

QL-PlasmaForge 1530

CNC Plasma Cutting System

The **QuakeLogic QL-PlasmaForge 1530 CNC Plasma Cutting System** is an industrial-grade, turnkey CNC plasma solution designed for precision cutting of ferrous and non-ferrous metals. Engineered for reliability, safety, and ease of operation, the system is ideally suited for **educational, institutional, and fabrication environments**.



Industrial CNC System

Professional-grade plasma cutting platform



Hypertherm Integration

Powermax85 SYNC plasma technology



Turnkey Delivery

Installation, training, and warranty included



Educational Focus

Designed for instructional and fabrication use

Machine Structure & Cutting Performance

Robust Engineering for Precision Cutting

The QL-PlasmaForge 1530 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 1530 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

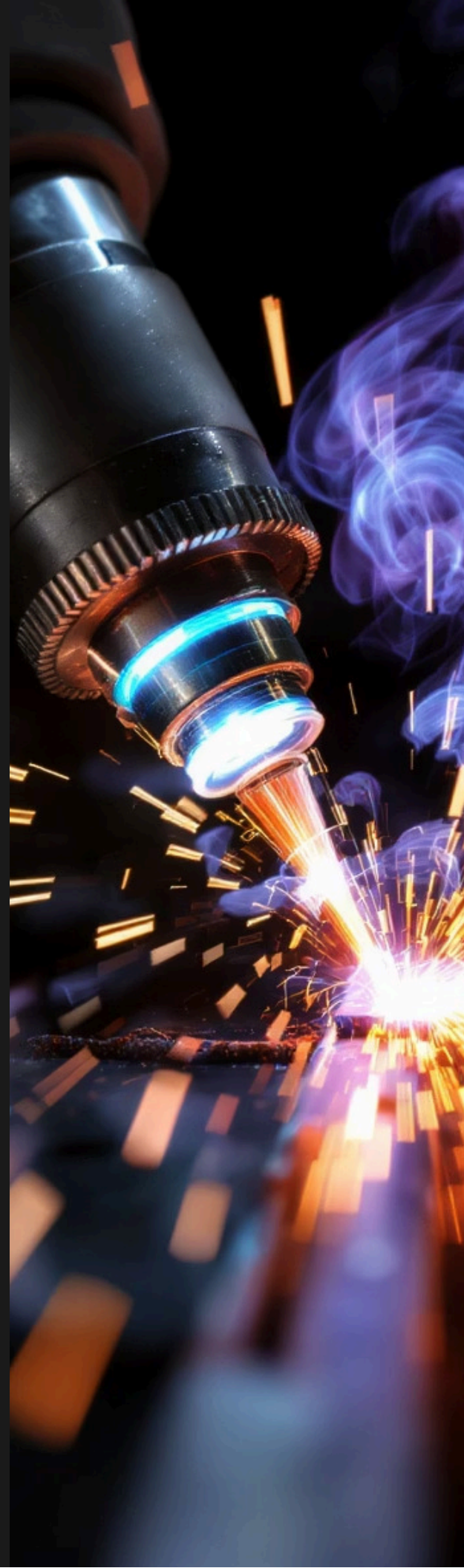
Length (mm)

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 lies the industry-leading [Hypertherm Powermax85 SYNC plasma cutting system](#). This integrated plasma power supply represents the pinnacle of cutting technology, delivering consistent arc quality, superior consumable life, and exceptional cut edge finish across a broad range of materials and thicknesses.

The system features a **CNC-controlled mechanized torch with 25-foot mechanized torch lead**, providing extensive reach and flexibility for automated cutting operations. Additionally, the included **SmartSYNC handheld torch** enables manual cutting operations, offering instructors and operators the versatility to demonstrate techniques, perform setup cuts, or execute specialized tasks that benefit from direct human control.

01

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

SmartSYNC 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 1530 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 1530 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 1530 safely and effectively from day one."

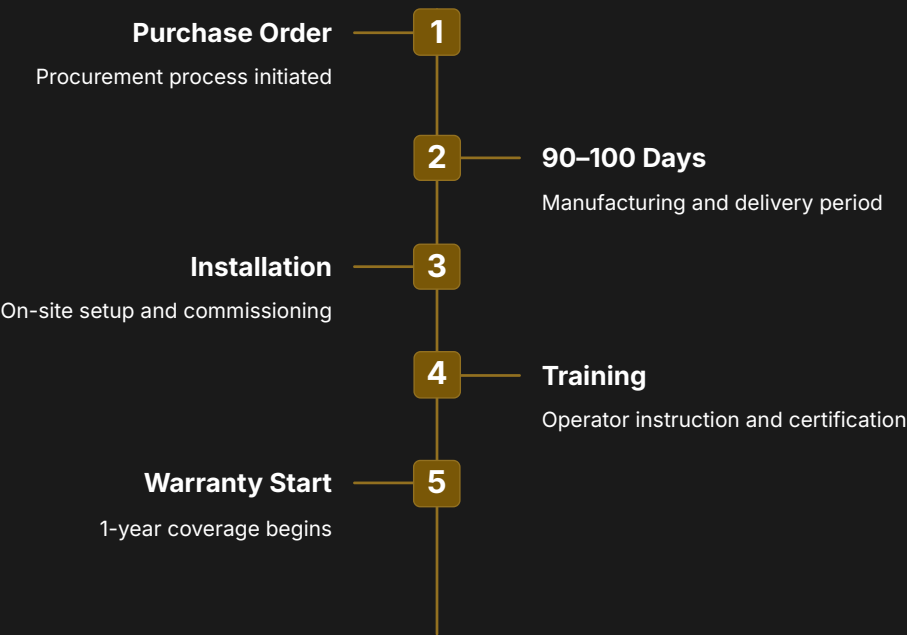
Delivery, Warranty & Compliance

Complete Turnkey Solution


The **QuakeLogic QL-PlasmaForge 1530 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.



Delivery Timeline 90–100 calendar days after receipt of Purchase Order (ARO)	Warranty Coverage One (1) year parts and labor warranty from commissioning date
Consumables Kit Starter consumables kit included for immediate operations	Documentation Complete operation, maintenance, electrical, and safety manuals

 **Procurement Compliance**

The QL-PlasmaForge 1530 meets all technical, functional, safety, delivery, training, and warranty requirements for institutional and public-sector procurement processes. Complete documentation supports competitive bidding and compliance verification requirements.

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 1530 CNC Plasma Cutting System** establishes a new benchmark for modern CNC plasma performance.

Connect with QuakeLogic: Your Partner in Precision CNC Engineering

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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.



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

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