



## Summary

<b>Industry:</b>	Aerospace
<b>Application:</b>	High Pressure Coolant Pumps
<b>Actual Saving:</b>	£n/a
<b>Payback Period:</b>	n/a



## High Pressure Coolant Pumps

ERIKS works with supplier to meet coolant pump needs

## ISSUE

A major aerospace component manufacturer, were looking to upgrade their existing coolant supply pumps to a high pressure coolant pump for their Makino machining centres, on through hole boring applications.

ERIKS Pump Technology was called in to review the application and assess what was required. ERIKS quickly identified that the existing Grundfos SPK centrifugal coolant pumps were not capable of the new duty of 25bar.

## SOLUTION

ERIKS Pump Technology offered a new pump from the Grundfos range, the new MTS Series three-spindle self-priming screw pump.

The newly developed MTS series for high pressure supply of machine tools proves its strengths especially during the production of filigree parts. Here, the three spindle self-priming screw pump convinces with a delivery pressure up to 130 bar. Its high efficiency ensures a very low heat input into the cooling lubricant. In addition, the very wear-resistant system guarantees maximum reliability and minimum vibrations. This series can also be optionally supplied with integrated frequency converter.

ERIKS customised the whole job by manufacturing a new tank top mounting plate to suit the original coolant tank to ensure minimum disruption to the existing system.

## OTHER BENEFITS

- MTS pumps are available in two executions: One in form of immersible pumps with shaft seal-ring and the other a dry installed variant with mechanical seal
- Due to their compact design, the pumps are suitable for vertical installation in or on top of tanks, or for dry installation.

## FURTHER COMMENTS...

When performing deep hole drilling, an additional complication is that the chips must safely be disposed from up to 600 mm deep bore holes. Only very powerful high pressure pumps can accomplish this.

## MORE INFORMATION

## ERIKS Industrial Services

Amber Way, Halesowen,  
West Midlands B62 8WG

**Tel: 0845 006 6000**

**Web: [www.eriks.co.uk](http://www.eriks.co.uk)**