

PCM TOOLING (UK) ANNOUNCE NEW RANGE OF RIGHT ANGLE HEADS FOR USE ON CNC MACHINING CENTRES & MILLING MACHINES

The specialist precision toolholder supplier PCM Tooling (UK) Ltd, has announced a new range of Right Angle Heads for, designed, and produced by their long term manufacturing supplier OMG srl of Cavriago, Italy.

The new heads known by the code TAO 13 employ OMG's well proven designs from their earlier ranges of 'TA' heads to develop the TAO range – where the ' O ' stands for 'Offset '

The offset design of the main body of the Right Angle Head allows users to take advantage of the extra clearance created between the front of the collet chuck on the Right Angled Head and the component they wish to machine – allowing the use of longer cutting tools, should they be needed for a specific long hole drilling or milling operation.

This also means that the heads can often be used on machines that have shorter length tables in the Y axis, which has been a challenge for some machining operations in the past, where machinists wanted to machine the end(s) of a component in the same set - up as they machined the main top surface features, without unclamping the component from the machine table and re clamping it in a vertical plane to machine the end(s).

Such re-positioning of the component often meant that the all important original machine / setting datum had to be re-established, which consumed valuable machining time, before the desired end machining operations could be started. This 'lost time' during the re-positioning led to increased costs and loss of competitiveness resulting in lost business for some companies. These problems have been eliminated by the use of OMG Right Angle Heads in a substantial number of user companies in the Aerospace, Motor Sport and other industries requiring high precision components.

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The TA -O range of heads are available with shanks to fit machines having BT, CAT or DIN 40 or 50 – spindles or those using the HSK. 63 A / HSK 80 A or HSK 100 A types of spindle.

The output spindle can be selected from a range of standard sizes and types according to the end users machining requirements. These standards include ER 20 collets and HSK 32 A, outputs.

The TA -O heads are usually supplied in a fitted box complete with spanners and users Instruction manual. A basic anti rotation stop block is also supplied as standard, but for some machines it may be necessary to make a machine specific anti rotation stop block, to match the spindle housing shape and screw positions. PCM Tooling (UK) engineers are available to offer advice should this be required – but experience gained over the years of supplying the earlier TA versions has shown that most subcontract machining companies usually carry out the design, manufacture and fitting of such gained stop blocks easily on their own, due to the knowledge gained from machining the challenging range of components they produce for their customers.

An image of a TA-O is attached. It is expected that examples of the TA-O head will be shown on the PCM Tooling stand (Number 4104) at the Mach 2006 exhibition in May 2006, at the NEC Birmingham

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