

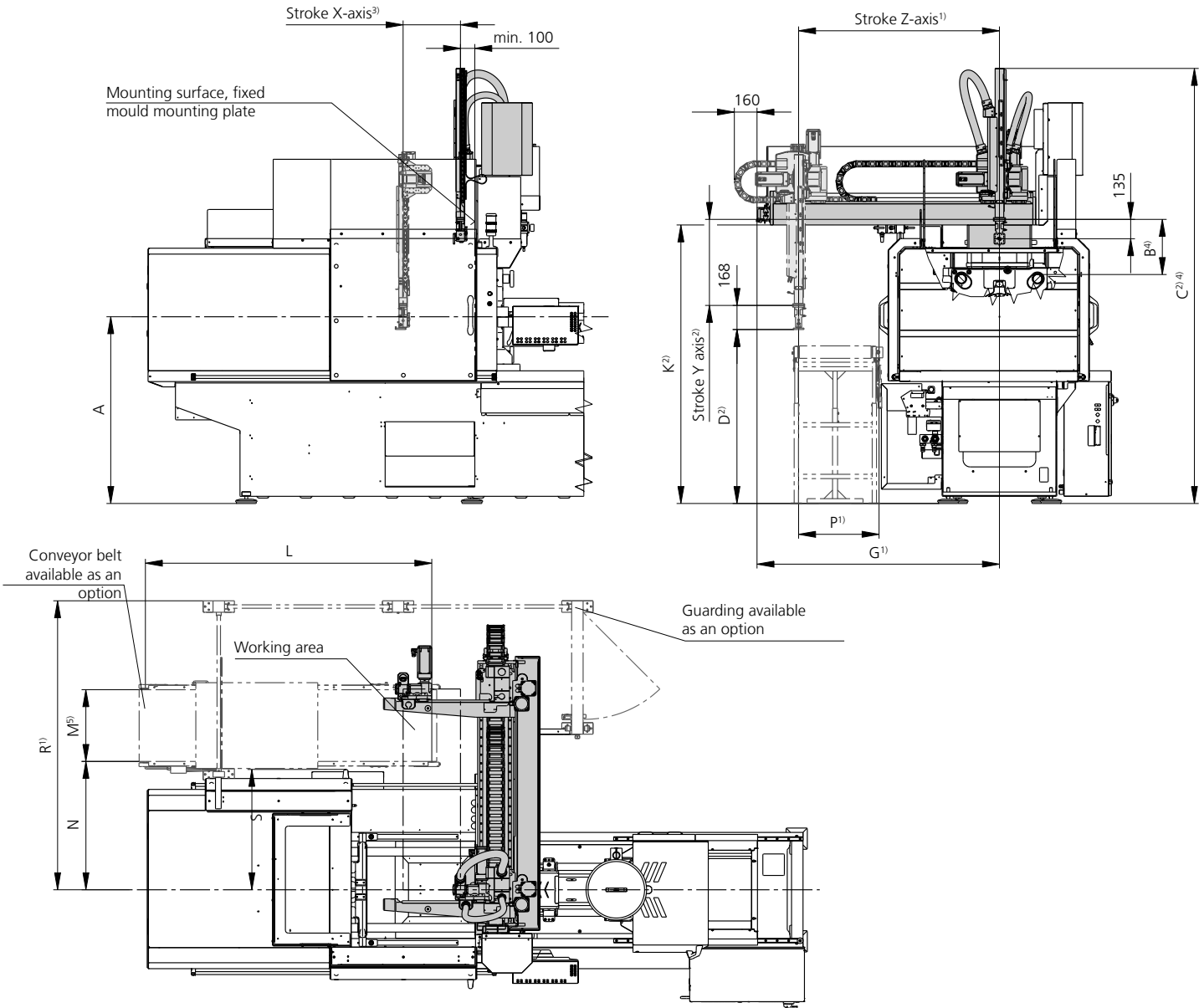
## MULTILIFT SELECT 8

Machine size: 270-570

Handling weight: 8 kg

**ARBURG**

# TECHNICAL DATA | MULTILIFT SELECT 8



- 1) Stroke extension Z-axis option
- 2) Stroke extension Y-axis option
- 3) Stroke extension X-axis option
- 4) Crossing height 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 SELECT 8

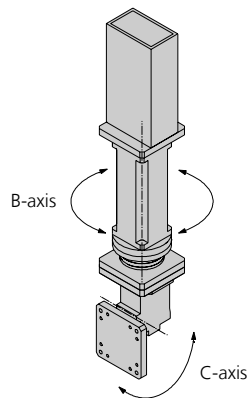
Machine type	Dim. A	Dim. B <sup>2)</sup>	Dim. C	Dim. D	Dim. G		Dim. K	Conveyor belt		Dim. N	Dim. P		Dim. R <sup>1)</sup>		Dim. S
		Standard	Standard	Standard	Standard	Extended <sup>1)</sup>		Dim. L	Dim. M <sup>1)</sup>		Standard	Extended <sup>1)</sup>	Standard	Extended	
	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
<b>270 A / H</b>	1.220	434	2.900	1.078	1.290	1.690	1.787	1.500	400	615	440	840	1.635	2.035	560
<b>270 S</b>	1.170	434	2.850	1.027	1.290	1.690	1.737	1.500	400	615	440	840	1.635	2.035	560
<b>270 C GOLDEN EDITION</b>	1.170	392	2.805	985	1.290	1.690	1.697	1.500	400	550	520	920	1.660	2.060	480
<b>320 C GOLDEN EDITION</b>	1.170	367	2.805	985	1.290	1.690	1.697	1.500	400	550	520	920	1.660	2.060	480
<b>370 A / H / S</b>	1.220	379	2.900	1.078	1.290	1.690	1.787	1.500	400	740	240	640	1.610	2.010	760
<b>E GOLDEN ELECTRIC</b>													(1.760 <sup>5)</sup> )		
<b>420 C GOLDEN EDITION</b>	1.250	374	2.970	1.140	1.290	1.690	1.847	2.000	500	615	440	840	1.740	2.140	560
<b>470 A / H / S</b>	1.300	384	3.040	1.225	1.690	2.090	1.942	2.000	500	895	560	960	2.015	2.415	840
<b>E GOLDEN ELECTRIC</b>															
<b>470 C GOLDEN EDITION</b>	1.250	369	3.005	1.175	1.290	1.690	1.882	2.000	500	615	440	840	1.740	2.140	560
<b>520 A / H / S</b>	1.350	444	3.390	1.172	1.690	2.090	2.087	2.000	500	895	560	960	2.015	2.415	840
<b>E GOLDEN ELECTRIC</b>															
<b>570 A / H / S</b>	1.408	437	3.480	1.265	1.690	2.090	2.177	2.000	600	995	460	860	2.015	2.415	940
<b>E GOLDEN ELECTRIC</b>															
<b>570 C GOLDEN EDITION</b>	1.360	437	3.430	1.215	1.690	2.090	2.132	2.000	600	760	700	1.100	2.030	2.430	700

## Main axes

Machine type	Handling weight max. kg	Z-axis			Y-axis			X-axis			Weight Robot Standard kg
		Stroke		Speed	Stroke		Speed	Stroke		Speed	
		Standard mm	Extended <sup>1)</sup> mm	max. mm/s	Standard mm	Extended <sup>1)</sup> mm	max. mm/s	Standard mm	Extended <sup>1)</sup> mm	max. mm/s	
<b>270 A / H / S</b>	8	1.000	1.400	2.000	600	---	3.000	400	---	2.000	310
<b>270 C GOLDEN EDITION</b>	8	1.000	1.400	2.000	600	800	3.000	400	600	2.000	310
<b>320 C GOLDEN EDITION</b>	8	1.000	1.400	2.000	600	800	3.000	400	600	2.000	310
<b>370 A / H / S</b>	8	1.000	1.400	2.000	600	800	3.000	400	600	2.000	310
<b>E GOLDEN ELECTRIC</b>											
<b>420 C GOLDEN EDITION</b>	8	1.000	1.400	2.000	600	800	3.000	400	600	2.000	310
<b>470 A / H / S</b>	8	1.400	1.800	2.000	600	800	3.000	400	600	2.000	338
<b>E GOLDEN ELECTRIC</b>											
<b>470 C GOLDEN EDITION</b>	8	1.000	1.400	2.000	600	800	3.000	400	600	2.000	310
<b>520 A / H / S</b>	8	1.400	1.800	2.000	800	1.000	3.000	400	600	2.000	340
<b>E GOLDEN ELECTRIC</b>											
<b>570 A / H / S</b>	8	1.400	1.800	2.000	800	1.000	3.000	400	600	2.000	340
<b>E GOLDEN ELECTRIC</b>											
<b>570 C GOLDEN EDITION</b>	8	1.400	1.800	2.000	800	1.000	3.000	400	600	2.000	340

## Auxiliary axes (gripper axes)

C-axis		B-axis <sup>1)</sup>	
Torque Nm	Weight kg	Torque Nm	Weight kg
13	1,2	10	2,5



- \*) Optional
- 1) Wider conveyor belt possible in conjunction with extension of the Z-axis
- 2) Crossing height can be increased by 200 mm as an option
- 3) Gripper plus part weight plus weight of auxiliary axes (B, C axis)
- 4) at 6 bar pressure level
- 5) 370 S with hydraulic accumulator

# EQUIPMENT | MULTILIFT SELECT 8

## The requirement for the use of the MULTILIFT SELECT 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 swivelling the finished parts
- B-axis with pneumatic drive for setting down the finished parts in two different rotational positions

### Pneumatic valves for grippers

- Pneumatic valves for actuating gripper functions, such as grippers, gripper jaws, cylinders, lifting and rotary units (see additional information):
  - 1 with blocked central position (5/3)
- Additional pneumatic valves (maximum 5) in any combinations of the following versions (see additional information):
  - with blocked central position (5/3)
  - with vented central position (5/3)
- All pneumatic valves connected to the gripper flange with rapid connect couplings

### Vacuum equipment for grippers

- Vacuum equipment (Venturi effect) for parts handling with suction pads
- Additional vacuum units (maximum 3)
- All vacuum units connected close to the gripper via hoses. Including vacuum switches for parts monitoring
- Air blow function for reliable parts transfer
- Air saving function

### Pneumatic maintenance unit

- Manually-adjustable filter pressure reducer for adjusting the pressure level
- Electric on/off function

### Control

- 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
- Robotic 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
- Mobile ARBURG Mobile SELOGICA (AMS) control panel 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 counterplug

- Additional interface for monitoring 8 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
- Interface (24V DC) with 8 freely programmable inputs and outputs for peripherals. Connected to 29-pin connector on MULTILIFT, including counterplug
- Interface (24V DC) with 16 freely programmable inputs and outputs for peripherals. Connected to 72-pin connector on MULTILIFT, including counterplug).
- Basis: max. 3 interfaces with a total of max. 24 inputs and outputs possible

### Guards

- Electrical equipment for protecting one door within the guard fence, fully connected on the machine, including the following:
  - 2 emergency stop buttons
  - 1 acknowledge button
  - 3 switches for door
- Corrugated wire mesh guard for housing the robotic system
- Compact protection
- Fold-away divider chute integrated into compact protection

### Additional options

- Conveyor belt for setting down parts, including interface, expandable to include clear button
- Universally adjustable removal hand with up to 8 suction devices. Size and design adapted to the machine type and application
- Sprue grippers, pneumatically operated with spring return movement

### Additional information

- Pneumatic valve 5/3 with blocked central 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 central 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.

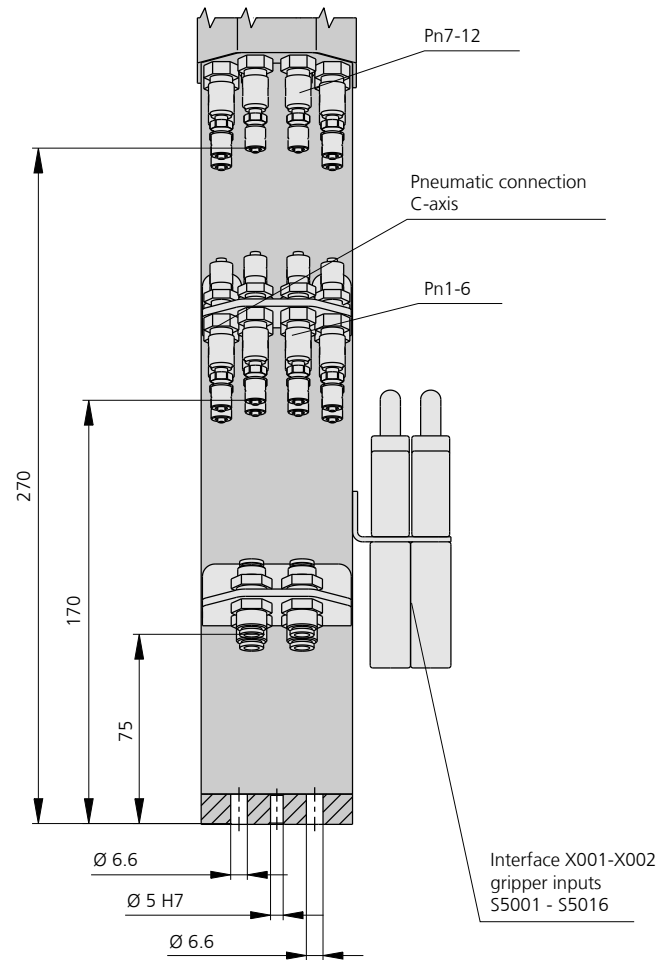
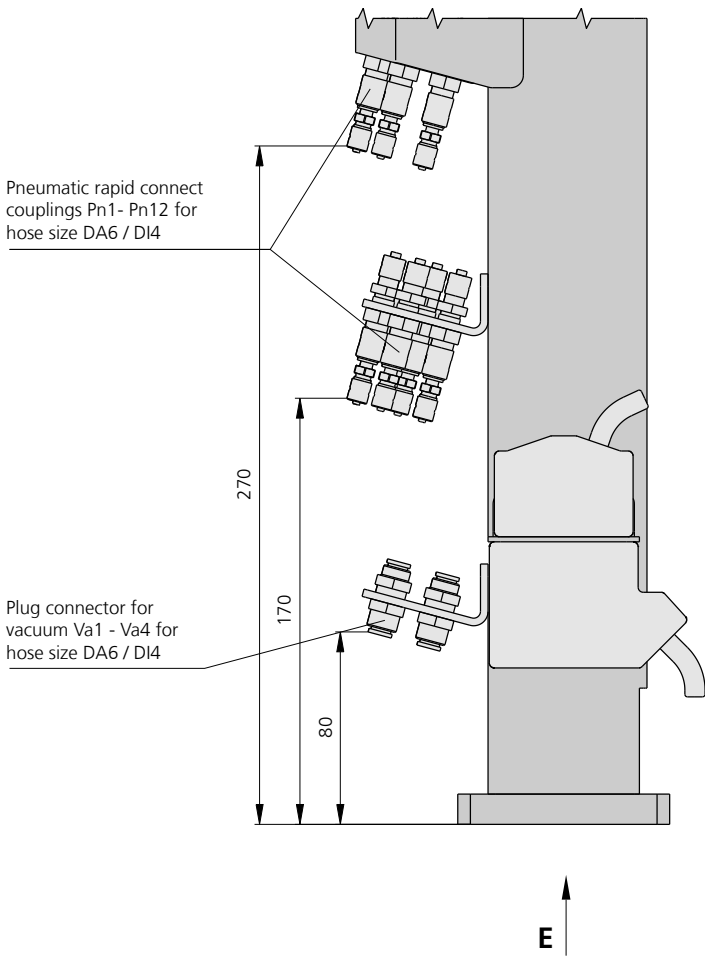
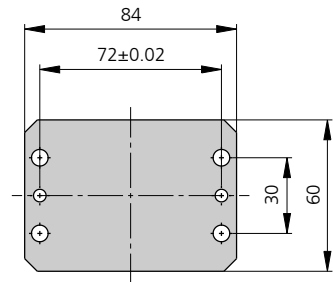
■ Basic machine

○ Optional

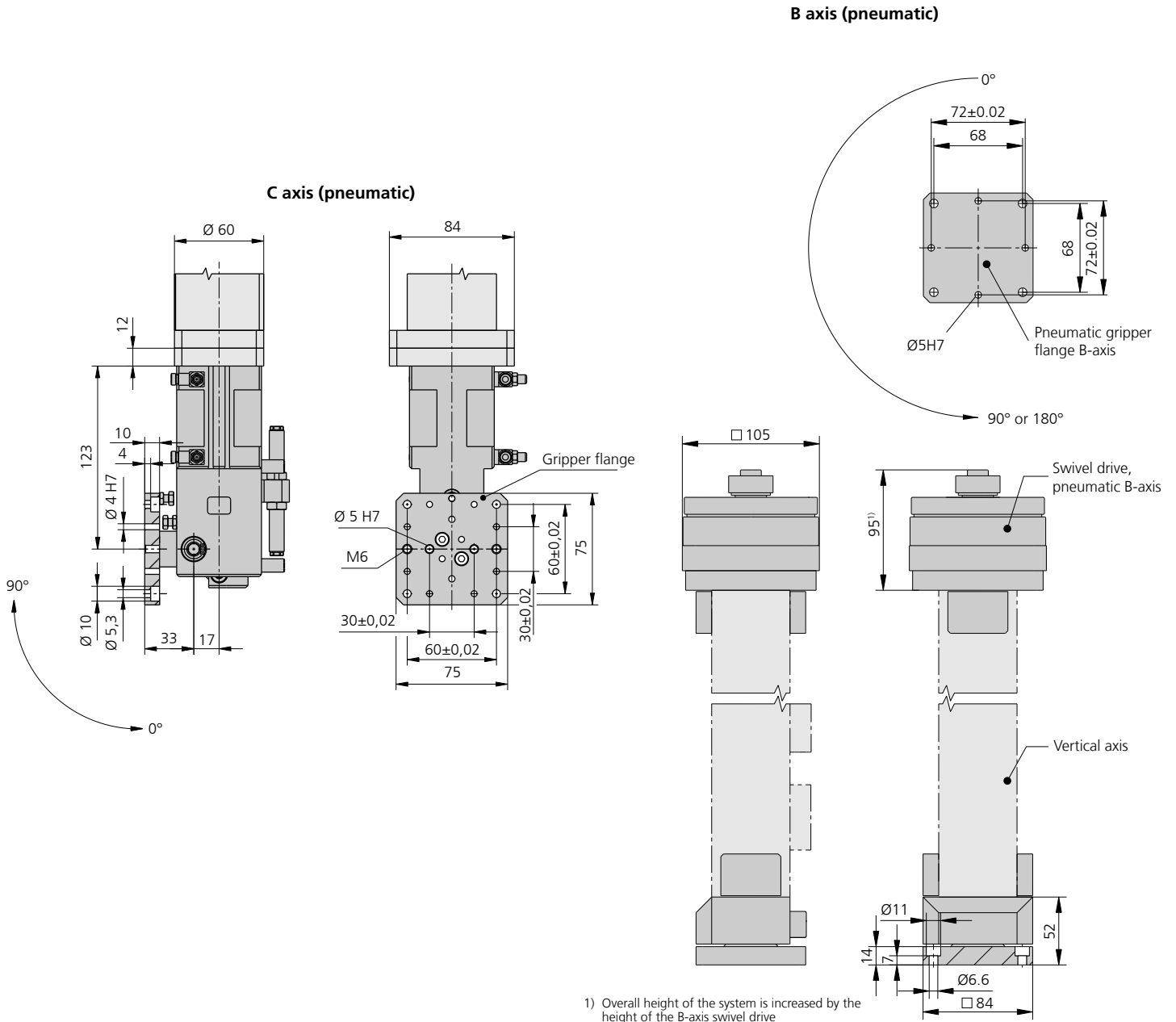
# GRIPPER ADAPTATIONS | MULTILIFT SELECT 8

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 of vertical axis**



# SECONDARY AXES | MULTILIFT SELECT 8



**ARBURG GmbH + Co KG**  
 Arthur-Hehl-Strasse  
 72290 Lossburg  
 Tel.: +49 7446 33-0  
 www.arburg.com  
 contact@arburg.com