GARNET PORTA

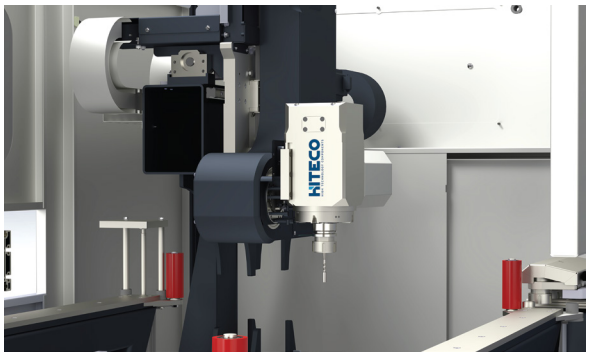
Door Processing Machine (4 axes)

Automation by FANUC

HITECO HIGH TECHNOLOGY COMPONENTS

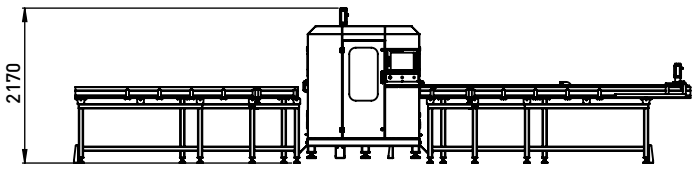
WEB

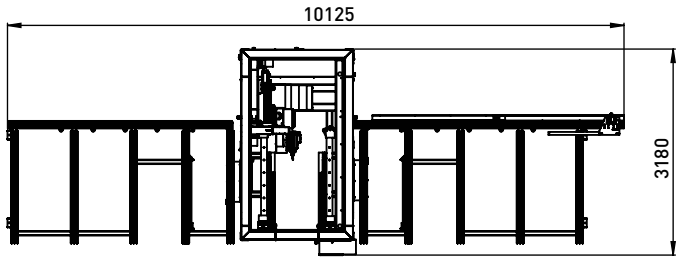
GARNET PORTA is a 4-axis door processing machine. It is designed to perform operations such as hinge placement, lock cylinder, handle placement, slot opening, etc. on a completed door. It automatically selects its tool from the standard 4-piece tool magazine. It performs the operations with the servo-controlled 5.6 kW HITECO motor on it. It can process the top, bottom, and front surfaces of the profile with a single motor. The processable door dimensions are up to 3600 mm in length, 1400 mm in width, 150 mm in height, and 200 mm in surface width.



By focusing on providing convenient solutions for customers, and combining power and precision, GARNET PORTA lets the processing capacity be only limited by the users imagination, thanks to the 5.6 kW spindle motor with automatic tool replacement feature.

Thanks to its built-in automatic magazine with capacity for 4 tools, GARNET XS4 saves time when switching to different operations.





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Door Processing Machine (4 axes)

MACHINING LENGTHS	
X Axis (Longitudinal)	400 mm
Y Axis (Lateral)	398 mm
Z Axis (Vertical)	545 mm
A Axis (Head processing angles)	0° | 180°
POSITIONING SPEED	
X Axis (Longitudinal)	60 m/min
Y Axis (Lateral)	60 m/min
Z Axis (Vertical)	20 m/min
A Axis (Processing angles)	166° /sec
XL Axis (Drive robot)	60 L / min
LOADABLE FRAME CAPACITY	
X Axis (Longitudinal)	3600 mm
Y Axis (Lateral)	1400 mm
Z Axis (Vertical)	150 mm
PROCESSABLE PROFILE CAPACITY	
Y Axis (Lateral)	200 mm
Z Axis (Vertical)	150 mm
AIR	
Pressure	6-8 Bar
Air Consumption	40 L / min
ELECTRICAL	
Maximum power	8 kW
Voltage	400V 3P, N, PE AC
Frequency	50-60 Hz
SPINDLE	
Maximum power	5,6 kW
Maximum rotation speed	20.000 rpm
Tool holder	HSK F50
Cooling type	Liquid
TOOL STORAGE	
Automatic Linear Type Tools Magazine	●
Maximum tool storage system number	4
CONTROL UNIT	
Industrial PC - Touch Screen	15”
Data transfer via remote network connection, Ethernet and USB	●
Barcode reader	●
OPERATIONAL AREA	
Lateral Clamps pcs	4
Vertical Clamps pcs	4
Automatic Tool cooling system	●
Guard cabin for machining area	●
FANUC automation system	●
X Axis (Gripper) Automatic Lubrication System	○
Automatic lubrication system for X, Y and Z axes	●

● Standard ○ Opsiyonal

Özçelik Makina continuously improves its products and offers new and modern solutions for PVC and Aluminum Profile Processing. Accordingly, Özçelik reserves the right to change the information in this document without notice. All dimensions and weights are reference values. Valid from January 2025