

SP 500

BM 1500

BIMERIC SP

Servo production system

BIHLER

BIMERIC SP

The world's most intelligent press



Simplify your production,
reduce your costs and
increase your added value.



BIMERIC SP

Servo production system

New prospects in the manufacturing of assemblies

The unique combination of servo press and BIMERIC solution platform gives you unbeatable advantages in the manufacturing of assemblies with progressive equipment. The stamped and formed parts pre-produced in the press are now further processed on the BIMERIC directly on the carrier strip and then assembled to finished assemblies. The BIMERIC platform provides plenty of room for different processes such as contact welding, tapping, screw joining and assembling.

This continuous component handling streamlines and simplifies your process chain, and ensures you achieve a consistently high product quality and save on logistics costs as well as on downstream machinery. The optimum accessibility to all stations and the latest control technology simplify adjustment and set-up work significantly. Cover a variety of assemblies with minimal set-up effort efficiently on the BIMERIC SP, even in small batches.

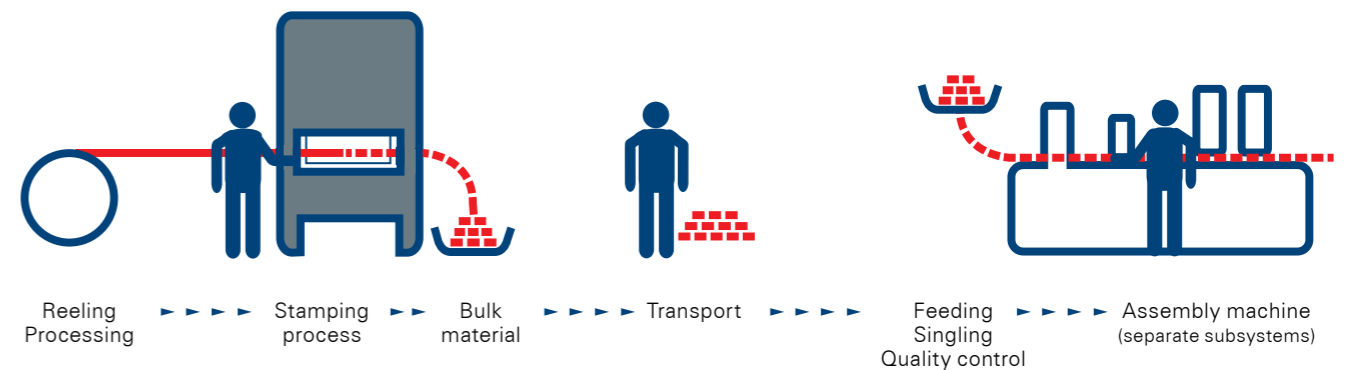


Problem: Sequential subassembly production using progressive tools

The sequential production of subassemblies using progressive tools continues to pose a major challenge. Parts stamped with the highest productivity must still be transported manually which is tedious and time consuming. In subsequent processes on other systems,

these parts are then completed, generating additional costs for logistics and quality losses. Precision assemblies provide an even greater logistical challenge. Productivity in fully automated manufacturing is therefore heavily influenced by „logistics factors“.

Conventional manufacturing process

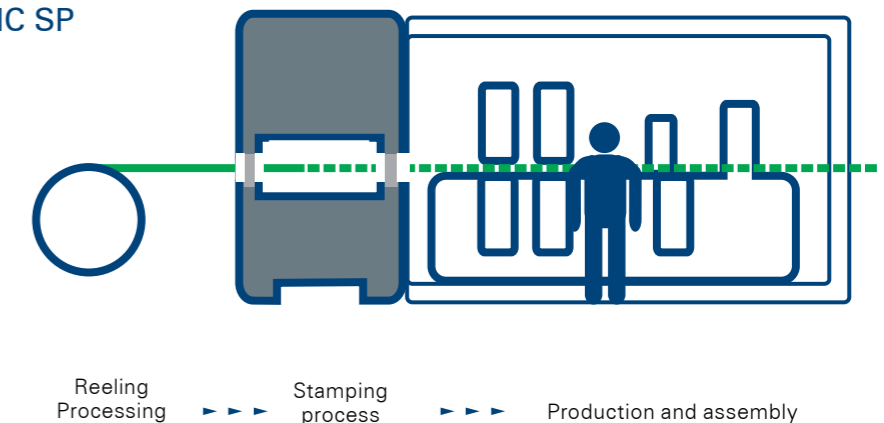


Your key to success: Complete manufacturing on one system

The BIMERIC SP Concept offers decisive advantages over standard sequential production processes with progressive dies. With an all-in-one production on one system - from semi-finished products to the finished component - you simplify your production,

reduce your costs and increase your added value. Besides, the standardized BihlerNC modular system also allows you to respond flexibly to changing demands.

Production process: BIMERIC SP



SP 500 / SP 800

Servo presses



Flexible integration of progressive dies

With the freely programmable stroke and stroke position adjustment you integrate existing or new follow-on tools in the SP 500 flexibly. For programming, you only need three values: Stroke length, feed and opening value at bottom dead center. These values are stored in the tool program and are set automatically when changing tools.

The direct drive via a highly dynamic torque motor is ideally designed for flexible movements during the forming process. Motions can be implemented from all directions. The servo press is expandable to up to 76 movements. Rapid tool change systems allow for extremely short changeover times.

100% process reliability

Various sensor systems are integrated for maximum operating safety. A dynamic retraction depth control ensures a safe punching process. It regulates the position of bottom dead center during operation across the entire speed range. Continuous measurement of values such as temperature, force, path and vibration and their comparison with stored thresholds and limiting curves prevent damage occurring to press and tools.



Technical data SP 500

Speed:	400 1/min.
Nominal force:	500 kN
Stroke range:	15 - 63 mm
Infinitely adjustable stroke pos.:	0 - 60 mm
Tool mounting plate (LxW):	1,000 x 560 mm
Opening size in BDC:	287 mm
Column opening:	max. strip width 250 mm



Technical data SP 800 (optional)

Speed:	200 1/min.
Nominal force:	800 kN
Stroke range:	Fixed stroke with 30 mm
Infinitely adjustable stroke pos.:	-8 mm from BDC
Tool mounting plate (LxW):	1,000 x 510 mm
Opening size in BDC:	324.5 mm
Column opening:	max. strip width 160 mm

(See brochure BIMERIC BM for all technical data)

VC 1

Machine and process controller

Highlights of VC 1

- Easy, flexible machine setup without external programming device
- Customized menu-driven entry for fast setup and retooling
- Multimedia diagnostics and online help system bASSIST
- Freely configurable, individually adaptable production menus and user interfaces
- Integrated recording of measurement and production data
- Visualized setup procedures with image and video sequences

VariControl Central control system

The BIMERIC SP stand-alone system and all process modules are easily and safely controlled via the VariControl VC 1 central machine and process control unit.



ALL FROM A SINGLE SOURCE

The right modules for every application

BihlerNC Technology gives you the ability to customize your BIMERIC SP for your applications. Our modular NC system makes this quick and easy. It offers a comprehensive portfolio of process modules for all applications of forming, assembly, handling and joining technology.



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