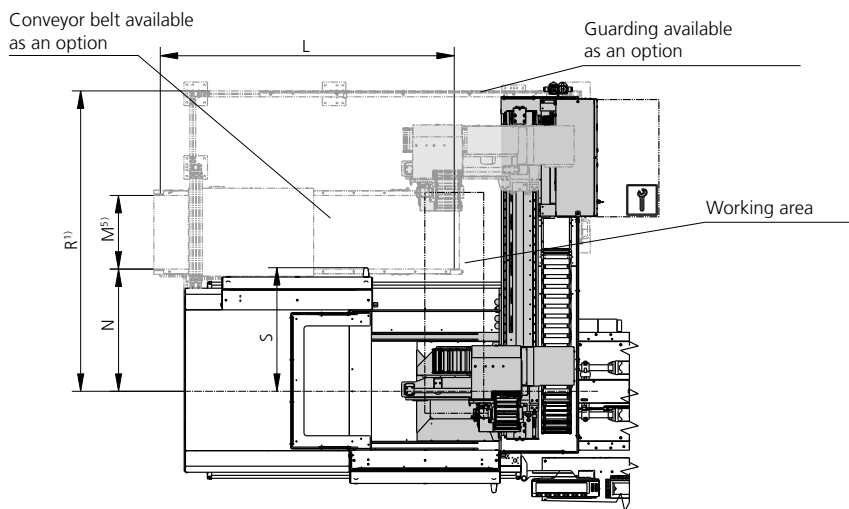
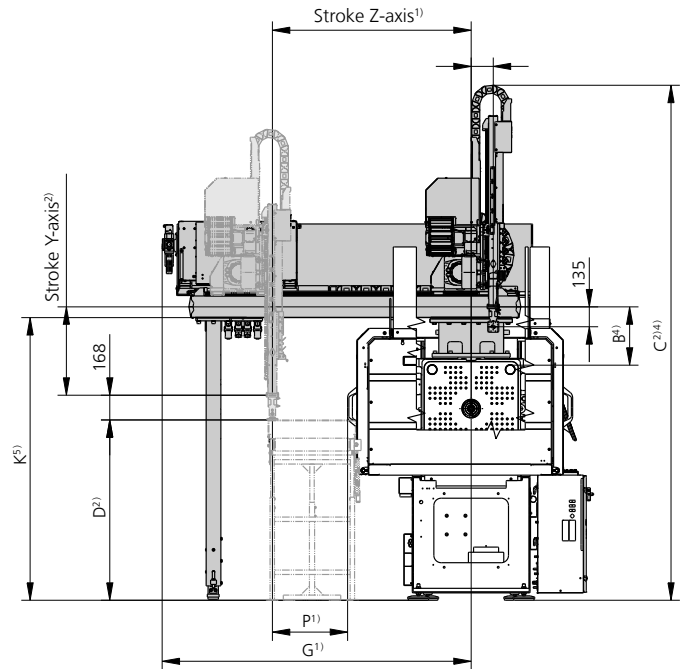
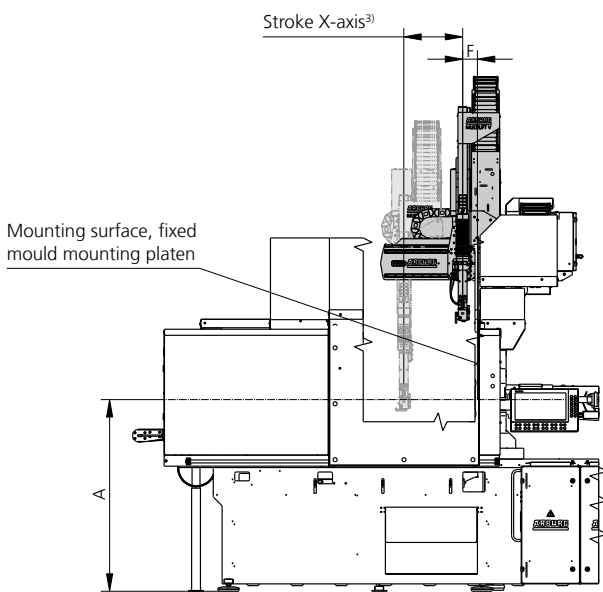


MULTILIFT V 10

Machine size: 270-570
Handling weight: 10 kg

ARBURG

TECHNICAL DATA | MULTILIFT V 10



- 1) Stroke extension for Z-axis available as an option
- 2) Stroke extension for Y-axis available as an option
- 3) Stroke extension for X-axis available as an option
- 4) Overhead clearance can be increased by 200 mm as an option
- 5) Wider conveyor belt possible in conjunction with extension of the Z-axis

TECHNICAL DATA | MULTILIFT V 10

Machine type	Dim. A	Dim. B ¹⁾	Dim. C ²⁾	Dim. D	Dim. E	Dim. F	Dim. G	Dim. K ¹⁾	Conveyor belt	
	mm	Standard mm	Standard mm	Standard mm	max. mm	min. mm	Standard mm	mm	Dim. L mm	Dim. M ³⁾ mm
270 A / H	1220	496	3410	1128	50	100	1700	1820	1500	400
270 S	1170	496	3360	1078	50	100	1700	1770	1500	400
370 A / H / S / E GOLDEN ELECTRIC	1220	431	3400	1118	100	100	1900	1815	2000	400
470 A / H / S / E GOLDEN ELECTRIC	1300	396	3500	1225	150	100	2100	1920	2000	500
520 A / H / S / E GOLDEN ELECTRIC	1350	401	3680	1117	200	100	2050	2010	2500	500
570 A / H / S / E GOLDEN ELECTRIC	1410	444	3820	1260	200	100	2300	2150	2500	600

Maschinentyp	Dim. N	Dim. P	Dim. R	Dim. S	FB-height
	mm	Standard mm	Standard mm	mm	
270 A / H	680	390	1700	560	1100 ±200
270 S	680	390	1700	560	1100 ±200
370 A / H / S / E GOLDEN ELECTRIC	750	450	1860	760	1100 ±200
470 A / H / S / E GOLDEN ELECTRIC	830	510	2040	840	1100 ±200
520 A / H / S / E GOLDEN ELECTRIC	820	460	1980	840	1100 ±200
570 A / H / S / E GOLDEN ELECTRIC	920	610	2290	940	1100 ±200

1) Crossing height can be increased by 200 mm as an option

2) The dimension is increased by half a stroke extension in the case of an optional telescopic version of the Y-axis

3) Wider conveyor belt possible in conjunction with extension of the Z-axis

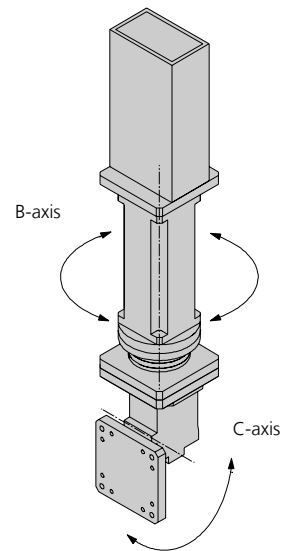
TECHNICAL DATA | MULTILIFT V 10

Main axes

Machine type	Handling weight ⁵⁾ max. kg	Z-axis			Y-axis			X-axis			Weight Robot Standard kg
		Stroke		Speed	Stroke		Speed	Stroke		Speed	
		Standard mm	Extended ^{*)} max. mm	max. mm/s	Standard mm	Extended ^{*)} max. mm	max. mm/s	Standard mm	Extended ^{*)} max. mm	max. mm/s	
270 A / H / S	10	1000	2000	3000	600	800	4000	400	600	2000	430
370 A / H / S	10	1250	2500	3000	600	800	4000	400	600	2000	450
470 A / H / S	10	1500	3000	3000	600	1000	4000	400	600	2000	475
520 A / H / S	10	1500	3000	3000	800	1200	4000	400	600	2000	485
570 A / H / S	10	1750	3000	3000	800	1200	4000	400	600	2000	520

Auxiliary axes (gripper axes)

C-axis, pneumatic		C-axis, servo-electric ^{*)}		B-axis, pneumatic ^{*)}		B-axis, servo-electric ^{*)}	
Torque ⁴⁾	Weight	Torque	Weight	Torque ⁴⁾	Weight	Torque	Weight
Nm	kg	Nm	kg	Nm	kg	Nm	kg
14	1,2	18	2,2	10	2,5	18	2,0



*) Optional

4) Gripper plus part weight plus weight of auxiliary axes (B, C axis)

5) At 6 bar pressure level

EQUIPMENT | MULTILIFT V 10

The requirement for use of the design MULTILIFT V with a load capacity of 10 kg is an ARBURG ALLROUNDER.

Axes

- Main axes with servo-electric drive for rapid, simultaneous movements with a high repeat accuracy
- C-axis with pneumatic drive for rotating the finished parts
- C-axis with servo-electric drive for rotating the finished parts
- B-axis with pneumatic drive for setting down the finished parts in two different rotational positions
- B-axis with servo-electric drive for setting down the finished parts in any rotational position

Pneumatic valves for grippers

- Pneumatic valve for actuating gripper functions, such as grippers, gripper jaws, cylinders, lifting and indexing units (see additional information):
 - 1 with blocked intermediate position (5/3)
- Additional pneumatic valves (maximum 17) in any combination of the following versions (see additional information):
 - with blocked intermediate position (5/3)
 - with vented intermediate position (5/3)
 - with spring return movement (2 x 3/2)
- All pneumatic valves connected to the gripper flange with rapid connect couplings

Vacuum equipment for grippers

- Vacuum unit (venturi effect) for parts handling with suction devices

- Additional vacuum equipment (maximum 7)
- All vacuum equipment connected near the gripper. Including vacuum switches for parts monitoring
- Air blow function for reliable part transfer
- Air saving function

Pneumatic maintenance unit

- Manually adjustable filter pressure reducer for adjusting the pressure level
- Monitoring of the pressure level
- Electric on/off function
- Pressure-charging valve for reliable start-up
- Distributors for supplying other consumers

Control system

- Sequence programming with symbols via SELOGICA. Teach-in function for user-friendly sequence programming
- Display selection via function and direct access keys
- Cycle step display in sequence diagram
- Robot system can be moved in units analogous to the cycle sequence
- Three different speeds can be selected in manual mode for fast and reliable programming. Axes can be moved progressively or incrementally (0.1 mm, 1 mm or 10 mm)
- Programmable sequence branches for reliable separation of random samples, rejects and sprues
- Data record for robotic system integrated in data record for injection moulding machine
- Synchronous movements of robotic system with ejector and mould opening movement
- Interface between robotic system

and injection moulding machine

- Port for PC keyboard
- ARBURG Mobile SELOGICA (AMS) for easy and flexible operation

Inputs/outputs for grippers

- Interface with 8 freely programmable inputs for monitoring sensors for gripper functions. All inputs connected to plugs, including counterplugs
- Additional interfaces (maximum 3) for monitoring 8, 16 or 24 further sensors
- Freely programmable outputs for actuating pneumatic valves for gripper functions. All outputs directly connected to pneumatic valves

Inputs/outputs for peripherals

- Interface (24V DC) with 4 freely programmable inputs and outputs for peripherals. Connected to 42-pin connector on MULTILIFT, including counterplug
- Additional interface (24V DC) with 4 freely programmable inputs and outputs. Connected to 42-pin connector on MULTILIFT, including counterplug
- Additional interface (24V DC) with 16 or 32 freely programmable inputs and outputs. Connected to 72-pin connector on MULTILIFT, including counterplug

Guards

- Electrical equipment for protecting one door within the guard fence according to EUROMAP 73, including the following:
 - 2 emergency stop buttons
 - 1 acknowledge button
 - 3 switches for door
- Electrical equipment for protecting a second door

- Guard in transparent PC for housing the robot system
- Corrugated wire mesh guard for housing the robot system

Additional options

- Conveyor belt for setting down parts, including interface, expandable to include clear button

Additional information

- Pneumatic valve 5/3 with blocked intermediate position for gripper functions, the position of which should be maintained when not actuated, for example, if the safety guard is open, EMERGENCY STOP
- Pneumatic valve 5/3 with vented intermediate position for gripper functions, which should be depressurised when not actuated, in order to ensure part-protecting transfer via the machine-side ejector, for example
- Pneumatic valve 2x 3/2 with spring return for gripper functions with spring return movement, for example, with sprue grippers or single-acting pneumatic cylinder

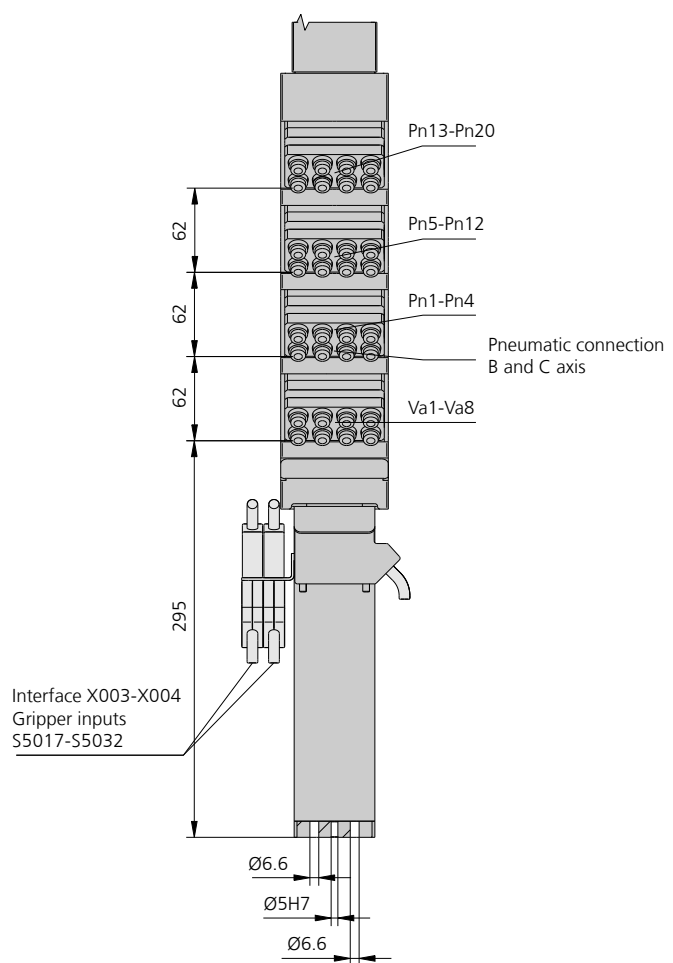
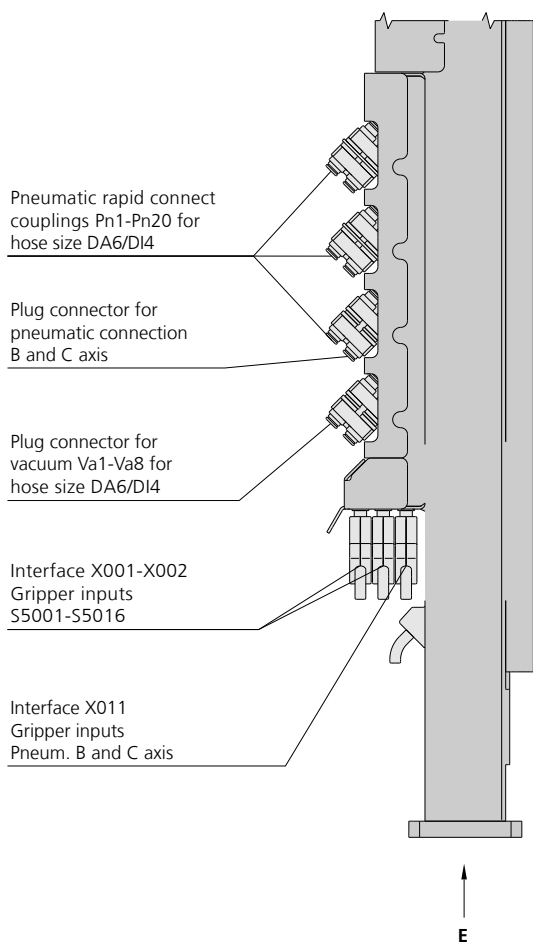
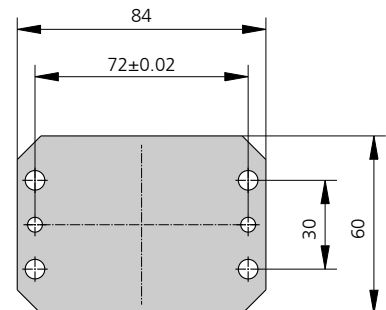
■ Basic machine

○ Optional

GRIPPER ADAPTATIONS | MULTILIFT V 10

Assignment interface X001 gripper inputs S 5001 - S 5008					
Pin no.	Function	Designation	Pin no.	Function	Designation
1	S 5001		14	S 5005	
2	+ 24 V	Gripper input 1	15	+ 24 V	Gripper input 5
3	GND		16	GND	
4	S 5002		17	S 5006	
5	+ 24 V	Gripper input 2	18	+ 24 V	Gripper input 6
6	GND		19	GND	
7	S 5003		20	S 5007	
8	+ 24 V	Gripper input 3	21	+ 24 V	Gripper input 7
9	GND		22	GND	
10	S 5004		23	S 5008	
11	+ 24 V	Gripper input 4	24	+ 24 V	Gripper input 8
12	GND		25	GND	
13	PE				

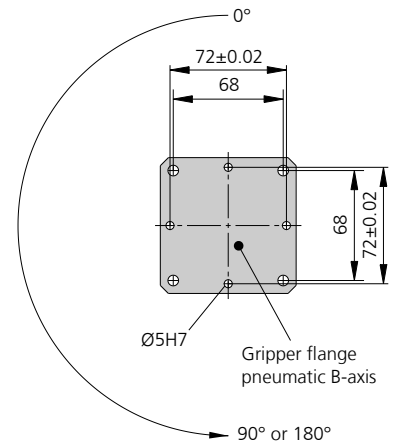
Detail E, gripper flange



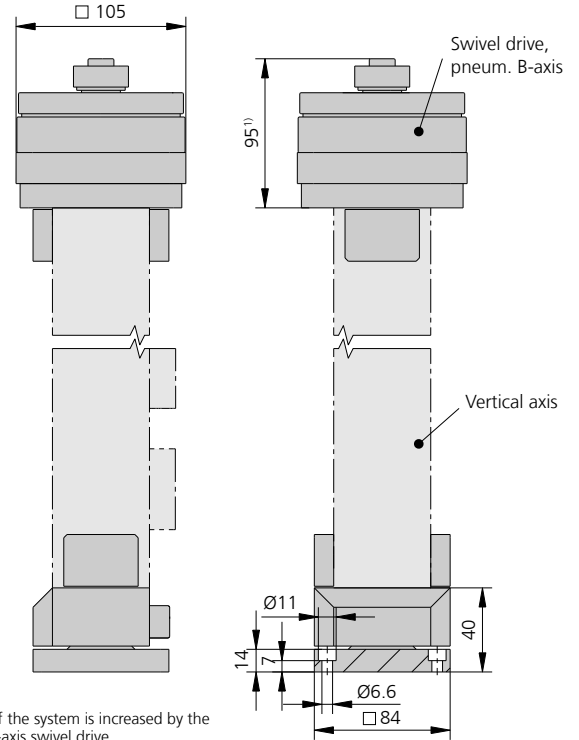
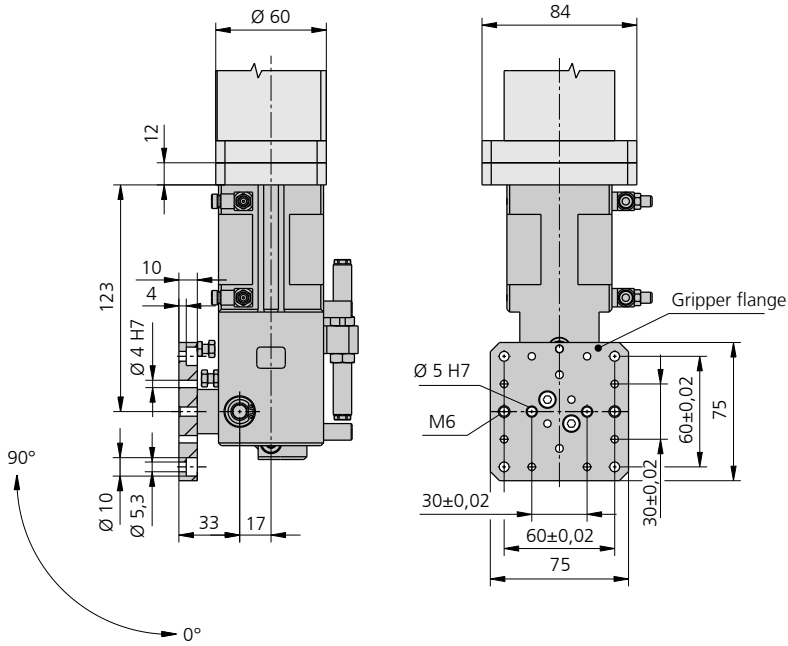
AUXILIARY AXES | MULTILIFT V 10

Assignment interface X011 gripper inputs, pneumatic auxiliary axes					
Pin no.	Function	Designation	Pin no.	Function	Designation
1	S 5001		10	S 5574	
2	+ 24 V	A +	11	+ 24 V	B -
3	GND		12	GND	
4	S5002		14	S 5582	
5	+ 24 V	A -	15	+ 24 V	C +
6	GND		16	GND	
7	S 5003		17	S 5592	
8	+ 24 V	B +	18	+ 24 V	C -
9	GND		19	GND	

B-axis (pneumatic)



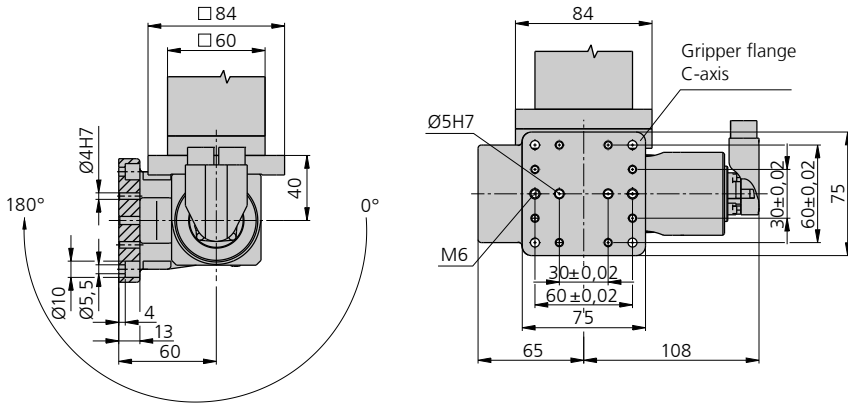
C-axis (pneumatic)



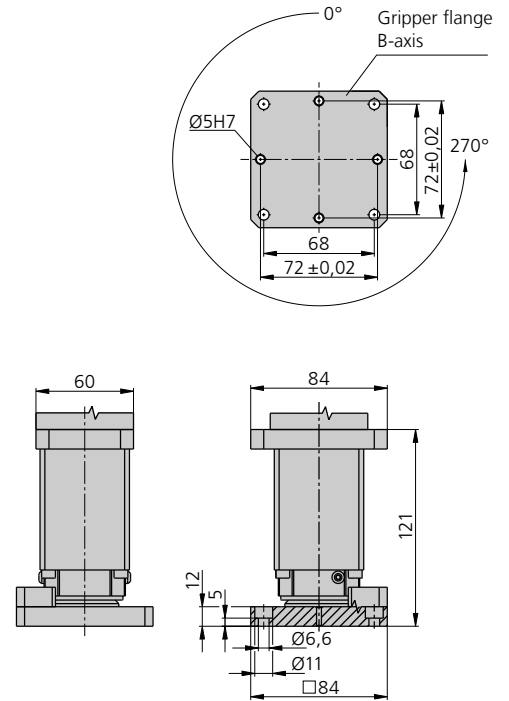
1) Overall height of the system is increased by the height of the B-axis swivel drive

AUXILIARY AXES | MULTILIFT V 10

C-axis (servo-electric)



B-axis (servo-electric)



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