

BuhlEx S.

Complete.
Buhler Cell.

Peripheral
equipment.



Extraction units with stand-alone control systems.

The reliable extraction unit in two sizes for flexible application with Buhler die casting machines.

The rugged and straightforward design of these units contributes to the high uptime of die casting cells. The use of servo-technology enables high-accuracy picking of the die casting components. A purpose-designed control system of type Dat@net S allows flexible application of BuhlEx S extraction units on all Buhler machines equipped with Data@cess, Data@speed, and Dat@fit control systems. Possible interface adjustments will enable BuhlEx S units to be applied also on non-Buhler die casting machines.

Features of BuhlEx S units:

- Short extraction times.
- Adjustable installation height.
- Programming of movements on the touch-screen of the control panel.
- Graphic user guidance as with Dat@net.
- Extensive diagnostics.
- Absolute encoders eliminate the need for referencing during starting, making the system ready for service within a shorter time.
- Shorter cycle times thanks to servo-technology allowing free programming of velocities.
- Three fixed basic programs.
- Waiting position can be programmed as required.
- Picking of the cast components, transverse travel, and swiveling are effected pneumatically and allow positioned placing.
- Installation is possible on the operator's side and the rear of the die casting machine.
- Consistent use of the identical servo-technology in all Buhler peripherals reduces spare parts inventory costs.

As an option, a parts detector is available with up to 16 sensors.



Technical data – BuhEx S. Extractor – Models 1 + 2.

Technical data	BuhEx S 1	BuhEx S 2
Number of axes	3	3
Extraction weight (gripper and casting) kg	3	6
Extraction weight at reduced speed (gripper and casting) kg	6	15
Maximum range of action (mm)	1260	1725
Drive	Electropneumatic	Electropneumatic
Installed power (kW)	4	4
Dimensions without gripper and cast part		
Length (mm)	1060	1170
Width (mm)	1000	1300
Height (mm)	1270 – 1720	1830 – 2280
Weight (kg)	650	730

Control system

Type:

Dat@net S

Control system:

KEBA Kemro K2 HMI
Graphic display screen (touch-screen) and operator terminal

Interface with DCM:

Digital

Dimensions of control cabinet:

600 × 500 × 2200 mm (L/W/H)

Can be applied

on Buhler die casting machines with Datacess or Dat@fit control systems

	H-160	H-250	H-400	H-630	H-800	H-1100
BuhEx S 1						
BuhEx S 2						

on Buhler die casting machines with Dat@speed control systems

	26	34	42	53	66	84	84L	105	105L	120	140	140L
BuhEx S 1												
BuhEx S 2												

Suitable

Suitable under certain conditions

With possible interface adjustments, BuhEx S units can also be applied on non-Buhler die casting machines.

Program steps of the three selectable programs

Program 1	Program 2	Program 3
<ol style="list-style-type: none"> 1. Move in, close gripper 2. Ejector forward and transverse travel – relieved ejector in forward position – transverse travel with full power 3. Move out 	<ol style="list-style-type: none"> 1. Move in 2. Transverse travel to casting, close gripper 3. Ejector forward and transverse travel – relieved ejector in forward position – transverse travel with full power 4. Move out 	<ol style="list-style-type: none"> 1. Move in, ejector forward, ejector in forward position 2. Transverse travel to casting, close gripper 3. Transverse travel 4. Move out