EMERSON
Industrial Automation

applied
To Machine Manufacturing & Tool

# Commander SK - in the Right Place at the Right Time for Crevoisier SA!

**Crevoisier SA of Les Genevez, Switzerland are a leading manufacturer of production machines for the high class watch making industry. They have recently launched The Universal C-5001 Lapping and Polishing Machine and at its heart is a Control Techniques 1.5 kW (400VAC) Commander SK running a 1.5 kW motor all controlled by a colour touch screen HMI panel.**

Watch makers are increasing their standard of finishing, parts that are so small they can hardly been seen by the naked eye need to be precise to measurements of 1 microm. All of the individual parts require polishing before a watch is manufactured and the art of polishing is more difficult than it looks!

"When polishing small parts you need to be confident of the speed" says Crevoisier's Research & Development Project Manager for the C-5001. "Also important is torque, at a low speed constant high torque is required to ensure the quality of polishing. The Commander SK has ensured that the high level of precision demanded has been met."

The C-5001 not only had to provide variable but accurate speed but be available in a compact table top design. The Commander SK was key to achieving these objectives as its compact frame meant that it could be set inside the C-5001 and the polishing sequence could be programmed directly onto the drive eliminating the need for a PLC saving space and money.

Connecting a colour touch screen HMI panel direct to the drive also allows for settings to be saved that match certain watch parts or materials, this saves time in the polishing process. The colour HMI screen also makes the machine very attractive a real bonus in design focussed industry!

"In this industry you must bring new products to market regularly as you need to show the customer that you are ahead of your competitors and listening to their requirements," Crevoisier's Research & Development Project Manager. "The C-5001 does this as it offers a much improved package compared to its predecessor C-501 which did not feature a drive and worked from a belt design with 4 settings. The new machine can be set to give a speed anywhere between 250 to 3750 rpm, is more compact, quieter and easier to use!"

"Control Techniques have really helped us in the design of the new machine, the technical support they have provided such as programming the HMI panel has been invaluable. The quality of their products was known to the company and they were able supply the whole package – the drive and HMI panel. This means we only needed to have one contact for help with development, training and support, a real benefit!"

## KEY BENEFITS

- VARIABLE YET ACCURATE SPEED
- COMPACT DESIGN
- POLISHING SEQUENCES PROGRAMMED DIRECTLY TO DRIVE
- PLC REQUIREMENT ELIMINATED SAVING SPACE & MONEY

0115-0090

**For further information please visit www.controltechniques.com**

CONTROL TECHNIQUES