

 **QUAKE**LOGIC

QL-E12

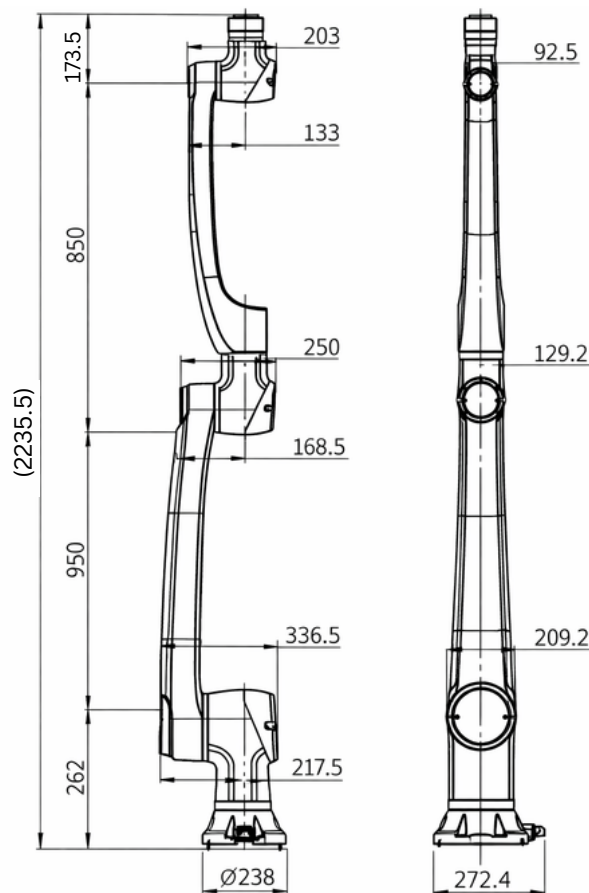
COLLABORATIVE ROBOT



QL-E12

COLLABORATIVE ROBOT

- Quakellogic 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, Quakellogic provides businesses with modern, reliable, and scalable automation infrastructures.



Technical Specifications

Model	E12
Weight	70kg
Payload	12kg
Reach	1800mm
Power Consumption	600W typical application
Joint Range	J1, J4,J6: $\pm 360^\circ$; J2: $\pm 135^\circ$; J3: $\pm 155^\circ$; J5: $\pm 180^\circ$
Joint Speed	J1–J2: $80^\circ/\text{s}$; J3–J4: $120^\circ/\text{s}$; J5–J6: $150^\circ/\text{s}$
Tool Speed	2.5m/s
Repeatability	$\pm 0.05\text{mm}$
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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planning, and solution support.

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5 PM PST

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