

# New cross table deep hole drilling machine for tool and mould manufacturing

A single machine for economic deep hole drilling, milling and tapping

During this year's Moulding Expo in Stuttgart, the German-based company TIBO Tiefbohrtechnik GmbH presented the new type KTE cross table deep hole drilling machine. Tibo's previous supply range covered single and multi-spindle deep hole drilling machines for round components. The range of the machine maker from Swabia is now complemented by the type KTE machine series, which is suitable for deep hole drilling in cubical components.

Applications for the KTE series include the tool and mould making industries, where deep hole drilling is performed to create coolant passages in the tools. The KTE cross table deep hole drilling machine allows for cooling channels with a diameter between 2 mm and 40 mm to be drilled at a depth of 1,000 mm and beyond. Required closing threads can also be created quickly and reliably, using the milling and tapping kit. When it comes to control technology, Tibo, as always, chose components of high quality, equipping the KTE series with the latest CNC control equipment 840d sl by Siemens. The clamping table features a travel path of 800 mm for the x-axis and 350 mm for the y-axis as well as a load bearing capacity of at least 3,500 kg.

The modular system that is familiar from Tibo's single fluted and BTA deep hole drilling machines also allows for other

combinations of drilling range, drilling depth and table size. The large universal clamping table with precision lifting elements and direct position sensors leaves nothing to be desired when it comes to positioning accuracy and repeatability. An optionally available rotating tailstock also allows for reversed centric drilling of round components. This means that the cross table deep hole drilling machine series KTE can be used for both eccentric deep hole drilling for all kinds of components and for reversed centric deep hole drilling, making it the new all-rounder by the high-quality supplier from Germany.

### Deep hole drilling solutions for every requirement

Whether it's the oil and gas industry or renewable energies, hydraulics and pneumatics, automotive, aeronautical, shipbuilding or wherever highly precise and durable deep hole drilling machines are needed, Tibo can provide optimum custom solutions.

### Oil & gas

Whether its drill collars, drillpipes or submersible pumps, Tibo deep hole drilling



machines will allow high-precision drilling operations with minimal runout in alloys typical for the applications such as nickel steels. The machines come with additional features specially developed for the task, for example chip breakage monitoring for reliable cutting which is integrated as standard.

### Automotive and vehicle construction

Camshafts, crankshafts, transmission shafts, drive shafts, flanged shafts, injection nozzle bodies, fuel rails, valves, con-rods or piston pins, there is hardly any other industry in which so many deep hole drilling applications are encountered. This is in addition to large quantities and maximum output in the shortest possible time. Tibo deep hole drilling machines deliver solutions here that are as precise as they are efficient. Consequently, when through-holes are present, for example in camshafts and common rails, it is also possible to drill simultaneously from two sides. All over the world, Tibo customers rely on deep hole drilling machines that have been specially developed for this task with designs that incorporate up to 12 spindles, including fully automated part handling by, for example, synchronised chains, overhead gantries and robot loading. This allows cycle times that are almost 50 percent quicker.

### Shipbuilding

In the manufacture of ships' rotor shafts in particular, but also in the case of numerous components for pumps and powertrains, the field of shipbuilding involves challenging



deep hole drilling tasks that can be done with great precision, reliably and efficiently with Tibo deep hole drilling machines.

## Medical technology

Medical implants such as bone nails, medullary nails, bone screws or stents, most of which are made of titanium or stainless steel alloys, require maximum precision deep hole drilling with minimum runout. Parts with very thin walls are exactly those that present a real challenge, but that can also be brilliantly and reliably overcome with Tibo deep hole drilling machines.

Tibo Tiefbohrtechnik GmbH is a company with operations throughout the world that has specialised in the design and production of modular deep hole drilling machines. Founded in 1994, and with headquarters in the town of Pfullingen in Baden-Württemberg to the south of Stuttgart, it is one of the leading suppliers of single-spindle and multi-spindle gundrilling and BTA deep hole drilling machines for a broad range of applications.

Embedded into a medium-sized group with currently 13 companies, and more than 1,000 employees, its customers benefit from shortest reaction times in all aspects of their



deep hole drilling machine. As a south German machine constructor, TIBO manufactures exclusively in its own plant at the Pfullingen headquarters. Its suppliers also manufacture mainly locally, which means the company can proudly proclaim that its machines are made in Germany. Together with its collaboration partner Gehring Technologies, it is able to offer complete process solutions from deep hole drilling right through to honing.

Since all components are normally available from stock, speedy project realisation is ensured. The average time from the placement of an order to delivery is just four to six months.

Tibo deep hole drilling machines have

been in use on all five continents for decades. The company supplies custom and optimum solutions for customers specific deep hole drilling work.

A highly qualified team, unique know-how, decades of experience and outstanding product and service quality provides the decisive edge for customers to realise their projects. Central project control and a global sales network guarantee excellent product and service quality across the board.

## TIBO Tiefbohrtechnik GmbH

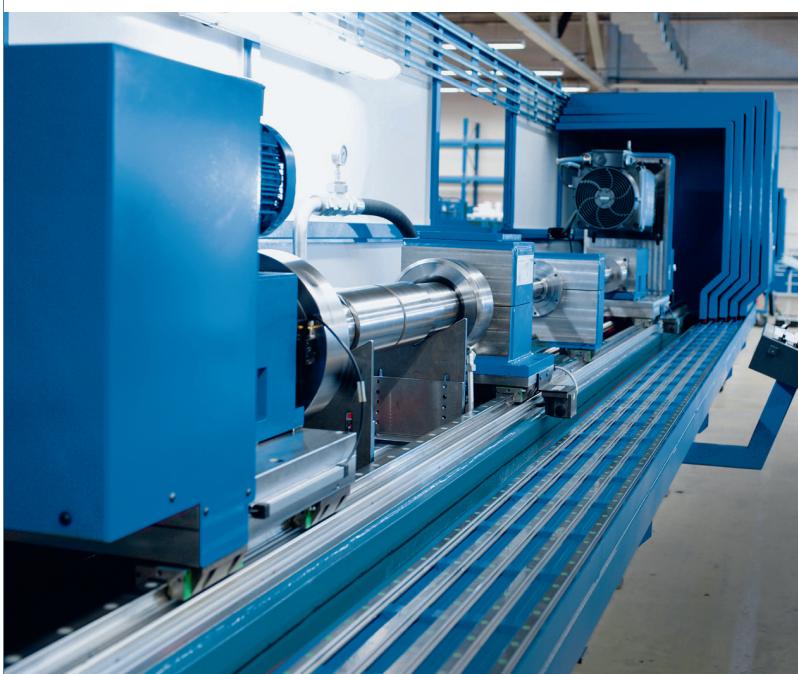
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## Experience Tibo deep hole drilling machines.

**tibo.**



**Modularity.  
Performance.  
Precision.**

**Innovative deep hole drilling technology,** intelligently engineered from modular system components – that's what Tibo Tiefbohrtechnik is all about. Get to know our high-performance BTA and gundrilling machines and discover the amazing possibilities for your specific deep hole drilling applications.

Visit us at our headquarters and production site in Pfullingen, Germany or experience our website at [www.tibo.com](http://www.tibo.com)