



CNC **Automation** Systems



TEZMAKSAN
ROBOTICS TECHNOLOGIES



Smart Factories Are Smarter And Faster With Cubebox System

With the **CUBEBOX** system, machines can be operated without any downtime and it minimizes the need of trained operators. **CUBEBOX** system helps to increase the efficiency of both your operators and your machines. With its standard structure, it is compatible with all CNC machines and control units and can be adapted to all brands of robots. It is 20% cheaper than company-specific robot integration systems.

Due to the complete plug-and-play solution, it can be commissioned in just 1 day. With its flexible and compact structure, it can be easily transported from machine to machine in the factory. Tezmaksan **CUBEBOX** 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.



50% Efficiency Increase
In Night Shifts



24 Hours Operator-free
Operation



Taylor Made
Solutions



User Friendly
Easy and Fast Installation



Suitable For All Types Of
Cnc Lathes, Machining
Centers And Grinding
Machines



Fast Loading & Unloading
Of The Workpieces



TEZMAKSAN

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 drawing of the workpiece to CAM, so Robot programming and CAM knowledge is not needed anymore. The only job left to operator is to fill and empty the magazine.

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





CUBEBOX BLUES



Tezmaksan **CUBEBOX** 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.

Technical Specifications

Cubebox Blues DR

- ▶ 6 Axis Robot 12 kg Payload
- ▶ Portable Cell
- ▶ 5 – 8 Drawer Stacker with 600 mm. – 800 mm. size each
- ▶ Max. Workpiece height 135 mm.
- ▶ Steel Round Bar Workpiece Min. – Max. Diameter: 5 – 550 mm.
- ▶ Easy and Quick set-up
- ▶ RoboCAM Smart Automation Software
- ▶ Touch panel PC
- ▶ Suitable for tending up to 2 CNC Machines
- ▶ CE Regulation

Cubebox Blues DR MAX

- ▶ 6 Axis Robot 12 kg -35 kg. Payload
- ▶ 5 – 8 Drawer Stacker with 1.200 mm. – 600 mm. size each
- ▶ Max. Workpiece height 135 mm.
- ▶ Steel Round Bar Workpiece Min. – Max. Diameter: 5 – 750 mm.
- ▶ Easy and Quick set-up
- ▶ RoboCAM Smart Automation Software
- ▶ Touch panel PC
- ▶ Suitable for tending up to 3 CNC Machines
- ▶ CE Regulation

Cubebox Blues DR MINI

- ▶ 6 Axis Robot 7 kg
- ▶ Portable Cell
- ▶ 5 – 8 Drawer Stacker with 400 mm. – 600 mm. size each
- ▶ Max. Workpiece height 135 mm.
- ▶ Steel Round Bar Workpiece Min. – Max. Diameter: 5 – 350 mm.
- ▶ Easy and Quick set-up
- ▶ RoboCAM Smart Automation Software
- ▶ Touch panel PC
- ▶ Suitable for tending single CNC Machine
- ▶ CE Regulation



CUBEBOX BLUES RT



With the **CUBEBOX Blues**, you can stack round parts on top of each other to create more stock space and integrate long round bar parts into the automation system.



Technical Specifications

Cubebox Blues RT

- ▶ 6 Axis Robot 12 kg
- ▶ Portable Cell
- ▶ 1.100 mm Rotational Table – Dual Pallet Stacker
- ▶ Max. Workpiece height 400 mm.
- ▶ Steel Round Bar Workpiece Min. – Max. Diameter: 5 – 120 mm.
- ▶ Easy and Quick set-up
- ▶ RoboCAM Smart Automation Software
- ▶ Touch panel PC
- ▶ Suitable for tending up to 2 CNC Machines
- ▶ CE Regulation



CUBEBOX SOUL



CUBEBOX Soul is our automation solution even for heavy casted and with different surface formed workpieces.

Technical Specifications

Cubebox Soul S

- ▶ 6 Axis Industrial Robot 12 kg. Payload
- ▶ Portable Cell
- ▶ RoboCAM Smart Automation Software
- ▶ Touch panel PC
- ▶ 11 pieces of Metal Racks 800 mm. x 500 mm.
- ▶ Steel Round Bar Workpiece Min. – Max. Diameter: 5 mm. – 100 mm.
- ▶ Suitable for tending up to 2 CNC Machines*
- ▶ Easy and Quick set-up
- ▶ CE Regulation

Cubebox Soul M

- ▶ 6 Axis Industrial Robot 25/35 kg. Payload
- ▶ Portable Cell
- ▶ RoboCAM Smart Automation Software
- ▶ Touch panel PC
- ▶ 11 pieces of Metal Racks 1.000 mm. x 600 mm.
- ▶ Steel Round Bar Workpiece Min. – Max. Diameter: 5 mm. – 180 mm.
- ▶ Suitable for tending up to 2 CNC Machines
- ▶ Easy and Quick set-up
- ▶ CE Regulation

Cubebox Soul L

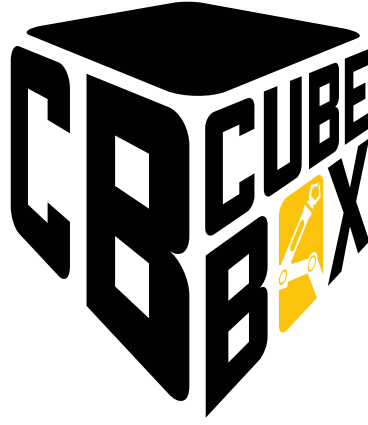
- ▶ 6 Axis Industrial Robot 35 kg. and more Payload
- ▶ RoboCAM Smart Automation Software
- ▶ Touch panel PC
- ▶ 11 pieces of Metal Racks of 1/2/3 Euro-pallet sized
- ▶ Steel Round Bar Workpiece Min. – Max. Diameter: 5 mm. – 1.300 mm
- ▶ Suitable for tending up to 3 CNC Machines
- ▶ Easy and Quick set-up
- ▶ CE Regulation



CUBEBOX



		CUBEBOX SOUL S	CUBEBOX SOUL M	CUBEBOX SOUL L	CUBEBOX BLUES DR MINI	CUBEBOX BLUES DR	CUBEBOX BLUES DR MAX	CUBEBOX BLUES RT
PROPERTIES	VERSION	COMPACT V01 ***	COMPACT V01 ***	SEPERATED ****	COMPACT V01***	COMPACT V01***	SEPERATED ****	COMPACT V01 ***
	Min. Diameter of the Steel Workpiece**	5 mm.	5 mm.	5 mm.	5 mm.	5 mm.	5 mm.	5 mm.
	Max. Diameter of the Steel Workpiece**	100 mm.	180 mm.	Kısıt Yok	350 mm.	550 mm.	750 mm.	120 mm.
	Min. Side Length of the Hexagonal Steel Workpiece**	10 mm.	10 mm.	10 mm.	20 mm.	20 mm.	10 mm.	10 mm.
	Max. Side Length of the Hexagonal Steel Workpiece**	100 mm.	180 mm.	180 mm. and more	80 mm.	100 mm.	450 mm.	100 mm.
	Max. Height of the Steel Workpiece**	100 mm	100 mm.	180 mm. and more	80-100 mm.	100 mm.	135 mm.	400 mm.
	Cell Width	2.150 mm.	2.500 mm.	Min. 5.000 mm.	1.580 mm.	2.175 mm.	1.485 mm.	1.875 mm.
	Cell Length (Depth)	1.700 mm.	2.000 mm.	Min. 5.000 mm.	1.170 mm.	1.415 mm.	1.810 mm.	1.530 mm.
	Cell Highth / Fence Hight	2.150 mm.	2.200 mm.	2.200 mm.	1.930 mm.	1.930 mm.	1.930 mm.	1.870 mm.
	Standard Cell Total Weigth (without robot)	600 Kg.	1.000 Kg.	1.000 Kg.	1.150 Kg.	1.250 Kg.	1.350 Kg.	1.250 Kg.
	Supply Voltage	Three-phase 380 V AC	Three-phase 380 V AC	Three-phase 380 V AC	Mono-phase 220 V AC	Three-phase 380 V AC	Three-phase 380 V AC	Three-phase 380 V AC
	Air Consumption	<80 L/Dk.	<80 L/Dk.	<80 L/Dk.	<80 L/Dk.	<80 L/Dk.	<80 L/Dk.	<80 L/Dk.
PAYLOAD	7 Kg. Payload				•			
	12 Kg. Payload	•				•	•	•
	20 Kg. Payload		•				•	
	35 Kg. Payload		•				•	
	Above 35 Kg. Payload			•			•	
STANDARD SPECIFICATIONS	Quick and Easy Installation	•	•		•	•		•
	CNC Door Automation of 1 CNC	•	•	•	•	•	•	•
	Fence Safety for 1 CNC	•	•	•	•	•	•	•
	Two Ligth Barriers Safety for Operator Side	•	•	•	•	•	•	•
	Comunication Between Robot and 1 CNC	•	•		•	•		•
	Disassemblable / Disengageable Robot and Cell			•			•	
	Seperator Type Workpiece Stacking	•	•	•	•	•	•	•
	Suitable for Round Workpiece	•	•	•	•	•	•	•
	Suitable for Hexagonal Workpiece	•	•	•	•	•	•	•
	Suitable for Casted and Pressed Workpiece	•	•	•	•	•	•	•
	Suitable for Tending the Second Machine after OPI	•	•	•	•	•	•	•
	3-Colour Industrial Signal Tower	•	•	•	•	•	•	•
	Suitable For Single Gripper	•	•	•	•	•	•	•
	Suitable For Multiple Grippers	•	•	•	•	•	•	•
	RoboCAM Smart Automation Software and Industrial PC	•	•	•	•	•	•	•
	Cleaning with Air Blow Nozzle	•	•	•	•	•	•	•
	Residual Emulsion/Oil Collecting Area on Workpiece	•	•	•	•	•	•	•
	Suitable for Tending One Machine	•	•	•	•	•	•	•
	Suitable for Tending Two Machines	o*	•	•		o*	•	o *
OPTIONAL ACCESSORIES	CNC Door Automation of 2nd/3rd CNC	o	o	o	o	o	o	o
	Comunication Between Robot and 2nd/3rd CNC	o	o	o	o	o	o	o
	Area Sensor Safety	o	o	o	o	o	o	o
	Fence Safety of 2nd/3rd CNC	o	o	o	o	o	o	o
	3rd Light Barrier Safety	o	o	o	o	o	o	o
	Fence and Door Safety	o	o	o	o	o	o	o
	Air-flow Cleaning Station	o	o	o	o	o	o	o
	Manuel Measuring Station	o	o	o	o	o	o	o
	Automatic Measuring Station	o	o	o	o	o	o	o
	Deburring Station	o	o	o	o	o	o	o
	Gripper Force Control	o	o	o	o	o	o	o
	CNC Modbus Communication Protocol	o	o	o	o	o	o	o
	CNC Fanuc Communication Protocol	o	o	o	o	o	o	o
	Adjustable Gripper Force	o	o	o	o	o	o	o
	Adjustable Gripper Gap and Stroke	o	o	o	o	o	o	o
	Universal Tool Changer	o	o	o	o	o	o	o
	Workpiece Rotating Equipment	o	o	o	o	o	o	o
	Workpiece Orientation and Adjustment Equipment	o	o	o	o	o	o	o
	7 Axis Slider Equipment For 3 and more CNC Machine Tending			o			o	



/References

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