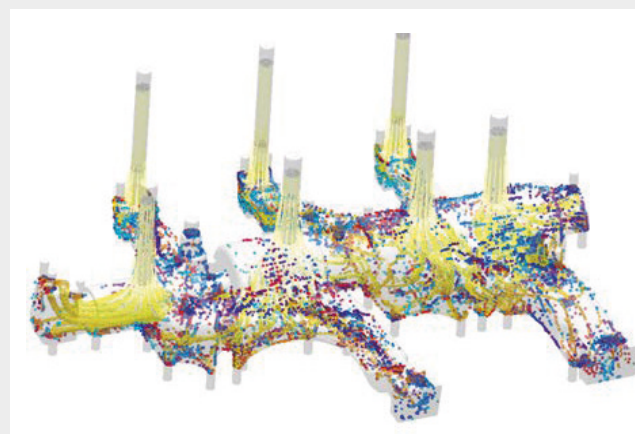
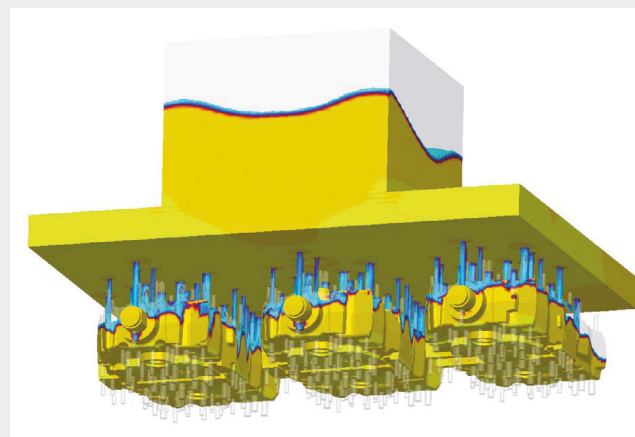
MAGMASOFT® and the dedicated turn-key solution MAGMA C+M are comprehensive and powerful simulation software tools for all aspects around designing and improving core quality, tooling design and robust process conditions while ensuring optimal profitability by saving resources, time and costs.

With both, MAGMASOFT® and MAGMA C+M, you use simulations in an automated virtual design of experiments or genetic optimization. The result is Autonomous Engineering – systematic and fully automated decision-making for corebox concepts and coremaking.

With Autonomous Engineering, you can simultaneously pursue different quality and cost objectives. From securing core quality and process robustness at the concept stage, through final corebox design and the continuous improvement of profitability in series production.

Shooting Parameters		Nozzle / Vent Settings		
Nozzle ID	Active	Database/File name	Pressure Loss 1 (-)	Pressure Loss 2 (-)
ID 5	☒	MAGMA/Nozzle_D12	0.5	0.5
ID 6	☒	MAGMA/Nozzle_D12	0.5	0.5
ID 7	☒	MAGMA/Nozzle_D12		
ID 8	☒	MAGMA/Nozzle_D12		
ID 9	☒	MAGMA/Nozzle_D12		
ID 10	☒	MAGMA/Nozzle_D12		
ID 11	☒	MAGMA/Nozzle_D12		
ID 12	☒	MAGMA/Nozzle_D12		
ID 13	☒	MAGMA/Nozzle_D12		
ID 14	☒	MAGMA/Nozzle_D12		
Vent ID	Active	Database/File name	Pressure Loss 1 (-)	Pressure Loss 2 (-)
O_D4	☒	MAGMA/Slot_D8	30.57	90.33
O_D3	☒	MAGMA/Slot_D8	30.57	90.33
O_D6	☒	MAGMA/Slot_D8	30.57	90.33
O_D8	☒	MAGMA/Slot_D8	30.57	90.33
U_D4	☒	MAGMA/Slot_D8	30.57	90.33
U_D6	☒	MAGMA/Slot_D8	30.57	90.33
O_D12	☒	MAGMA/Slot_D8	30.57	90.33

MAGMA C+M is a product



MAGMA C+M 6.0: Autonomous Engineering

MAGMASOFT® autonomous engineering and MAGMA C+M:

- ✓ Support you in the comprehensive prediction of all process steps in coremaking.
- ✓ Offer you a virtual test environment for the reduction of core defects.
- ✓ Enable you to make quick decisions and save time for all parties involved.
- ✓ Allow proactive quality management by understanding process fluctuations.
- ✓ Improve communication and cooperation within your organization and with customers.

Targeted and Systematic Success

The MAGMA APPROACH, which is fully integrated in MAGMASOFT® and MAGMA C+M, is a systematic methodology for achieving your objectives using virtual experiments. In combination with MAGMASOFT® autonomous engineering, secured measures can be identified and implemented to achieve continuous improvements, without economic risks.

