

 **QUAKE**LOGIC

QL-E03

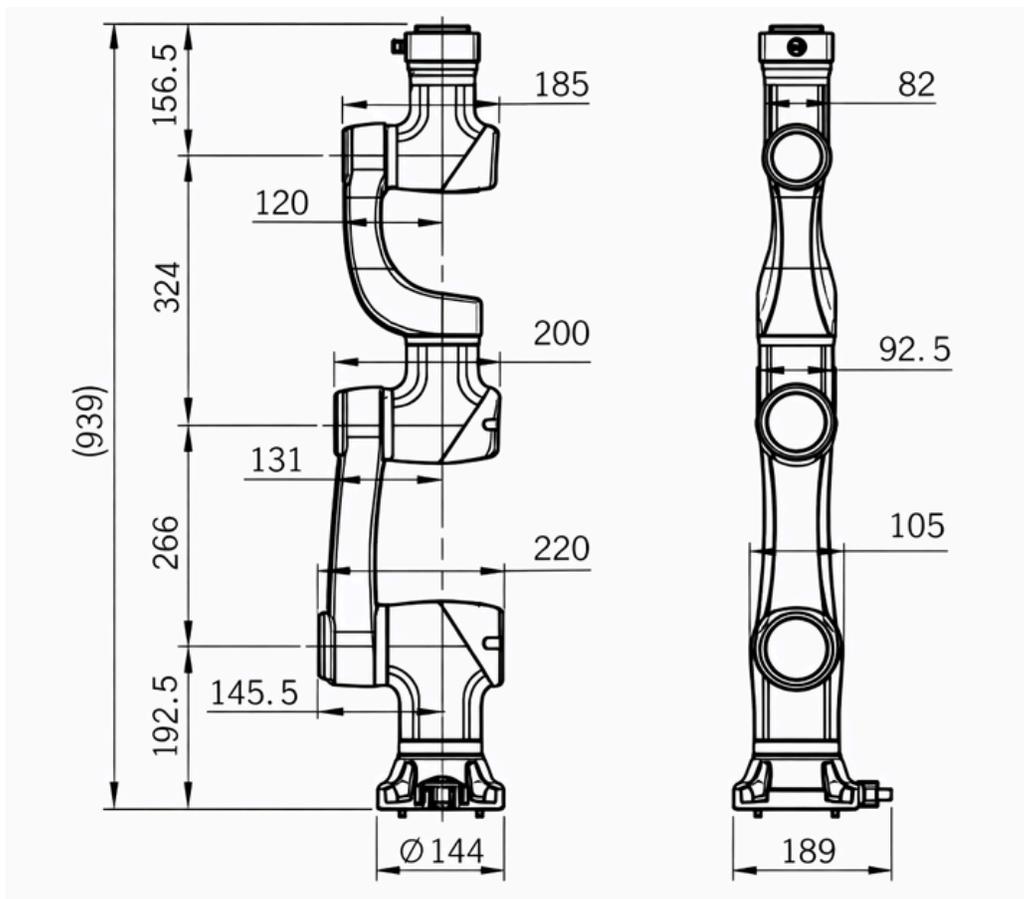
COLLABORATIVE ROBOT



QL-E03

COLLABORATIVE ROBOT

- Quakelogic collaborative robots offer advanced collaborative robot solutions for industrial automation processes. Designed for flexible production structures, precise operations, and applications requiring safe human interaction, these solutions provide efficiency and operational continuity in many processes such as assembly, handling, welding, surface treatment, and more. With its ease of use, integration flexibility, and high-performance focus, Quakelogic provides businesses with modern, reliable, and scalable automation infrastructures.



Technical Specifications

| | |
|--------------------------------|--|
| Model | E03 |
| Weight | 18kg |
| Payload | 3kg |
| Reach | 590mm |
| Power Consumption | 100W typical application |
| Joint Range | J1, J4,J6: $\pm 360^\circ$; J2: $\pm 135^\circ$; J3: $\pm 150^\circ$; J5: $\pm 147^\circ$ |
| Joint Speed | J1–J4: $180^\circ/\text{s}$; J5–J6: $200^\circ/\text{s}$ |
| Tool Speed | 2m/s |
| Repeatability | $\pm 0.02\text{mm}$ |
| Degree Of Freedom | 6 |
| End I/O Port | Digital Input & Output: 3, Analog Input: 2 |
| Control box I/O port | Digital Input & Output: 16, Analog Input & Output: 2 |
| I/O Source | 24V 2A |
| Communication | TCP/IP, ModbusTCP, Profinet , Ethernet/IP (Optional) |
| Programming | Graphical programming, remote call interface |
| IP Classification | IP54 / (IP66 Optional) |
| Collaborative Operation | 10 advanced security configuration functions |
| Main Material | Aluminum alloy |
| Working Temperature | 0–50°C |
| Power Input | 200–240V AC (Optional 110–240V AV), 50–60Hz |

Configuration Details

| Configuration Instructions | Robot | Control Box | Teach Pendant | Cable | Applications |
|----------------------------|---|--|--|-------|--|
| Standard |  | Standard Control Box | Standard Teach Pendant <i>(Resolution 1920×1200, screen size 11 inches)</i> | 5m | / |
| Mini control box |  | Mini control box Power module (Optional) | Tablet Teach Penda (Optional) | 5m | Applied for automation equipment, AGV, mobile robots, etc. |



Standard Control Box

| | |
|----------------------------|--|
| Compatible Models | E03, E05, E05-L, E10, E10-L (1KW) / E12, E15 (2KW) |
| Dimensions | 445.2mm x 330mm x (330+90)mm |
| Stand Height | 90mm |
| Weight | 18.3 kg (1KW) / 17.5 kg (2KW) |
| Power Output | 48V DC |
| Working Temperature | 0~50°C |
| Working Humidity | 90% Relative Humidity (non-condensing) |
| IP Classification | IP20 |

Mini Control Box (Optional)



| | |
|--------------------------|--------------------|
| Dimensions | 323×221×80(mm) |
| Power Input | DC30~60V |
| I/O Source | DC24V |
| I/O Port | Inputs & Outputs 8 |
| IP Classification | IP20 |
| Communication | TCP/IP, Modbus |

Teach Pendant



| | |
|----------------------|-----------------|
| Dimensions | 290×234×108(mm) |
| Weight | 2.5kg |
| Display | 11" |
| Resolution | 1920×1200 |
| E-stop Button | 1 |

Connect with QuakeLogic – Collaborative Robot Series

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Strategic Inquiries

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For collaborative robot solutions, industrial automation projects, production line integration, and customized deployment inquiries

Why Choose QuakeLogic?

Precision & Reliability

Engineered for stable and repeatable performance, QuakeLogic collaborative robot solutions support high-precision tasks across assembly, handling, inspection, and process automation applications.

Flexible Industrial Integration

Our solutions are designed for seamless integration into modern production environments, ensuring compatibility with diverse automation systems, workflows, and application needs.

Safety-Focused Collaboration

With collaborative operation at the core, QuakeLogic solutions help enable safe human-robot interaction, simplified deployment, and efficient automation in dynamic working environments.

Explore Our Collaborative Robot Solutions



Scan to Explore Product Details

Discover how QuakeLogic collaborative robot solutions deliver precision, flexibility, and operational efficiency for modern industrial applications.

Designed for assembly, material handling, welding, inspection, and process automation, our systems support reliable performance and seamless integration across different production environments.

Learn more about system specifications, software capabilities, and integration options at:

www.quakelogic.net