

Bihler at EuroBLECH 2018

Hall 27 / Stand E104

LEANTOOL Progressive

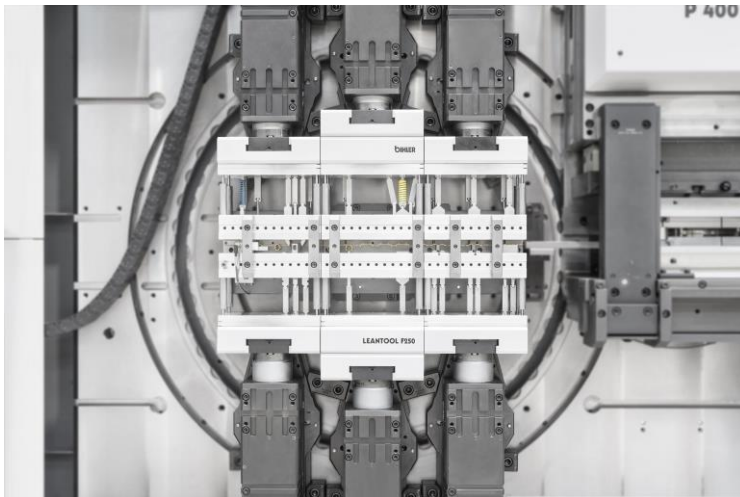
New LEANTOOL for progressive components

Halblech, Oct. 23rd, 2018 – Bihler presents the new LEANTOOL progressive system for the first time at EuroBLECH 2018. The standardized modular tool kit complements the innovative LEANTOOL system regarding the production of even more complex progressive components.

While the focus previously was on lean, radial bending tools for simple stamped and formed parts and wire bending parts, the new LEANTOOL progressive system is perfectly designed for linear progressive tools. The LEANTOOL progressive system combines the strengths of traditional progressive tool technology with those of Bihler machine technology – for a very high degree of standardization, less complexity in the tool and maximum flexibility and productivity. More than 70 percent of the lean progressive tool consist of standard parts and blanks. Individually controllable tool movements can be implemented in the machine from above, from below and from the side. This makes the LEANTOOL progressive system particularly simple, clearly structured and easily accessible.

High degree of standardization

Up to three tool modules with standard lengths of 250mm each can be mounted side by side on the GRM-NC servo stamping and forming machine. Together with the cutting tool in the 400kN servo press, a total tool length of 1,420mm is possible. Compared to progressive tool solutions in presses, the production quality is consistently higher since the strip material does not have to be lifted out. Material waste is reduced decisively thanks to the single-side holding strip connection. A large number of components previously produced on presses with progressive tools can now be manufactured in a much more flexible and cost-effective manner in small and medium batch sizes with Bihler technology.



Perfect consistency

The perfect consistency of the LEANTOOL system contributes to this in advance. The modular system supports the user right from the quotation stage. With the free Bihlerplanning WebApp, the user immediately receives exact information on the feasibility of his progressive component. The workspace for the component is clearly defined and the work sequences are easy to plan. The calculation is plausible thanks to the specified tool design. The clearly structured design methodology of the bNX Bihler software then allows a fast and simple tool design. Machine environment and standard parts are predefined and all LEANTOOL standard parts are stored in the reuse library.

70 percent standard parts

The lean tool is manufactured just as quickly thanks to the small number of components, the high degree of standardization with up to 70 percent standard parts and the minimum number of individual tool parts. Many standard parts are readily available from stock at Bihler. Tool costs are reduced by up to 40 percent. With the adjustment and positioning unit integrated in the GRM-NC servo stamping and forming machine, the NC units can be aligned fully automatically via the VC 1 control system. Uniform quick clamping systems allow for a simple and safe assembly of the LEANTOOL tool modules. Setup times range between 30 minutes and one hour. Forming results can be optimized at the touch of a button using servo technology. Production always starts immediately with a 100 percent reproduced good part.



Soon also for serial production

If the quantities for progressive components increase, the LEANTOOL progressive tool can be ported one-to-one to the new generation of high-performance mechanical Bihler machining centers that will be presented in the near future. This will extend the range of applications for this lean, cost-effective tool technology from small and medium batch sizes to the large-scale production of more complex progressive components.



BihlerNET

Digitale Service Platform increases productivity

Digital transformation currently drives the entire market. Everybody wants to match the pressure of increasing productivity by maximizing system availability. The reply of Bihler to this development is the new BihlerNET digital service platform. With this powerful and secure online solution, users are right at the pulse of your Bihler machine.

Virtual production hall

Users simply log on to their personal area from any device. In the virtual production hall, they will immediately receive digital services and real-time data for their actual Bihler machines, such as a live monitor for optimum machine use. Users will also find system specific information such as operating instructions including how-to videos, current 3D models of their machine, as well as, in the future, availability reporting and health diagnosis and a system specific spare parts catalog. BihlerNET will be available in the first half of 2019.

Photos (Reprint free of charge with copyright indication *Bihler*)

Image 1: GRM-NC servo stamping and forming machine with new

Image 2: LEANTOOL Progressive

Image 3: LEANTOOL System (progressive / radial) perfectly designed for stamped and formed parts, wire bending parts and progressive components

Image 4: BihlerNET Digitale Service Platform