

Technical data

Q-Line with BHS180 and UNDERCAM



Base machine

Specifications, speed, acceleration

Specifications		Speed, acceleration ⁴⁾	
Floor load	500 kg/m ² , point load 800 kg	Max. speed X/Y axis	2 m/s
Operating temperature	15-35°C	Max. acceleration X/Y axis	15 m/s ² (depending on kg load)
Relative humidity	10-80% non-condensing	Max. speed Z axis	AUTOMO E, 500 mm/s; AUTOMO L, 300 mm/s
Positioning accuracy 1)	± 0.1 mm/m	Max. acceleration Z axis	AUTOMO E and L, 10 m/s ²
Repeatability 2)	± 0.02 mm		
Beam clearance	65 mm (to process material thickness 50 mm + 10%)		
Max. material weight	30 kg/m ²		
Max. travel distance for one beam, max. feed length without add'l advance	2825 mm		
Minimum beam separation AUTOMO L to AUTOMO L	375 mm		
Minimum beam separation AUTOMO E to AUTOMO E	425 mm		
A-weighted sound power level/noise emission LpA at area of activity 3)	< 75 dB(A)		
Electrical requirements	AC 3ph+N+GND, 400 V, 50/60Hz, 80A		
Interface	Ethernet 1Gbit		

- 1) X/Y drive system, static, at constant operating temperature (may vary depending on cutting technology)
- 2) X/Y drive system, static, at constant operating temperature (without processing)
- 3) Noise level may vary between <75 dB(A) and ~85 dB(A) depending on ambient conditions and type of cutting technology, materials, vacuum generator being used.
- 4) Depending on modules/tools

Technical data subject to change without notice.

INCAM

Static & dynamic capture of register marks

Laser pointer as positioning aid for the operator

Live View mode of the camera image when reading register marks

ITI

Integrated Tool Initialization ITI providing fully automated adjustment/setup of the processing depth of blades, routers, and crease wheels

Automated initialization is precise and saves valuable time;

no manual adjustments required.

Tool changer

One magazine per beam, each with seven slots each for five standard tools and two larger ones, e.g. for CRETO 150

Integral DMC (Data Matrix Code) reader for positive tool identification and data exchange with TOMAC in Zünd Cut Center – ZCC

Automatic tool-change process to facilitate jobs requiring multiple processing methods

Extends uninterrupted production time through automatic identification of blade wear/breakage with automatic tool change to an appropriate replacement

Board Handling System – BHS180

Specifications, speed, acceleration

Pneumatics	Feeder (loading unit)	Loading	18-32	22-32	32-32
Air pressure	0.6 MPa	Max. board/sheet size	1790 × 3200 mm	2260 × 3200 mm	3200 × 3200 mm
Airflow	300 l/min	Min. board/sheet size	700 × 1000 mm		
		Max. board/sheet thickness	65 mm (due to beam clearance)		
		Min. board/sheet thickness	0.9 mm		
		Max. board weight	25 kg		
		Max. stack height	1800 mm (incl. pallet)		
		Min. stack height	80 mm (reach, pallet height)		
		Stack evenness	50 mm (± 25 mm)		
Direct connection	(no plug connections)				
Mains frequency	50/60 Hz				
Mains fuses	32 A				
Voltage	3-phase, 400 V, L1, L2, L3, N, PE (TN-S) 3-phase, 208 V, L1, L2, L3, N, PE (TN-S)				
Residual current circuit breaker	min. 300 mA, type B				
Connected load	max. 22 kVA				

UNDERCAM

Specifications

Details

For registering printed board materials from below
Precise alignment of cut to print with register marks
QR codes used to automatically open and provide correct orientation of cut files

Allows processing (cutting, creasing, perforating ...) from the unprinted topside of boards using previous registration of the printed underside

Completely integrated in the BHS180 Board Handling System

UNDERCAM, as option for BHS180 feeder, mounted under cutter extension, static

Scope of delivery

Camera (Canon EOS R5, 45MP)

Wide-angle lens (CANON RF 14-35MM F4L IS USM)

Lighting (LED tubes)

Calibration guide

Leveling device

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Length

Load/feeder unit(D), Off-load/stacker unit (B)	7910 mm
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Total system incl. Q 32-32 D (B+C+D)	21400 mm
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Width (A)

18-32	4820 mm
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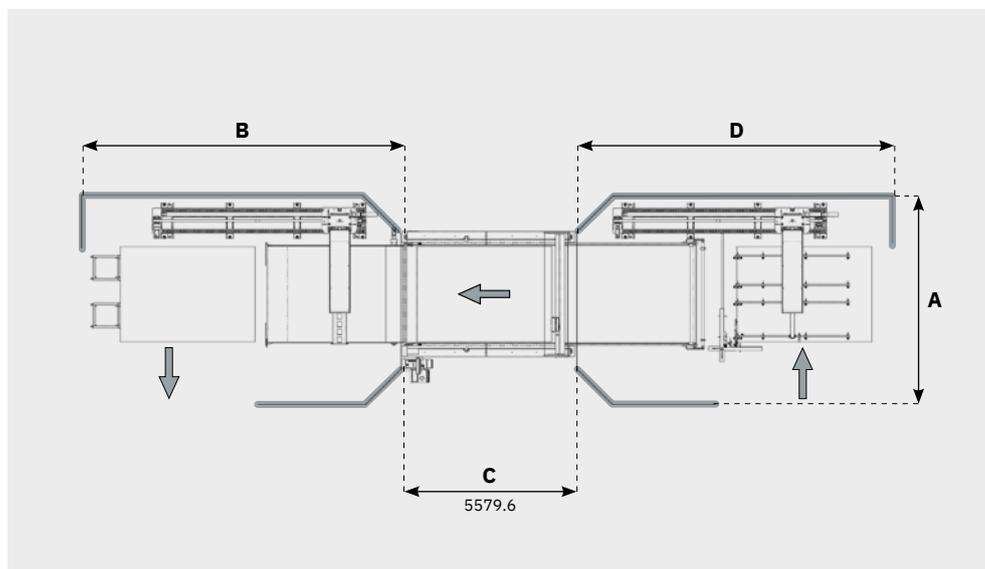
22-32	5320 mm
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32-32	6320 mm
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Height

Safety fencing	2220 mm
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Load/unload arm	3240 mm*
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* required ceiling height for BHS (and stacker) min. 4 m

Requires drilling holes in the floor to anchor the safety fence (max. drilling depth 130 mm)