

ROBOTA

Where Thoughts Come Alive

ROBOTA

Industrial CNC Machine

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Outline

ROBOTA was founded in November 2012, in Alexandria, Egypt, by Dr. Ahmed Hafez & Eng. Mohammed Abdel-Monem who have professional experience in the fields of Electronics, Embedded Systems, Medical Engineering, Mechanics, Robotics, CNC, and Industrial Systems. We proudly served customers in several field work for example, security systems, irrigation control systems, customized machines.

Vision

ROBOTA is a leading Egyptian Industry specialized in machine manufacturing focusing on desktop machines like 3D Printers, CNC Routers, Laser Cutters, Laser Engravers. We are also focused on manufacturing customized machines that replace manual work according to the client's needs.

Mission

ROBOTA "where thoughts come alive" is our slogan. We enjoy bringing ideas to life. Increasing productivity and quality of products are essential.

History:

ROBOTA is the first Egyptian company manufacturing professional 3D printers, CNC laser cutters and CNC Routers up to 5-Axis. now we have different models with high quality and competitive prices.

Major Achievements:

- Smart Security System for the **Egyptian Navy** in conjunction with **Tawassol company**.
- 4-Axes CNC Machine for Photometry Measurements for the **National Institute for Standards, NIS**.
- Auto Matrix Machine for Neonatal Incubator Light Measurements for Jaundice Treatment for **NIS**.
- Electronics training kits for the **Egyptian Shipyard**.
- Machining a bone transplant for a patient under the supervision of **Dr. Mahmoud Fata**.
- Smart Light Switch with remote control as a **ROBOTA** Product.
- Universal Gas Filling System for **GASKIL company**.
- Chocolate 3D Printer for **Khaled company** (a patisserie factory).
- Chewing Simulator for Dental Lab Researchers.
- Thermo-Cycle for Dental Lab Researchers.
- Chewing Simulator with Thermo-Cycle 4 chambers with industrial servo motors.
- CNC Routing Machine (250×130 CM) for Wood Milling, for Hand Made Factory in Borg El-Arab.
- Educational Kits of Basic Electronics Lab for **NAVAL ELECTRICAL School**.
- Analog Electronics, Digital Electronics, PCB and Robotics lab at **Don Bosco Institute of Technology**, Alexandria and Cairo branches.
- Smart Irrigation Controller for **Agrifodder Company**.
- Smart Backup System for **German Technology for Solar Systems company, GTSS**.
- Smart FOG Controller for **GTSS**.

Services:

- ◆ CNC machine fabrications
- ◆ Industrial Control Systems
- ◆ Smart Control Solutions.
- ◆ Customized Machines.
- ◆ Laser Cutting Service.
- ◆ 3D Printing Service.
- ◆ PCB Design and Manufacturing.

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Our Valuable Partners

National Institute for Standards

Egyptian Navy

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GTSS

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Masr University

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AICS

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Dar Elhandasa

Mansoura University

Proctor & Gamble

Custom 3D Printing

Mechanism

Dar Elhandasa

Trio-D

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Party Laser

Eng. Khaled Ibrahim

Mr. Samir Wadea

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Industrial CNC Machine Specifications

Size	Startup 122×122×15 cm, PRO 122×244×15 cm, MEGA 150×350×15 cm
Motors	Stepper Motors Nema 34
Step Resolution (X, Y, Z)	Up to 1 µm
Feed Rate Speed	Up to 10,000 mm/min
Travel Speed	Up to 30,000 mm/min
Motor Voltage	80 – 110 Volt
Operating System	Embedded Software DSP Controller
Tool Shank Diameter	1 mm to 12.7 mm
X-Axis Power System	Ball Screw 2510 (Zero Backlash)
Y-Axis Power System	Helical Rack & Pinion
Z-Axis Power System	Ball Screw 1605 (Zero Backlash)
Linear Guide	LM 20 mm Linear Guide with Carriage Hiwin
Manual Jogging	Supported on DSP Hand Controller
Machine Structure	Laser Cut Steel, Aluminum Extrusion
Supported Files	All Types of G-Code
Software	<ul style="list-style-type: none">• CamBam for 2D Cuts (Original License).• DeskProto (Original License) for 3D & 4D.
Optional Rotary axis	4 inch chuck for turning, 3D engraving, 4D engraving, 2 sided machining, multi sided machining
Key Features	<ul style="list-style-type: none">• Pause/Continue.• Speed Change on the run.• Save up to 9 work offsets.• Save files on internal memory.• Rigid, heavy duty & high accuracy• Friendly and Easy Software.• 8 different speeds for spindle.
Applications	<ul style="list-style-type: none">◆ Cutting & Engraving;<ul style="list-style-type: none">• Metals; steel, stainless steel, aluminum, brass & copper,• Non Metals; wood, plastic, PVC, acrylic, artelone, poly-amide, polyethylene, Teflon (PTFE), Ultra heigh molecular weight polyethylene,• Fiber glass, Pixolene,◆ Stone, Marble & Glass Engraving

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Samples Made By Our Routers



Height 10 mm



Height 30mm



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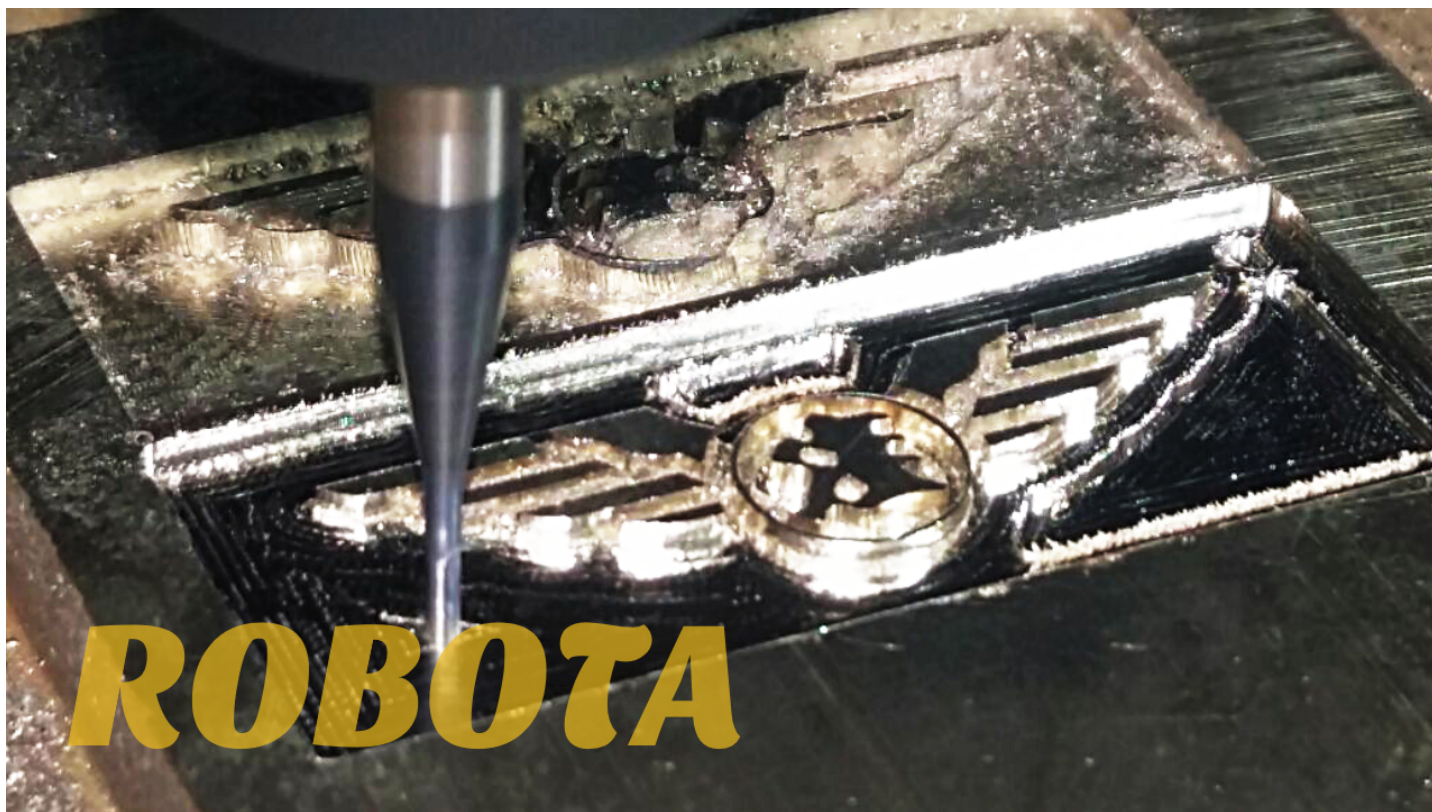
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