



Automation Systems



Unlock the power of efficiency with CubeBOX TM

Streamline your workflow and maximize productivity with Tezmaksan Robot Technologies' cutting-edge CNC automation solution. Ready for the future? Contact Tezmaksan today.

Your productivity redefined and revolutionized

The **CubeBOX** TM system from Tezmaksan Robot Technologies offers seamless integration and maximum flexibility.

Compatible with all CNC machines, its cost-effectiveness, quick commissioning, and easy part exchange allows you to enjoy advanced automation without hefty investments. Automation is for everyone. Take your CNC automation to new heights and give our expert team a call today.

Collaborative Robots can also be adapted to all our **CubeBOX** TM systems.





TEZMAKSAN
ROBOT TECHNOLOGIES

CubeBOXTM Blues DR

Thanks to our innovative, compact robot cell **CubeBOXTM** system, such that up to 3 CNC machines can be operated without downtime during loading and unloading the workpieces, from the new or existing machine(s) without any brand restriction.

Tezmaksan **CubeBOXTM** system gives you the flexibility to quickly respond to your clients. We enable you to profitably run small and medium-sized batches with quick set-up times.

CubeBOXTM Blues Models:

BLUES DR - Drawer Type

BLUES MINI - Drawer Type with Narrow Body Construction

BLUES MAX - Drawer Type with Wide Body Construction

- › Automation of all CNC machines (lathes, grinding and milling machines etc.) and presses as well
- › Loading through the front or side door of the CNC machine
- › Suitable for any brand of CNC machine
- › 6-axis robot with a wide range of loads
- › 7-axis robot with slider system
- › Multiple production series in one production run
- › Many different gripper options
- › Standard 5 to 8 robust product drawers
- › Refilling of workpieces during operation
- › Variable product heights due to a widely variable drawer system

Blues DR

- 1 6 Axis industrial robot
- 2 Industrial PC with RoboCAM
- 3 Teach pendant
- 4 Gripper and finger set
- 5 Drawer + inlay
- 6 Area sensor/scanner



CubeBOXTM Blues

CubeBOXTM Blues system gives you the flexibility to quickly respond to your clients. We enable you to profitably run small and medium - sized batches with quick set-up times.



DR STANDARD

- > 6 Axis robot 12 kg. / 25 kg. payload
- > 5-8 Drawers with 800mm x 600mm size each
- > Suitable for tending up to 2 CNC machines
- > **RoboCAM** smart automation software
- > Easy and quick set-up

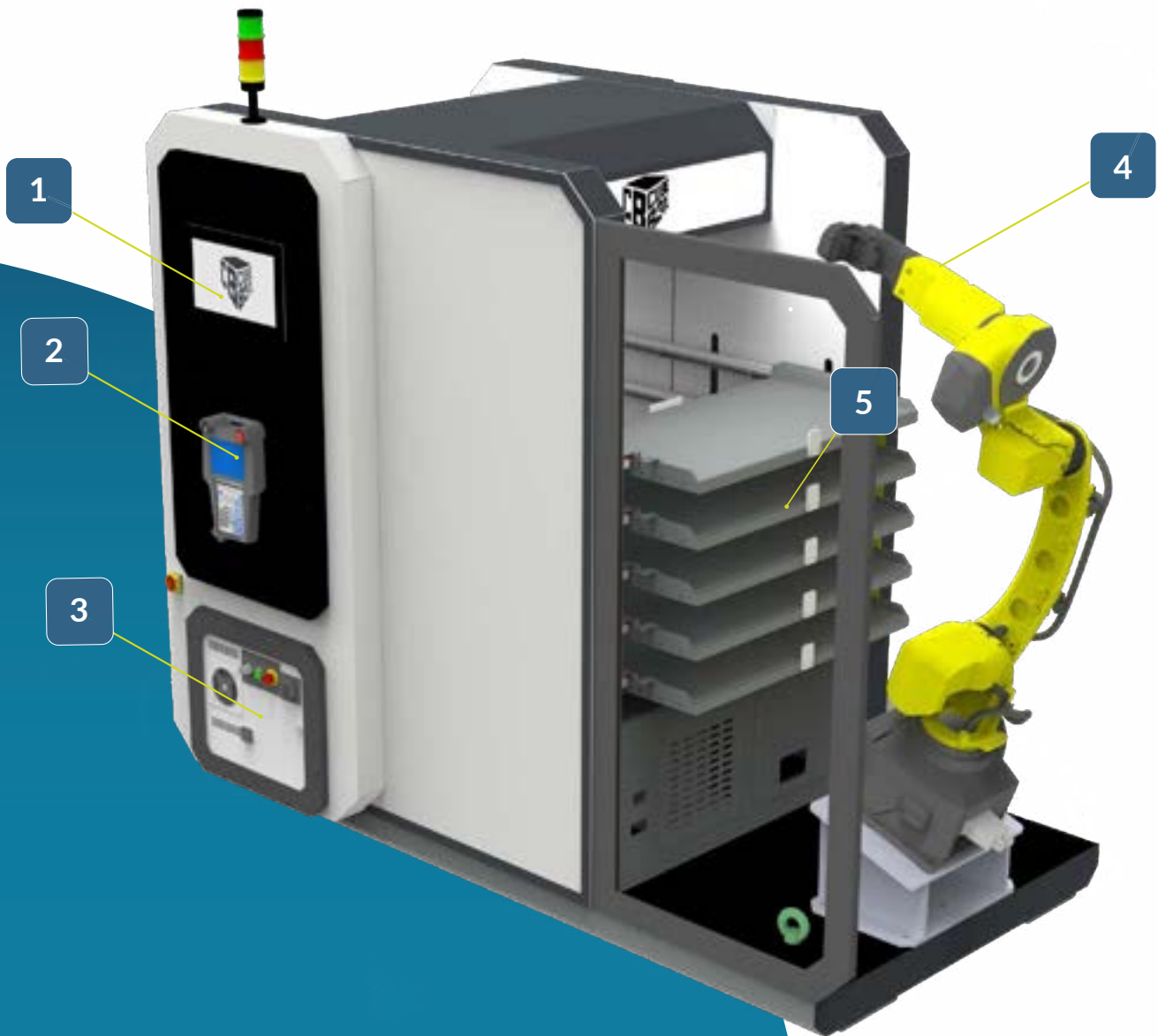


CubeBOXTM Blues

DR-3P

> Uninterrupted operation of the system during loading the workpieces onto the stocking area.

- 1 Industrial PC with RoboCAM**
- 2 Teach pendant**
- 3 Robot controller**
- 4 6 Axis industrial robot**
- 5 3 Position drawer + inlay**



- Compatible With 12 kg / 25 kg and 35 kg 6 axis robot
- 5-7 Drawers with 900mm x 500mm size each
- Suitable for tending up to 2 CNC Machines
- **RoboCAM** smart automation software
- Easy and quick set-up

- 1 Operator load & unload position during operation**
- 2 Safety zone for operator and/or robot pull position**
- 3 Robot pick & place position**

CE



CubeBOXTM Blues

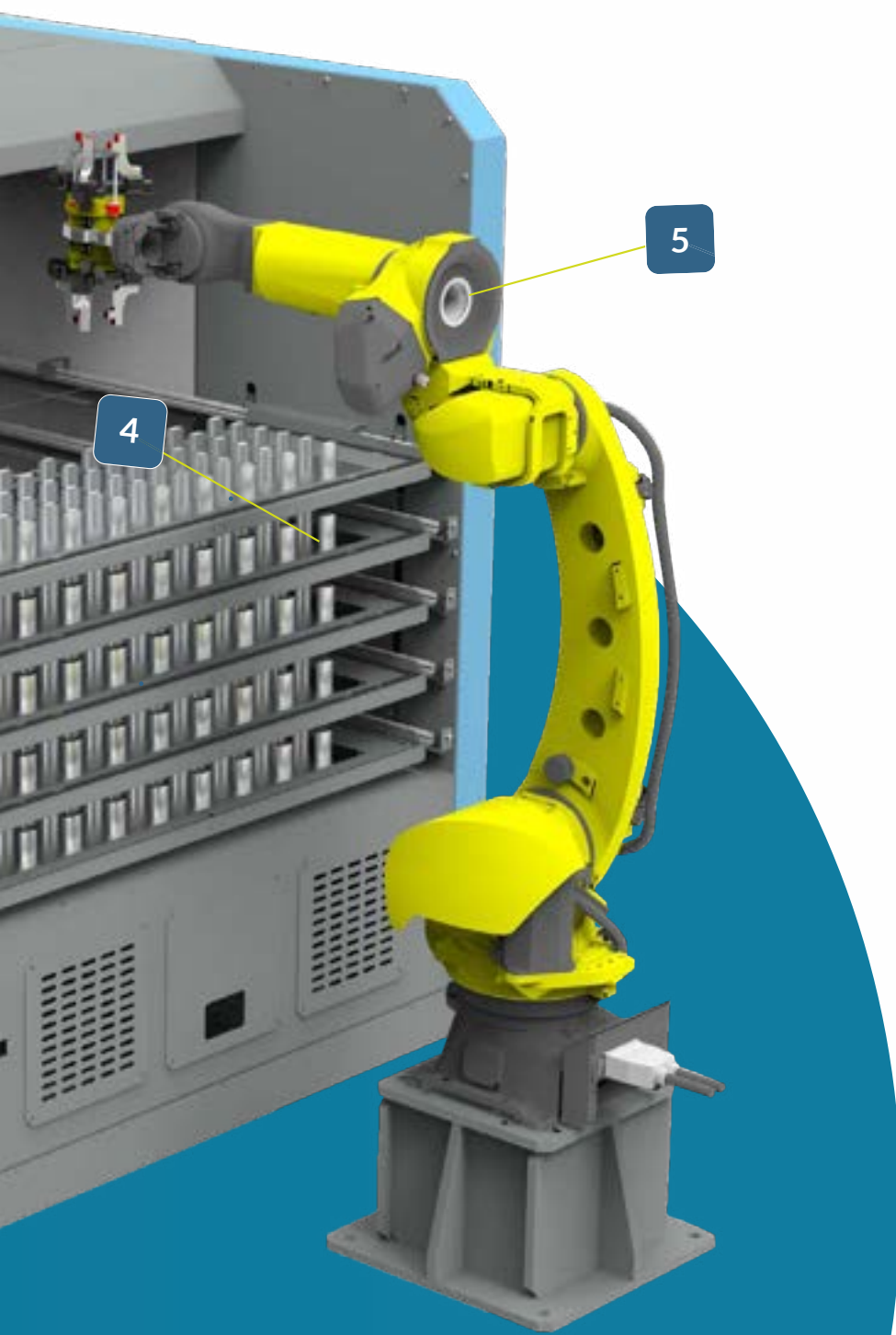
DR Max-3P

- 1 Industrial PC with RoboCAM
- 2 Teach pendant
- 3 Robot controller
- 4 3 Position drawer + inlay
- 5 6 Axis industrial robot



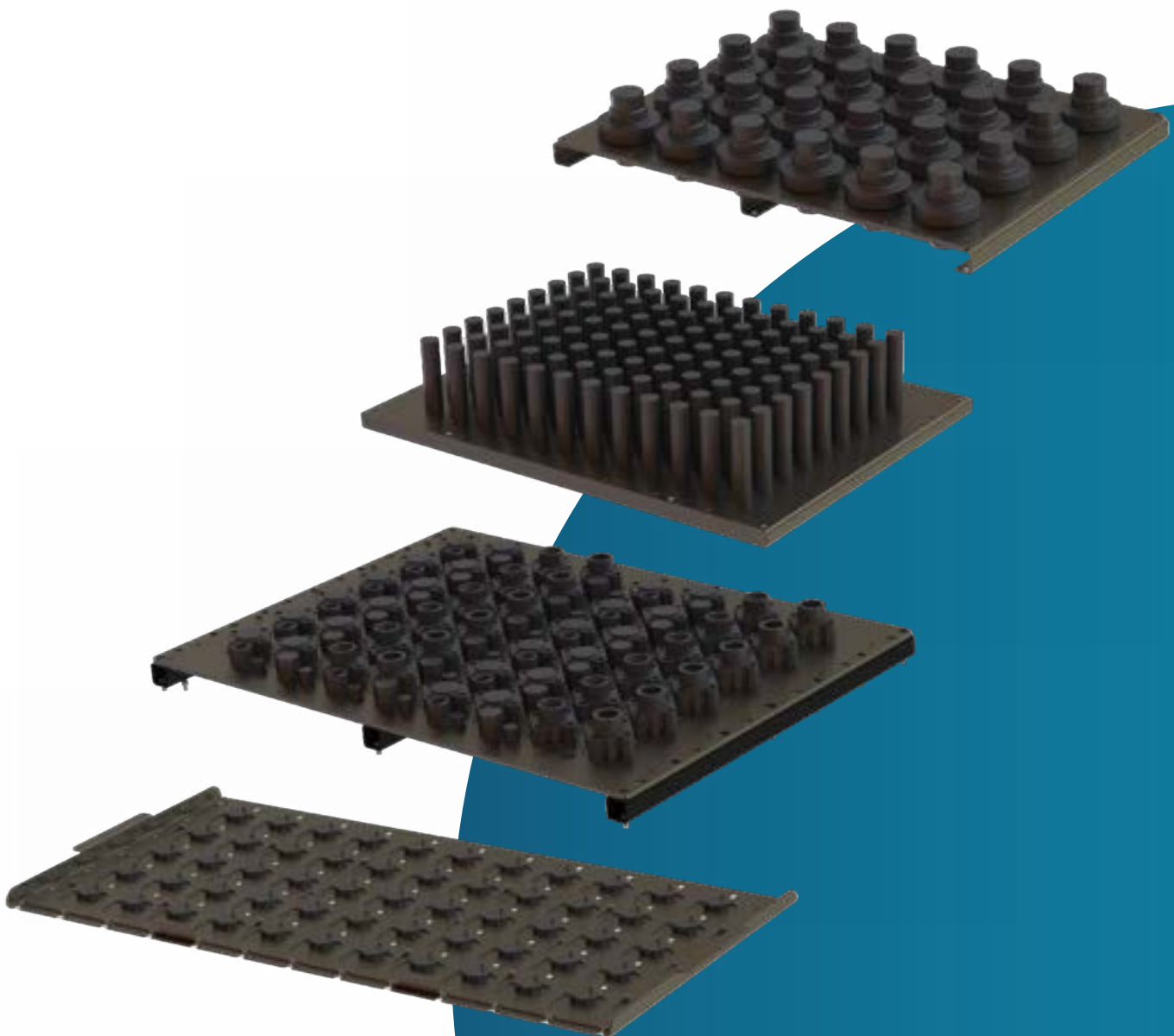
- › Compatible With 25 kg / 35 kg and above 6 axis robot
- › 5-7 Drawers with 1300mm x 500mm size each
- › Suitable for tending up to 3 CNC machines
- › **RoboCAM** smart automation software
- › Easy and quick set-up

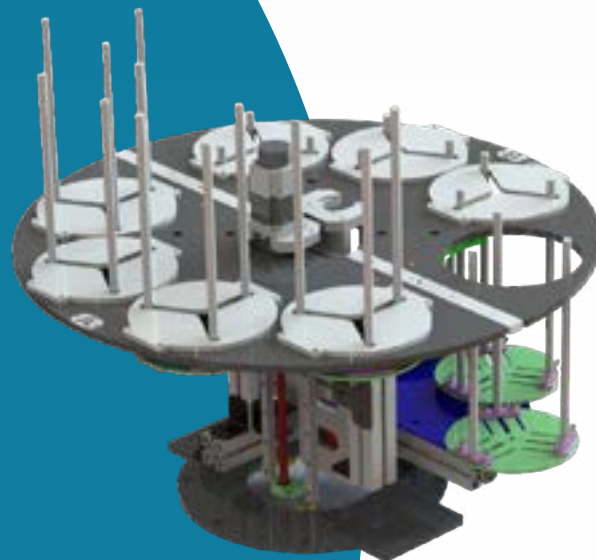
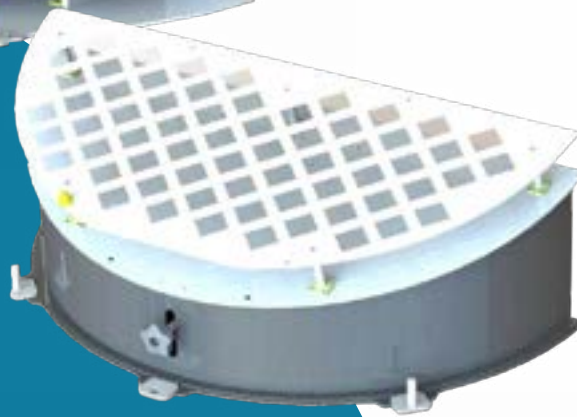
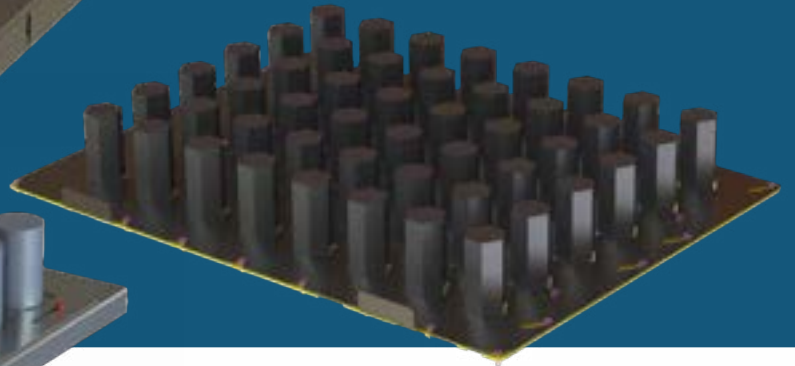
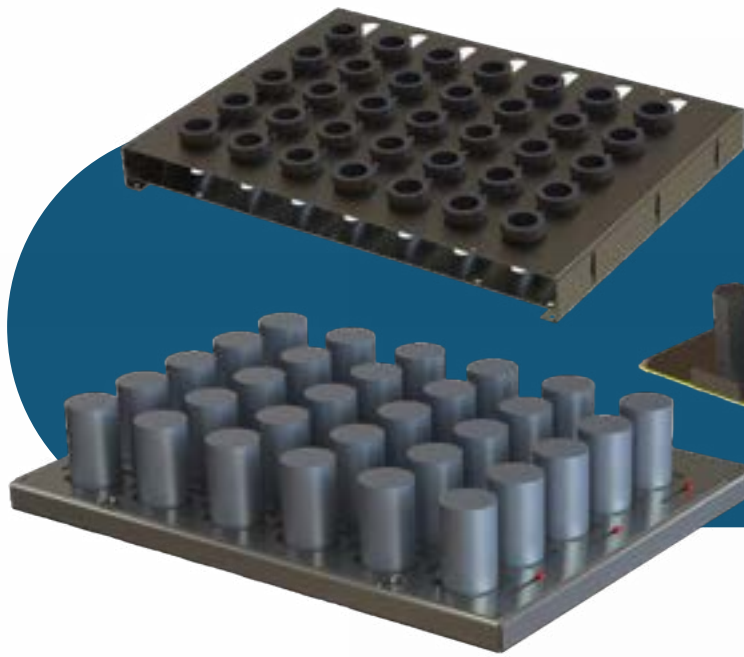
CE



Inlays

Tezmaksan's dynamic and talented engineering team is 24/7 available to support the needs of the customers. In our customer-specific, workpiece-specific design work, we always offer you solutions by prioritizing flexibility and the ability to automate diverse workpieces.







Thanks to our innovative, compact robot cell **CubeBOX** system such that up to 3 CNC Machines can be operated without downtime during loading and unloading the workpieces from the machine(s) without any brand restriction.

Our user-friendly software **RoboCAM** converts 2D CAD Drawings of the workpieces to CAM, so Robot programming and CAM knowledge are not needed anymore. The operator has only one thing to do, loading and unloading the workpiece.

As an engineering company, we are focusing on Industry 4.0 with turnkey projects, automation integration, installation, and after-sales services.

ROBOCAM+

Plus



- Creating a programmatic workflow that allows for any type of transport scenario
- Floor and part tracking thanks to the object-oriented structure
- Collision and error protection linked to part tracking
- Duration and efficiency calculation and reporting
- Station-based work structure where every point the part passes through is defined
- Multipart work allowing multiple parts to be stacked in the tray slot or at stations
- Fully compatible with Fanuc and Kuka robots
- Programming logic similar to the commands within the robot
- Ability to save and reuse robot movement positions
- U-Frame calculation from 3 points
- Real-time display of cell models created with RoboCell Software through 3D modeling
- Theme selection (Blue, dark, and light)

CubeBOXTM ServoDOOR

> CubeBOXTM ServoDOOR - Single Door

CubeBOXTM ServoDOOR You can use the single door model for your CNCs. Our one-door models are equipped with servo motors.

Stroke	L
750	1000
1115	1365
1615	2115
2115	2365

> CubeBOXTM ServoDOOR - Double Door

You can use the **CubeBOXTM ServoDOOR** double door single unit model for your double door CNCs. We have models equipped with servo motors.

Stroke	L
750	1000
1115	1365
1615	2115
2115	2365

CubeBOXTM ServoDOOR - Double Door Double Unit



- > You can use the **CubeBOXTM ServoDOOR** double door double unit model for your double door CNC machines. We have models equipped with servo motors.

Stroke	L
2x750	1950
2x1000	2450
2x1250	2950
2x1500	3450
2x2000	4450

- > **Energy consumption:** It saves costs to a minimum level. The energy consumption of it is equal to a 65W light bulb during operation.
- > **Operator Errors:** It communicates with the CNC, minimizing the errors, malfunctions caused by the operators. the **CubeBOXTM ServoDOOR** is a universal system that can be connected to any brand of new or present CNC machines.
- > **Work safety:** Protects operators from injuries and accidents.



		CubeBOX Blues DR MINI	CubeBOX Blues DR SPACE CABINET
PROPERTIES	Version	COMPACT V01***	COMPACT V01***
	Minimum Clamping Diameter for Round Steel Workpieces**	5 mm.	5 mm.
	Maximum Clamping Diameter for Round Steel Workpieces**	350 mm.	-
	Minimum Edge Width for Hexagonal Steel Workpieces**	10 mm.	-
	Maximum Edge Width for Hexagonal Steel Workpieces**	80 mm.	80 mm.
	Maximum Height of Steel Workpiece**	80-100 mm.	105 mm. (5 Drawer)
	Minimum Usable Pallet Width	-	-
	Maximum Usable Pallet Width	-	-
	Cell Depth	1220 mm.	1110 mm.
	Cell Width	1600 mm.	2106 mm.
	Cell/Guard Height	2229 mm.	2420 mm.
	Total Weight of Standard Cell	1150 Kg.	1000 Kg.
	Supply Voltage	Single Phase 220 V AC	Single Phase 380 V AC
	Air Consumption	<80 L/min.	<80 L/min.
	Maximum Load on each Drawer	200 Kg.	100 Kg.
PAYLOAD	Maximum Total Load on Rotating System	-	-
	7 Kg Payload Capacity	•	•
	10 Kg Payload Capacity		•
	12 Kg Payload Capacity	•	
	14 Kg Payload Capacity		•
	25 Kg Payload Capacity		
	35 Kg Payload Capacity		
	50 Kg Payload Capacity		
	70 Kg Payload Capacity		
STANDARD SPECIFICATIONS	Payload Capacity Above 70 Kg		
	Plug & Play Installation	•	•
	Pneumatic Door Automation for 1 CNC Machine	•	•
	Safety Fence for 1 CNC Machine	•	•
	Operator-Side Light Curtain Safety	•	•
	Robot-Machine Communication Interface for 1 CNC	•	•
	Separator/ Inlay-Type Workpiece Stacking System	•	•
	Compatible with Round Workpieces	•	•
	Compatible with Hexagonal Workpieces	•	•
	Compatible with Casted & Forged Workpieces	•	•
	3-Color Industrial Signal Tower	•	•
	Supports Single Gripper Configuration	•	•
	Supports Multi-Gripper Configuration	•	•
OPTIONAL ACCESSORIES	RoboCAM Smart Automation Software and Industrial PC	•	•
	Air Blow-Off Cleaning Function with Nozzle	•	•
	CNC Door Automation with CubeBOX ServoDOOR	◦	◦
	FANUC / KUKA / ABB / YASKAWA / CRP Robot Integration	◦	◦
	Automatic Measuring Station	◦	◦
	Manual Measuring Station	◦	◦
	Deburring (Burr Removal) Station	◦	◦
	CubeBOX AMR Integration		
	Area Scanner / Sensor	◦	◦
	3rd Safety Light Curtain on Operator Side	◦	◦
	Air-Flow Based Cleaning Station	◦	◦
	Manual Measuring Station	◦	◦
	Profinet Communication Protocol	◦	◦
	I/O Link Communication Protocol	◦	◦
	Ethernet/IP Communication Protocol	◦	◦
	Universal Tool Changer	◦	◦
	Workpiece Rotation Unit	◦	◦
	Workpiece Orientation & Adjustment Unit	◦	◦
	7th Axis Linear Rail (Slider) for Multi-CNC Machine Tending	◦	◦

**** Calculated for Steel Round Bar *** Robot and Cell Integrated Body**

*** Robot and Cell Integrated Body

		CubeBOX Blues RT	CubeBOX Blues RT-S
PROPERTIES	Version	COMPACT V01***	COMPACT V01***
	Minimum Clamping Diameter for Round Steel Workpieces**	5 mm.	5 mm.
	Maximum Clamping Diameter for Round Steel Workpieces**	200 mm.	200 mm.
	Minimum Edge Width for Hexagonal Steel Workpieces**	10 mm.	10 mm.
	Maximum Edge Width for Hexagonal Steel Workpieces**	100 mm.	100 mm.
	Maximum Height of Steel Workpiece**	400 mm.	400 mm.
	Minimum Usable Pallet Width	-	-
	Maximum Usable Pallet Width	-	-
	Cell Depth	1704 mm.	1704 mm.
	Cell Width	1925 mm.	1925 mm.
	Cell/Guard Height	2395 mm.	2395 mm.
	Total Weight of Standard Cell	1250 Kg.	1400 Kg.
	Supply Voltage	Three Phase 380 V AC	Three Phase 380 V AC
	Air Consumption	<80L/min.	<80L/min.
	Maximum Load on each Drawer		-
	Maximum Total Load on Rotating System	200 Kg.	200 Kg.
PAYLOAD	7 Kg Payload Capacity	•	•
	10 Kg Payload Capacity	•	•
	12 Kg Payload Capacity	•	•
	14 Kg Payload Capacity	•	•
	25 Kg Payload Capacity	•	•
	35 Kg Payload Capacity		
	50 Kg Payload Capacity		
	70 Kg Payload Capacity		
	Payload Capacity Above 70 Kg		
STANDARD SPECIFICATIONS	Plug & Play Installation	•	•
	Pneumatic Door Automation for 1 CNC Machine	•	•
	Safety Fence for 1 CNC Machine	•	•
	Operator-Side Light Curtain Safety	•	•
	Robot-Machine Communication Interface for 1 CNC	•	•
	Separator/ Inlay-Type Workpiece Stacking System	•	•
	Compatible with Round Workpieces	•	•
	Compatible with Hexagonal Workpieces	•	•
	Compatible with Casted & Forged Workpieces	•	•
	3-Color Industrial Signal Tower	•	•
	Supports Single Gripper Configuration	•	•
	Supports Multi-Gripper Configuration	•	•
	RoboCAM Smart Automation Software and Industrial PC	•	•
	Air Blow-Off Cleaning Function with Nozzle	•	•
OPTIONAL ACCESSORIES	CNC Door Automation with CubeBOX ServoDOOR	◊	◊
	FANUC / KUKA / ABB / YASKAWA / CRP Robot Integration	◊	◊
	Automatic Measuring Station	◊	◊
	Manual Measuring Station	◊	◊
	Deburring (Burr Removal) Station	◊	◊
	CubeBOX AMR Integration		
	Area Scanner / Sensor	◊	◊
	3rd Safety Light Curtain on Operator Side	◊	◊
	Air-Flow Based Cleaning Station	◊	◊
	Manual Measuring Station	◊	◊
	Profinet Communication Protocol	◊	◊
	I/O Link Communication Protocol	◊	◊
	Ethernet/IP Communication Protocol	◊	◊
	Universal Tool Changer	◊	◊
	Workpiece Rotation Unit	◊	◊
	Workpiece Orientation & Adjustment Unit	◊	◊
	7th Axis Linear Rail (Slider) for Multi-CNC Machine Tending	◊	◊

		CubeBOX AMR SOUL	CubeBOX HEXAGON TOWER
PROPERTIES	Minimum Clamping Diameter for Round Steel Workpieces**	10 mm.	.
	Maximum Clamping Diameter for Round Steel Workpieces**	350 mm.	.
	Minimum Edge Width for Hexagonal Steel Workpieces**	10 mm.	.
	Maximum Edge Width for Hexagonal Steel Workpieces**	200 mm.	.
	Maximum Height of Steel Workpiece**	250 mm.	400 mm. (Adjustable)
	Minimum Usable Pallet Width	.	48 x 250 mm.
	Maximum Usable Pallet Width	.	24 x 600 mm.
	Cell Depth	1750 mm.	2000 mm.
	Cell Width	2000 mm.	2500 mm.
	Cell/Guard Height	2200 mm.	2750 mm.
	Total Weight of Standard Cell	1500 Kg.	2500 Kg.
	Maximum Load on each Shelf	.	200 Kg.
	Supply Voltage	Single Phase 220 V AC	Single Phase 220 V AC
	Air Consumption	<80L/min.	<80L/min.
PAYLOAD	12 Kg Payload Capacity	•	.
	20 Kg Payload Capacity	•	•
	35 Kg Payload Capacity	•	•
	Payload Capacity Above 35 Kg	•	Max. 80 Kg
	AMR (Autonomous Mobile Robot)	•	.
	500 Kg Payload Capacity	•	.
	600 Kg Payload Capacity	◦	.
	1000 Kg Payload Capacity	◦	.
	Maximum Workpiece Dimensions	1200 x 1200 mm.	.
	Maximum Speed	<2.2 m/s	.
	Positioning Accuracy	± 10mm	.
	Stop Angle Precision	±1°	.
STANDARD SPECIFICATIONS	Plug & Play Installation	•	•
	Pneumatic Door Automation for 1 CNC Machine	•	•
	Safety Fence for 1 CNC Machine	•	•
	Operator-Side Light Curtain Safety	2 Set	2 Pcs
	Robot-Machine Communication Interface for 1 CNC	•	•
	Separator/ Inlay-Type Workpiece Stacking System	•	•
	Compatible with Round Workpieces	•	•
	Compatible with Hexagonal Workpieces	•	•
	Compatible with Casted & Forged Workpieces	•	•
	3-Color Industrial Signal Tower	•	•
	Supports Single Gripper Configuration	•	•
	Supports Multi-Gripper Configuration	•	•
	RoboCAM Smart Automation Software and Industrial PC	•	•
	Air Blow-Off Cleaning Function with Nozzle	•	•
OPTIONAL ACCESSORIES	CNC Door Automation with CubeBOX ServoDOOR	◦	◦
	FANUC / KUKA / ABB / YASKAWA / CRP Robot Integration	◦	◦
	Automatic Measuring Station	◦	◦
	Deburring (Burr Removal) Station	◦	◦
	CubeBOX AMR Integration	◦	
	Area Scanner / Sensor	◦	◦
	3rd Safety Light Curtain on Operator Side	◦	◦
	Air-Flow Based Cleaning Station	◦	◦
	Manual Measuring Station	◦	◦
	Automatic Measuring Station	◦	◦
	Profinet Communication Protocol	◦	◦
	I/O Link Communication Protocol	◦	◦
	Ethernet/IP Communication Protocol	◦	◦
	Universal Tool Changer	◦	◦
	Workpiece Rotation Unit	◦	◦
	Workpiece Orientation & Adjustment Unit	◦	◦
	7th Axis Linear Rail (Slider) for Multi-CNC Machine Tending	◦	◦

◦ Accessories excluded in the Price

• Accessories included in the Price

*Suitable for 8" - 10" (Inch) CNC Horizontal Lathes

		CubeBOX SOUL S	CubeBOX SOUL M	CubeBOX SOUL L
PROPERTIES	Version	COMPACT V01***	COMPACT V01***	COMPACT V01***
	Minimum Clamping Diameter for Round Steel Workpieces**	5 mm.	5 mm.	5 mm.
	Maximum Clamping Diameter for Round Steel Workpieces**	100 mm.	180 mm.	No limit
	Minimum Edge Width for Hexagonal Steel Workpieces**	10 mm.	10 mm.	10 mm.
	Maximum Edge Width for Hexagonal Steel Workpieces**	100 mm.	180 mm.	180 mm. and more
	Maximum Height of Steel Workpiece**	100 mm.	100 mm.	180 mm. and more
	Minimum Usable Pallet Width	2150 mm.	2500 mm.	Min 5000 mm.
	Maximum Usable Pallet Width	1700 mm.	2000 mm.	Min 5000 mm.
	Cell Depth	2150 mm.	2200 mm.	2200 mm.
	Cell Width	600 Kg.	1000 Kg.	1250 Kg.
	Supply Voltage	Three Phase 220 V AC	Three Phase 380 V AC	Three Phase 380 V AC
	Maximum Load on each Tray	200 Kg.	200 Kg.	200 Kg.
	Air Consumption	<80L/min.	<80L/min.	<80 L/min.
PAYLOAD	12 Kg Payload Capacity	•	•	•
	25 Kg Payload Capacity	•	•	•
	35 Kg Payload Capacity	•	•	•
	Payload Capacity Above 35 Kg			•
STANDARD SPECIFICATIONS	Plug & Play Installation	•	•	•
	Pneumatic Door Automation for 1 CNC Machine	•	•	•
	Safety Fence for 1 CNC Machine	•	•	•
	Operator-Side Light Curtain Safety	•	•	•
	Robot-Machine Communication Interface for 1 CNC	•	•	•
	Separator / Inlay-Type Workpiece Stacking System	•	•	•
	Compatible with Round Workpieces	•	•	•
	Compatible with Hexagonal Workpieces	•	•	•
	Compatible with Casted & Forged Workpieces	•	•	•
	3-Color Industrial Signal Tower	•	•	•
	Supports Single Gripper Configuration	•	•	•
	Supports Multi-Gripper Configuration	•	•	•
	RoboCAM Smart Automation Software and Industrial PC	•	•	•
OPTIONAL ACCESSORIES	Air Blow-Off Cleaning Function with Nozzle	•	•	•
	CNC Door Automation with CubeBOX ServoDOOR	◦	◦	◦
	FANUC / KUKA / ABB / YASKAWA / CRP Robot Integration	◦	◦	◦
	Automatic Measuring Station	◦	◦	◦
	Deburring (Burr Removal) Station	◦	◦	◦
	CubeBOX AMR Integration			
	Area Scanner / Sensor	◦	◦	◦
	3rd Safety Light Curtain on Operator Side	◦	◦	◦
	Air-Flow Based Cleaning Station	◦	◦	◦
	Manual Measuring Station	◦	◦	◦
	Automatic Measuring Station	◦	◦	◦
	Profinet Communication Protocol	◦	◦	◦
	I/O Link Communication Protocol	◦	◦	◦
	Ethernet/IP Communication Protocol	◦	◦	◦
	Universal Tool Changer	◦	◦	◦
	Workpiece Rotation Unit	◦	◦	◦
	Workpiece Orientation & Adjustment Unit	◦	◦	◦
	7th Axis Linear Rail (Slider) for Multi-CNC Machine Tending	◦	◦	◦

◦ Accessories excluded in the Price

• Accessories included in the Price

*Suitable for 8" - 10" (Inch) CNC Horizontal Lathes

NOTES



TEZMAKSAN
ROBOT TECHNOLOGIES

Version 070325

The information provided in this product catalogue is intended for general informational purposes only. Product specifications are subject to change without notice. For accurate details, please contact us directly.

