



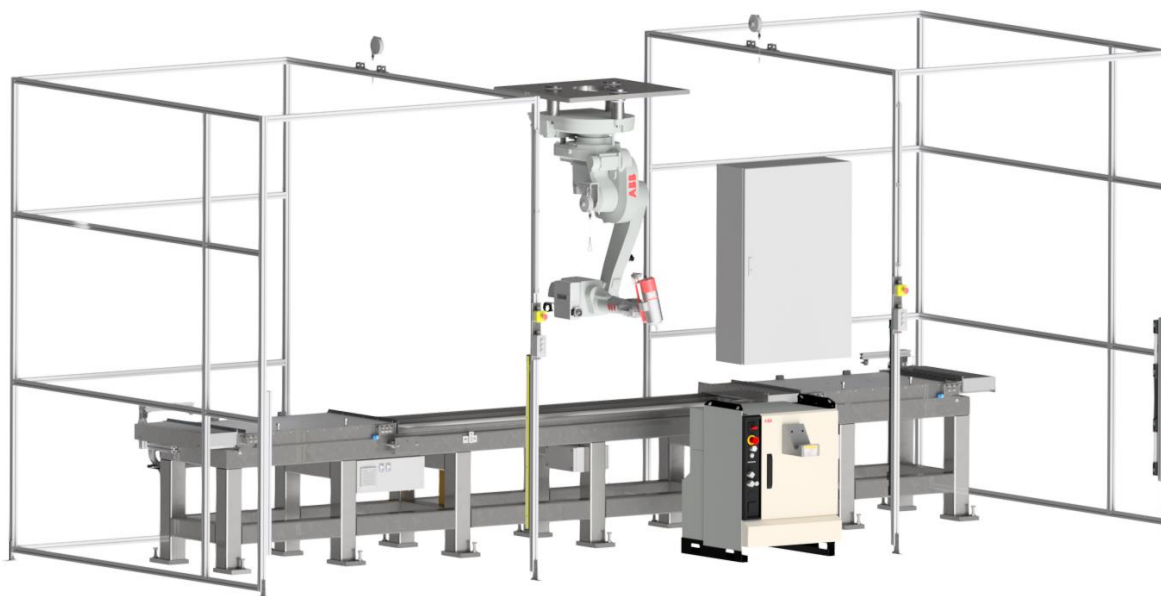
BUMR-X-n Balak Robot Machining Cell Manufacturer | Working Tables



A machining cell with a ceiling mounted industrial robot, an electric spindle controlled by a frequency converter, attached to the robot flange and up to 2 working tables. Working table with workpiece clamped in can be static or on a carriage controlled from the robot, thus extending the machining reach of the robot and moving out of the cabin to the operator's area. The cabin of the working space is equipped with a safety door with a handle. The operator's handling area, with access for the crane, is fenced and secured with light curtains. The cell can be controlled from the robot or from master control system.

Key features:

1 robot | 2 working tables | 1 spindle | 1000+ customization options

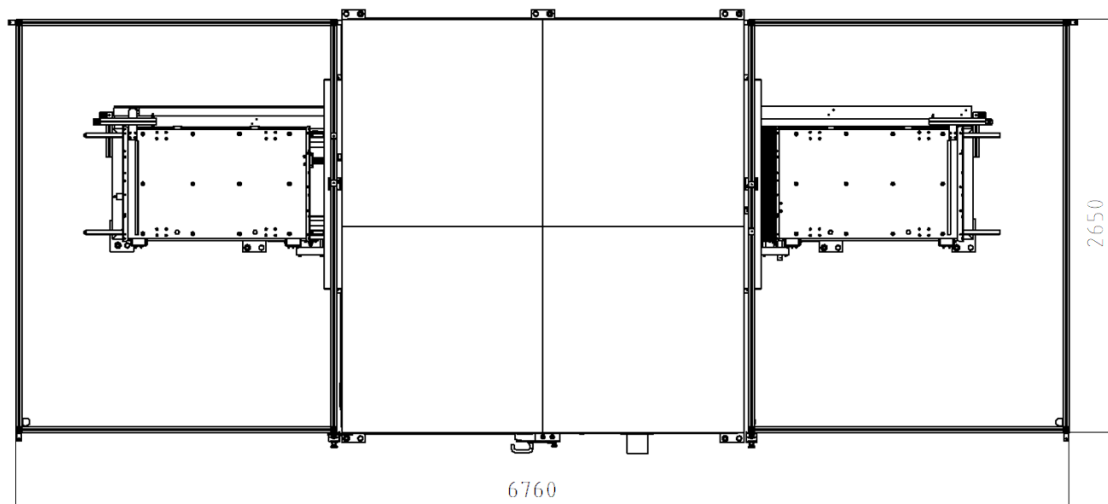




Robot	Reach (mm)	Payload (kg)	Programming Environment
ABB IRB 1600 BUMR-A-x	1,450	10	RobotStudio
Fanuc M-10iD/10L BUMR-F-x	1,636	10	RoboGuide
KUKA KR Cybertech nano2 BUMR-K-x	1,440	10	KUKASim
Stäubli TX2-90XL BUMR-S -x	1,450	7	Robotics Suite

Source: new.abb.com; fanuc.eu; kuka.com; staubli.com

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Specs	Metric
Workpiece Materials	Plastic, Wood, Aluminum
Operations	Drilling, Milling
Robot Manufacturer	see Table
Reach	see Table
Payload	see Table
Programming Environment	see Table
Continuous machining	opt
Travels X/Y/Z	1,200/900/800
Table Dimensions X/Y	1,100/700
Table Connection	12 × M16 + 4 × DIN 1B 12
T-Slots	opt
Work Tables	1/2 (opt)
Work Tables – driven axis	0/1/2 (opt)
Table-to-Table Time	5 secs
Clamping Fixture Design	opt
Spindle	Jäger Chopper 1500 D
Power	3.5 kW
Spindle RPM	30,000
Machining Conditions Optimization	✓
Spindle Interface	8 mm Collet
Tool Changer	✓(10 Tools)
Tool Setting Probe	opt
Automatic / Manual Mode	✓
Control System	Robot
Master Control System	opt (Siemens Simatic ET200sp)
HMI	Robot Teach Pendant
Master HMI	opt (Siemens HMI)
Other Device Communication I/O	opt
ProfiNET Communication	opt
Robot Teach Pendant	✓
Industrial Vacuum	opt
Machine Covers	✓



Safety Door with Handle	✓
Safety Fence with Safety Light Curtain	opt
Lubrication System	✓
Automatic Lubrication System	opt
Enclosure Air Conditioner	opt
Machine Dust-Proof Design	opt
High-Intensity Lighting	✓
Camera and Screen	opt
2 Automatic Doors	opt
Machine Status Light	✓
Ethernet Interface	✓
Remote monitoring – LAN connected	opt
Remote monitoring – SIM connected	opt
Metric Design	✓
Machine Labels – Czech	✓
Machine Labels – English / other languages	opt
Instruction Manual printed and digital – Czech	✓
Instruction Manual printed and digital – English / other languages	opt
Spare Parts Drawings	✓
EU declaration of conformity	✓
CE Label	✓
Risk analysis	✓
Operator Training, Programming Training	4 hrs.
Maintenance Training	2 hrs.
Standard Warranty	24 mos.
Extended Warranty	opt
Warranty Repair Start – Czech republic	within 48 hrs. (w/d)
Warranty Repair Start – EU / other countries	opt
Post Warranty Repair Start – CZE / EU / other countries	opt
Customization	opt

✓ – Standard Equipment, **opt** – Optional Equipment

