

TAPPING INTO EACH OTHER'S EXPERTISE

Ertec – offering SMEs efficiency in precision component production

Ertec supports metalworking manufacturers and suppliers with advice, software and hardware for enhancing efficiency and accuracy of their production, particularly by means of automation. Based on many years of experience Ertec develops solutions in cooperation with leading suppliers to increase the competitiveness of its customers.

A balanced combination of machine, tools and clamping technology provides the accuracy that metalworking manufacturers and suppliers increasingly require. As a representative of System 3R, Ertec, based in Nuenen, the Netherlands, offers a complete gamut of reference systems for the clamping of precision components. As production trends towards higher precision, Ertec is fully prepared to meet the demand for sophisticated reference systems.

Take the Matrix chuck (Figure 1), a new generation specially developed for heavy machining, when speed and precision are crucial, applied for instance in the production of lenses in one setting. Its repeatability is 0.002 mm. And an even more impressive example is MacroNano, the series for quick clamping of workpieces with 'nanoprecision'



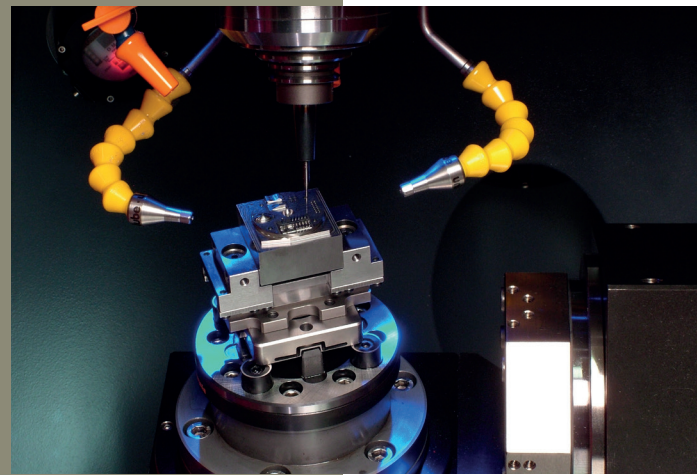
1 The Matrix chuck.

(Figure 2). This clamping system links the production chain through an ultra-precision coupling for both workpiece and tool holding. Repetition accuracy stays within 0.001 mm.

In close cooperation with the client, Ertec also designs and builds automation systems for the production of small to medium-sized series based on robots for workpiece loading. Such a system may consist of two machining centres, a handling robot and a pallet warehouse for the workpieces, based on a System 3R reference system. Ertec is a representative of Liebherr, a specialist in the automation of workpiece handling at machining centres and other machine tools. Being a total solution supplier, Ertec also regards software for control of 24/7 production cells, as well as for planning and organisation, as one of its key competencies.

Efficiency is the thread that runs through the Ertec programme, for example by supporting the production process on the cutting and checking level with special tools for slotting and shaping, engraving and deburring. Ertec also offers the complete programme of concentricity gauges from Spreitzer. These gauges are used for inspection tasks on external, internal and flat faces on rotating parts, such as determining the concentricity of two or more diameters or measuring axial run-out. The true running accuracy of a workpiece is 0.002 mm.

For many years Ertec has been a partner of SMEs, manufacturers and main suppliers specialised in the production of precision components for high-tech industries such as automotive, aerospace, semiconductor and medical. In all cases Ertec can provide the means to make production more automated, more efficient and more precise. ■



2 MacroNano clamping system on a Kern Nano machining centre.

INFORMATION

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