

The next generation of deep hole drilling machines

At EMO 2019, Tibo introduced its new gun drilling machine. It was not only eye-catching for the visitors, but the machine has a lot of new technical ergonomic and visual features to offer.

The newly introduced progress bar, together with the triple signal lamp, enables the operator, with one quick view, to see how far the drilling process has advanced. Especially in a multiple machine operating environment, he can quickly react on process failures and in the process reduce the non-productive time of the machine.

The HMI has been newly designed with its intuitive operable 15" touch panel offering an easy-to-use programming environment and clear supervision of the drilling process. Features like storing different drilling programs, the usage of multiple user accounts with different levels of user rights or the remote access are included in the standard setup. The traversable control panel enables the operator to easily reach all components and always supervise the process from the most suitable position.

Similar to a smartphone, all relevant parameters can be easily changed on the touch panel by entering numbers or by moving sliders. The interactive user guidance directly shows improper entered values, highlights critical parameters and helps the operator with hints depending on the values entered.

In case of process problems, all error messages are being clearly listed. In the



workshop the user manual is not always quickly available. On your Tibo machine you can read the operating manual directly on the screen and search for keywords.

The control archives all actions, changes and inputs in order to be able to quickly retrace processes in case of malfunction. Drilling programs can be created offline in the office and downloaded to the machine using the existing network environment.

If authorised by the customer, Tibo can establish a direct link from its headquarters to the machine. In case of problems or

malfunction, a first diagnosis can be performed. We can give hints to the operator or correct programming of the machine. Separate Tibo software visualises performance charts and process data or, optionally, data can be integrated and visualised in an existing control system.

What is technically new on the machine?

Most obvious is the new design of the machine enclosure. The machine itself has been redesigned with focus on ergonomics. All components can be easily reached to reduce set up time. The two new LED light bands inside the machine improve process surveillance possibilities.

To optimise setup time, the drill bush holder and clamping cones are spring loaded. By means of a bayonet lock this ensures a quick exchange of those two components. In addition, the back guidance of the drill has a quick-change system as well.

For removing the steady rest for the gun drill and the workpiece, part of the linear motion system can be easily removed.

The chip box cover can simply be opened without unscrewing or removing any locks. The tail stock is now being moved by a ball screw drive and this opens new operating modes of the machine. The tail stock can be programmed and moved by the NC program to any given position depending on the workpiece. Since there is no manual



adjustment needed, setup time is significantly reduced. With the possibility of storing 500 programs there are almost endless possibilities.

To increase the safety of the drilling process, Tibo has installed a new hydraulic collision control. The oil supply is constantly monitored to automatically stop the drilling process in case of a detected malfunction. Machine damage and drill breakage will be prevented.

Tibo installed a camera system for chip or process monitoring. On the touch panel screen the operator can see if and what kind of chips are coming off the drilling process and can adjust the drilling parameters if needed.

Of course, Tibo has kept its modular machine concept and machine lead times are 4-6 months. Even custom designed machines can be built quickly and cost effectively by using our modular system. Tibo guides you through the development process and your ideas combined with our knowledge of deep hole drilling will lead to the most suitable solution for your drilling challenge.

Made in Germany and used throughout the world

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 its headquarters in the town of Pfullingen in Baden-Württemberg to the south of Stuttgart, today 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.



TIBO Tiefbohrtechnik GmbH

Tel: 0049 7121 994260

Email: info@tibo.com

www.tibo.com

UK Agent:

Maydown International Tools Ltd

Tel: 01827 309709

Email: sales@maydown.co.uk

www.maydown.co.uk

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Deep Hole Drilling Machine made by Tibo

- Deep Hole Drilling the easy way
- Ease of use, ergonomic design, increased safety
- Perfect solution for any application due to our modular design
- Impressive performance in terms of dynamics and precision
- Customer oriented project execution
- State of the art and intuitive user interface
- Short delivery time

Modularity. Performance. Precision.