





EFFICIENT PRODUCTION

The servo production and assembly system BIMERIC Modular is the ideal solution platform for your efficient component and assembly production. The servo machine impresses with its standardized machine and tooling technology for significant cost savings, very short "time-to-market" and particularly short setup times.

High-performance flow production from the starting material to readyto-install assemblies enables you to achieve the highest manufacturing quality. State-of-the-art control technology guarantees simple operation and consistently high process reliability. Thanks to its flexible scalability, you can also adapt the BIMERIC Modular to your tasks at any time.

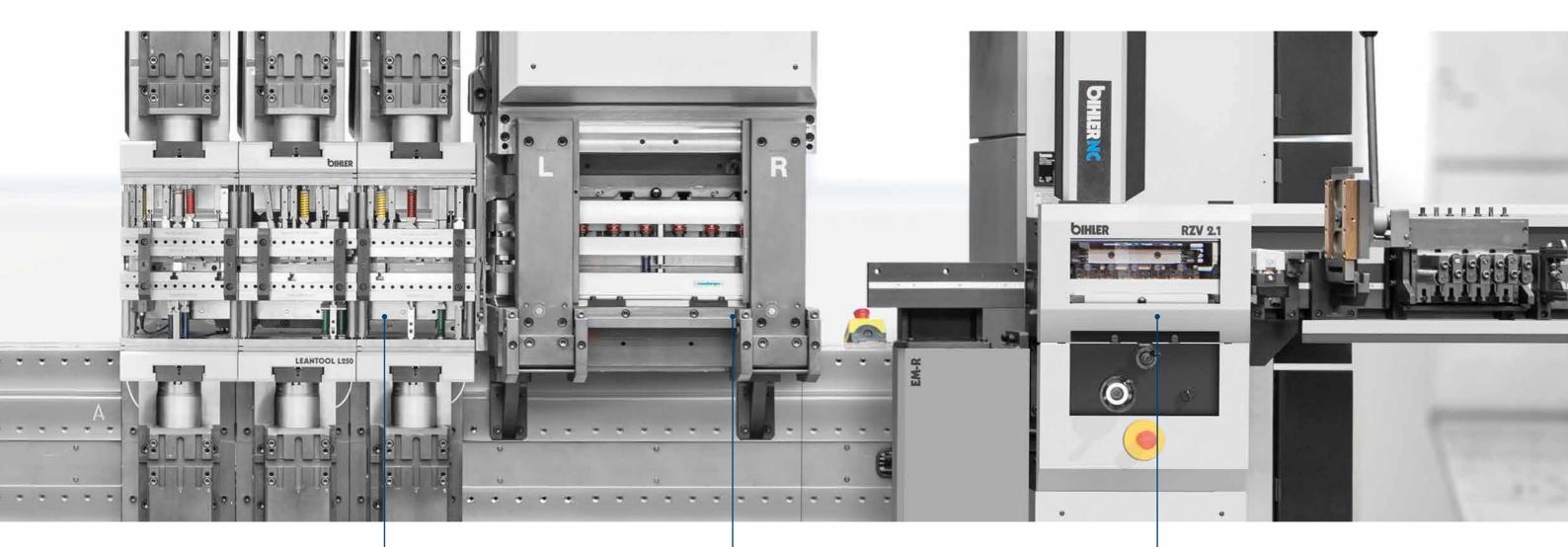
BIMERIC Modular Highlights

- Modular servo production and assembly system for flexible and efficient component and assembly production
- Standardized, pre-assembled process modules for feeding, stamping and forming
- PLUS empty slots for additional servo process modules and customized assemblies
- Fully compatible with LEANTOOL L250 linear system



BIMERIC Modular

Standardization / Modularization



Standardized process modules

The BIMERIC Modular features a modularized design of the feeding, stamping and forming processes on one console each. Each of these process modules is standardized according to the same principle and designed for 80 mm strip width. In addition, the BIMERIC Modular has so-called PLUS empty spaces. Here, further servo process modules and customized units for individual processes - especially for assembly operations - can be integrated.

The individual modules can be used flexibly according to the task at hand. This means that the servo machine can be operated with only minimal hardware configuration, for example in the form of a single forming module. If processes are expanded at a later date, the scalable machine can be cost-effectively retrofitted.

Forming module BM-L250

- Pre-assembled NC units with LEANTOOL L250 interfaces for very short tool set-up times
- Fast (max. 250 1/min. depending on travel profile) and exact execution of tool movements
- Freely programmable motion profiles
- Maximum force (31 kN) freely selectable over the entire working range
- Arbitrarily scalable and subsequently expandable
- Module length: Number of NC slide pairs x 250 mm

Stamping module PM400

- Pre-assembled 400 kN spindle press
- High cycle rates up to 250 1/min.
- Designed for standardized Meusburger SBP and SBH 400 cutting frames
- Module length: 750 mm

Feeding module EM-R

- Flexibly configurable modular system
- Standardized from material infeed from the right to the beginning of the cutting tool
- Pre-assembled feed system RZV 2.1 for highly dynamic, slip-free feeding and positioning
- Optional units: Strip guards, strip oilers, straighteners, standardized strip guide blanks
- Module length: 2,000 mm

BIMERIC Modular Servo Process Modules

Powerful servo process modules



BIMERIC Modular LEANTOOL compatibility

Flexible job scheduling

The BIMERIC Modular is fully compatible with the LEANTOOL linear tool L250. Therefore the servo machine is provided with the LEANTOOL basic equipment. The basic equipment provides the interfaces for the linear forming tool and the corresponding standard parts. The basic equipment includes tool carriers for implementing the basic tools as well as base plates for attaching the punch holders.

Besides the BIMERIC Modular is part of the new Bihler overall system. This means that if a stamped and formed part that was previously manufactured on a GRM-NC develops into an assembly during its product life cycle, the LEANTOOL forming modules can be transferred one-toone to the BIMERIC Modular and combined there with value-adding processes. In practice, the BIMERIC Modular thus ensures flexible job scheduling, reduced tooling costs, high productivity thanks to simple and fast setup of the standardized tool modules, and consistent top quality of the manufactured assemblies.



VC1 Machine and process control

Highlights of the control system

- Easy setup of the machine without external programming device
- Direct programming of the servo-controlled units via self-explanatory input mask
- Customized menu navigation for fast setting and changeover of the machine
- Multimedia diagnosis and online help system **bASSIST**
- Freely configurable production menus and user interfaces
- Integrated measured value and production data acquisition (OPC UA interface)
- Remote Service (optional)

Convenient operation

The VariControl VC 1 central machine and process control system supports you like a second man at the machine. You operate the BIMERIC Modular intuitively and safely via a swiveling terminal with touchscreen and other operating elements. The integrated bASSIST multimedia diagnostics and online help system provides a lot of useful information (videos, graphics, etc.) and allows processes to be optimized easily.



System concept Stroke rate Drive Completely servo-controlled Control system Integrated supply Material feed NC press NC units NC process modules Assembly line Machine base body Protective device

BIMERIC Modular Technical Data

Standardized modular system (individual design also possible)

max. 250 cycles/min. (depending on application)

VariControl VC 1 machine and process control system. Control cabinet with power supply unit and electronic control and monitoring system integrated in machine housing. Mobile operating unit with 15" TFT touch display, keyboard and operating elements. Machine controller with I/O bus modules for the entire machine control. Mold controller with I/O bus modules, standard 4 freely programmable modules with 8 channels each, programmable as input or output. 2 bus modules programmable with 16 inputs and 16 outputs. Press force and slide force monitoring optional

Pneumatic, hydraulic and central lubrication (depending on application)

NC radial gripper feed RZV 2.1; positioning accuracy +/- 0.02 mm

NC spindle press: max. nominal force 400 kN, stroke 4 - 60 mm

NCA-5: max. nominal force 31 kN, max. stroke 100 mm

For all applications in forming, assembly, handling and joining technology

Standardized workpiece carrier spacing 100 mm, 150 mm, 200 mm (individual travel profiles and step widths possible in this range)

Length 1,500 mm (can be combined up to 6,000 mm), width 500 mm, height 500 mm

Safety fence, personal protection or sound enclosure



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