



BIHLER WELDING GUIDE



The Bihler Welding Guide is the standard reference for greater efficiency in production. It clearly and transparently explains all resistance welding processes. It describes the Bihler welding technology hardware, presents interesting applications on examples and provides important hands-on tips. With directories, glossary and references, the Bihler Welding Guide is an informative work of reference.

The Welding Guide is available free of charge.
Simply order at www.bihler.de/Produkte/Schweißtechnik

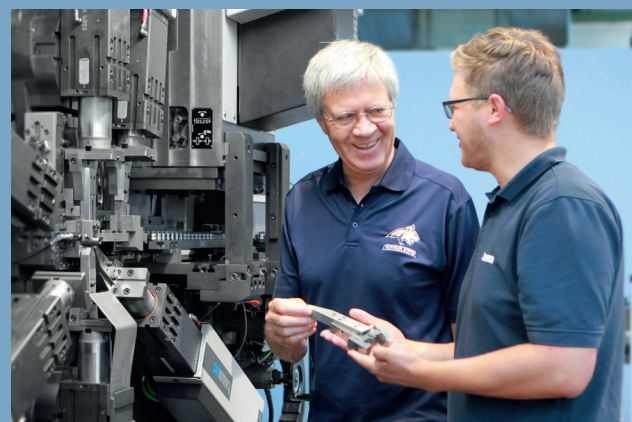
BIHLER TECHNOLOGY

BLECHEXPO 2017, Stuttgart 7th – 10th November 2017

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NEWS

SUPPORT **NEW**

Maximum productivity and highest availability



With new, solution-oriented services, we now provide you with even better support during the entire life-cycle of your components and your Bihler system. In cooperation with you, our experts first optimize the geometry of your components, perform material and welding tests and ensure maximum material efficiency. Then we develop and design the most economical production concept. Practical training and application-related discussions provide your staff with the required expertise.

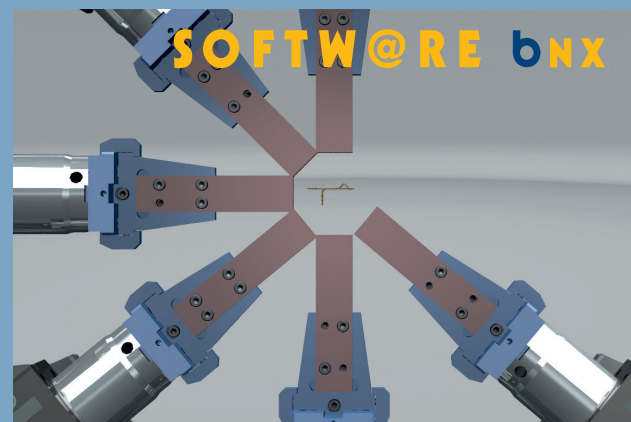
Our experts ensure the smooth commissioning of your machine and are present on-site for a short production start-up phase. Tool spare parts packages and tool adaptation expand our services during the set-up phase. During production, we ensure the high availability of your Bihler machines with preventative maintenance, original spare parts and the vast experience of our technical customer service. We even advise you on the expansion of your system for new tasks, on increasing the service life of your cutting tools as well as on how to further increase your production.



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NX 10+ **NEW**

Technology Software



The Bihler bNX Software is based on the Siemens NX 3D-CAD system. With the powerful features of this system, you implement demanding assemblies effectively and quickly create complex designs. The fully integrated Bihler software provides unparalleled support when designing tools both for Bihler machines as well as for progressive presses. Forming studies are easily created and used to generate the resulting strip layout.

Design the 3D geometry and kinematics of your machine and tools using the provided 3D standard parts. Simulate all movements of your entire Bihler system in 3D. Then optimize the motion sequences and derive the required curve profiles or NC programs for the actual machine. You benefit from significantly reduced development times as well as reliable tools with maximum pulse rate.

At the Blechexpo, we present LEANTOOL development level 1.1 with improvements in the areas of timing charts and simulation as well as the newly developed strip layout.



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CONSULTING **NEW**

Development of LEANTOOL manufacturing process



You need to design a production concept for a Bihler servo machine with the new LEANTOOL technology and develop LEANTOOL tools based on this concept?

This is the exact core competence of our experts. They were involved intensively in the development of this new tool technology and have a wealth of practical experience in the development of manufacturing processes with LEANTOOL tools for a variety of applications. We provide you with this know-how during our consultation and develop specific solutions together with you as well as assist you during their implementation.

Your benefit: With our experience and expertise, we design an efficient production concept and optimum LEANTOOL tool designs for your application. In addition, you benefit from our know-how and can put this into profitable use for future tasks.



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Dear trade show visitors,

At our exhibition stand, we present a highly efficient manufacturing solution consisting of a servo-controlled GRM-NC stamping and forming machine, a radial LEANTOOL setup and the new B 20K high-performance welding control system.

Discover how guide rails for electric vehicles can be produced easier, faster and cheaper. The LEANTOOL system ensures quick calculation, smart designs and lean tools. The B 20K with its new features and flexible welding frequencies up to 20,000Hz guarantees optimum, reliable welding processes and results. The GRM-NC ensures extremely short setup times and maximum productivity.

In addition, we present our new customer support services. See for yourself. We are happy to advise you.

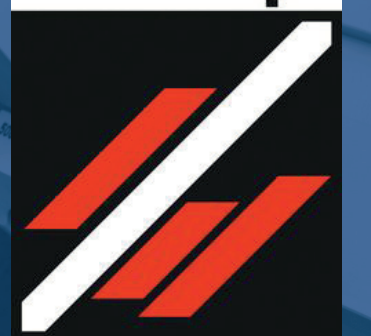
I hope you find some inspiring information

Your Mathias Bihler
(Managing Partner)



SIMPLY FASTER

Blechexpo



HALL 7 / STAND 7309



Intelligent solutions
for your ideas

NEW B 20K

High-performance welding control system

Achieve even better resistance welding results. The new B 20K high-performance welding control system combines all process, measurement and monitoring systems into one comprehensive system. Stepless welding frequencies between 1,000 and 20,000Hz guarantee highly dynamic and even finer control. The self-contained power supply ensures highest process reliability and reduces the grid load of the welding process.

From micro to macro welding processes, from soldering to heating processes such as induction annealing, the B 20K covers a wide range of applications. Servo axes for controlling contact welding units, for instance under a press, can easily be integrated. Extended measuring channels ensure optimum control, process monitoring and diagnostics. Using a quick access feature, manual or automatic process adjustments can easily be performed during active operation via the stepper function.

NEW LEANTOOL

Standardized modular tool kit

With the revolutionary LEANTOOL system, you are simply faster than the competition. The standardized modular tool kit offers perfect consistency from the first component request all the way to production. The Bihlerplanning App provides a quick initial feasibility statement and precise quotations. The clearly structured bNX Software simplifies and shortens tool design drastically.

The LEANTOOL tool parts that need to be produced are reduced to a minimum, and are manufactured quickly and cost-effectively on the RM-NC or the GRM-NC. The servo machines then manufacture up to 300 precision stamped and formed parts per minute, with highest productivity for all batch sizes. In case of a new component, the LEANTOOL is changed within one hour thanks to state-of-the-art servo and control technology, with 100 percent reproducibility. Ensure your competitive advantage with the Bihler LEANTOOL system. A linear version will be available for the Euro-BLECH 2018.

GRM-NC

Servo-controlled stamping and forming machine

The servo-controlled GRM-NC stamping and forming machine guarantees highly productive manufacturing. The compact servo machine impresses with its high performance of up to 250 stamped and formed parts per minute and ten times faster setup times compared to conventional systems. The GRM-NC is equipped with a fully automatic adjustment and positioning unit for all NC units.

At the push of a button, you access all parameters of the VariControl system and easily set up the axes with 100% reproducibility. Quick clamping systems allow for tool setup in mere minutes. Production starts immediately with a good part. In connection with the LEANTOOL you also save up to 70 percent of tool costs and achieve the fastest time to market for your new products. The intuitive VC 1 guarantees highest process reliability.



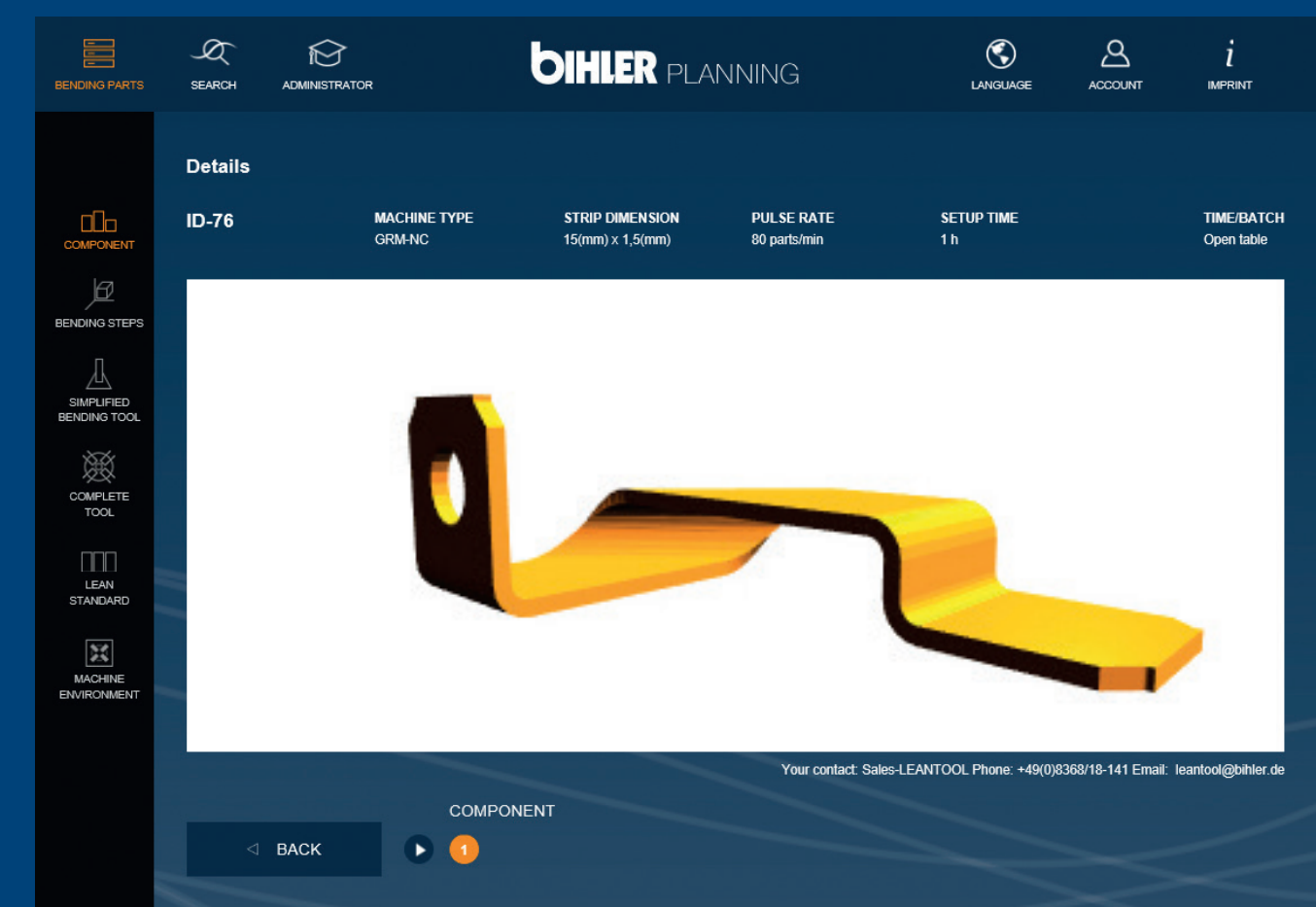
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Bihlerplanning WebApp

Test the WebApp "live" at our exhibition stand. The app is the ideal tool for planners and designers. It provides a quick answer to the question: "How do I bend stamped and formed parts?" The app also contains a database with a number of sample parts and a wealth of Bihler knowledge. It offers an easy and quick overview of all aspects for implementing stamped and formed parts. Additional information such as production speed, setup time and processing time per batch will be outlined clearly. The app is available free of charge at www.bihlerplanning.de.

New LEANTOOL standard parts catalog

The new standard parts catalog lists all LEANTOOL components in detail by machine and tool standard parts. It includes images of components, part and order numbers as well as additional dimension and type information. This provides a quick and compact overview of all LEANTOOL components at a glance.

NEW Level II

- Information regarding LEANTOOL system functions
- Detailed breakdown and allocation of standard tool components for each example
- CAD data of the tool design can be requested easily and conveniently

+ free download of 2 examples, 1 strip and 1 wire



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