RADONIX

17 YEAR JOURNEY

Based on 17 years of experience in designing controllable systems in the field of CNC, Radonix is proud to be one of the few companies in the Middle East with CNC industrial controller design technology.

Since 2008, your satisfaction has been our priority.
Thank you for 17 years.

/radonix

RADONIX

About Radonix

Where Art and Technology
Meet Through the Power of CNC!

Since 2008, your satisfaction has been our priority.
Thank you for 17 wonderful years.

Radonix is one of the few companies in the Middle East that possesses the technological expertise to design industrial CNC control units. Drawing on its strong engineering background, Radonix has developed advanced products that serve as the core control platform for many CNC machines and are trusted by users in several international markets.

Visionary Perspective

We aim to become a leading brand in the field of CNC control units in the international market, contributing to the advancement of the industry and being recognized as a pioneer in technology. With our commitment to quality, innovation, and customer-focused approach, we strive for global growth.

Innovative Mission

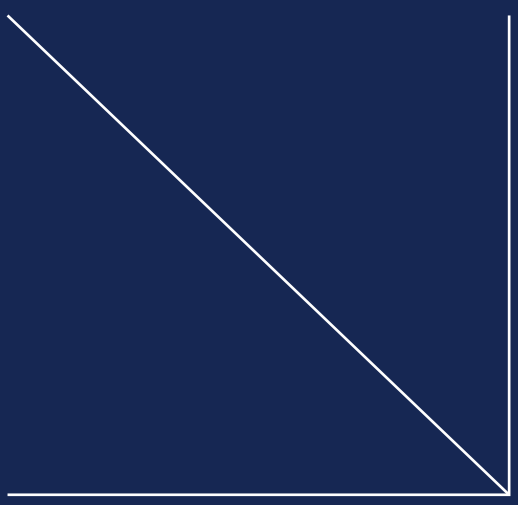
At Radonix, we aim to provide our customers with innovative, high-performance, and cost-effective CNC control solutions. By continuously optimizing our products through evolving technologies, we strive to meet industry needs in the best possible way and maintain the highest level of customer satisfaction.

A Trusted Name in **the CNC Industry**

RADONIX

Controllers

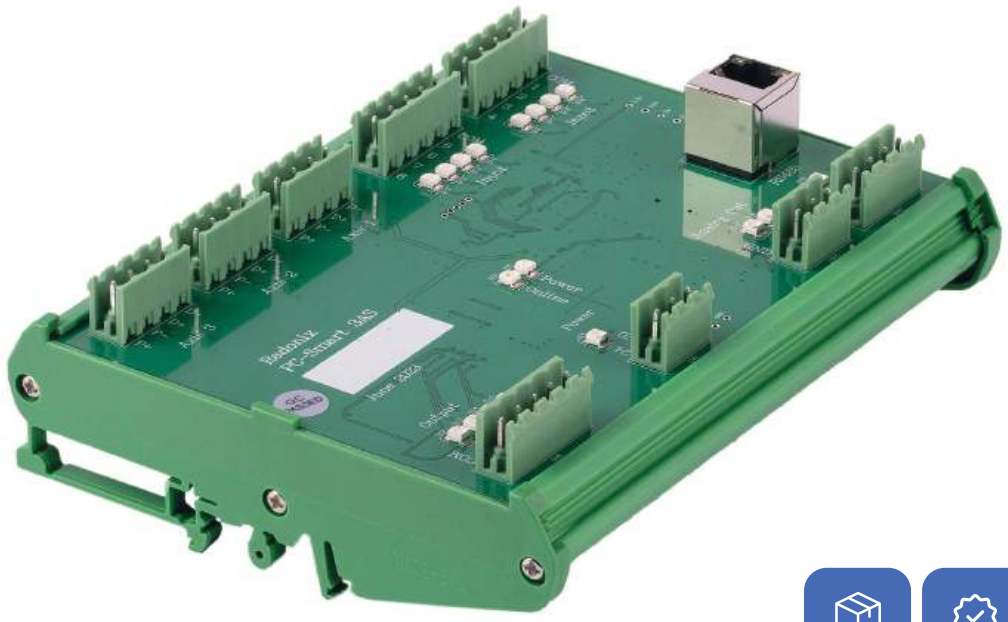
Where Art and Technology
Meet Through the Power of CNC!



3 Axes

PC Smart 3AS

Our 3-axis CNC control board is specifically designed for cost-effective applications using stepper motors. It is also compatible with servo motors. This high-performance unit is optimized for demanding industrial environments that require precision and operational reliability.



3 independent and interpolated axes

Free Shipping
inside Türkiye

2-Year Warranty
RADONIX

24/7 Support
RADONIX

Axes

With its 3 interpolated and independent axis structure, the device enables high-precision motion control on your machine.

Digital Inputs

The system features 8 optically isolated digital inputs that support both PNP and NPN signal types. This capability ensures smooth integration with various industrial applications while maintaining electrical isolation to enhance system safety and minimize the risk of electrical interference.

17 year journey

To explore our products in detail and request a quote, please visit our website at www.radonix.com.

Parameter	Specification
Axes	3 Interpolated and Independent Axes
Digital Inputs	8 Optically Isolated Inputs (PNP/NPN)
Digital Outputs	4 Protected Outputs (PNP/NPN)
Relay Output	Up to 1 Amp Current
Analog Outputs	2 Protected Outputs (0–10V)
Pulse Speed	100,000 pulses/sec
Axis Pulse Type	Pulse/Direction
Acceleration Time	50 to 30,000 mm/s^2
Speed Profile	S-Curve
Hardware Buffer Size	2,000 Block FIFO
PC-Control Unit Data Exchange Time	20 milliseconds
Isolation Type	Optocoupler
Communication Type	100 Mbps LAN (TCP/IP)
Communication Distance	Over 20 meters via UTP Over 50 meters via SF/UTP
Hardware Lock	24 Programmable Time Locks with Built-in Clock
Power Consumption	12–24V, 300mA
Dimensions	15 x 13 cm
Control Mode	Open Loop Control
Operating System Compatibility	Windows 7, 8, 10, 11
Supported Equipment	Handwheel, Remote Controller, Joystick

Where Art and Technology
Meet Through the Power of CNC!

Hardware Lock – Maximum Security

Thanks to 24 time locks configurable via the built-in clock, you can set your machine to operate or shut down automatically after a specified period.

4 Axes

PC Smart 4A

A compact PC-based CNC control board capable of simultaneously controlling 4 axes. It offers speeds of up to 500,000 pulses per second.

4 independent and interpolated axes

Free Shipping
inside Türkiye

2-Year Warranty
RADONIX

24/7 Support
RADONIX

Axes

Thanks to its 4 interpolated and independently controlled axes, the device provides high-precision motion control for your machine.

Digital Inputs

The system features 16 optically isolated digital inputs that support both PNP and NPN signal types. This capability ensures smooth integration with various industrial applications while maintaining electrical isolation to enhance system safety and minimize the risk of electrical interference.

17 year journey

To explore our products in detail and request a quote, please visit our website at www.radonix.com.

Parameter	Specification
Axes	4 Interpolated and Independent Axes
Digital Inputs (PNP/NPN, Isolated)	16 Optically Isolated Inputs
Digital Outputs (PNP/NPN, Protected)	8 Protected Outputs
Relay Output	Up to 1 Amp Current
Analog Outputs	2 Protected Analog Outputs (0–10V)
Analog Input	2 Analog Inputs (0–10V)
Pulse Speed	500,000 pulses/sec
Axis Pulse Type	Pulse/Direction
Acceleration Time	50 to 30,000 mm/s^2
Speed Profile	S-Curve
Hardware Buffer Size	2,000 Block FIFO
PC-Control Unit Data Exchange Time	20 milliseconds
Isolation Type	Optocoupler
Communication Type	100 Mbps LAN (TCP/IP)
Communication Distance	Over 20 meters via UTP Over 50 meters via SF/UTP
Hardware Lock	24 Programmable Time Locks with Built-in Clock
Power Consumption	12–24V, 300 mA
Dimensions	25 x 13 cm
Control Mode	Open Loop Control
Operating System	Windows 7, 8, 10, 11
Supported Equipment	Handwheel, Remote Controller, Joystick

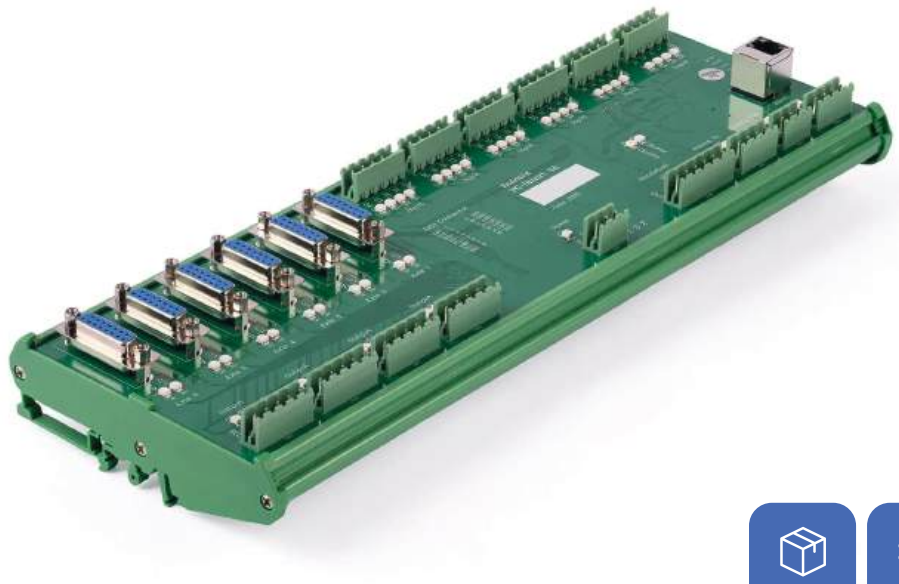
Hardware Buffer Size (FIFO)

The 2,000-block FIFO (First-In-First-Out) buffer ensures uninterrupted and smooth data flow. This capacity enhances system performance in applications requiring high data throughput and guarantees sequential execution of commands.

6 Axes

PC Smart 6A

A compact PC-based CNC control board capable of simultaneously controlling 6 axes. It offers speeds of up to 500,000 pulses per second.



6 independent and interpolated axes

Free Shipping inside Türkiye

2-Year Warranty RADONIX

24/7 Support RADONIX

Axes

Thanks to its 6 interpolated and independently controlled axes, the device provides high-precision motion control for your machine.

Digital Inputs

The system features 24 optically isolated digital inputs that support both PNP and NPN signal types. This capability ensures smooth integration with various industrial applications while maintaining electrical isolation to enhance system safety and minimize the risk of electrical interference.

17 year journey

To explore our products in detail and request a quote, please visit our website at www.radonix.com.

Parameter	Specification
Axes	6 Interpolated and Independent Axes
Digital Inputs (PNP/NPN, Isolated)	24 Optically Isolated Inputs
Digital Outputs (PNP/NPN, Protected)	16 Protected Outputs
Relay Output	Up to 1 Amp Current
Analog Outputs	2 Protected Outputs (0–10V)
Analog Inputs	2 Analog Inputs
Pulse Speed	500,000 pulses/sec
Axis Pulse Type	Pulse/Direction
Acceleration Time	50 to 30,000 mm/s^2
Speed Profile	S-Curve
Hardware Buffer Size (FIFO)	2,000 Block FIFO
PC-Control Unit Data Exchange Time	20 milliseconds
Isolation Type	Optocoupler
Communication Type	100 Mbps LAN (TCP/IP)
Communication Distance	Over 20 meters via UTP Over 50 meters via SF/UTP
Hardware Lock	24 Programmable Time Locks with Built-in Clock
Power Consumption	12–24V, 300 mA
Dimensions	34 x 13 cm
Control Mode	Open Loop Control
Operating System	Windows 7, 8, 10, 11
Supported Equipment	Joystick, Remote Controller, Handwheel

Hardware Buffer Size (FIFO)

The 2,000-block FIFO (First-In-First-Out) buffer ensures uninterrupted and smooth data flow. This capacity enhances system performance in applications requiring high data throughput and guarantees sequential execution of commands.

4 Axes

PC-Pro LAN 4A

A compact PC-based CNC control board capable of simultaneously controlling 4 axes. It offers speeds of up to 500,000 pulses per second.

4 independent and interpolated axes

Free Shipping
inside Türkiye

2-Year Warranty
RADONIX

24/7 Support
RADONIX

Axes

Thanks to its 4 interpolated and independently controlled axes, the device provides high-precision motion control for your machine.

Digital Inputs

The system features 24 optically isolated digital inputs that support both PNP and NPN signal types. This capability ensures smooth integration with various industrial applications while maintaining electrical isolation to enhance system safety and minimize the risk of electrical interference.

17 year journey

To explore our products in detail and request a quote, please visit our website at www.radonix.com.

Parameter	Specification
Axes	4 Interpolated and Independent Axes
Digital Inputs (PNP/NPN, Isolated)	24 Optically Isolated Inputs
Digital Outputs (PNP/NPN, Protected)	16 Protected Outputs
Analog Outputs	2 Protected Analog Outputs (0–10V)
PWM Outputs (Adjustable Frequency)	2 PWM Outputs (0–5V, Adjustable Frequency)
Pulse Speed	500,000 pulses/sec
Axis Pulse Type	Pulse/Direction
Acceleration Time	50 to 30,000 mm/s^2
Speed Profile	S-Curve
Hardware Buffer Size (FIFO)	2,000 Block FIFO
PC-Control Unit Data Exchange Time	20 milliseconds
Isolation Type	Optocoupler
Communication Type	100 Mbps LAN (TCP/IP)
Communication Distance	Over 20 meters via UTP Over 50 meters via SF/UTP
Hardware Lock	24 Programmable Time Locks with Built-in Clock
Power Consumption	16–32V, 300 mA
Dimensions	25 x 13 cm
Control Mode	Open Loop Control
Operating System	Windows 7, 8, 10, 11
Supported Equipment	Joystick, Remote Controller, Handwheel

Hardware Buffer Size (FIFO)

The 2,000-block FIFO (First-In-First-Out) buffer ensures uninterrupted and smooth data flow. This capacity enhances system performance in applications requiring high data throughput and guarantees sequential execution of commands.

6 Axes

PC-Pro LAN 6A

A compact PC-based CNC control board capable of simultaneously controlling 6 axes. It offers speeds of up to 500,000 pulses per second.

6 independent and interpolated axes

Free Shipping
inside Türkiye

2-Year Warranty
RADONIX

24/7 Support
RADONIX

Axes

Thanks to its 4 interpolated and independently controlled axes, the device provides high-precision motion control for your machine.

Digital Inputs

The system features 32 optically isolated digital inputs that support both PNP and NPN signal types. This capability ensures smooth integration with various industrial applications while maintaining electrical isolation to enhance system safety and minimize the risk of electrical interference.

17 year journey

To explore our products in detail and request a quote, please visit our website at www.radonix.com.

Parameter	Specification
Axes	6 Interpolated and Independent Axes
Digital Inputs (PNP/NPN, Isolated)	32 Optically Isolated Inputs
Digital Outputs (PNP/NPN, Protected)	32 Protected Outputs
Analog Outputs	2 Protected Analog Outputs (0–10V)
PWM Outputs (Adjustable Frequency)	2 PWM Outputs (0–5V, Adjustable Frequency)
Pulse Speed	500,000 pulses/sec
Axis Pulse Type	Pulse/Direction
Acceleration Time	50 to 30,000 mm/s^2
Speed Profile	S-Curve
Hardware Buffer Size (FIFO)	2,000 Block FIFO
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Control Mode	Open Loop Control
Operating System	Windows 7, 8, 10, 11
Supported Equipment	Joystick, Remote Controller, Handwheel

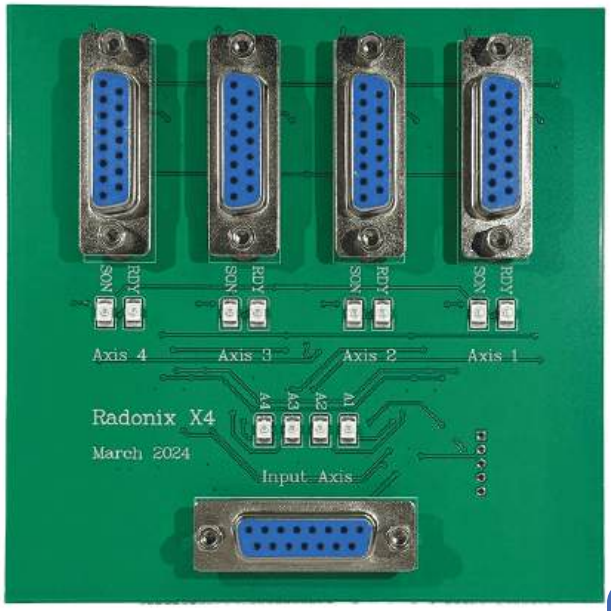
Hardware Buffer Size (FIFO)

The 2,000-block FIFO (First-In-First-Out) buffer ensures uninterrupted and smooth data flow. This capacity enhances system performance in applications requiring high data throughput and guarantees sequential execution of commands.

Expender

Radonix X4 Expander

The Radonix X4 Expander increases the axis capacity of your CNC machines, allowing you to operate more motors simultaneously. Specifically designed for gold and jewelry CNC machining systems, this module enables you to expand your setup to up to 24 axes when used with Radonix's 6-axis controller boards.



Free Shipping
inside Türkiye

2-Year Warranty
RADONIX

24/7 Support
RADONIX

What is X4?

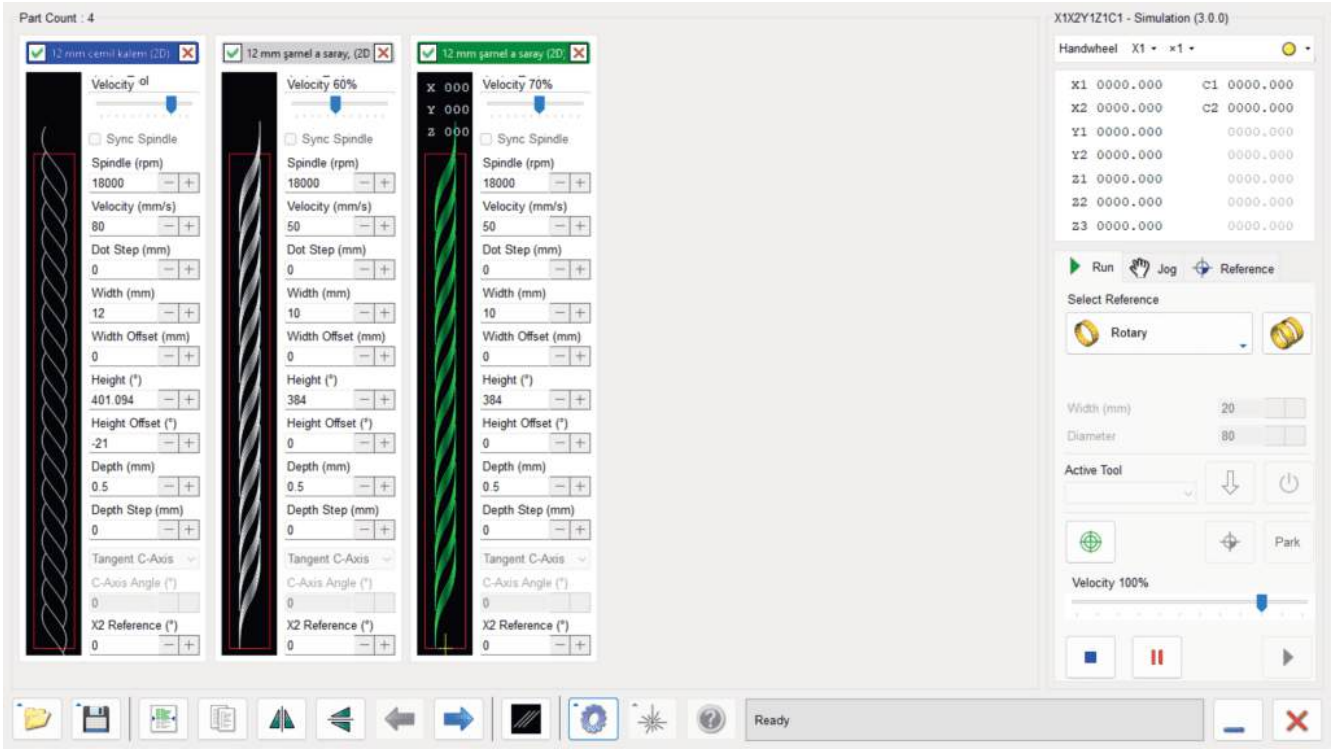
The Radonix X4 Expander is designed for gold and jewelry CNC machining systems. It takes standard step/direction signals for a single axis and distributes them to four separate motor drivers, enabling synchronized operation of motors in custom configurations such as multiple Z-axes or dual X-axes. This feature is especially valuable in complex jewelry designs and high-precision gold engraving tasks that require multiple processing heads.

17 year journey

To explore our products in detail and request a quote, please visit our website at www.radonix.com.

Parameter	Specification
Axis Expansion	1 to 4
Input Pulse Type	Line Driver
Output Pulse Type	Line Driver
Digital Input	NPN Isolated Input

Radonix Jewelry interface



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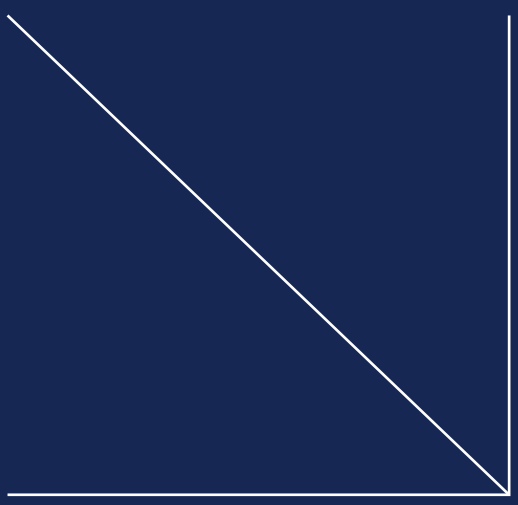
Software

Where Art and Technology
Meet Through the Power of CNC!



Radonix CAM-Pro
Powerful CNC Control Software

Fully compatible with Radonix's PC Pro-LAN and PC Smart series controllers, Radonix CAM-Pro allows users to achieve maximum performance across all CNC machines.

What is Radonix CAM-Pro?

Radonix CAM-Pro is a CAD/CAM software developed by Radonix, designed to enable users to crea
inter
appl

Radonix CAM-Pro

Radonix CAM-Pro Calibrator

Radonix CAM-Pro Test

30+
Flexible interface-based solutions adaptable to all machine types.

%100
Optimized Performance

2000+
Deployed in Multiple Industries

To explore our products in detail and request a quote, please visit our website at www.radonix.com.

Customizable User Interfaces

Over 35 optimized interfaces tailored for CNC machines such as milling machines, lathes, laser cutters, plasma cutters, and woodworking routers.
Each interface is adapted to meet the specific operational requirements of different machine types.

01

Multi-Axis Coordination

Supports programming and control of up to 6 axes simultaneously.
Ideal for complex machining tasks requiring multi-dimensional motion.

02

Advanced File Compatibility

Seamless integration with industry-standard file formats such as G-Code and DXF.
Full compatibility with outputs from leading CAD software.

03

Real-Time Monitoring and Control

Live status indicators for machine connections and operations across all axes.
Integrated alarm systems and emergency stop functions enhance operational safety.

04

Precise Toolpath Visualization

3D visualization tools display the toolpath and machine operations in real time.
Allows adjustments and accuracy checks before and during cutting operations.

05

Detailed Position and Speed Control

Gain full control over tool position, movement, and speed.
Adjustable parameters for both absolute and relative coordinate systems.

06

Radonix CAM-Pro

Key Benefits

Increased Efficiency

01

CAM-Pro accelerates the design process, helping users boost productivity. Complex designs can be created quickly and transferred directly to production, saving both time and cost.

High Precision

02

Because it integrates directly with CNC machines, the software enables high-precision manufacturing. This is especially advantageous in sectors like automotive and metalworking, where precision is critical.

Flexibility

03

Radonix CAM-Pro is a flexible solution that can be easily adapted to various industrial applications. Users can customize the software according to their needs and apply it across different project types.

Ease of Use

04

Thanks to its intuitive interface, Radonix CAM-Pro is easy to learn, even for new users. This shortens the training period and allows users to operate the software more efficiently.

Conclusion

05

Radonix CAM-Pro plays a significant role in industrial design and manufacturing processes. With its advanced features, user-friendly interface, and high performance, the software stands out as a versatile solution across various industries—from furniture design to the automotive sector, and from metalworking to electronics manufacturing.

Discover Radonix CAM-Pro Today!

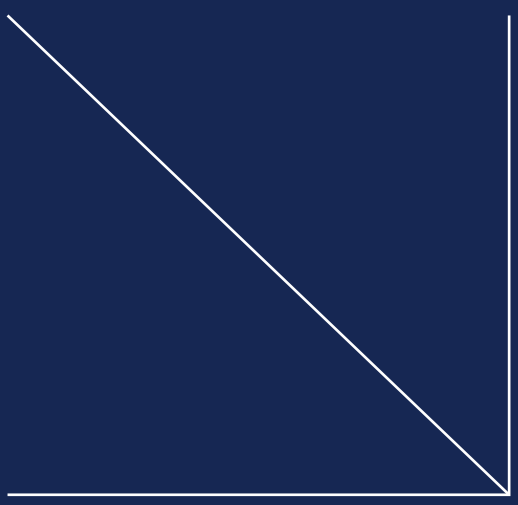
Parameter	Specification
V1.3.112 (Compatible with control boards manufactured before 2022)	Visit Our Website
V4.1.11 (Designed for control boards produced in 2022 and later)	Visit Our Website

Where Art and Technology
Unite Through the Power of CNC!

RADONIX

Interfaces

Where Art and Technology
Meet Through the Power of CNC!



Radonix CAM-Pro CNC Interfaces

The “interface” is a specialized software environment that enables direct communication between the CNC control board and the operator, where machine-specific commands and controls are managed. Through Radonix CAM Pro, users can run interfaces tailored to different CNC machines. This allows the operator to perform tasks in an optimized environment aligned with the technical specifications of the machine.

About Interfaces

The true power of customization lies in what we call the “interface.” An interface is a set of customized screens, commands, and workflows specifically designed for the capabilities and I/O (input/output) of a particular CNC machine.

For example, a plasma cutting solution like “XYZ Plasma” offers an interface tailored to plasma cutting parameters—such as controlling cutting speed, torch height, and gas flow.

Each of these interfaces ensures that the operator sees only the tools and settings relevant to the specific machine in use. This reduces clutter, streamlines the workflow, and minimizes the risk of errors. Rather than forcing the user to navigate through general options, these specialized interfaces make CNC operation more intuitive and efficient.

An interface is a carefully crafted environment tailored to match the unique functionality of each machine.

To explore our products in detail and request a quote, please visit our website at www.radonix.com.

Where Art and Technology Meet Through the Power of CNC!

2 Axes

XY Cutter
For Cutting Machine

XY HotWire
For Plastic Cutting Machine

XY Pipe Cutter
For Pipe Cutting Machine

XY Punch
For Punching Machine

XY Sewing
For Sewing Machine

XZ Ring
For Milling

XZ Wood Turning
For Wood Turning Machine

3 Axes

XYC SGCut
For Glass Cutting Machine

XYZ Cutter
For Cutting Machine

XYZ Plasma
For Plasma Cutting Machine

XYZ Plasme Pipe
For Plasma Pipe Cutting

XYZ Router
For Router

XYZ Router TC
For Auto Tool Change Router

XYZ Simple Drill
For Drilling Machine

XYZ Water Jet
For Wood Turning Machine

XZA Wood Tuning
For Waterjet Cutting Machine

4 Axes

XYZA Router
For Rotary Machine

XYZA Profile Cut
For Profile Cutting Machine

XYAC Hammer
For Hammering Machine

5 Axes

XYZCA Router LS
For Stone Cutting Machine With Disc Head

6 Axes

XYZABC Router
For Router Machine

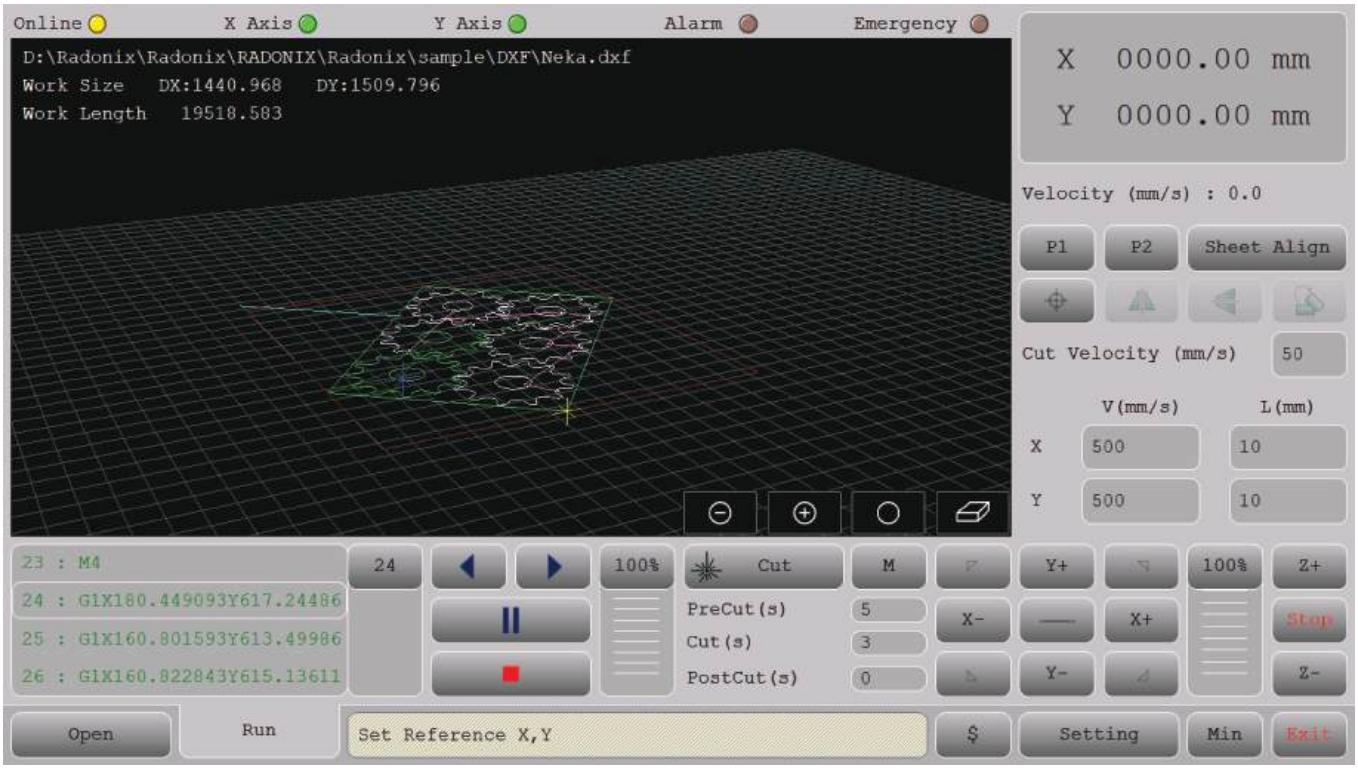
Interface Types

Interface files (in REG format) are executed through our CAM Pro application after being downloaded. Each interface includes the interface name, number of axes, last update date, applicable machine types, and any special features (e.g., tool changer). A designated image is provided with detailed descriptions for clarity.

Custom Interface Requests

If your specific CNC setup requires a custom interface not included in our current collection, please feel free to contact us. Our team is ready to design and deliver a tailored interface that meets your unique requirements.

To request a custom interface, reach out to us at info@radonix.com or through our other contact channels. Be sure to provide a detailed description of your CNC setup along with the specific features you need for the custom interface.

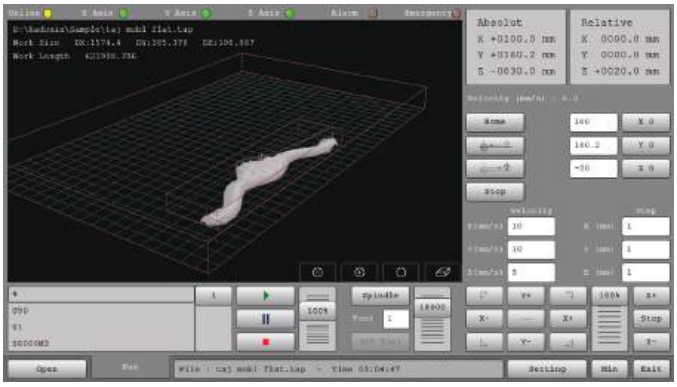


2 Axes Interface

Cutting Machine, Plastic Cutting Machine, Pipe Cutting Machine, Punching Machine, Sewing Machine, Milling, Wood Turning Machine

7 Interfaces Available
To explore our Interfaces in detail, please visit www.radonix.com.

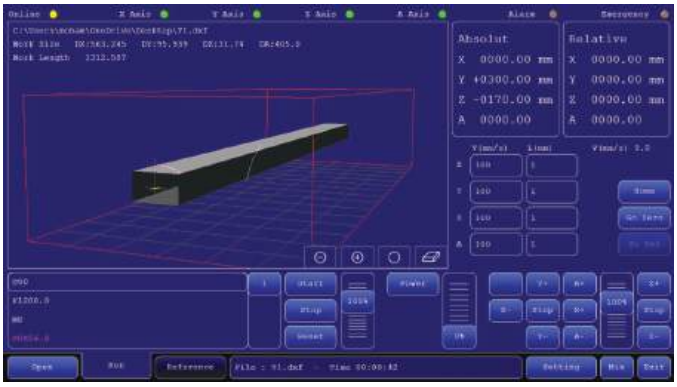
Our CNC control technologies are used in machines for **Glass Processing, Textiles, Woodworking, Stone & Marble Processing, Metal, Jewelry, Plastics & Composites, Ceramics**, and more.



3 Axes Interfaces

Glass Cutting Machine, Cutting Machine, Plasma Cutting Machine, Plasma Pipe Cutting, Router, Auto Tool Change Router, Drilling Machine, Waterjet Cutting Machine, Wood Turning Machine

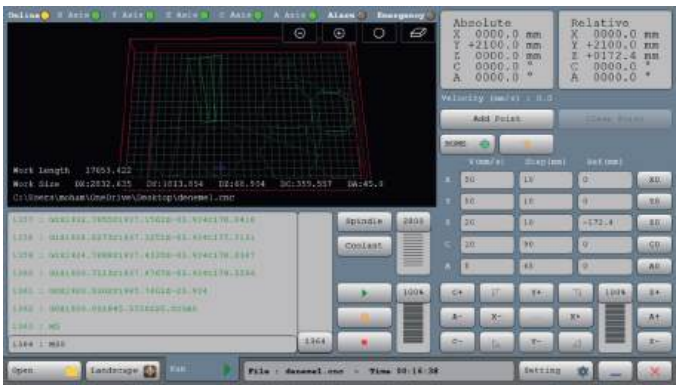
9 Interfaces Available
To explore our Interfaces in detail, please visit www.radonix.com.



4 Axes Interfaces

Rotary Machine, Profile Cutting Machine, Hammering Machine

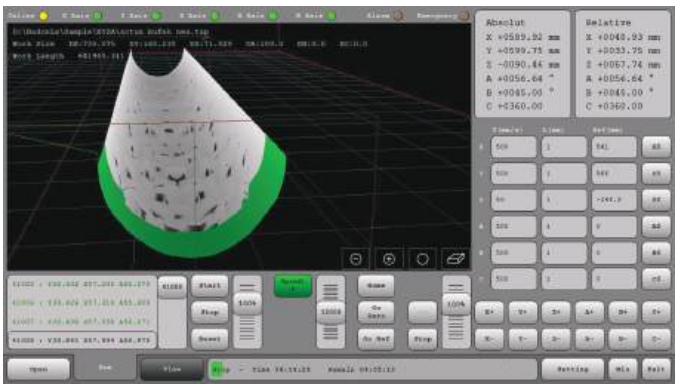
3 Interfaces Available
To explore our Interfaces in detail, please visit www.radonix.com.



5 Axes Interfaces

For Stone Cutting Machine
*With Disc Head

1 Interfaces Available
To explore our Interfaces in detail, please visit www.radonix.com.



6 Axes Interfaces

For Router Machine

1 Interfaces Available
To explore our Interfaces in detail, please visit www.radonix.com.

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Application Areas

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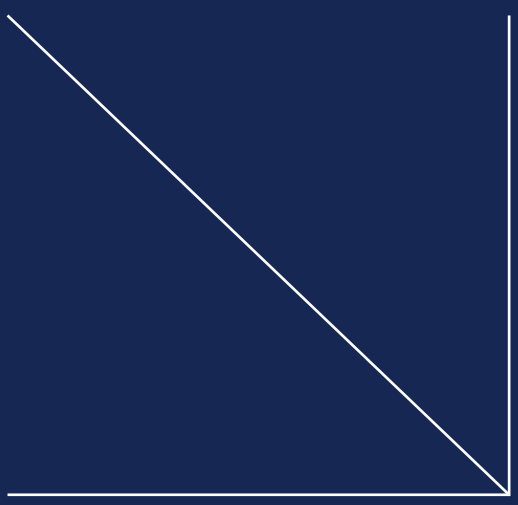
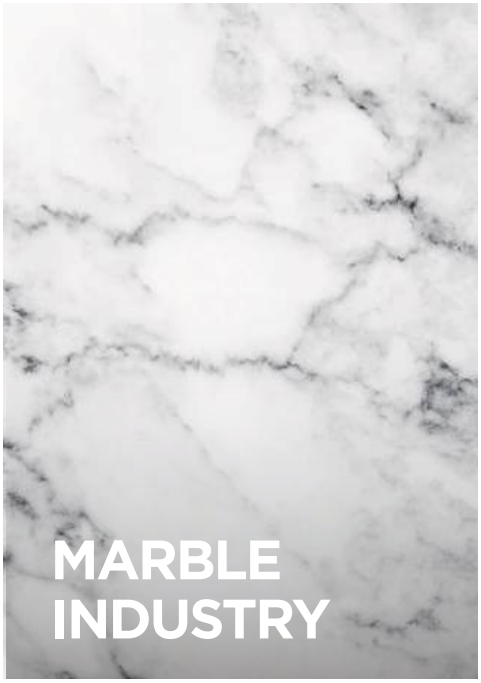
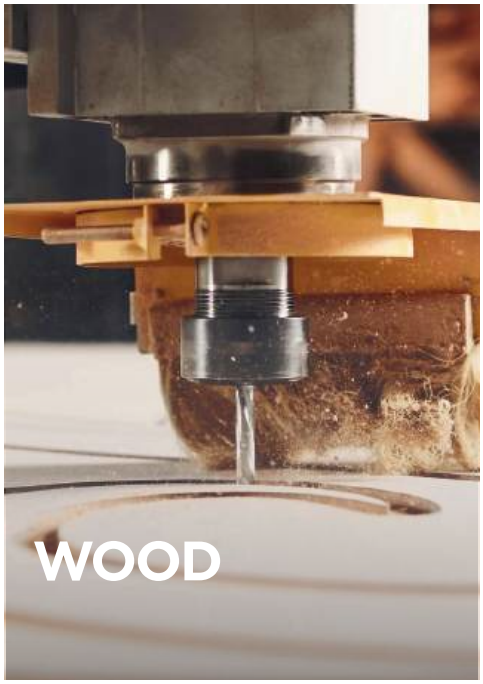


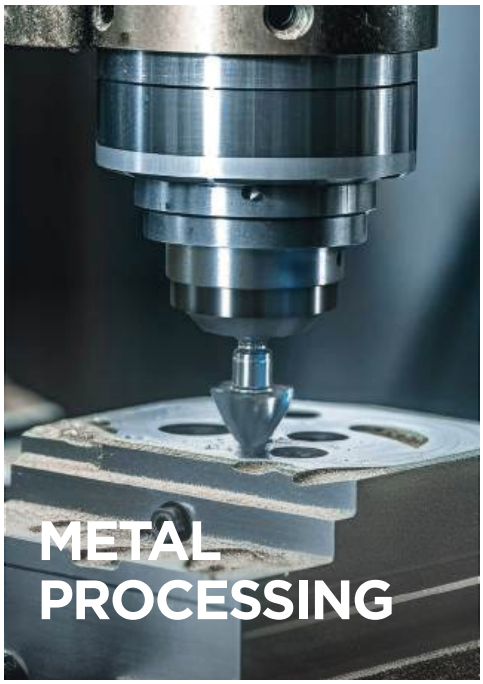
Explore the Application Areas of Our Control Boards!

Our CNC control technologies are used in machines across various industries, including Glass Processing, Textiles, Woodworking, Stone & Marble Processing, Metalworking, Jewelry, Plastics & Composites, and Ceramic Processing, among others.

You can explore each industry to view application areas and technical specifications specific to that sector.







To explore our products in detail and request a quote, please visit our website at www.radonix.com.

Where Art and Technology Meet Through the Power of CNC!

RADONIX | 17 year journey

RADONIX

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B Blok NO : 1689 Okmeydanı ŞİŞLİ / İSTANBUL

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