

BuhlRob. Robot.

Complete.
Buhler Cell.

Peripheral
equipment.



Integration to the meaningful extent!

Robots for Buhler die casting cells.

The rugged construction of the proven ABB robots constitute the basic equipment of the BuhlRob systems. All units of Foundry Plus Version ensure trouble-free service of the cell in demanding everyday foundry operations.

Customer benefit through partial integration with the Dat@net control system:

- Setup is based on the same operating philosophy, eliminating additional training costs.
- All messages and alarms required for operating the casting cell are available at the HMI of the Dat@net system.
- The robot is controlled during operation from the operator terminal of the die casting machine.
- The diagnostic options of Dat@net are available for the robot system.
- Compensation movements by monitoring of the biscuit thickness prevent collisions during component extraction and therefore interruptions of operation.

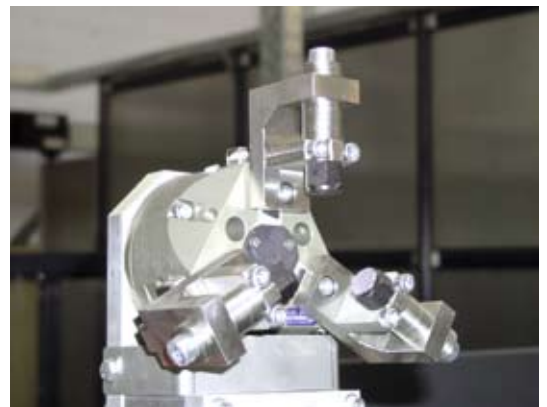
The following are standard programs:

- Extraction by biscuit gripper and checking for completeness.
- Component cooling in the cooling bath and depositing in the press and/or discharge to the chute.
- Functions or interfaces such as insertion, preheating, washing, etc. are additionally available.

Completely assembled equipment and complete programming are standard. This reduces start-up times.

The robot is supplied directly by ABB. The additional Buhler equipment is attached on site.

The cast components are extracted using a rugged biscuit gripper. It can be applied for different diameters. Special contour gripper solutions are possible.



Technical data – BuhlRob.

Robot – Model 2400F / 16-1.5. + 4600F / 45-2.05.

BuhlRob. Model 2400F / 16-1.5

Technical data	
Number of axes	6
Handling weight (gripper and load)	16 kg
Maximum reach	1550 mm
Programming	RAPID
Connected power	4.5 kVA
Interference contour robot (no gripper and load) (radius)	448 mm
Robot weight	380 kg
Dimensions of control cabinet (LWH)	725 × 710 × 970 (1370) mm



Application of BuhlRob 2400F / 16-1.5

Evolution	26	34	42	53
	*300	*300	*300	*600

BuhlRob. Model 4600F / 45-2.05


Technical data	
Number of axes	6
Handling weight (gripper and load)	45 kg
Maximum reach	2050 mm
Programming	RAPID
Connected power	7.8 kVA
Interference contour robot (no gripper and load) (radius)	400 mm
Robot weight	425 kg
Dimensions of control cabinet (LWH)	725 × 710 × 970 (1370) mm



Application of BuhlRob 4600F / 45-2.05

Evolution	34	42	53	66	84	90
	*100	*100	*300	*500	*600	*600

 Suitable

 Suitable under certain conditions

* Base height in mm

Technical design and data subject to change without notice.

Technical data – BuHiRob.

Robot – Model 4600F / 40-2.55. + 6640F / 185-2.8.

BuHiRob. Model 4600F / 40-2.55

Technical data	
Number of axes	6
Handling weight (gripper and load)	40 kg
Maximum reach	2550 mm
Programming	RAPID
Connected power	7.8 kVA
Interference contour robot (no gripper and load) (radius)	400 mm
Robot weight	440 kg
Dimensions of control cabinet (LWH)	725 × 710 × 970 (1370) mm



Application of BuHiRob 4600F / 40-2.55

Evolution	53	66	84	84L	90	90L	105	105L
	*300	*300	*400	*400	*400	*400	*500	*500
Carat	105	105L						
	*500	*500						

BuHiRob. Model 6640F / 185-2.8

Technical data	
Number of axes	6
Handling weight (gripper and load)	185 kg
Maximum reach	2800 mm
Programming	RAPID
Connected power	13 kVA
Interference contour robot (no gripper and load) (radius)	645 mm
Robot weight	1350 kg
Dimensions of control cabinet (LWH)	725 × 710 × 970 (1370) mm



Application of BuHiRob 6640F / 185-2.8

Evolution	84	84L	90	90L	105	105L	140	140L	180	180L	220	220L	270	270L	320	320L	420	
	*0	*0	*0	*0	*200	*200	*300	*300	*400	*400	*600	*600	*800	*800	*1000	*1000	*1000	
Carat	105	105L	130	130L	140	140L	160	160L	180	180L	200	200L	220	220L	250	250L	280	280L
	*300	*300	*400	*400	*400	*400	*500	*500	*500	*500	*700	*700	*700	*700	*800	*800	*800	*1000
	320	320L	350	350L	400	440												
	*1000	*1000	*1000	*1000	*1000	*1000												

Suitable
 Suitable under certain conditions
 Track motion required
 * Base height in mm

Technical design and data subject to change without notice.

Technical data – BuhlRob.

Robot – Model 6640F / 130-3.2. + 7600F / 150-3.5.

BuhlRob. Model 6640F / 130-3.2

Technical data	
Number of axes	6
Handling weight (gripper and load)	130 kg
Maximum reach	3200 mm
Programming	RAPID
Connected power	13 kVA
Interference contour robot (no gripper and load) (radius)	645 mm
Robot weight	1370 kg
Dimensions of control cabinet (LWH)	725 × 710 × 970 (1370) mm



Application of BuhlRob 6640F / 130-3.2

Evolution	140	140L	180	180L	220	220L	270	270L	320	320L	420									
	*300	*300	*400	*400	*600	*600	*800	*800	*1000	*1000	*1000									
Carat	140	140L	160	160L	180	180L	200	200L	220	220L	250	250L	280	280L	320	320L	350	350L	400	440
	*400	*400	*500	*500	*500	*500	*700	*700	*700	*700	*800	*800	*800	*800	*1000	*1000	*1000	*1000	*1000	*1000


BuhlRob. Model 7600F / 150-3.5


Technical data	
Number of axes	6
Handling weight (gripper and load)	150 kg
Maximum reach	3500 mm
Programming	RAPID
Connected power	13 kVA
Interference contour robot (no gripper and load) (radius)	700 mm
Robot weight	2500 kg
Dimensions of control cabinet (LWH)	725 × 710 × 970 (1370) mm




Application of BuhlRob 7600F / 150-3.5

Evolution	270	270L	320	320L	420					
	*600	*600	*800	*800	*1000					
Carat	250	250L	280	280L	320	320L	350	350L	400	440
	*600	*600	*600	*600	*800	*800	*800	*800	*1000	*1000

 Suitable

 Suitable under certain conditions

 Track motion required

* Base height in mm

Technical design and data subject to change without notice.

Bühler Druckguss AG
 CH-9240 Uzwil, Switzerland
 T + 41 71 955 12 12
 F + 41 71 955 25 88
 die-casting.info@buhlergroup.com
 www.buhlergroup.com

