

FOR THE FIRST TIME ROCTOOL PRESENTS THE CAGE SYSTEM® ADAPTED FOR PLASTIC INJECTION AT EUROMOLD

After developing the Cage System®, technology for fast composite molding by induction, RocTool presents this adapted process for plastic injection at EUROMOLD.

PUSHING THE PLASTIC INJECTION LIMITS



RocTool markets its molding process by induction «Cage System®» adapted for plastic injection. *The « Cage System® », which allows heating and cooling the mold within seconds, opens considerable prospects for the plastics industry : what was unthinkable in plastic injection is now a reality using this new process* » declares Alexandre Guichard, CEO of RocTool. Indeed, RocTool's innovative technology, which the R&D team have been working on since 2004, allows the production of **very thin parts**, (**“we have recently produced a 1mm thin prototype using a material that is normally difficult to reduce less than 2.5mm”** indicates Alexandre Guichard), **non visible welding lines**, a

reduction of pressure (in the first tests, our clients noted a drop in pressure of 30 to 50 %), **to inject materials that were uninjectable**, **to improve the parts rheology** (hot granules arrive on a hot surface, which facilitates the flow)...

PROVEN COMPETITIVE ADVANTAGES

An event “Innovative Molding Technologies Update” was held at PEP (Pôle Européen de Plasturgie) on the 28th October 2008. Three companies testified to the competitive advantages of the Cage System® adapted to plastic injection: **Plastivaloire, DuPont and Dow Automotive**. According to the studies carried out, the increase of mechanical resistances allows a saving of matter, therefore a reduction in produced parts.

The surface quality has an excellent finish therefore no painting is necessary, which is a considerable cost reduction for parts.

Industrialists seek solutions which optimize raw materials and performances. With a high demand for raw materials, continual price increases, ecological questions are crucial as are the weight of the parts. To have a technology that can reduce part thickness changes the basis of the plastics industry.



A special preview was held at PEP, where demonstrations were conducted on a modified engine cover, and a large, complex structured part with an overall impressive appearance. ©RocTool

Since October, industrialists (resin providers and suppliers) have had access to a trials platform at PEP (Oyonnax, France) which is equipped with RocTool staff at a substantially lower investment cost than would normally be necessary.

AN ALTERNATIVE FOR PARTS WHERE THE SURFACE QUALITY IS ESSENTIAL

« *With the parts we have produced, the welding lines have been eliminated and « **the quality of the surface is of no comparison** », indicates Alexandre Guichard. With regards to the “steam” technology, the only competitive technology, **the energy consumptions have been reduced by 60%. The temperature remains constant over the entire part** and the threshold of 130 °C (which steam cannot pass) is largely crossed: « **RocTool has produced parts by injection from 130 °C to 350 °C!** » announces Alexandre Guichard. The « Cage System® » adapted for injection becomes an alternative for the production of **automobile parts (panel work and interior), TV & computer accessories, telephones, and all other parts where surface quality is essential.***

ROCTOOL, RAPID COMPOSITE MOLDING BY INDUCTION SPECIALISTS

The « **Cage System®** », patented by RocTool in 2004, is the only process in the world capable of **heating and cooling the mold surface and only the mold surface, practically instantly**. The company has sold ten licenses of this technology since its creation. « **RocTool's arrival into the field of plastic injection is a very important step for the company**, which has been exclusively orientated towards the composites market until now. There are considerable stakes, since **the plastic injection market is about 20 times larger than that of composites** », indicates Alexandre Guichard.

RocTool welcomes you to their stand at **EUROMOLD C48 (Hall 9)**
3-6 December 2008, Frankfort (Germany)

More about RocTool

Since its creation in 2000, **RocTool** develops innovative processes for rapid material molding. Winner on two occasions of the JEC Composites Awards, the company has sold ten patented licenses of its induction heating technology, the **Cage System®**, predominantly for Composite applications of medium to large series. In 2007 **RocTool** realized sales figures of 1.03 M€, 90% of which is international. Branching into plastic injection, RocTool envisages a strong growth within this activity. Introduced onto the Stock Market at the beginning of 2008, on “Nyse Euronext Marché Libre” in Paris. **RocTool's** headquarters and R&D centre are situated at Savoie Technolac in Le Bourget du Lac (France) an office in Atlanta (USA) and another in Tokyo (JAPAN).

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