

STARRAG CO2 AIR COOLING DEVELOPMENT

WINS EMO INNOVATION AWARD

Starrag's development of a groundbreaking cryogenic air cooling process has won the MM Award for Milling innovation at the EMO exhibition in Hannover.

Developed in conjunction with tooling giant Walter AG, the CO2 air cooling system can increase productivity levels on high-strength material workpieces, such as turbine blades, by up to 70 per cent. The process – which can also double tool life if cutting parameters remain unchanged - can be utilised by all users of Starrag machining centres, including being retrofitted to existing Starrag machines.

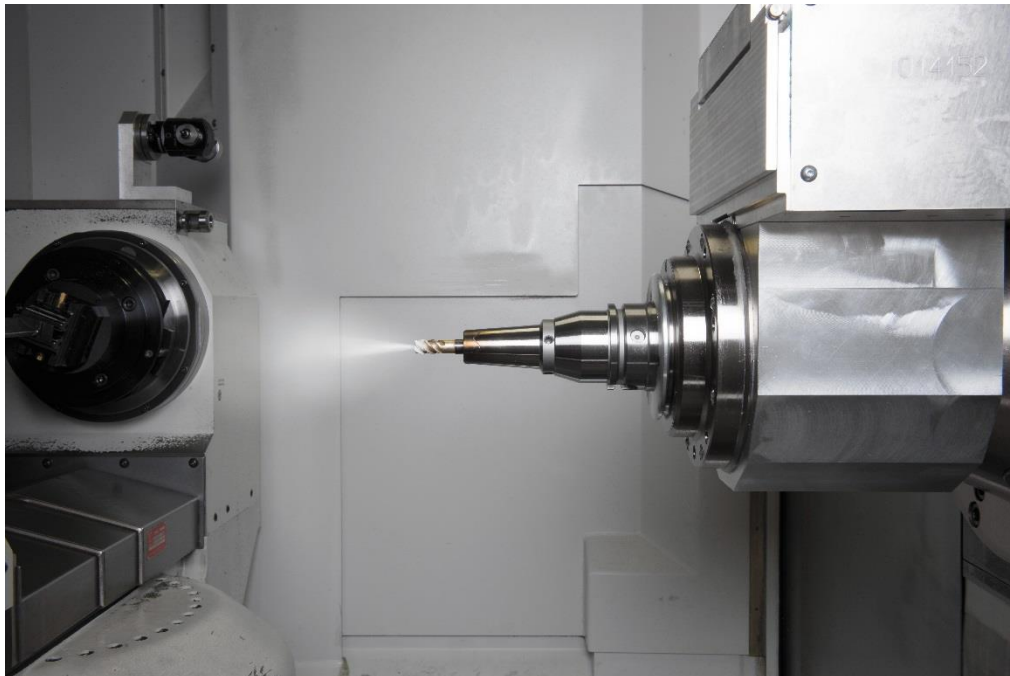
The system sees liquid CO2 applied to the centre of the cutting tool via the machine spindle (at room temperature and without loss of pressure) to dissipate cutting temperatures and therefore minimise tool friction and swarf adhesion.

In addition, a second supplementary cooling channel (for aerosol or minimum quantity lubrication) can also be applied - the two media meeting at the cutting edge – for further improvements.

The system was one of a number of machine tool developments acknowledged at EMO by the German industry magazine MM MaschinenMarkt.

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Starrag's EMO award-winning cryogenic air cooling process in action