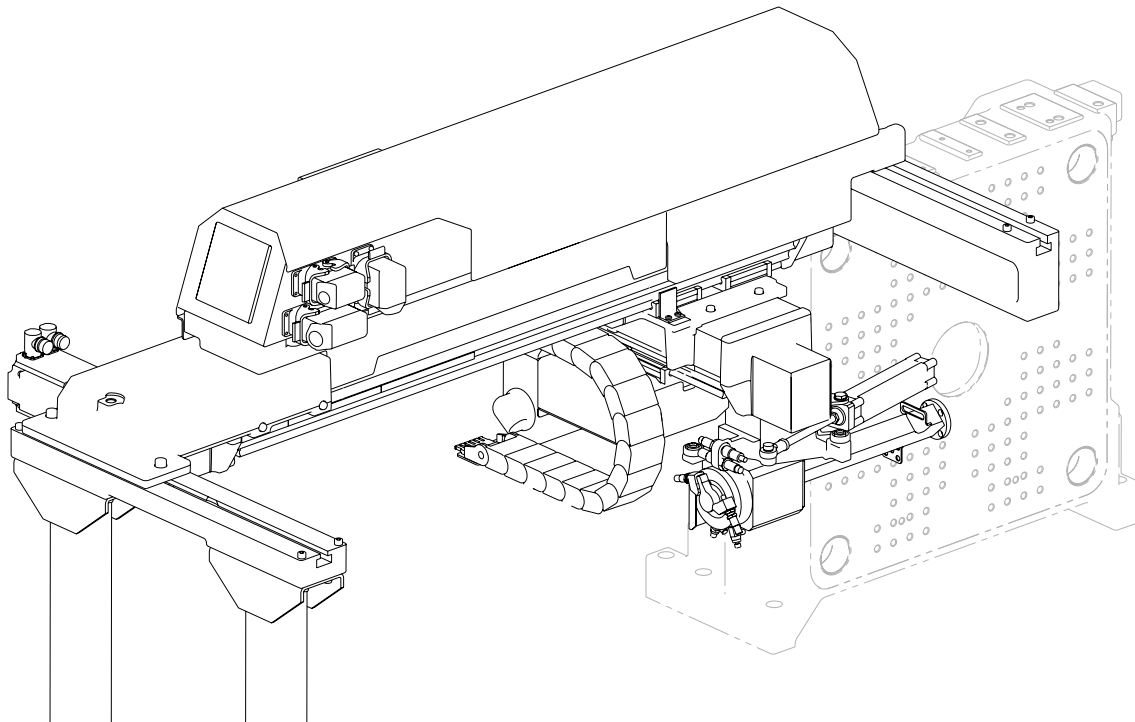




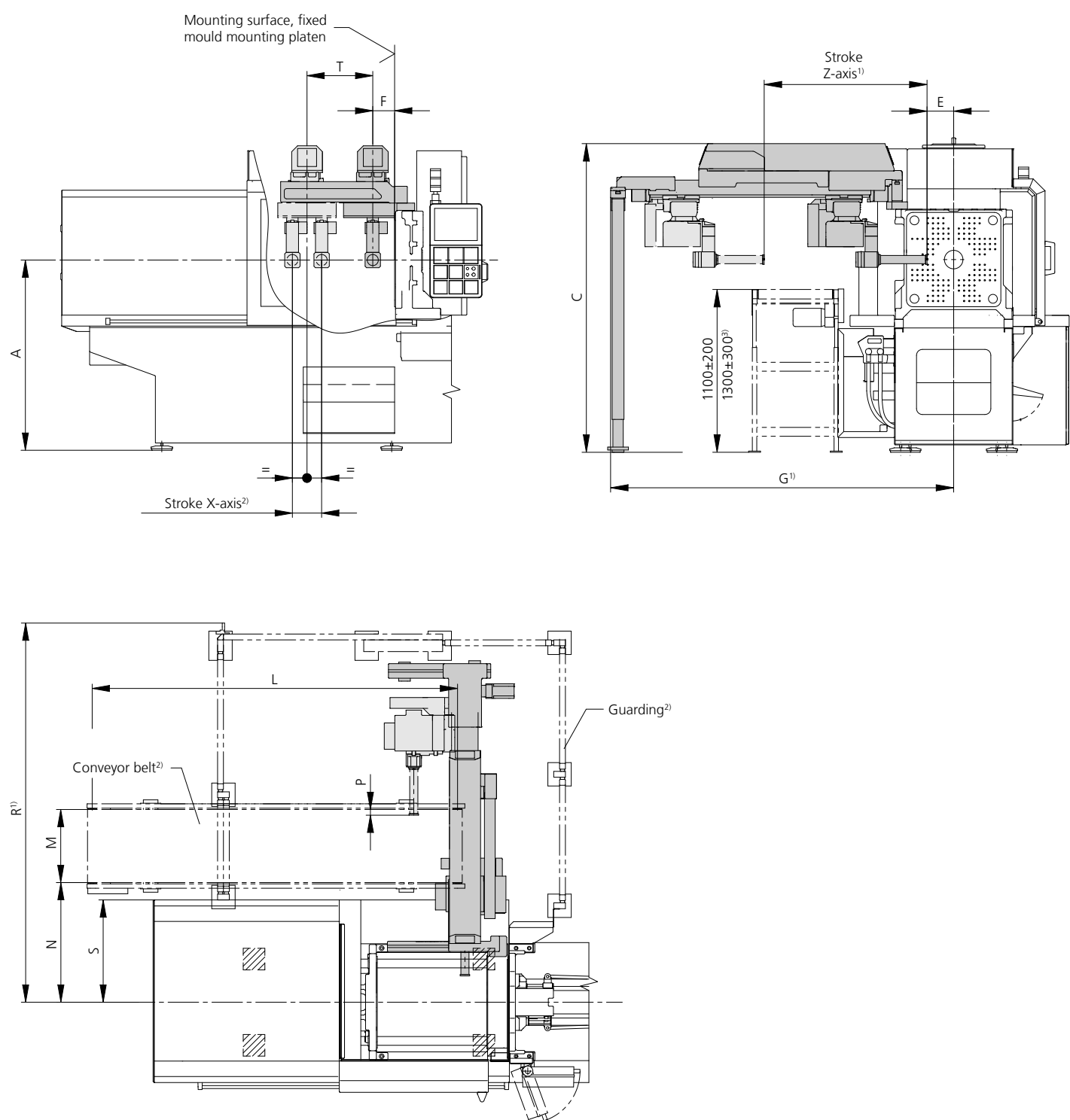
MULTILIFT H 5

Machine size: 270-920

Handling weight: 5 kg

ARBURG

STANDARD VERSION | MULTILIFT H 5



1) Z-axis stroke extension in 200 mm steps available as an option
2) Optional
3) Machine size 630-920

STANDARD VERSION | MULTILIFT H 5

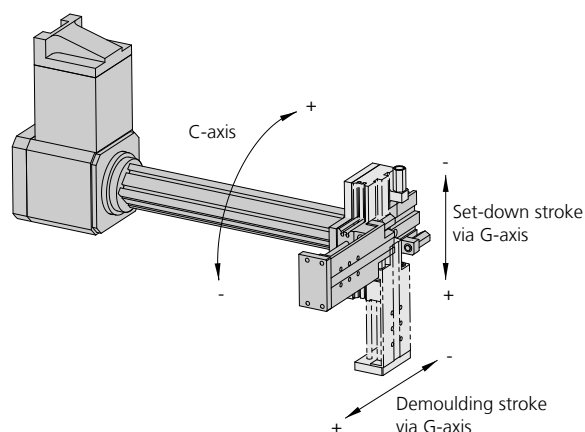
Machine type	Dim. A	Dim. C ⁶⁾	Dim. E min.	Dim. F min.	Dim. G ¹⁾ Standard	Dim. L Conveyor belt	Dim. M	Dim. N	Dim. P	Dim. R ¹⁾ Standard	Dim. S	Dim. T ²⁾
270 A / H	1220	1930	100	100	1940	2000	400	540	40	2115	420	150
270 S	1170	1880	100	100	1940	2000	400	540	40	2115	420	150
270 C GOLDEN EDITION	1170	1880	100	100	1940	1500	400	510	10	2085	355	150
320 C GOLDEN EDITION	1170	1880	100	100	1940	1500	400	510	10	2085	355	150
370 A / E / H / S	1220	1930	100	100	2140	2000	400	740	40	2415	620	350
420 C GOLDEN EDITION	1250	1960	120	100	1960	2000	400	590	70	2165	435	350
470 A / E / H / S	1300	2090	180	150	2420	2500	500	820	-60	2695	700	350
470 C GOLDEN EDITION	1250	2035	180	150	2020	2000	400	590	10	2265	435	350
520 A / E / H / S	1350	2130	180	150	2420	2500	500	820	-60	2695	700	350
570 A / E / H / S	1410	2230	225	150	2465	2500	500	920	-5	2695	800	350
570 C GOLDEN EDITION	1360	2180	225	150	2265	2500	500	735	10	2510	580	350
630 A / H / S	1460	2325	225	300	2890	3000	600	1275/1205 ³⁾	50 / -20 ³⁾	3155 / 3140 ³⁾	1160 / 1090 ³⁾	350
720 A / H / S	1535	2435	225	350	2965	3000	600	1275/1205 ³⁾	50 / -20 ³⁾	3195 / 3180 ³⁾	1160 / 1090 ³⁾	350
820 A / H / S	1600	2500	225	350	3030	3000	600	1275/1205 ³⁾	50 / -20 ³⁾	3255 / 3240 ³⁾	1160 / 1090 ³⁾	350
920 A / H / S	1670	2610	285	350	3090	3000	600	1325/1205 ³⁾	40 / -80 ³⁾	3305 / 3320 ³⁾	1210 / 1090 ³⁾	350

Main axes

Machine type	Handling weight ⁴⁾	Z-axis ¹⁾		X-axis ⁵⁾		Robot weight
		Stroke	Speed	Stroke		Standard
	Max. kg	Standard mm	mm/s	Pneumatic mm	Servo-electric	kg
270 A / H	5	800	2000	100 / 200	-	300
270 S	5	800	2000	100 / 200	-	300
270 C GOLDEN EDITION	5	800	2000	100 / 200	-	300
320 C GOLDEN EDITION	5	800	2000	100 / 200	-	300
370 A / E / H / S	5	1000	2000 / 2800 ⁵⁾	100 / 200	200	350
420 C GOLDEN EDITION	5	800	2000 / 2800 ⁵⁾	100 / 200	200	350
470 A / E / H / S	5	1200	2000 / 2800 ⁵⁾	100 / 200	200	350
470 C GOLDEN EDITION	5	800	2000 / 2800 ⁵⁾	100 / 200	200	350
520 A / E / H / S	5	1200	2000 / 2800 ⁵⁾	100 / 200	200	350
570 A / E / H / S	5	1200	2000 / 2800 ⁵⁾	100 / 200	200	350
570 C GOLDEN EDITION	5	1000	2000 / 2800 ⁵⁾	100 / 200	200	350
630 A / H / S	5	1600	2000 / 2800 ⁵⁾	100 / 200	200 / 400	400
720 A / H / S	5	1600	2000 / 2800 ⁵⁾	100 / 200	200 / 400	450
820 A / H / S	5	1600	2000 / 2800 ⁵⁾	100 / 200	200 / 400	450
920 A / H / S	5	1600	2000 / 2800 ⁵⁾	100 / 200	200 / 400	450

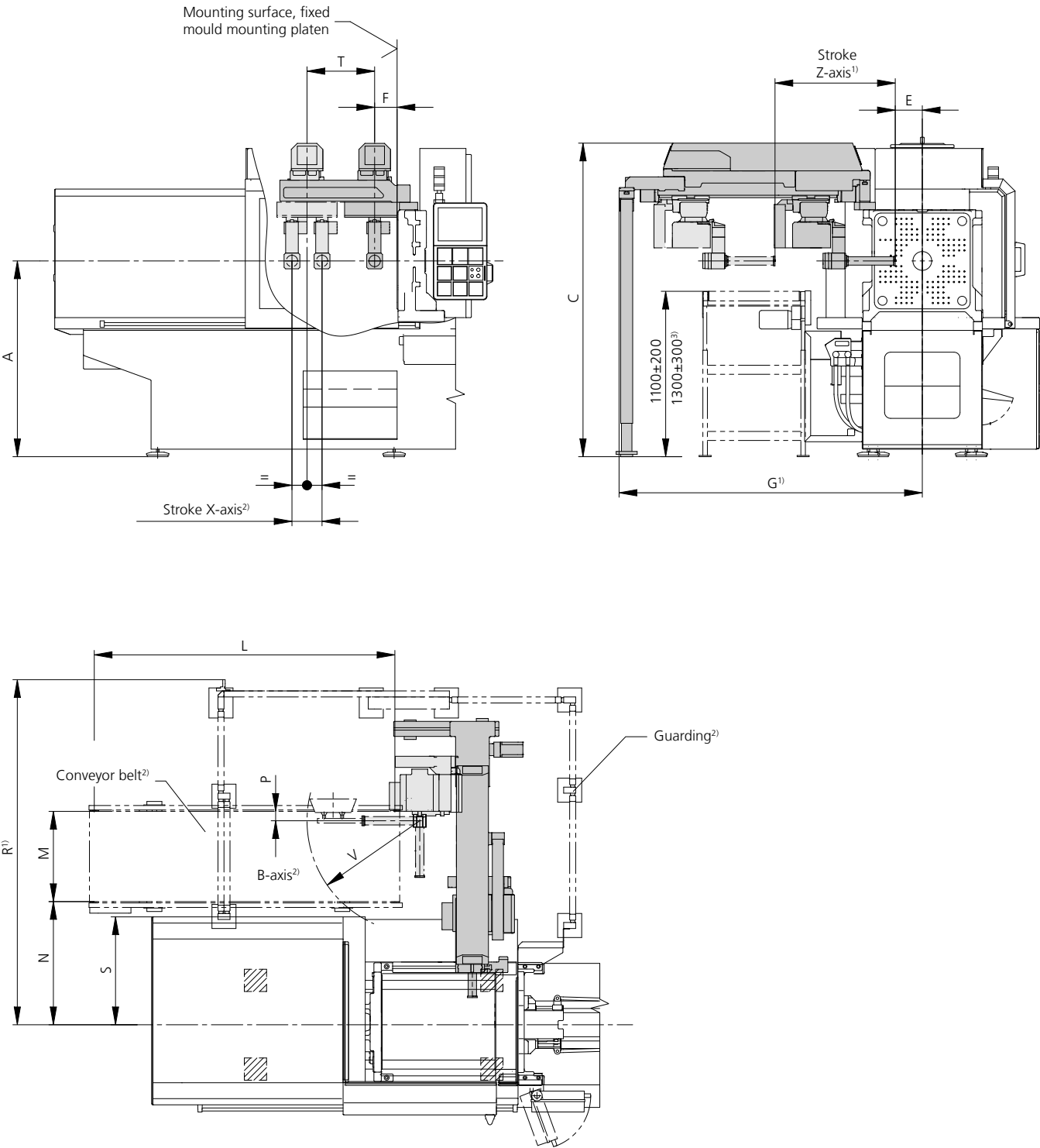
Auxiliary axes (gripper axes)

C-axis		G-axis ⁵⁾	
Angle of rotation	Torque	Stroke	Weight
Degrees	Nm	mm	kg
90	10	50 / 80	1.0 / 1.3



- 1) Z-axis stroke extension in 200 mm steps available as an option
- 2) Setting range for removal position in X
- 3) Applies to machine type 630-920S with dual-circuit pump technology or hydraulic accumulator technology
- 4) Gripper plus part weight plus weight of G-axis
- 5) Optional
- 6) For optional clean room version + 50 mm

VERSION WITH B-AXIS | MULTILIFT H 5



1) Z-axis stroke extension in 200 mm steps available as an option
2) Optional
3) Machine size 630-920

VERSION WITH B-AXIS | MULTILIFT H 5

Machine type	Dim. A	Dim. C ⁶⁾	Dim. E	Dim. F	Dim. G ¹⁾	Dim. L	Dim. M	Dim. N	Dim. P	Dim. R ¹⁾	Dim. S	Dim. T ²⁾	Dim. V ⁷⁾
			min.	min.	Standard	Conveyor belt				Standard			max.
270 A / H	1220	1930	100	100	1740	1500	600	540	65	1915	420	150	720
270 S	1170	1880	100	100	1740	1500	600	540	65	1915	420	150	720
270 C GOLDEN EDITION	1170	1880	100	100	1740	1500	600	510	35	1885	355	150	700
320 C GOLDEN EDITION	1170	1880	100	100	1740	1500	600	510	35	1885	355	150	700
370 A / E / H / S	1220	1930	100	100	1940	2000	600	740	65	2215	620	350	670
420 C GOLDEN EDITION	1250	1960	120	100	1760	2000	600	590	95	1965	435	350	650
470 A / E / H / S	1300	2090	180	150	2020	2000	600	820	65	2295	700	350	720
470 C GOLDEN EDITION	1250	2035	180	150	1820	2000	600	590	35	2065	435	350	700
520 A / E / H / S	1350	2130	180	150	2020	2500	600	820	65	2295	700	350	720
570 A / E / H / S	1410	2230	225	150	2065	2500	600	920	120	2295	800	350	730
570 C GOLDEN EDITION	1360	2180	225	150	1865	2500	600	735	135	2110	580	350	750
630 A / H / S	1460	2325	225	300	2490	3000	800	1275/1205 ³⁾	275 / 205 ³⁾	2755 / 2740 ³⁾	1160 / 1090 ³⁾	350	830 / 980 ³⁾
720 A / H / S	1535	2435	225	350	2765	3000	1000	1275/1205 ³⁾	175 / 105 ³⁾	2995 / 2980 ³⁾	1160 / 1090 ³⁾	350	980 / 1075 ³⁾
820 A / H / S	1600	2500	225	350	2830	3000	1000	1275/1205 ³⁾	175 / 105 ³⁾	3055 / 3040 ³⁾	1160 / 1090 ³⁾	350	980 / 1075 ³⁾
920 A / H / S	1670	2610	285	350	2890	3000	1000	1325/1205 ³⁾	165 / 45 ³⁾	3105 / 3120 ³⁾	1210 / 1090 ³⁾	350	1180 / 1075 ³⁾

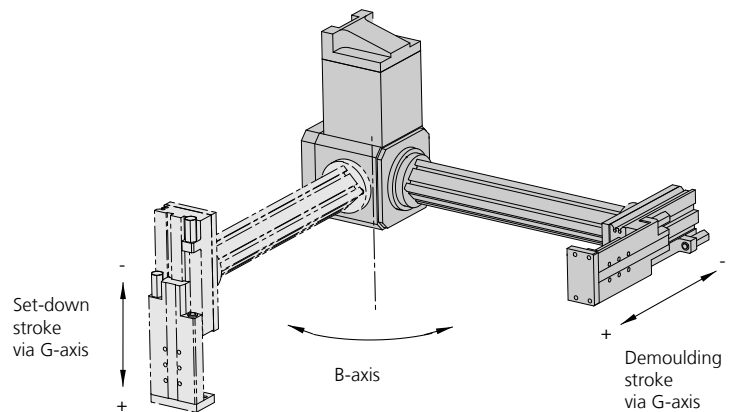
Main axes

Machine type	Handling weight ⁴⁾	Z-axis ¹⁾		X-axis ⁵⁾		Robot weight
		Stroke	Speed	Stroke		
	Max. kg	Standard		Pneumatic	Servo-electric	kg
270 A / H	5	600	2000	100 / 200	-	300
270 S	5	600	2000	100 / 200	-	300
270 C GOLDEN EDITION	5	600	2000	100 / 200	-	300
320 C GOLDEN EDITION	5	600	2000	100 / 200	-	300
370 A / E / H / S	5	800	2000	100 / 200	200	350
420 C GOLDEN EDITION	5	600	2000	100 / 200	200	350
470 A / E / H / S	5	800	2000	100 / 200	200	350
470 C GOLDEN EDITION	5	600	2000	100 / 200	200	350
520 A / E / H / S	5	800	2000	100 / 200	200	350
570 A / E / H / S	5	800	2000	100 / 200	200	350
570 C GOLDEN EDITION	5	600	2000	100 / 200	200	350
630 A / H / S	5	1200	2000	100 / 200	200 / 400	400
720 A / H / S	5	1400	2000	100 / 200	200 / 400	450
820 A / H / S	5	1400	2000	100 / 200	200 / 400	450
920 A / H / S	5	1400	2000	100 / 200	200 / 400	450

Auxiliary axes (gripper axes)

B-axis ⁵⁾		C-axis		G-axis ⁵⁾	
Swivelling range	Angle of rotation	Torque	Stroke	Weight	
Degrees	Degrees	Nm	mm	kg	
90	90	10	50 / 80	1.0 / 1.3	

- 1) Z-axis stroke extension in 200 mm steps available as an option
- 2) Setting range for removal position in X
- 3) Applies to machine type 630-920S with dual-circuit pump technology or hydraulic accumulator technology
- 4) Gripper plus part weight plus weight of G-axis
- 5) Optional
- 6) For optional clean room version + 50 mm
- 7) Applies to smallest Z-axis stroke



EQUIPMENT | MULTILIFT H 5

The requirement for the use of the MULTILIFT H is an ARBURG ALLROUNDER.

Axes

- Main axis (Z-axis) with servo-electric drive for rapid machine movements with a high repeat accuracy. Entry into mould parting line can be manually adjusted
- Higher Z-axis speed for even shorter intervention times
- X-axis without drive. Removal position can be easily adjusted manually
- X-axis with pneumatic drive for demoulding finished parts
- X-axis with servo-electric drive for particularly gentle demoulding of finished parts simultaneously with ejector
- C-axis with pneumatic drive for rotating finished parts by up to 90° prior to set-down.
- B-axis with pneumatic drive for swivelling gripper by 90° outside the machine. This allows reduced Z-axis travel and footprint
- G-axis with pneumatic drive for demoulding and set-down of finished parts

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 3) in any combinations of the following versions (see additional information):
 - with blocked central position (5/3)
 - with vented central 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 equipment (venturi principle) for parts handling with suction devices (maximum 2)
- All vacuum equipment connected near the gripper. Including vacuum switches for parts monitoring

Pneumatic maintenance unit

- Manually-adjustable filter pressure reducer for adjusting the pressure level
- Monitoring of 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
- central ARBURG central 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 (floating) with 4 freely programmable inputs and outputs for peripherals. Connected to 42-pin connector on MULTILIFT, including counterplug
- Additional interface (floating) with 4 freely programmable inputs and outputs. Connected to 42-pin connector on MULTILIFT, including counterplug
- Additional interface (24V DC) with 16 freely programmable inputs and outputs. Connected to 72-pin connector on MULTILIFT (including counterplug) or in the machine control cabinet

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

Additional options

- Conveyor belt for setting down parts, including interface, expandable to include clear button
- Universally adjustable removal hand with up to 4 suction devices. Size and design adapted to the machine type and application
- Sprue grippers, pneumatically operated with spring return movement

Additional information

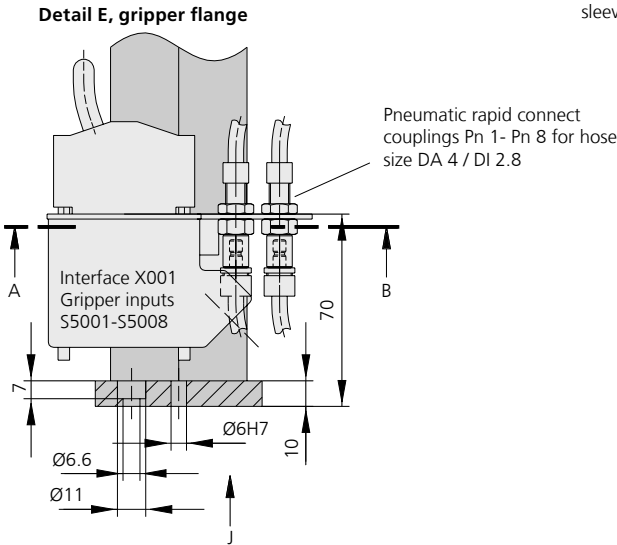
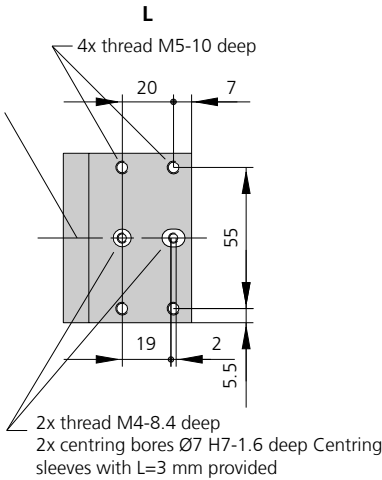
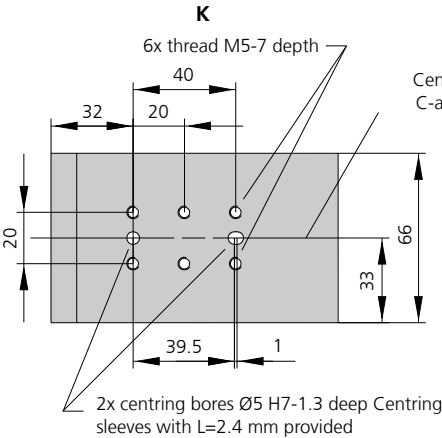
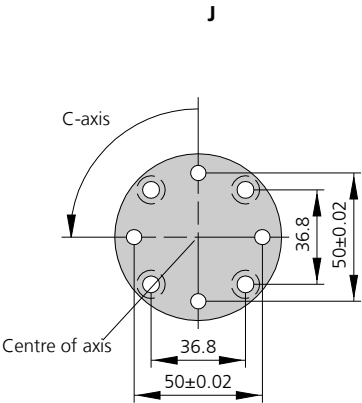
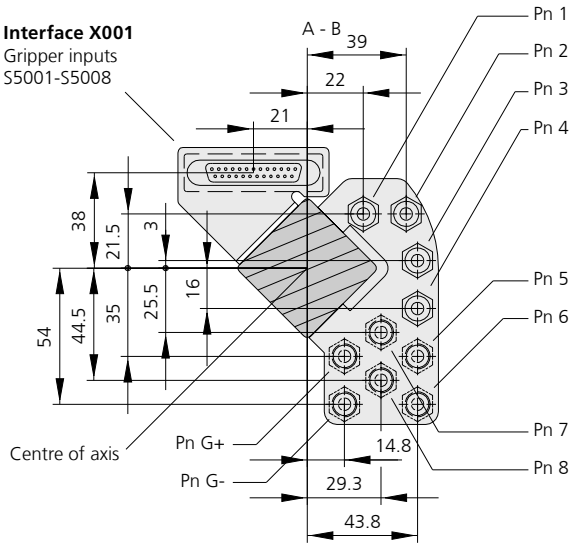
- Pneumatic valve 5/3 with blocked central position for gripper functions, the position of which should be maintained when not actuated, for example, if the safety guard is open, EMERGENCY STOP
- Pneumatic valve 5/3 with vented central position for gripper functions, which should be depressurised when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

■ Basic machine

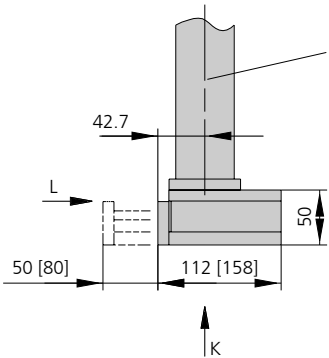
○ Optional

GRIPPER ADAPTATIONS | MULTILIFT H 5

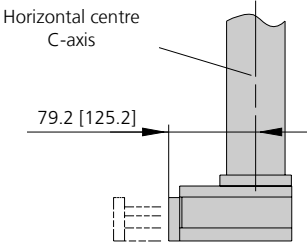
Assignment interface X001 gripper inputs S 5001 - S 5008					
Pin no.	Function	Designation	Pin no.	Function	Designation
1	S 5001		14	S 5005	
2	+ 24 V	Gripper input 1	15	+ 24 V	Gripper input 5
3	GND		16	GND	
4	S5002		17	S5006	
5	+ 24 V	Gripper input 2	18	+ 24 V	Gripper input 6
6	GND		19	GND	
7	S 5003		20	S 5007	
8	+ 24 V	Gripper input 3	21	+ 24 V	Gripper input 7
9	GND		22	GND	
10	S5004		23	S5008	
11	+ 24 V	Gripper input 4	24	+ 24 V	Gripper input 8
12	GND		25	GND	
13	PE				



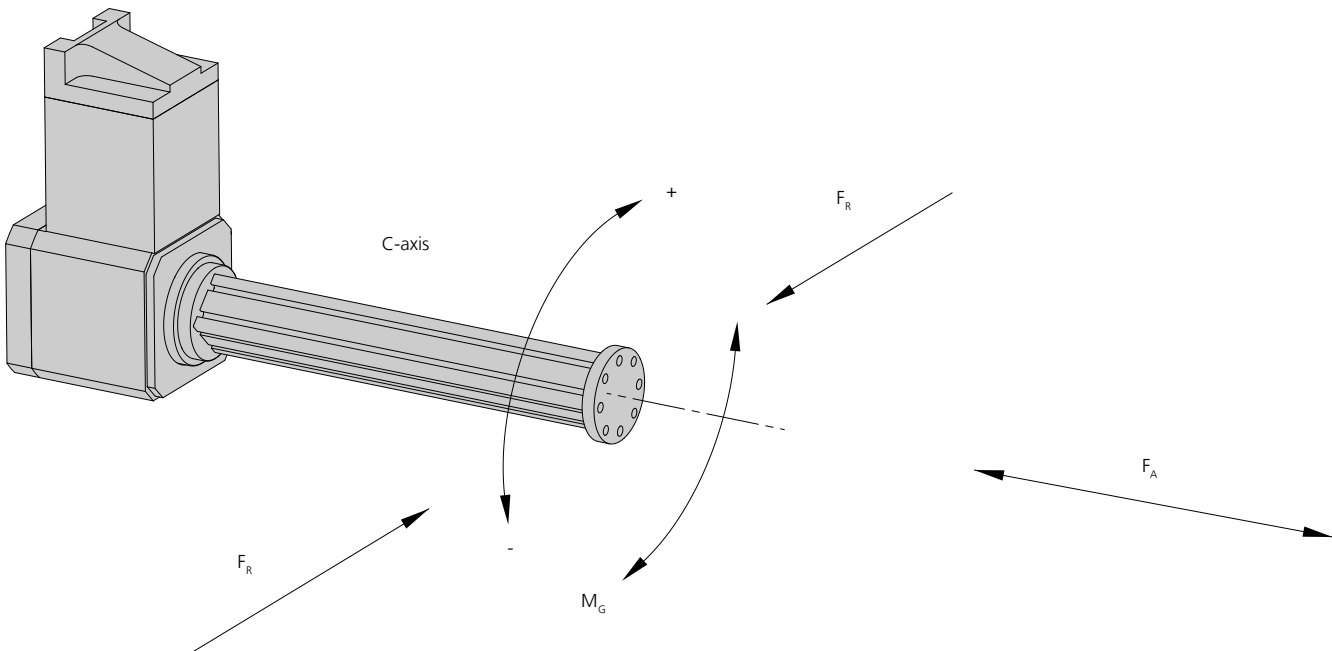
Detail E with optional G axis
(demoulding and set-down stroke)
Stroke 50 mm [Stroke 80 mm]
Assembly variant 1
for G axis:



Assembly variant 2
for G axis:



PERMITTED LOAD | MULTILIFT H 5



Radial force F_R	max.	90 N
Axial force F_A	max.	100 N
Torque M_G , caused by gripper	max.	8 Nm
G-axis retention force in extended position G+		50 N
X-axis retention force in extended position X+		90 N

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