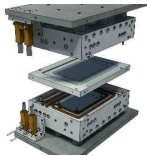


COMPUTER, COMMUNICATIONS & CONSUMER ELECTRONICS (3C MARKETS)

ROCTOOL PRESENTS 3iTECH®, THE TECHNOLOGY THAT MASSIVELY REDUCES PRODUCTION COSTS

3iTech® RAISES THE BARRIERS FOR CARBON FIBRE MOULDING

The 3iTech® technology is a process of heating the mould by electromagnetic induction. « *The basic principle of 3iTech®, is that the inductors are integrated inside the mold at manufacturing time in order to match the shape of the part.* » explains Alexandre Guichard, RocTool's CEO



The induction is generated from inside the mould and no electrical current circulates on the surface, this allows the conductive molding of materials such as carbon fibre.

This technology allows a homogenous heating at the tool surface, all whilst improving the heating time and energy needed». 3iTech® completes the RocTool range who already have Cage System® for plastic injection.

3iTech®, is a 3D network of « super heating cartridges» which are placed differently depending on the process required (RTM, thermo compression, plastic injection, vacuum formed and hollow part production), the temperatures to achieve (differs depending on the material to be used), heating time, holding time and the shape and complexity of the part to be produced.

To be able to heat a mould up to 400°C in several minutes or to 120°C in several seconds, makes the mass production of carbon composite parts in a cycle time which has never previously been reached. Further to that by removing the constraints of inertia state, RocTool managed to **create “smarter” heating tools,** to separate the heating of a fixed part to a moving one, or to locally heat the tool to a chosen temperature level.....

3iTech®: SMARTPHONE SHELL PRODUCED IN 2 MINUTES!

3iTech® allows more **flexibility using their moulds,** excellent **surface quality** and a **very short cycle time** compared to what is currently used for the “3C” markets.

« **These advantages will allow product designers to integrate, low cost, high-tech composites** », mentions Alexandre Guichard. With 3iTech®, the mould is hot for only one minute after being placed on the press! 3iTech® dramatically reduces the cycle time and therefore the production costs.

The surface quality of the part removed directly from the mould does not require any sanding or finishing of any sort *“Today the Smartphone carbon shell costs about 80€ in stores. This is an item that High Tech fans dream about. Mass production and massive cost reduction is now possible when using 3iTech®.*

By using our technology, the cost of a mobile phone shell dramatically drops to less than 5€. Therefore one could envisage a selling price of 20€”, adds Alexandre Guichard.

RocTool has invested in this process, the material and the know-how to be able to offer the market leaders in 3C alternative solutions to the existing ones: **RocTool will be presenting the Smartphone shell at the JEC Composites Show, produced in only 2 minutes using 3iTech®!**

The market leaders of « 3C », need to offer to the general public, products with perfect appearance and zero faults. RocTool's technology offers irreproachable surface quality, which is exactly what the market leaders in this field require. « *3iTech® offers the possibility to businesses in the 3C markets to integrate composite materials at an extremely low cost* », concludes Alexandre Guichard.

RocTool invites you to their stand M26 at JEC COMPOSITES SHOW 2010
13-14-15 April 2010 at Paris Porte de Versailles
An area is dedicated to 3C (Computer, Communication & Consumer Electronics),
displaying SMARTPHONE shells produced in 2 minutes
plus numerous other innovative 3C parts.

For more information: www.roctool.com

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 twenty patented licenses of its induction heating technology, the **Cage System®**, predominantly for Composite applications of medium to large series. The **Cage System®** began production in 2009 in Plastic Injection. **3iTech®** was launched in October 2009, destined to the transformation of composites and carbon fibre. **RocTool** was 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) and three sales offices, one in Atlanta (USA) one in Tokyo (JAPAN) and the other in Taiwan. RocTool also has a technical centre in India, trials and demonstration platforms in France, Germany, Japan and USA.*

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