

In a class of its own

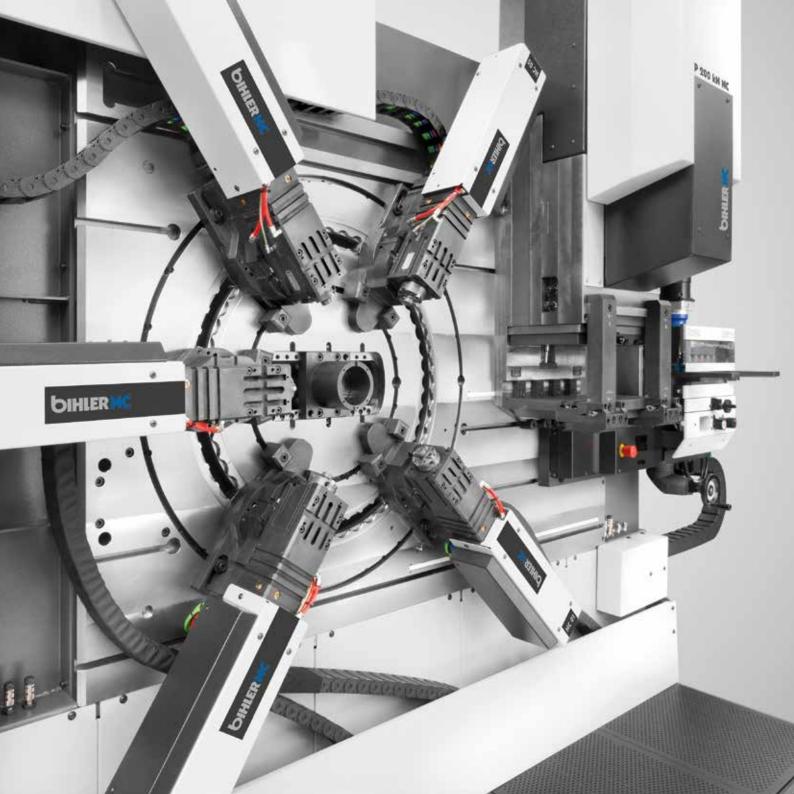
There's something quite fascinating about watching a genuine "Bihler" in action. To experience how high-precision components emerge at the end of a process from wires, strips and individual parts fed into the machine leaves you speechless from time to time.

The performance, reliability, accuracy and efficiency of a Bihler machine create the reassuring feeling of always being a step ahead of the competition. This generates freedom for new ideas – to extend the boundaries of the technically feasible a little further every day.

MACHINES "No more limits"

Selecting the correct machine is the first step to realizing your idea. The broad spectrum of Bihler machines includes different machine types tailored to suit specific manufacturing tasks: powerful stamping and forming machines, universally applicable processing centres and flexible NC production and assembly systems.

The extension and linking to complete production lines is not limited in any way thanks to their modular and open design.



STAMPING-FORMING MACHINES

- RM series / GRM series
- Multicenter MC
- Multicenter Sprint MCS



Stamping-Forming Machine RM 40K



Stamping-Forming Machine RM 40KS



Stamping-Forming Machine GRM 80E



Stamping-Forming Machine GRM 80P

PROCESSING CENTERS

- BZ 1/2
- COMBITEC
- TWINTEC



Processing Center BZ 1



Processing Center BZ 2/5-12

NC PRODUCTION AND ASSEMBLY SYSTEMS

- RM-NC
- GRM-NC
- BNC 2
- BIMERIC BM
- BIMERIC SP



NC Production System RM-NC



NC Production System GRM-NC



Stamping-Forming Machine RM 40P



Bushing Machine RM 40B



Bushing Machine GRM 80B



Multicenter MC 42



Multicenter MC 82



Multicenter MC 120



Multicenter Sprint MCS 1



Multicenter Sprint MCS 05



COMBITEC CC 1



TWINTEC



NC Production System BNC 2



NC Production/Assembly System BIMERIC BM



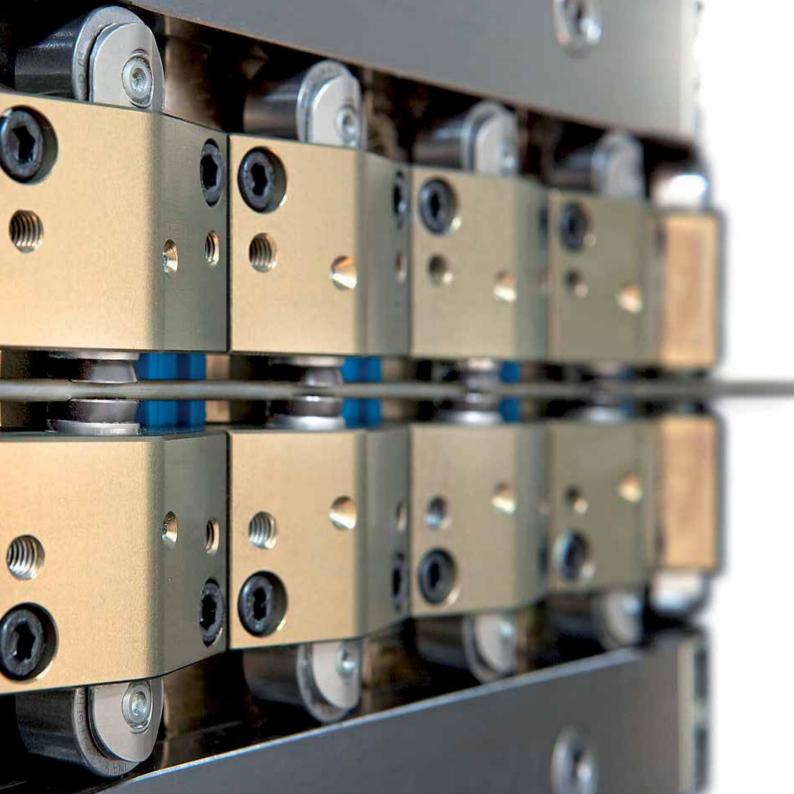
NC Production/Assembly System BIMERIC SP

PROCESS MODULES

"For greatest depth of in-house manufacturing"

When boundaries disappear, new prospects arise; new applications develop. These can be fully exploited with Bihler process modules and peripheral units. They can be integrated simply in every manufacturing concept and allow you an even greater depth of in-house manufacturing.

Irrespective of whether it is threading, screw-insertion, material or component feed, insulation removal and much more – Bihler's strength has always been the integration of as many procedures as possible on a single machine, so what was previously impossible becomes reality.



PROCESS MODULES

- Feeds
- Thread forming units GSE
- Multiple-use screw insertion unit MSE
- Pick & Place units PPE
- BihlerNC modules

PERIPHERAL UNITS

- Insulation shaving device ANC
- Reels
- Cleaning system RS
- Feeding system ZSK



Radial Gripper Feed Unit RZV 2



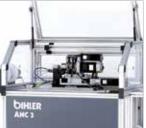
Roller Feed Unit



Screw Insertion Unit MSE 2



Pick & Place Unit PPE 2



Insulation Shaving Device ANC 3



Reels



Thread Forming Units GSE K1, K2, K3



Thread Forming Units GSE KS1, KS2



NC Lathe Mandrel



NC Team Axis



NC Units (200N - 80kN)



NC Presses NCP 150kN - 400kN



Cleaning System RS 3



Feeding Unit ZSK



WELDING TECHNOLOGY

"For solid bonds"

Reality shows it daily – a solid bond is worth its weight in gold, and especially in welding where it is a major factor contributing to success. Bihler has been providing this solid bond for more than three decades with its innovative welding devices and systems.

Bihler works purposefully and with unstinting innovative spirit that this remains also the case in the future. Permanently keeping the target in its sight to safeguard your future with highly economical high-tech systems.



WELDING SYSTEM

■ B 5000 (-NC)

CONTACT WELDING

- D1Q/D2Q/D3Q "Quickchange"
- NC contact welding units
- Silver-graphite contact welding unit

STRIP WELDING

■ BS 1

LASER WELDING

- CO₂ laser
- Solid state laser



Welding System B 5000 (-NC)



Contact Welding Units "Quickchange"



Strip Welding BS 1

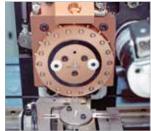


Laser Welding CO₂ Laser



Laser Welding Solid State Laser





NC Contact Welding

Silver-Graphite Contact Welding Unit

PROCESS CONTROLS

"Everything under control"

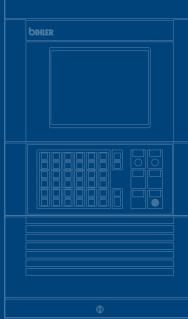
Bihler's innovative controls also guarantee your future competitiveness. They allow intuitive, user friendly handling of Bihler machines and NC axes. In addition, they provide control functions for high-speed presses and a multitude of rotary transfer and assembly machines without, in part, additional software programming.

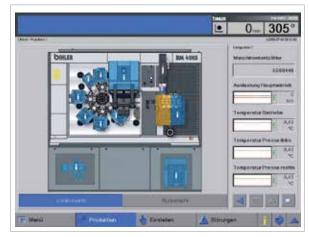
With Bihler controls everything is under control – for greatest process reliability.



CONTROLS

- VariControl VC 1
- VariControl VC 1-E





VariControl VC 1



VariControl VC 1-E



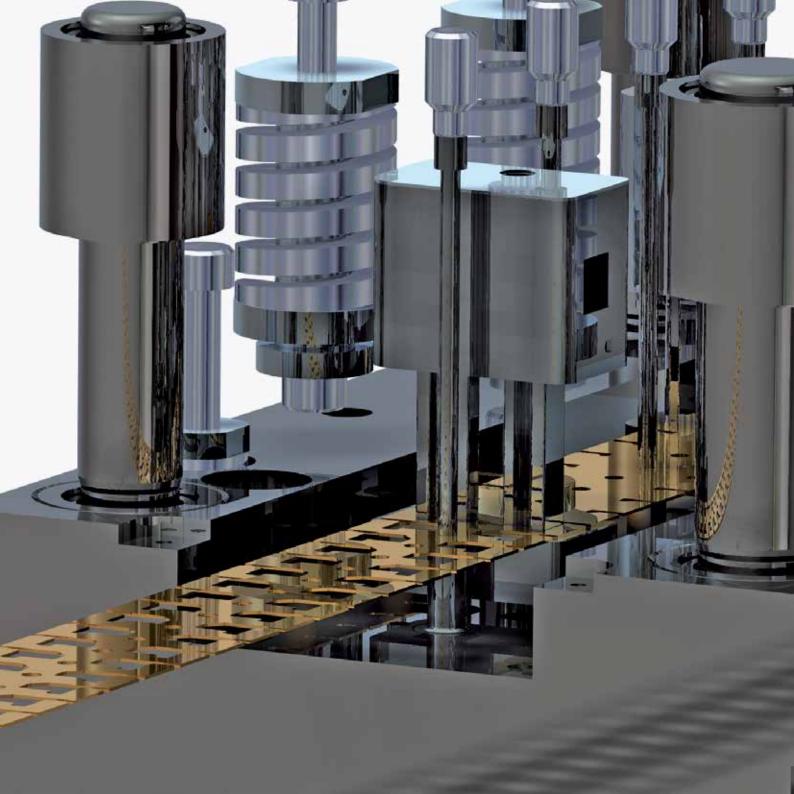
TECHNOLOGY SOFTWARE bNX

"The next Generation"

Process optimization already starts with the corresponding software. The modular Bihler technology software bNX perfectly assists you with virtual product modeling and with the development and design of Bihler blanking and bending tools.

Using the Bihler bNX technology software processes can be analyzed, configured, drafted and simulated more efficiently. The result: you can significantly reduce development times, risks and costs.





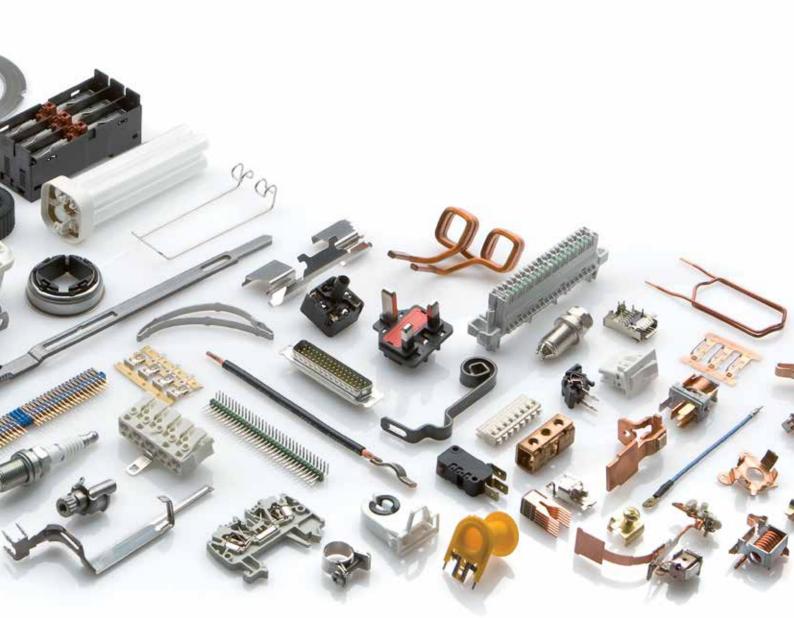
TOOLING SOLUTIONS

"Expertise born from Experience"

Bihler offers you tooling solutions perfectly designed to match your applications for economical complete processing. They fulfill every demand of progressive and flexible tool technology. Quality from a single partner based on flexibility, know-how and expertise.

Safeguard your competitive edge so that your production leads automatically to success!







TECHNICAL DATA

"All machines at a glance"

| | Stroke rate (1/min.) | Press (max. nominal force kN, stroke mm) | Forming units (max. nominal force kN, stroke mm) | max. feed length mech. (mm) | max. strip width (mm) | Central mandrel (max. nominal force kN, stroke mm) | Central aperture (WxH, mm) | Drive positions |
|----------------|-------------------------|--|--|---------------------------------|--------------------------|--|-------------------------------|-----------------|
| RM 30K | 5-350 | 90/12 | 40/40 | 240 | 60 | 20/45 | 400/122 | 26 |
| RM 40K | 5-350 | 90/12 | 60/40 | 240 | 60 | 20/45 | 400/122 | 26 |
| RM 40KS | 5-350 | 150/12 | 60/50 | 240 | 80 | 20/45 | 400/122 | 32 |
| RM 40P | 5-350 | 200/12 | 60/50 | 240 | 80 | 20/45 | 400/122 | 35 |
| RM 40B | 5-400 | 70/12 | 30/50 | 60 | 30 | 30/50 | 378/122 | 24 |
| RM-NC | 5-300 | 200/12 | 20/120 | any (NC) | 80 | 20/120 | 400/122 | |
| GRM 80B | 5-250 | 100/12 | 50/50 | 130 | 50 | 60/80 | 270/200 | 15 |
| GRM 80E | 5-250 | 300/16 | 90/95 | 500 | 80 | 35/80 | 644/200 | 32 |
| GRM 80P | 5-250 | 400/20 | 90/95 | 500 | 80 | 35/80 | 644/200 | 36 |
| GRM-NC | 5-250 | 400/60 | 40/100 | any (NC) | 90 | 40/100 | 630/200 | |
| MC 42 | 5-350 | 90/12 | 60/40 | 240 | 60 | 20/45 | 378/122 | 36 |
| MC 82 | 5-250 | 300/16 | 90/95 | 500 | 80 | 35/80 | 644/200 | 40 |
| MC 120 | 5-150 | 700/16 | 160/140 | 350 | 160 | 10/160 | 780/280 | 41 |
| MCS 1 | 5-800 | 70/8 | 30/25 | 70 | 60 | 15/45 | 400/122 | 36 |
| MCS 05 | 5-500 | 300/16 | 50/50 | 160 | 60 | 30/50 | 644/200 | 42 |
| BZ 1 | 5-100 | 300/16 | 120/95 | 500 | 160 | 18/150 | 968/320 | 42 |
| BZ 2/12 | 5-400 | 300/12 | 50/50 | 240 | 80 | 10/50 | 2646/296 | 48 |
| CC 1 | 5-200 | 800/30 | 160/140 | 500 | 160 | 20/160 | 780/280 | 27 |
| BNC 2 | 0-300 | 70/10 | 12/120 | any (NC) | 25 | 12/120 | 110/122 | |
| BIMERIC BM | 5-250 | 300/60 | 40/120 | any (NC) | | | | |
| BIMERIC SP | 5-250 | 500 (800) | 40/120 | any (NC) | | | | |
| TWINTEC (BZ 1) | 5-100 | 1600 - 3000 | 120/95 | 200 | 160 | 18/150 | 968/320 | 42 |
| | Stroke rate (1/min.) | Nominal force (kN) | Stroke adjustment (mm) | Stroke position adjustment (mm) | | Area of bolster plate (mm) | max. strip width (mm) | |
| SP 500 | 0-400 | 500 | 15-63 | 0-60 | | 1000×560 | 250 | |
| SP 800 | 0-200 | 800 | fixed stroke 30 | -8 mm from B.D.C. | | 1000×510 | 160 | |

For further information on the machines please see the respective brochures and flyers. (subject to change without notice 03/15)

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