



# QL-PlasmaForge 1530EDU

## CNC Plasma Cutting System

QL-PlasmaForge 1530 EDU CNC Plasma Cutting System is an industrial-grade, turnkey CNC plasma cutting solution engineered for precise and repeatable cutting of **ferrous and non-ferrous metals**. Designed with a focus on **educational and vocational training environments**, the system combines reliable cutting performance, integrated safety features, and intuitive operation to support both instruction and practical fabrication applications.



# Machine Structure & Cutting Performance

## Robust Engineering for Precision Cutting

The QL-PlasmaForge 1530EDU features a **heavy-duty welded steel frame** engineered for rigidity and long-term durability. This robust foundation ensures stable operation throughout the machine's lifecycle, whether deployed in high-volume fabrication shops or demanding educational environments where equipment reliability is paramount.

The gantry-style CNC motion system delivers smooth, accurate cutting across the full working envelope. Rack-and-pinion driven axes provide consistent positioning accuracy, while the industrial-grade construction supports both continuous production runs and intermittent instructional use without compromising performance.

With an **effective cutting area of 1500 mm × 3000 mm**, the system accommodates a wide range of material sizes and project requirements. The QL-PlasmaForge 1530EDU delivers reliable, repeatable cut quality across ferrous and non-ferrous metals, supporting both instructional training exercises and real-world fabrication tasks with equal proficiency.

## Cutting Specifications

- **1500 mm × 3000 mm** effective cutting area
- Ferrous metal cutting capability
- Non-ferrous metal compatibility
- Heavy-duty welded steel frame
- Gantry-style CNC motion system
- Rack-and-pinion driven axes
- Continuous operation design
- Instructional use optimization

# 1500

**Width (mm)**

Cutting table width capacity

# 3000

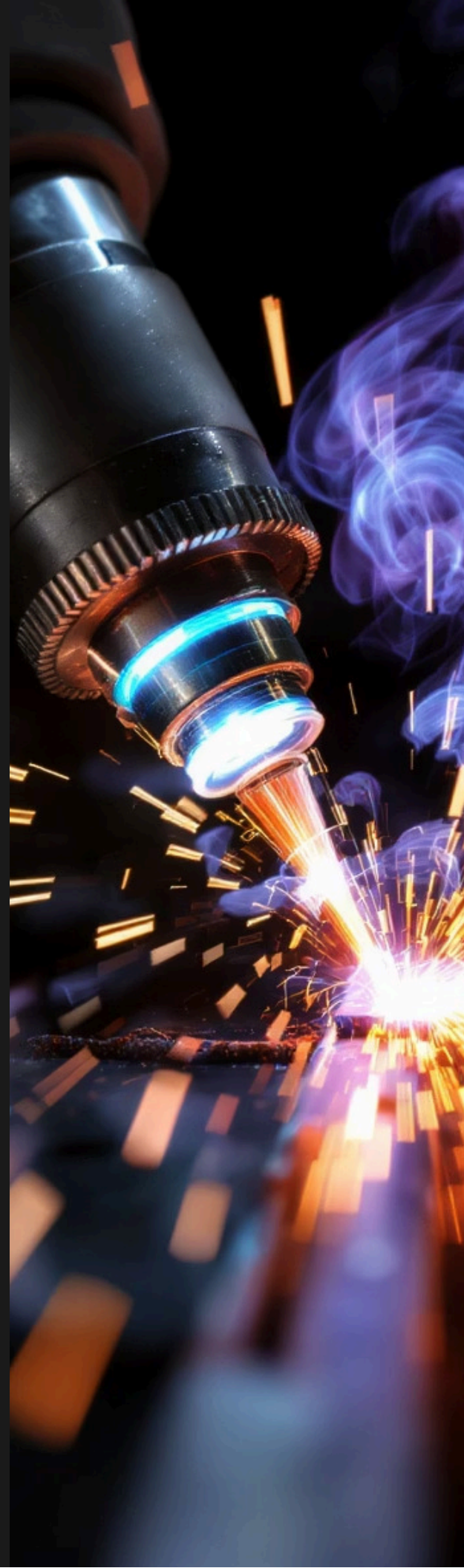
**Length (mm)**

Extended cutting table length

# 100%

**Metal Coverage**

Ferrous and non-ferrous capability



# Plasma System, Torch & Controls

## Integrated Hypertherm Technology

At the heart of the **QL-PlasmaForge 1530 EDU** lies a high-performance plasma cutting system **equal or comparable to industry-leading plasma power sources** commonly specified for CNC plasma applications. This integrated plasma power supply is engineered to deliver **stable arc performance, consistent cut quality, and reliable consumable life** across a broad range of materials and thicknesses, supporting both instructional use and practical fabrication work.

The system features a **CNC-controlled mechanized cutting torch with a 25-foot torch lead**, providing extended reach and flexibility for automated cutting operations across the full working area. In addition, a **compatible handheld cutting torch** is included to enable manual cutting operations, allowing instructors and operators to demonstrate cutting techniques, perform setup cuts, and execute specialized tasks that benefit from direct operator control.

01

### Equivalent to Hypertherm Powermax85 SYNC

Advanced plasma power supply with industry-leading arc quality and consumable life for consistent cutting performance

02

### Mechanized CNC Torch

Automated torch with 25-foot lead for extensive cutting area coverage and precise CNC-controlled operations

03

### Handheld Torch

Manual cutting capability for demonstrations, setup cuts, and specialized tasks requiring operator control

04

### Automatic Torch Height Control

Real-time height adjustment maintains optimal cutting distance for consistent quality across material variations

05

### Integrated CNC Control System

Operator console with cutting and nesting software, plus USB file transfer for seamless program loading

## Precision Control Systems

The automatic torch height control system continuously monitors and adjusts cutting height in real-time, compensating for material variations and ensuring optimal standoff distance throughout each cut. This sophisticated feedback system maintains consistent cut quality even when working with warped materials or uneven surfaces.

The integrated CNC operator console provides intuitive access to cutting and nesting software, streamlining the transition from design to finished part. File transfer via USB or equivalent connectivity enables rapid program loading and supports modern CAD/CAM workflows.



# Safety, Installation & Training



## Comprehensive Safety Features

The QL-PlasmaForge 1530EDU incorporates **integrated operator safety features** specifically designed for educational environments where inexperienced operators require additional protection. Emergency stop functionality provides immediate machine shutdown capability, while controlled operating modes support safe machine use during training and instructional activities.

- Emergency stop functionality
- Controlled operating modes
- Educational environment optimization
- Operator protection systems



## Professional Installation & Commissioning

QuakeLogic provides complete **FOB Destination delivery**, ensuring the system arrives at your facility ready for professional installation. Our technicians handle on-site placement, installation, and comprehensive system setup, including full mechanical, electrical, and functional commissioning.

- On-site placement and installation
- Mechanical and electrical commissioning
- System calibration
- Operational verification testing



## Comprehensive Operator Training

**On-site operator training is included** with every QL-PlasmaForge 1530EDU installation. Our experienced trainers provide hands-on instruction covering safe operation protocols, basic CNC control use, and proper plasma cutting procedures tailored to your specific applications.

- On-site hands-on training sessions
- Safe operation protocols
- CNC control instruction
- Plasma cutting procedures
- Training materials and manuals

"Professional installation, thorough commissioning, and comprehensive training ensure your team is fully prepared to operate the QL-PlasmaForge 1530EDU safely and effectively from day one."

# Delivery, Warranty & Compliance

## Complete Turnkey Solution

The **QuakeLogic QL-PlasmaForge 1530EDU CNC Plasma Cutting System** is delivered as a **fully compliant, turnkey solution** meeting all mandatory technical, functional, safety, delivery, training, and warranty requirements for public-sector and educational procurements.

With a **delivery lead time of 90–100 calendar days after receipt of Purchase Order**, institutions can plan their equipment acquisitions with confidence. The system includes a comprehensive **one-year parts and labor warranty** commencing from commissioning date, providing peace of mind and budget predictability.

Each system ships with a starter consumables kit containing essential plasma cutting consumables to begin operations immediately. Complete operation and maintenance manuals, electrical documentation, and safety instructions ensure your team has all necessary resources for successful long-term operation.



# Advancing Machining Accuracy and Performance with QuakeLogic Excellence

Empowering technical, educational, and industrial fabrication environments with uncompromising cutting accuracy, operational safety, and system reliability, the **QuakeLogic QL-PlasmaForge 1530EDU CNC Plasma Cutting System** establishes a new benchmark for modern CNC plasma performance.

## Connect with QuakeLogic: Your Partner in Precision CNC Engineering

### Corporate Headquarters

QUAKELOGIC INC.

4010 Foothills Blvd. Suite 103/194

Roseville, CA 95747, USA

### Executive Support Line

+1 (916) 899-0391

Direct access for advanced technical consultations and priority instrument support.

Available Monday - Friday, 9 AM - 5 PM PST

### Strategic Inquiries

[sales@quakelogic.net](mailto:sales@quakelogic.net)

For strategic collaborations, enterprise-level instrumentation solutions, and comprehensive technical inquiries.

## Our Unwavering Commitment to Operational Excellence



### Certified Quality Assurance

Complying with international standards for product reliability, performance, and safety.



### Pioneering Industry Leadership

Delivering advanced spectroscopy and sensing technologies that ensure precision, repeatability, and ease of use.



### Dedicated Client Success

Providing responsive technical support, calibration guidance, and complete after-sales assistance for every system delivered.

## Explore Our Complete Product Portfolio



### Scan to Access Cutting-Edge Solutions

Discover how QuakeLogic's advanced machining technologies can transform your training programs, modernize your fabrication workflow, and elevate precision turning performance to new heights.

[www.products.quakelogic.net](http://www.products.quakelogic.net)

 **QUAKELOGIC**