



AE-6590WP

CNC Cutting Machine

Cutting Made Perfect

aeon

AEON DIGITAL ADVERTISING MATERIAL TRADING L.L.C

PRECISION, SPEED & PERFORMANCE FOR SIGN MAKING

The AE-6590WP CNC Engraving Machine is designed to meet the demands of the sign-making industry, offering outstanding speed, precision, and durability. Whether you're working with wood, acrylic, or other materials, this advanced machine delivers high-quality results every time.



APPLICATIONS

With its ± 0.02 mm precision, 7.2 m/min speed, and user-friendly controls, the AE-6590WP delivers reliable results for a wide range of applications.

Woodworking

Ideal for crafting furniture, cabinetry, and decorative panels

Sign Making

Ideal for creating custom acrylic, wood, and metal signs, including LED and backlit designs.

Advertising & Branding

Perfect for engraving logos, brand names, and custom 2D/3D designs.

Woodworking

Create intricate wood inlays, personalized furniture, and detailed carvings.

Gift & Trophy Industry

Engrave custom gifts, awards, and trophies with personal messages.

Engineering

Used for part marking, serial numbering, and tool/mold engraving.

Jewelry

Customize jewelry with names, dates, and designs.

Electronics & Industrial

Engrave panels, control boards, and identification plates for easy tracking.

Art & Education

Create intricate artwork, models, and educational materials.

Model	AE-6590WP
Working Area	1300*2500*200mm
Control system	NK105 G2 control system
Spindle	2.2KW
Spindle Rate	24000 r/min
Cutting Tool Diameter	Ø3.175/6 mm
Max Movement Speed	7.2 m/min
Working Table Size	720x1270 mm
Max Working Size	650x900x110 mm
External Size	1120x1520x1400 mm
Power Source	AC 220310%/50 V/Hz
Weight	250 KG
Power Consumption	2.5 kW
Working Environment	Temperature :0°C-45°C Humidity: 30%-75%
Working Voltage	



Key Features & Benefits:

Precision Repeatability:

Achieve exceptional detail with 30.02 mm precision repeatability, ensuring smooth, accurate cuts.

Powerful Spindle

Equipped with a 2200W spindle, running at speeds of 24,000 rpm for fast, efficient engraving and cutting.

Versatile Cutting Tools

Supports cutting tool diameters of Ø3.175/6 mm, offering flexibility for various engraving projects.

High-Speed Movement

With a maximum movement speed of 7.2 m/min, you can complete larger projects in less time without sacrificing quality.

Generous Working Area

The working table size of 720 x 1270 mm and maximum working size of 650 x 900 x 110 mm accommodates a wide range of materials.

Compact & Sturdy Design

With an external size of 1120 x 1520 x 1400 mm and a weight of 250 kg, the AE-6590WP offers a solid, durable build while remaining compact enough for efficient space usage.

Advanced Controller & Connectivity

DSC CNC Controller

Featuring a high-definition LCD display and user-friendly interface, the new DSC CNC controller makes it easier to operate the machine and achieve precise cuts.

Offline Operation

The machine can operate independently from a computer, allowing for greater flexibility in the workflow.

High-Speed USB 2.0 & Ethernet Connectivity

Easily transfer data at speeds of up to 12MB/second, making the process of uploading files faster and more efficient.



2.2KW Spindle

The 2.2KW air-cooled spindle provides powerful performance & fast engraving at up to 24,000 rpm.



POSITIONING ACCURACY

High quality ball screw ensures 30.02 mm positioning accuracy & fast engraving speed for optimal performance.



DSC system

DSC system with genuine hardware & a 3.5-inch control box enables direct operation without a computer.

Why Choose AE-6590WP?

Speed & Efficiency

The 7.2 m/min maximum speed and high-power spindle work together to significantly reduce job times, allowing for faster production.

Versatile & Reliable

Ideal for various materials and engraving jobs, ensuring that every cut is done with precision and clarity.

User-Friendly

With an advanced yet simple interface, you'll enjoy smooth operation, whether you're a beginner or a professional.