

Amtec GmbH: CCMold Solution for customized tools

Without sticking out of the mold!

Wear, deposits or poor molded part removal characteristics – these are provocative conditions the manufacturers of the molded plastic industry don't like to hear at all. But there is a solution. Modern high-performance coatings on mold surfaces and moving elements can avoid these negative conditions. Amtec, a worldwide leading manufacturer of precision injection molding tools is relying on the expertise of the coating specialists at CemeCon. Through the "CCMold Solution", CemeCon is making available a complete package of coating solutions which is adapted individually to the specific molding conditions.

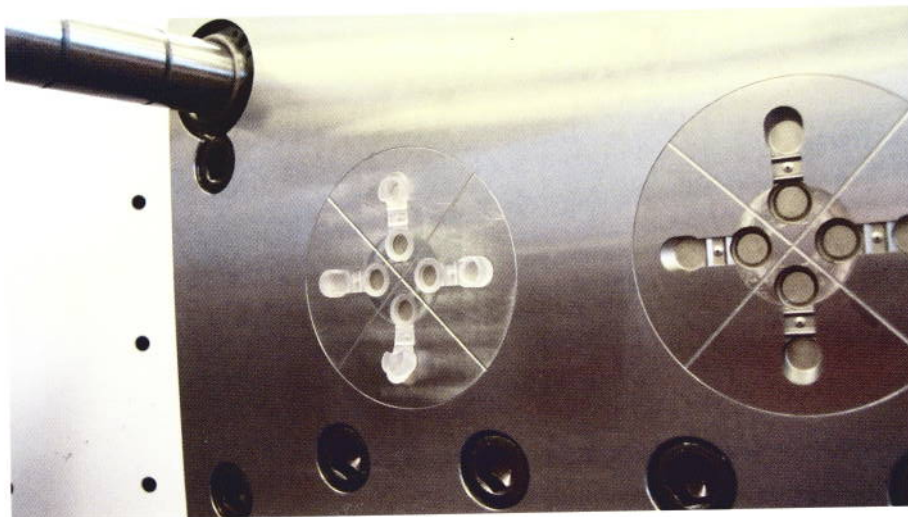
Increasing standards regarding product quality, combined with the new types of filled and reinforced plastics can create extreme processing conditions for precision injection molding tools. Molds, inserts, ejectors, and pins are all subjected to increasing wear, higher temperatures or more rapid formation of deposits. There is a tendency of plastic-adhesion in the world, respectively a worse ejection behaviour. Without lubricating and protective High Tech

Coatings an economical and reliable production of plastic parts would not be possible anymore.

Tool and coating expertise closely interweaved

The company Amtec GmbH from the town of Hohenwestedt, Germany delivers its precision injection molds worldwide to well-known companies of the plastics processing industry. Managing

Director Bernd Haefke: "When professionals work together, synergistic effects result, offering the end user distinctive advantages. Here coatings play a key role. We are demanding from our partners the same high quality as we demand from ourselves. It is only in this way that we can offer to our customers the best overall solution. And, when it comes to the topic of coatings, we have been cooperating for many years with CemeCon. Their comprehensive consulting expertise, technological leadership and also the rapid delivery of the coated tools are decisive criteria for us".



Modern high-performance coatings on molds and moving machinery parts avoid rapid wear, resist deposits and promote release properties.

Christen A. Straede, Managing Director of CemeCon Scandinavia: "Our CCMold Solution, a complete package of coating solutions for mold manufacturing, is the fast seller for mold and tool manufacturers in Scandinavia and Northern Germany. Our innovative low temperature technology for smooth, immaculate surfaces and a broad line of coatings as well as accompanying support, are unbeatable".



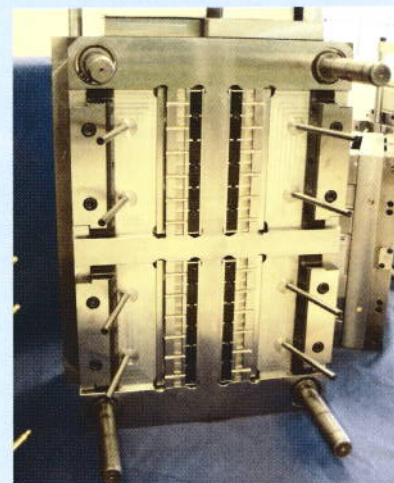
Managing Director Bernd Haefke has found the right CCMold Solution.

Bernd Haefke: "Amtec also offers turnkey solutions. These comprise of complete injection molding production lines. In the planning stage we always involve the coating specialists, to insure that we develop right from the start the optimum system configuration for our customers. One example is the 'Amtec 4' injection molding solution, which a

short while ago was shipped to Africa. In this case, the machines needed to be productive under more extreme ambient conditions and the coatings were required to provide optimum performance characteristics. For this reason, all moving parts including the ejectors, slides or guide pins were coated with the low friction coating CCMold DLC. The cavities were coated with CCMold CrN." ■

CCMold Solution

CCMold Solution is a complete solution package for molders and tool makers. Once the tool design has been completed, the right coating for the application is defined. We take into consideration the resin, fillers, outgassing characteristics, process temperatures and flow characteristics to select the ideal coatings. To address these application issues, the CemeCon portfolio includes the products CCMold CrN, CCMold DLC, CCMold TINALOX[®], CCMold CRO, and CCMold NCrN. In addition, for metal forming the products of CCForm TINALOX[®] SN², CCForm CrN and CCForm TICANOX[®] have been developed.



Through the innovation of the latest h.i.p. system, CC800[®]/9 MLT, for low-temperature coatings, high-technology for coating of molds is available. Coating temperatures of around 180° C and below help to protect even most heat-sensitive substrates, eliminating the possibility of changes in hardness or dimensional tolerance. The new h.i.p. technology achieves an entirely new quality level, enhancing surface and coating qualities that previously were not possible at such low temperatures: smooth, impeccable surfaces with increased reliability.



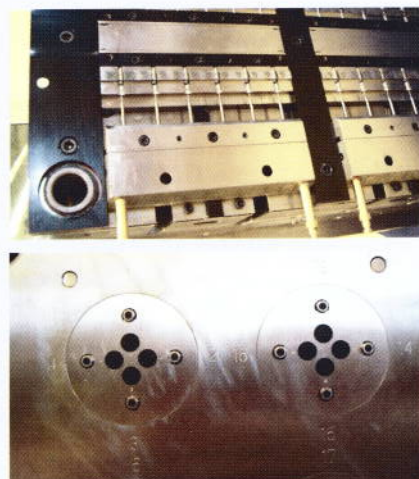
The company **Amtec GmbH**, Advanced Mold Technologies, is the German subsidiary of Wentworth Technologies Inc., one of the largest tool and mold manufacturers worldwide with production sites in

Canada, USA, Poland and in the German town of Hohenwestedt with a local workforce of 90. Amtec is among the worldwide leading tool makers of precision injection molding tools for the plastic processing industry.

With over 45 years of experience in the manufacture of precision tools, the company founded in 1956 supplies its products to worldwide renowned companies active in the area of medical technology, electronics, electrical engineering, automotive industry, the toy industry, telecommunication as well as the consumer goods industry – with a full-service program – from development to the finished product.

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