

RAMPF Tooling at GIFA 2011: High-performance casting and gelcoat systems without skull and crossbones labeling for the production of foundry patterns

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Grafenberg, 21.02.2011 – *Energy and resource efficient technologies for the various manufacturing processes in the foundry industry are increasingly sought after. This is a trend that this year's foundry exhibition, GIFA 2011, is also focusing on, as sustainable production processes from design to production are taking center stage. This will be an ideal platform for RAMPF Tooling, to introduce its nontoxic casting and gelcoat systems. At booth 12A23, hall 12 the company, based in Grafenberg, will be presenting innovative materials for the production of patterns and core boxes which allow for more than 50,000 parts to be formed.*

The world's leading trade fair for foundry technology is recognizing the current recovery trend in the industry. The products that the foundry industry produces are very important for many other industries like machine, automotive, wind, aerospace etc. A comment from the technical-scientific association of the German Foundry industry states: "No vehicle, be it on water, in the air, in space or on the ground, almost no technical equipment and no machine tools, no wind turbine and many other devices in our daily surroundings do not operate without a cast part". To be able to compete internationally the industry is looking for more sustainable solutions. Under this aspect, RAMPF Tooling could be the ideal partner. For several years, the specialist for modeling materials has been offering various polyurethane and epoxy products for the foundry industry, especially for foundry patterns and core boxes. The products are suited for the production of models, negatives, pattern plates as well as core boxes and can be used for prototypes up to large series production. Besides sustainability, the most important requirements for the products used in the foundry pattern production are a high abrasion resistance, a superior dimensional stability as well as good chemical resistance against release and binding agents. In addition the products should be easy to process and to repair. This is why RAMPF is offering plastic materials as their use has a number of advantages when compared to conventional materials. They are easier to process, reduce process time, are cheaper than metal tools and have a lighter weight.

Cutting-edge materials without skull and crossbones labeling

For GIFA 2011 RAMPF Tooling has expanded its product portfolio for the foundry industry. Just in time for the trade fair, the RAMPF Tooling experts are introducing new, nontoxic and easy to process polyurea casting and gelcoats systems which are well suited for the production of models, pattern plates and core boxes. “We are introducing our three new key concepts of innovation, sustainability and efficiency and will display practical examples of the use of our products. Already back in 2008, as one of the first suppliers for the modeling market, we replaced the old DDM containing, high abrasion resistant foundry systems with new polyurea systems without skull and crossbones labeling“, comments Peter Kimmerle, Sales Director at RAMPF Tooling. The casting system, RAKU-TOOL® PC-3451, is specially suited for face casting and is generally used for the large series production. The advantage for the user/model maker lies in the fact that the undersized core made out of metal or plastics (epoxy aluminum granules, polyurethane casting systems, boards, etc.), can be re-coated after abrasive wear of the surface. The RAKU-TOOL® PG-3104 gelcoat is used for the lay-up technique. With this process, through the application of just a thin layer of gelcoat, similar properties to face casting can be obtained. It is generally used for the production of large volume models and core boxes for large series production. The backing can be adjusted to suit the individual requirements of the molds. Both new systems have a high abrasion resistance and impact strength and do not exhibit a brittle phase. Furthermore, both components have no skulls and crossbones labeling.

The new systems are suited for the production of a large number of parts (of more than 50,000 parts), dependent on the respective forming process and part geometry.

GIFA an ideal platform to present working boards made from PET flakes

The modeling specialist will also present its comprehensive product range of board materials, epoxy casting and gelcoat systems, multipurpose systems, laminating pastes and fastcast systems. All systems are suited for the efficient production of models, negatives, pattern plates and core boxes using the various build-up processes and techniques. The very robust working boards made from PET flakes and recycling polyols will be a key highlight.

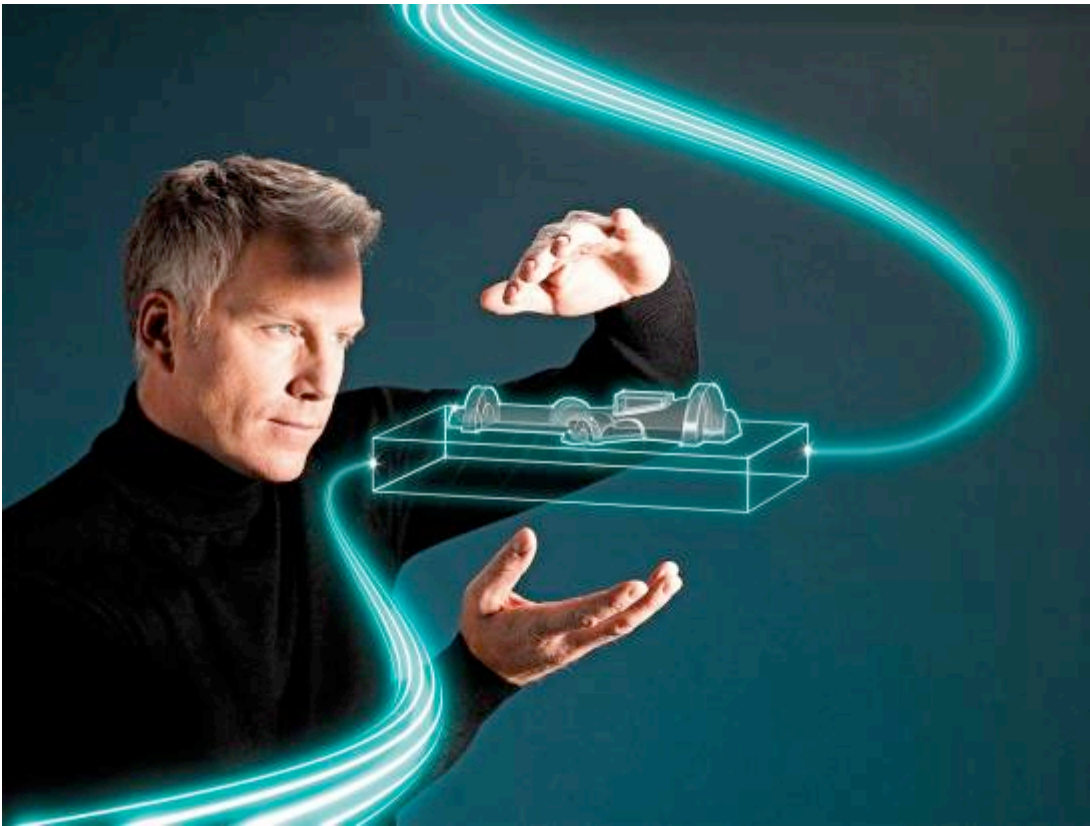


The RAMPF Tooling solution at a glance

process	mold making	core making
Challenge	<p>models, negatives, pattern plates and core boxes</p> <ul style="list-style-type: none">• Sustainable working processes• High abrasion resistance• Good dimensional stability and shape retention• Good chemical resistance against release, mold and core sand binding agents• Easy to process, to change and repair	
RAMPF Tooling solution	<ul style="list-style-type: none">• RAKU-TOOL products for various production processes: lay-up/shell construction, full/face casting, machining of patterns for various processes in sand forming and core production.• Prototyping, small, medium and large series production• PC-3451 and PG-3104: the new, easy to process systems for sustainable ways of working. Low hazard potential of processors.	



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Caption: RAMPF Tooling presents new eco-friendly materials for the production of foundry patterns at GIFA 2011.



Caption: Model made through face casting with RAKU-TOOL PC-3451/PH-3952, core production with PF-3701-1.



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Caption: The latest gelcoat PG-3104/PH-3954, back casting with RAKU-TOOL PC-3415/PH-3915.



Caption: Surface made with the all new gelcoat PG-3104.



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www.rampf-tooling.de

With the invention of the first polyurethane board, company founder Rudolf Rampf revolutionized the modeling market in 1981. Today RAMPF Tooling GmbH & Co. KG based in Grafenberg is offering a wide product range of model, mold, and tool making materials under the RAKU-TOOL brand. The products are successfully used in many industries like automotive, aerospace, marine, wind energy, ceramics, plastics and mechanical engineering. Since 2006, the company, which belongs to the RAMPF Group, operates independently in the market. The material specialist secures its worldwide operating presence through the American and Japanese subsidiaries of the RAMPF Group, as well as via numerous distributors throughout Europe.

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