

 **QUAKE**LOGIC

# QL-PolyForge

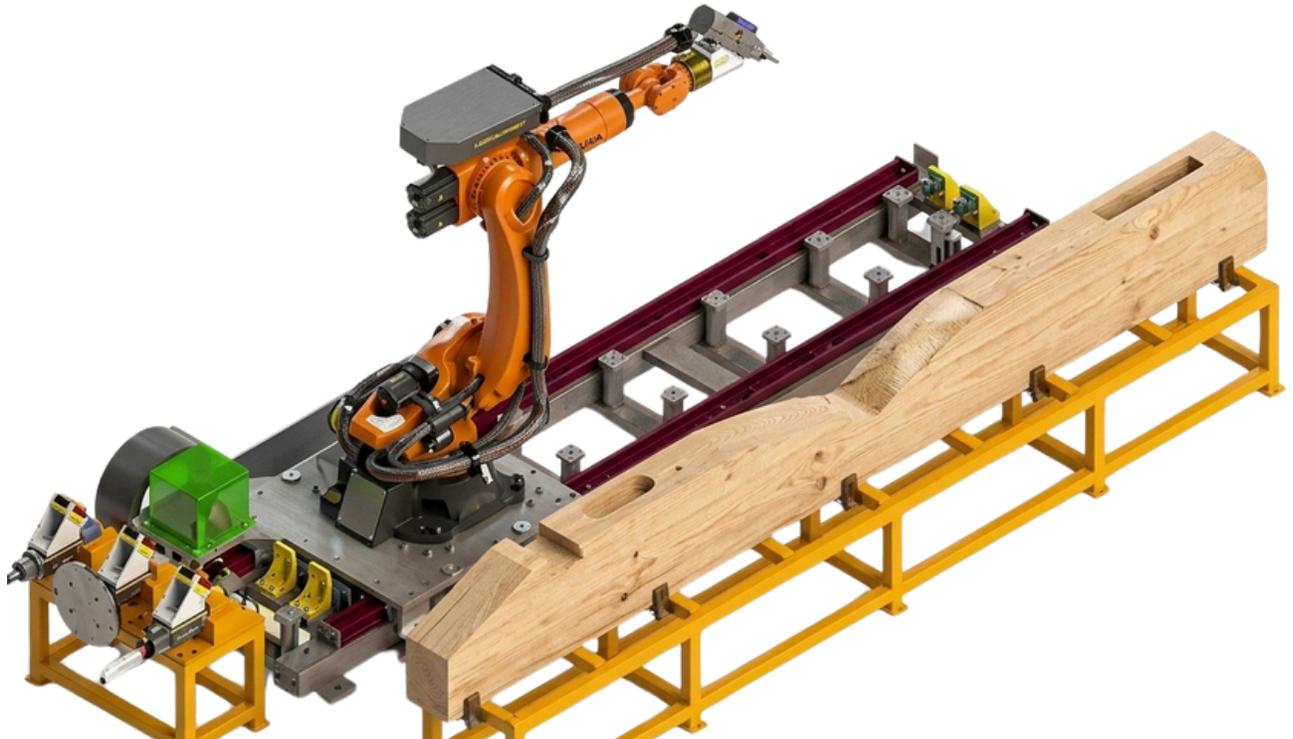
ROBOTIC POLYMER 3D PRINTING CELL



# QL-PolyForge

## ROBOTIC POLYMER 3D PRINTING CELL

- The QL-PolyForge is an industrial robotic additive manufacturing system designed for large-format polymer 3D printing. It integrates a high-performance six-axis robotic platform with a precision thermoplastic extrusion system to deliver reliable, repeatable, and high-accuracy additive manufacturing performance.



## **KEY HIGHLIGHTS**

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- 6-axis industrial robotic platform
- Reach: 2013 mm ( $\geq 2$  m requirement)
- Payload: 16 kg (within 10–19 kg range)
- Printing volume  $\geq 1.8$  m<sup>3</sup>
- Extrusion throughput up to 6 kg/h
- Max temperature: 450°C
- Integrated material drying and feeding system
- Intel x86-based control system

## **SYSTEM CONFIGURATION**

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- Industrial 6-axis robotic arm
- Polymer extrusion print head
- Material feeding and drying unit
- Industrial control cabinet
- Central control workstation
- Safety enclosure

## **SYSTEM FEATURES**

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- High-precision robotic motion
- Stable extrusion process
- Real-time monitoring
- Centralized control interface
- Modular architecture

# Technical Specifications

Parameter	Specification
Axes	6
Reach	2013 mm
Payload	16 kg
Printing Volume	≥ 1.8 m <sup>3</sup>
Heating Zones	≥ 3
Max Temperature	450°C
Throughput	Up to 6 kg/h
Screw Diameter	20 mm
Dryer Capacity	45 L
Controller	Intel x86
Storage	128 GB SSD

## ✓ DELIVERY, INSTALLATION & SUPPORT

- The system includes full delivery, installation, commissioning, and on-site training. Warranty and technical support are provided in accordance with project requirements

## ✓ COMPLIANCE STATEMENT

- The QL-PolyForge system meets or exceeds all technical requirements defined in Solicitation No. 25-58303 without exception, substitution, or deviation.

# Connect with QuakeLogic – QL-PolyForge

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## Corporate Headquarters

QUAKELOGIC INC.  
4010 Foothills Blvd. Suite 103/194  
Roseville, CA 95747, USA

### Factory/Warehouse:

2008 Opportunity Dr. Suite 130,  
Roseville, CA 95678

## Executive Support Line

**+1 (916) 899-0391**

Direct access for technical support, installation assistance, and system integration

Available Monday – Friday, 9 AM – 5 PM PST

## Strategic Inquiries

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

For industrial robotic systems, additive manufacturing solutions, and advanced production technologies

## Our Commitment to Advanced Manufacturing Excellence

### Certified Quality Assurance

Compliant with international standards, ensuring reliable performance, precision manufacturing, and long-term operational stability in industrial environments.

### Advanced Additive Manufacturing

Delivering large-format polymer 3D printing with high-precision robotic motion and stable thermoplastic extrusion for consistent and accurate production results.

### Dedicated Client Success

Providing full system integration, installation, operator training, and post-installation technical support to ensure efficient and reliable manufacturing operations.

## Explore Our Complete Product Portfolio



### Scan to Access Advanced Manufacturing Solutions

Discover how the QL-PolyForge Robotic 3D Printing System enables large-scale, high-performance polymer production with precision, speed, and reliability.

Designed for industrial applications, the system delivers consistent extrusion performance, flexible robotic motion, and scalable manufacturing capabilities.

Learn more about our advanced production technologies and industrial solutions.

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