

## Router 620

### Fast PCB separation with high production volumes

JOT Automation Router 620 provides accurate and clean module cutting from panels. It is fast, compact and can handle wider boards than our previous routers. Easy and precise cell teaching ensures production keeps running constantly.

JOT Automation Router 620 is quick to set up and supports multiple languages as a standard feature. Automatic dust removal system keeps modules dust-free and requires less machine maintenance.

- Separates PCB modules from the panel
- Accurate and clean cut
- Easy and precise cell teaching
- Compact footprint
- High production volumes
- Short product set-up time
- Built-in multi-language support
- Dust removal system



## MACHINE IDENTIFICATION

Machine name: Router G20

## STANDARD FEATURES

Infeed conveyor flow direction from left to right

Cutting tool breakage control

Pneumatic milling tool change

HF motor spindle and converter

PC-based machine control software

DXF file support for teaching cutting points

Automatic tool change: 10 spare spindles

Laser sensor for machine calibration and product teaching

Vacuum monitoring system

Crash detection sensor

Ionization

Graphical user interface

Touch screen

ESD-safe design

CE-safety compliant

## CONTACT INFO

[www.jotautomation.com](http://www.jotautomation.com)

## INSTALLATION REQUIREMENTS

Power supply: 3P/N/PE 400 VAC, 50/60 Hz, 32 A

Power consumption: 1000 W  
(The surface cleaning main unit and the dust extractor not included.)

Pressurized air connection: 0.6 MPa, 800 l/min dry (87 psi, max. 15.9 cfm)

## OPTIONS

Pallet output conveyor

Shuttle output

Flatbelt output

Tray feeder output

Fail module handling; verification and rejection from cell, rejection conveyor

Code reader

Additional cleaning system after cutting

Servo gripper

Pneumo gripper

Gripper finger change unit

Tool rack for product specific fingers

PCB Flipping unit after cutting

Dust removing system

Infeed conveyor flow direction from right to left

## BOARD SPECIFICATION

Material: FR4, FR4 with copper layers

Dimensions:

- Max. PCB size (LxW): 620 x 620 mm
- Min. PCB size (LxW): 50 x 50 mm

Thickness: 0.6–4.0 mm

Height of components on board:

- Top side: 60 mm
- Bottom side: 30 mm

## TECHNICAL CHARACTERISTICS

Weight approx: 2000 kg

Spindle speed: 5 000 – 50 000 rpm

Chuck diameter: 3.175 mm

Product cutting accuracy:  $\pm 0.1$ mm (at 6 $\sigma$ )

Conveyor height: 950  $\pm$ 50 mm

Noise level: 87 dB(A)



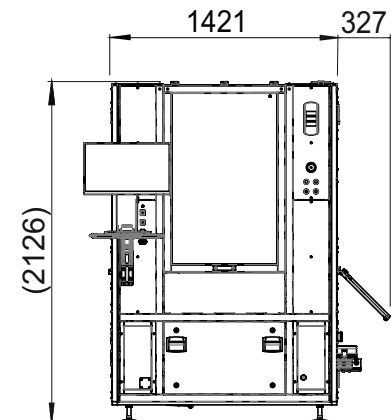
## AXES

### Product handling manipulator

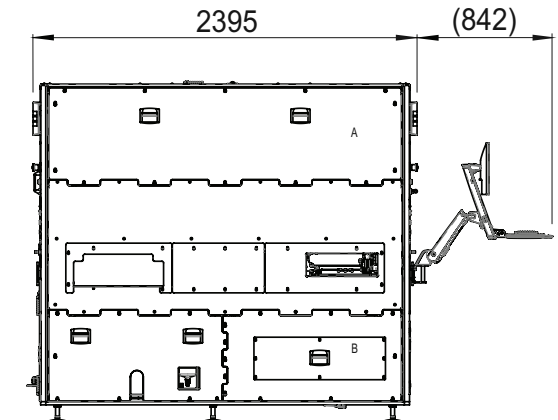
	Travel	Speed max.	Repeatability
X-axis	800 mm	1.5 m/s	$\pm 0.02$ mm
Y-axis	1750 mm	1.5 m/s	$\pm 0.02$ mm
Z-axis	130 mm	0.6 m/s	
W-axis	360 deg.		$\pm 0.05^\circ$

### Product milling manipulator

	Travel	Speed max.	Repeatability
X-axis	820 mm	1 m/s	$\pm 0.02$ mm
Y-axis	640 mm	1 m/s	$\pm 0.02$ mm
Z-axis	60 mm	0.6 m/s	



Router G20



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