



PROTOCON ENGINEERING LIMITED

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Further investment this month has seen Protocon Engineering double their wire erosion capacity (EDM) this month.

Wire erosion is an extremely accurate method of producing parts from any electrically conductive material with high quality results.

Protocon have significant experience eroding a wide variety of materials.

Wire eroding allows cutting extremely intricate contours, cavities and patterns with minimal damage to the overall structure of the substance. Complex shapes that would otherwise be difficult to produce with conventional cutting tools cut be machined using this process on extremely hard material to very close tolerances.

Due to there being no direct contact between tool and work piece, delicate sections and weak materials can be machined without any distortion and small work pieces can be machined where conventional cutting tools may cause damage.

The new FANUC Robocut C400i A, was recently installed at their Southend factory and can take work pieces up to a maximum of 700 x 555 x 250mm.

The company has built its reputation on producing generally small, close limit components initially for the electronics industry. Today this has grown to encompass a variety of parts for the Medical Industry and for the civil and military Aerospace sectors.



Directors: Geoffrey A. Smith C Eng Maureen E. Smith Matthew J. Smith

Registered Office: Stock Road, Southend on Sea, Essex SS2 5QF

Registered in England No: 1066364

BSI Registered to AS9100 Revision C / ISO BS EN 9100:2009, ISO 9001:2008



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Also, during this hectic month Protocon commissioned a new Fanuc RoboDril D21 MiA5 high power machining centre, which complements the existing 5 Robodrills in the machine shop.

The slightly larger footprint of this D21 means it is better suited in our adjoining factory workspace, alongside our other HAAS Vertical machining centres.



The new machine boasts an impressive 24,000 rpm High Speed Spindle, and 21 tool storage carousel, ideally suited for the variety of parts machined for the Medical Industry and for the civil and military Aerospace sectors.

Both machines have DNC Links to our Gibbs-Cam, allows off-line programming for both 2D CAD drawing files, and full solid models.

Cut paths can be directly inputted to all our CNC machine centres through our dedicated post processors and DNC links.

Protocon remain a family business (currently in its third generation), and has been trading for 50 years and are looking forward to serving their customers for many more years to come.

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