



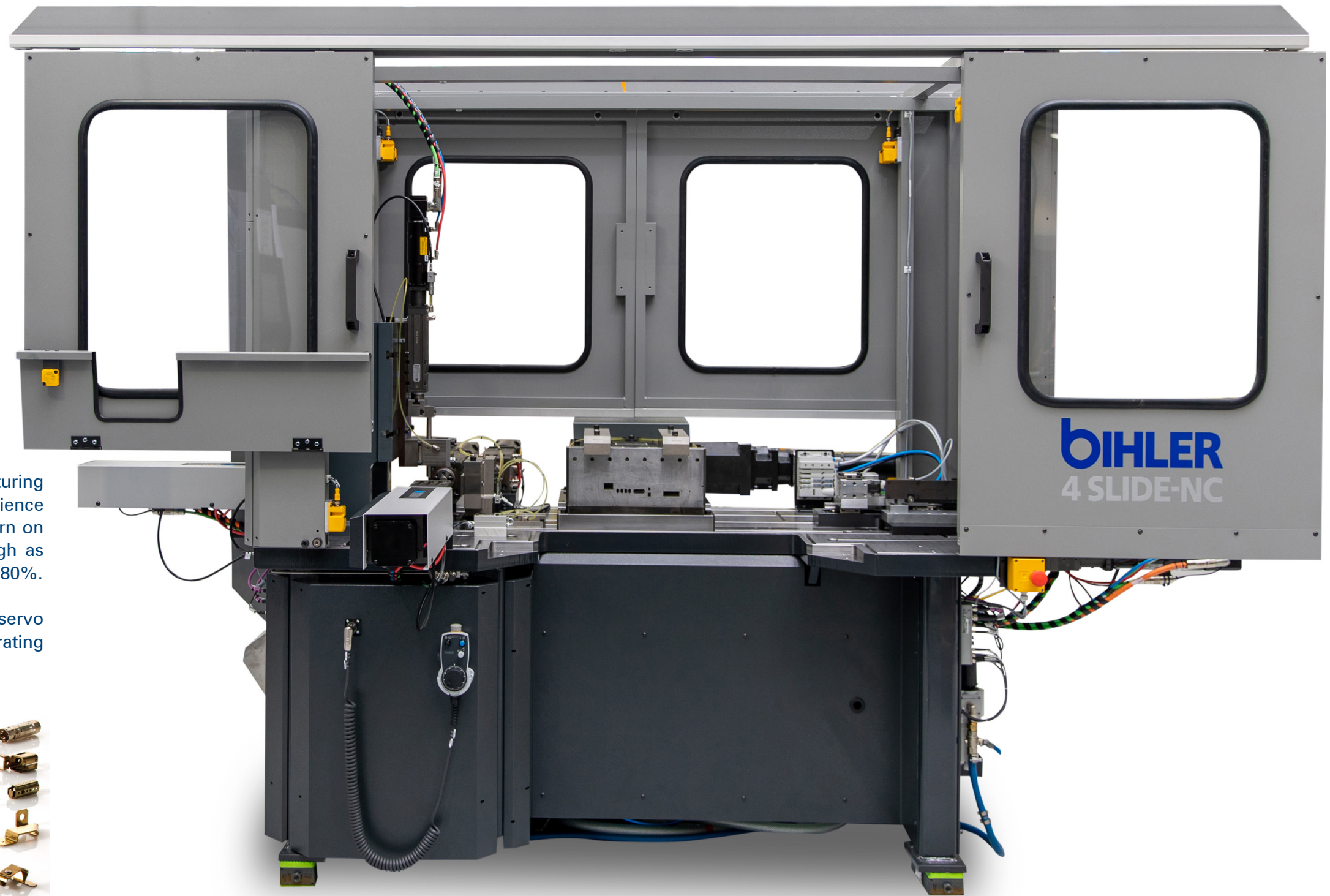
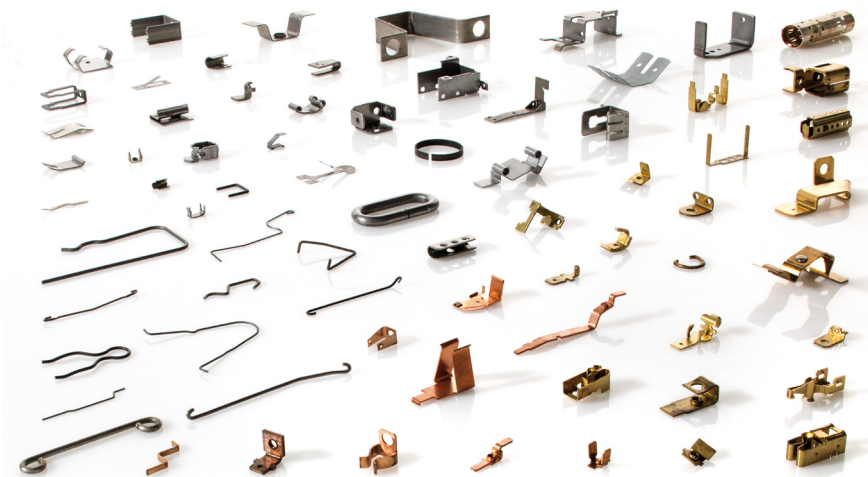
*The Future of  
Slideforming  
Technology*

**BIHLER**  
4 SLIDE-NC

# EASIER FASTER COST-EFFECTIVE

Bihler 4Slide-NC® gives you more ways to take your manufacturing to new levels of performance and profitability. You'll experience all around Return on Efficiency (ROE) and long-term Return on Investment (ROI), thanks to productivity increases as high as 50% and set-up/changeover time reduction of as much as 80%.

And because Bihler 4Slide-NC® is also compatible with non-servo systems, you'll also experience immediate ROI by incorporating 4Slide NC into your current operations.





# HIGHLIGHTS

## The New Standard in 4 Slide Manufacturing

The next-generation servo technology of the Bihler 4Slide-NC provides unmatched levels of productivity and operational efficiency, with features and benefits that include:

- Highly efficient production of strip and wire parts even in small batch sizes
- Extremely short set-up times
- 15" TFT touch screen for user-friendly operation
- Reduced tool costs and debugging time
- Full tool compatibility with select mechanical 4 slide machines
- Multiple storage for tool setups
- Integrated process and production monitoring
- Faster production speeds
- Rapid response to short-term customer requests
- Lot sizes processed in half the time



# SPECIFICATIONS

## Future Proof Technology

The Bihler 4 Slide-NC standardized control system integrates with any process module offered by Bihler. Available options include tapping, screw inserting, welding, inspection and more. With our integrated "Internet of Things" capabilities and "Instant Setup" technology, your slide manufacturing will be well prepared to handle whatever the future holds.

## Tooling Compatibility

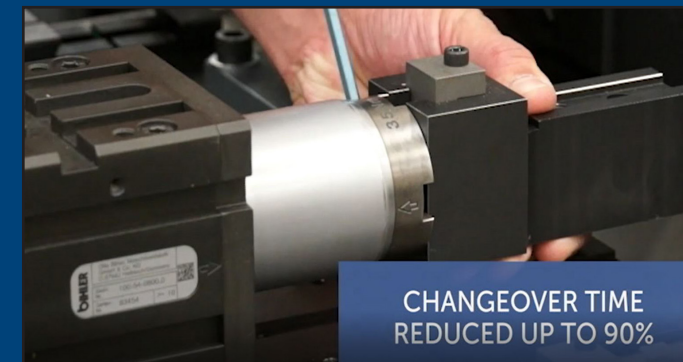
The Bihler 4Slide-NC is designed with an innovative modular concept, making it both forward thinking, efficient, and non-servo conformable. That means, with only minor replacement of parts, the Bihler 4Slide-NC can easily adapt to a wide range of non-servo 4Slide machines, and **running existing tools** on it will make your investment profitable immediately.

## BIHLER 4SLIDE-NC® SPECIFICATIONS

	(lbs/ ton/stroke)
Forming Slide	4,000/1.9/4.7" (120mm)
Cutoff slide	4,000/1.9/1.0" (120mm)
Mandrel	4,000/1.9/4.7" (120mm)
Auxiliary (optional)	1,000/4.7" (120mm)
7 Ton Press	15,000/7/0.75" (19mm)
21 Ton Press	45,000/21/0.75" (19mm)
Servo Gripper Feed	Maximum 4.7" (120mm)
Caterpillar Feed	Endless Feed (optional)
Production Speed (per minute)	Variable/0-250

Productivity  
increases as high as  
**50%**

Set-up time  
reduction as much as  
**90%**



## Instant setup

"Instant set up" is supported by a quick change tooling holder, which allows for easy, one-screw removal of the current production tool and installation of the new tool onto the servo slide. And, the Bihler VariControl VC1 controller offers smooth operation, along with the ability to program individual control and servo modules via a 15" TFT touchscreen operating panel. The VC1 controller, which stores multiple tooling programs, makes it possible to perform changeovers for part-to-part in under 30 minutes.



# VC1 MACHINE AND PROCESS CONTROL

## MACHINE AND PROCESS CONTROL

- With the VariControl VC 1, you can operate the Bihler 4Slide-NC intuitively and safely- via a swiveling touchscreen terminal to accelerate your manufacturing success.
- The control system is installed in a stand-alone control cabinet.

## ENHANCED USER INTERFACE

- Freely configurable, individually adaptable production menus and user interfaces



## NC DIRECT PROGRAMMING

- Simple, fast tool setup
- NC processing units are programmed directly via simple input screens.

## FAST SET UP

- Integrated recording of measurement and production data
- Customized menu navigation for fast setup and retooling

## ONLINE SUPPORT

- Multimedia support and online help system for tools and machine
- Remote Maintenance

## FUNCTION CHART OPTIMIZATION

- Individual and easy optimization of travel profiles for higher productivity



# SERVO PRODUCTION SYSTEM

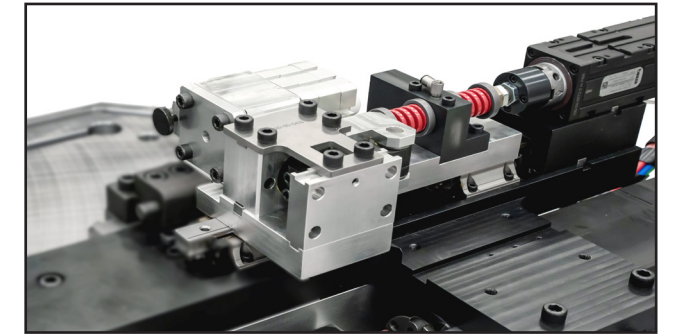
## Servo Modules

The Bihler 4Slide-NC is compatible with all of our standard servo modules- tapping, screw insertion, handling, welding, ...



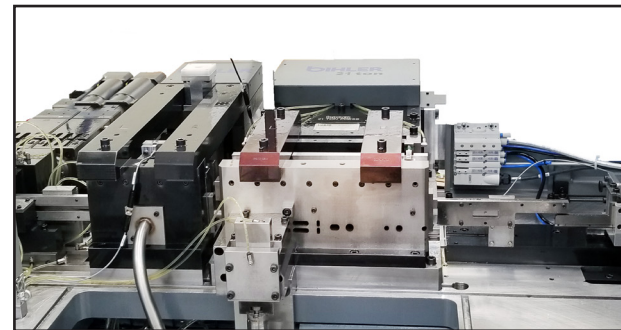
## Material Feed

Servo-controlled feed system with pneumatic or optional hydraulic grippers allows for flexible feed timing and fast changeovers



## Expanding Machine Functions

Even if the initial setup corresponds to the standard 4 slide concepts, motions can be added, moved or eliminated.



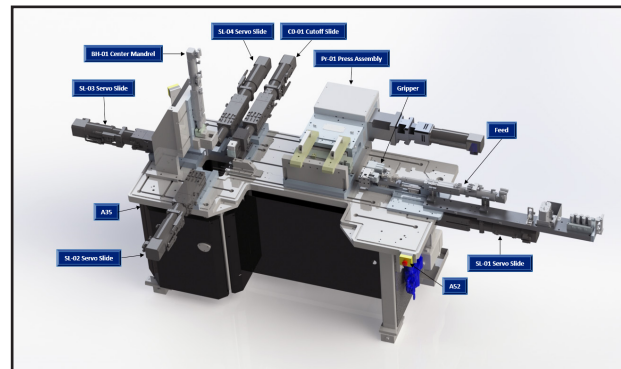
## Presses

Flexible press layout adapts to select mechanical 4 slides like Baird or Nielsen. Presses are available in 7/14/21/28 ton forces; multiple press heads can be set up



## Maximum process reliability

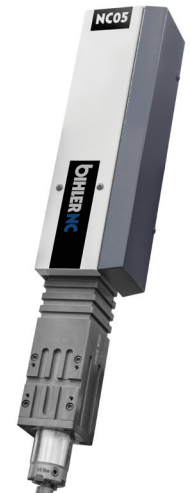
Several features of the Bihler 4Slide-NC® greatly enhance high process reliability. All units have an integrated cooling and central lubrication system. A software-integrated overload protection safeguards equipment against overload. For maximum precision, forming slides are fitted with an integrated absolute measuring system, which guarantees operation without overruns. Process-related thermal effects are fully compensated.



## Slide Units

The compact NC units offer plenty of manufacturing freedom. Working stroke, working location and motion profile are programmed freely over the entire operating range. The maximum force can be achieved at any time and in any stroke position. Forming motions can be implemented with constant force transmission. The standard NCA units have a quick release and quick-change system for tool carriers.

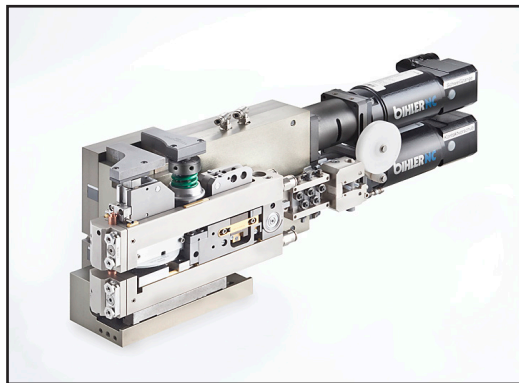
Motion profiles for the individual movements during tool changes can be performed quickly and easily without additional mechanical elements – simply by programming.



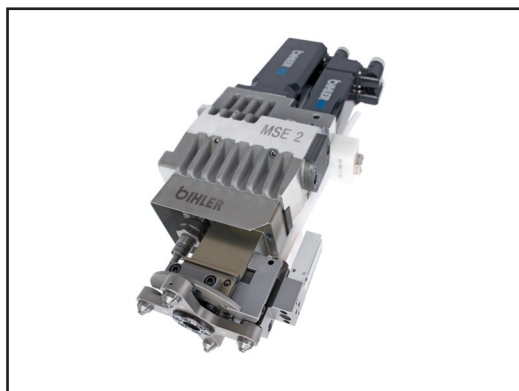


# ACCELERATE YOUR MANUFACTURING SUCCESS

Servo modules that are  
fully compatible with any of our  
NC equipment



In Line Contact Welding



Screw Insertion Unit

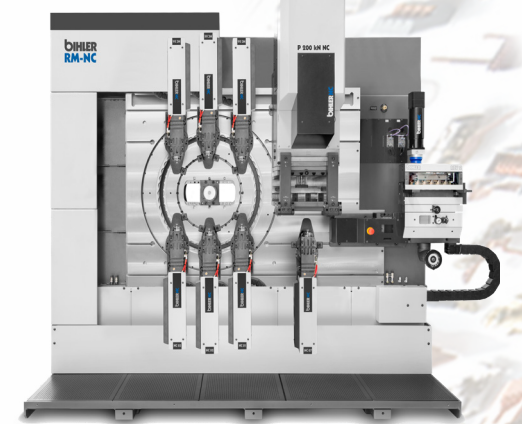


Pick and Place Parts handling

## Our Path to Success



4Slide-NC

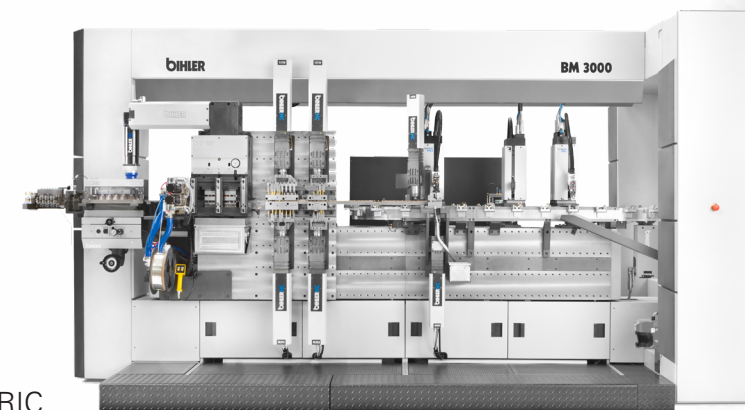


RM-NC

## Growing with Your Applications



GRM-NC



BIMERIC

# CUSTOMER SUPPORT

## First class support for your machine

To ensure efficient use and operation, Bihler 4Slide-NC offers alternative value-added consulting services and training. Our manufacturing solutions accelerate your economic success. Bihler Customer Service provides you with optimum support during the entire lifecycle of your equipment. Our solution-oriented services and products include:

Process Improvement

Control System Upgrades

Technical Support

Tool Optimization

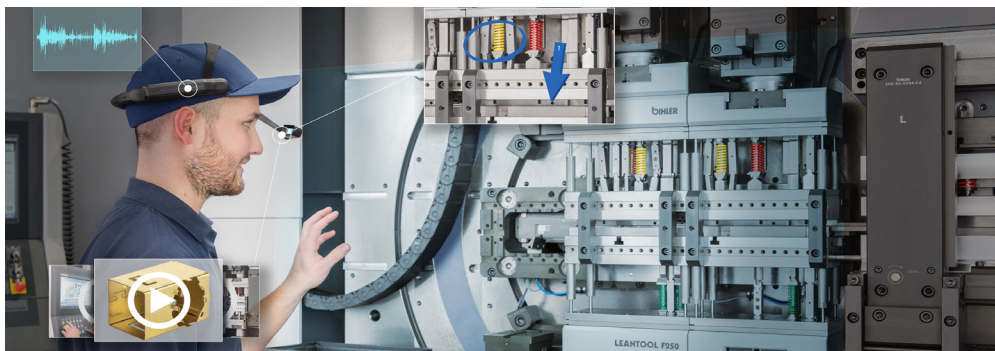
Start-Up Support

System Expansion

Tool Adaptation

Wearparts/Maintenance

## Augmented Reality Remote Service



The AR Remote Service provides a real-time audio and video feed with our service expert; this allows the Bihler 4Slide-NC team to hear and view the equipment along with your technician.

### Key Features:

- Real-time, two-way streaming of audio and video
- Ability to highlight graphically important controls or components
- Document exchange and online Documentation Database
- Online Workflows for maintenance, setup, and production

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