



# BC R

## Bihler Control Retrofit

Modernize your machinery

## Cost-effective and fast realization

The cost-effective upgrade and retrofit package for your existing machine(s) consists of our new BC R control system and new machine components. Bihler Service experts will retrofit your machine at your site and install the BC R control system. After the BC R Retrofit, your machine including the new control system will be up to date and will have full spare parts support.

Your machine meets the current safety standards and is optionally network-compatible for the digital age. Additional features such as simple and clear operation of the control system, monitoring functions, handwheel operation for precise and fine adjustment of tool movements and much more now make your machine even more productive.



BC R control system

Your machine

## New components for your machine

To ensure you benefit from all advantages of the BC R control system, the machine must be equipped with various new features. These are included in the basic package. In addition, you can select further optional new features. Overview of the most important machine components:



New frequency-controlled drive  
– continuously adjustable



Freely programmable input and  
output modules



Lubrication point sensor for  
monitoring bull gear lubrication



New central lubrication  
(optional)



New hydraulics  
(optional)



New interface(s) for connecting  
peripheral devices

## Three steps to machine modernization



1  
Delivery of all  
components

2  
Bihler Service retrofits  
the machine at your  
site

3  
Commissioning and  
acceptance

Your production is  
state-of-the-art again

## Highlights at a glance

- Cost-effective and fast realization
- Conversion time approx. 1 week
- Conversion takes place at your site
- Customized range of functions for continuous operation
- Latest safety standards for machines and personnel
- Higher machine availability and guaranteed spare parts support



### User friendliness

Intuitive operation and convenient handling with 12" touch display and simple operator menu.



### Guaranteed spare parts supply

The BC R upgrade components as well as all control system components are state-of-the-art.



### Maximum safety for your machine

Lubrication point sensors and press safety valve are linked to the control functions and are monitored.



### Latest safety standards

The latest safety technology (PNOZmulti) controls and monitors all machine safety functions.



### Status display via signal lamp

Fast detection of up to four states (e.g. machine stop, refill requirement, etc.).  
(optional)



### Valve bank

to control pneumatic cylinders with 8 double-acting solenoid valves, can be freely positioned at the machine  
(optional)



### OPC UA Interface

Transfer of machine statuses to a MES system (e.g. parts counter, machine status, etc.)  
(optional).



### Remote Service

The secure connection for communication between the machine and Bihler Service guarantees perfect support  
(optional).



### Electronic handwheel

Allows synchronous tool movements as accurate as 0.01° for easy and precise tool setup.



## Basic package

- Bihler Control Retrofit (BC R) process control system with 12" touch display
- Control cabinet and basic electrical equipment with 4 door switches
- Conversion kit main drive with accessories and guard plates
- Rotary encoder with mounting flange
- Two-channel press safety valve for safe control of the pneumatic clutch
- Lubrication point sensor for monitoring bull gear lubrication
- Electronic handwheel with hand terminal HT 1
- Machine and tool control system
- Standard interface for reel (400 V, emergency stop)

## Options

- Modernization of central lubrication and/or pneumatics
- Hydraulic conversion kit (Maximator) (if installed)
- Clutch NEW
- Roller chain NEW (if installed)
- Valve bank (with eight 5/3 way valves) to control cylinders
- End-of-material shutdown
- Second lubrication circuit
- Extension 400 V for second reel or other additional unit
- Extension 230 V (socket in control cabinet and at the machine)
- Remote service
- OPC UA
- Interface for conveyor and/or industrial extractor
- Additional door switch (e.g. for maintenance flap)
- Adapter loop line
- Individual cable installation / longer cables
- Conversion to LED lighting
- Conversion set to push-button door switch (only for Bihler soundproof cabins)
- Signal lamp (double RGB with 4 states)

## Available for

- RM Series: RM-30 / RM-35 / RM-40
- GRM Series: GRM-50 / GRM-80 / GRM-100
- Mach Series: Mach-1 / Mach-1/7 / Mach-05



## Contact



**Bastian Hartmann**  
Sales Customer Support  
+49(0)8368/18-296  
bastian.hartmann@bihler.de



**Hubert Werner**  
Technical Sales  
+49(0)8368/18-366  
hubert.werner@bihler.de



Otto Bihler Maschinenfabrik GmbH & Co. KG

Lechbrucker Str. 15

87642 Halblech

GERMANY

+49(0)8368/18-0

[aftersales@bihler.de](mailto:aftersales@bihler.de)

[www.bihler.de](http://www.bihler.de)