Dimac Tooling: Focus on productivity and the environment

It’s all about productivity and the environment on Dimac Tooling’s stand(584) at this year’s Austech exhibition in Melbourne from 24 to 27 May 2011.

Among the company’s exhibits will be several recent additions to thecompany’s already impressive line-up of CNC machine tool accessories. Here aresome of the new products, all designed to increase shops’ productivity andreduce the environmental impact of machining processes to a minimum:

Coolant maintenance

In order to deal with the huge amount of oil used and swarf producedduring machining processes, Dimac offers a range of coolant maintenanceproducts, which will be demonstrated on the company’s impressive stand over thefour days of the show.

“Machining coolant (or metalworking fluid) maintenance is stillconsidered an art in many machine shops,” Dimac Director Paul Fowler says. “Smartusers know that well maintained cutting fluids can last for years, not weeks ormonths.”

Dimac offers the Zebra range ofoil separation systems to skim up the surface oil coming from a machine’s lubricationsystem. The oil is skimmed on the belt, comes out of the unit into a gravityseparator and is then returned at the back of the machine while the coolant isreturned to the machine. The Zebra Oasis portable coalescer extends the life ofyour coolant and tooling and prevents shop mist or any health issues.

“Keeping your coolant in a good condition can prolong the life of yourcoolant for up to three years,” Mr Fowler concludes. “As a result, machineshops can save costs while at the same time increasing productivity and partquality.”

Clean air workshops

For clean and healthy air in workshops, Dimac showcases the German-madeREVEN Recojet oil mist separators and Ultra Cleaners, highly efficientmechanical air filtering units using mechanical separating system X-CYCLONE.Air pollutants and contaminants from oil, emulsions and other fluids areseparated from the ambient air as aerosols to a very high extent. Thisequipment dispenses with auxiliary energy supply as well as any auxiliarymaterial (fabric, etc.).

The units are particularly well-suited for the separation of harmfulsubstances from the air including air pollutants in the form of aerosols, mistor vapour (saturated) as well as fine dust. These particles are conductedtogether with the transporting medium air into the X-CYCLONE separator byforced ventilation (fan). The collected fluids are returned to your equipmentand your working environment is mist and particle free.

High-pressure coolant

Expanding Dimac’s line of versatile CNC machine accessories designed toimprove productivity is the Cooljet high-pressure coolant system.

“During themetal cutting processes, significant heat is generated at the tool and workpieceinterface, primarily from the effects of friction, which can be detrimental tothe tool and the workpiece,” Mr Fowler explains.

With the on-demand Cooljet coolant system cutting fluids are pumped topressures of 1000psi (70 bar) or more, and are accurately directed to thecutting zone through an appropriate nozzle. The resultant jet stream of coolantis able to penetrate the high temperature cutting zone, delivering vitallubricants to the cut.

“If you are targeting to reduceprocess cycle times, you will find that your tool life will be significantlyextended, and the quality of the cut is considerably increased after applying high-pressurecoolant. Its applications are extensive from drilling, grooving, boring,cutting of hard metals which have a high nickel content, to small toolingapplications.”

Quick Jaw Change

Dimac will have a wide range of fixtures, vises and chucks on display,including the expanded range of the new Kitagawa DH Series Collet Chucks, nowincluding the new DHP-42 (42mm diameter capacity) version, which will beavailable soon and joins the DHP pull back versions currently available. The DHSeries is available with quick release gun and specialised collets and is thenewest addition to the wide range of quick-release and standard collet chucks alreadyavailable from Kitagawa.

For efficiently changing chucks Dimac will demonstrate the Kitagawa QJRseries (Quick Jaw Release), a quick change power chuck. Using a quick changebase jaw system it can accept standard metric serrated top jaws from existingB200 and BB200 chucks. These base jaws can be changed quickly and easily usingthe hand-operated key.

For more information pleasevisit www.dimac.com.au.

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