

# LARA

Lightweight Agile  
Robotic Assistant



## Data sheet

**LARA defines a new level of lightweight design and industrial performance at low cost.**

With a high industrial performance in terms of speed, precision, and protection, coming as a cost-effective solution, LARA is the perfect solution for SMEs to get a first experience in the world of collaborative industrial robots. Our own developed control systems and intuitive user interface allow a seamless integration of LARA into any production site. The robust design and high performance enable LARA to be used for applications which are not feasible for other collaborative robots, while still having the advantage of being a robot which can be easily used by everyone – beginners and experts.

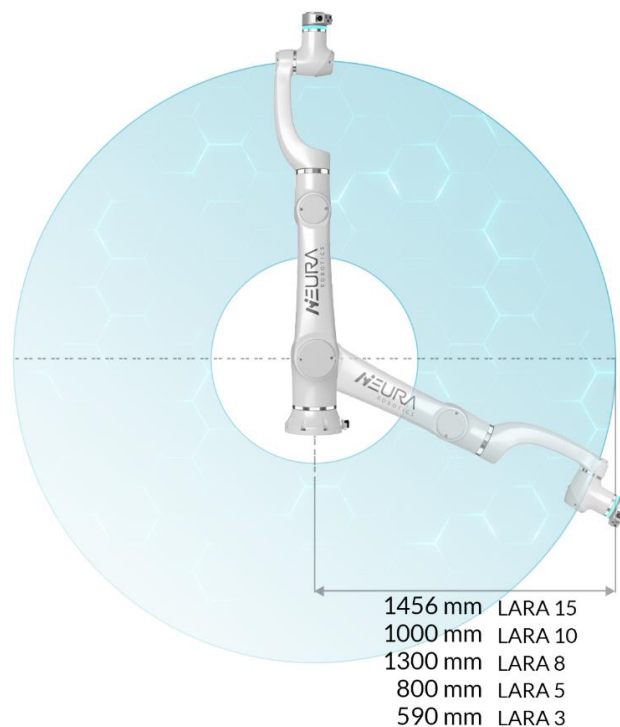
General Specs	LARA 3	LARA 5	LARA 8	LARA 10	LARA 15
Payload	3 kg	5 kg	8 kg	10 kg	15 kg
Reach	590 mm	800 mm	1300 mm	1000 mm	1300 mm
Degrees of Freedom	6 rotary joints	6 rotary joints	6 rotary joints	6 rotary joints	6 rotary joints
Weight	17 kg	23 kg	47 kg	40 kg	55 kg
Robot Mounting	Any Orientation	Any Orientation	Any Orientation	Any Orientation	Any Orientation
IP classification	IP66	IP66	IP66	IP66	IP54
Ambient Working Temperature	0 °C - 50 °C	0 °C - 50 °C	0 °C - 50 °C	0 °C - 50 °C	0 °C - 50 °C
Data & Power Cables	Complete inner harness	Complete inner harness	Complete inner harness	Complete inner harness	Complete inner harness
Footprint Base	Ø 156 mm	Ø 156 mm	Ø 200 mm	Ø 200 mm	Ø 200 mm
Tool Connector Type	M6	M6	M6	M6	M6
Status Illumination	RGB LED on TCP	RGB LED on TCP	RGB LED on TCP	RGB LED on TCP	RGB LED on TCP
Tgt. Performance Level	Pld Cat.3 / SIL3	Pld Cat.3 / SIL3	Pld Cat.3 / SIL3	Pld Cat.3 / SIL3	Pld Cat.3 / SIL3
Tgt. Repeatability	± 0.02 mm	± 0.02 mm	± 0.02 mm	± 0.02 mm	± 0.02 mm

## Movement

	Working Range		Maximum speed	
	LARA 3/5/8/10/15	LARA 3/ 5	LARA 8/ 10	LARA 15
<b>A1</b>	±360°	180°/s	120°/s	100°/s
<b>A2</b>	±360°	180°/s	120°/s	100°/s
<b>A3</b>	±360°	180°/s	135°/s	120°/s
<b>A4</b>	±360°	180°/s	135°/s	120°/s
<b>A5</b>	±360°	200°/s	180°/s	150°/s
<b>A1</b>	±360°	200°/s	180°/s	150°/s

## TCP Connector Flange

<b>Hole pattern</b>	DIN ISO 9409-1-50-5-M6
<b>GPIO</b>	M8 8-pin-A-M   IEC 61076-2-104
<b>I/O Ports</b>	3x Digital In, 3x Digital Out, 2x Analog In
<b>I/O power supply</b>	24V 600mA
<b>Electrical Interfaces</b>	EtherCAT, CAN Bus, IO Link, Modbus
<b>Control Functions</b>	5 Programmable Buttons on Axis 5, 1 Programmable Buttons on TCP



## Software & Controller

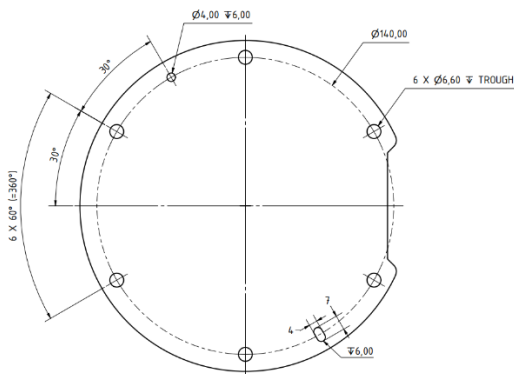
<b>Motion Controller</b>	Real-Time NR-Motion Mastert
<b>Software Interfaces</b>	Robot SDKs
<b>Safety Architecture</b>	Safe Master & FSoE Communication
<b>Safety Features</b>	Safe- Position, Speed, Torque, Zones, Limits



## Control Box

<b>Dimensions</b>	450 mm x 380 mm x 210 mm 17.7 in x 15 in x 8.3 in
<b>Weight</b>	25 kg / 55.1 lbs
<b>Power Supply</b>	100-240 VAC, 50/60 Hz, 3,2 kW
<b>Interfaces</b>	EtherCAT/FSoE, TCP/IP, USB 3.0, GPIO, CAN Bus, Modbus

## Connection LARA 3/5



### NEURA Robotics GmbH

Gutenbergstraße 44  
72555 Metzingen | Germany  
Phone: +49 (0) 7123 87970 0  
E-Mail: info@neura-robotics.com  
www.neura-robotics.com

neura-robotics

## Programming Features

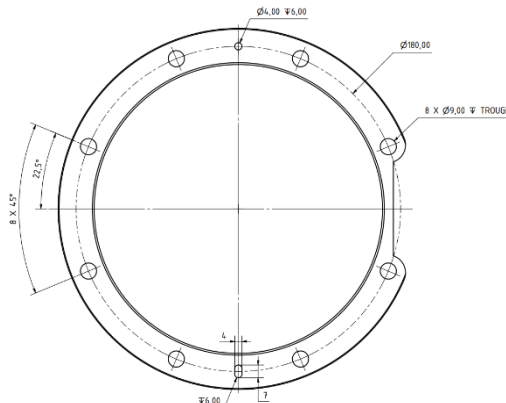
<b>Smart GUI</b>	NR Easy Programming Interface
<b>Fast Programming</b>	Shortcut Buttons, Dynamic Path and Force Recording
<b>Human-Robot-Interaction</b>	GUI and Force-Feedback



## Teach Pendant

<b>Dimensionst</b>	285 mm x 228 mm x 95 mm 11.2 in x 9 in x 3.7 in
<b>Resolution</b>	1280 x 800
<b>Display</b>	10.1" touchscreen
<b>Cable Length</b>	5 m / 197 in

## LARA 8/10/15



### Note:

We reserve the right to make technical changes to the products and changes to the contents of this document at any time without prior notice. For orders, the respective agreed properties are decisive. NEURA Robotics GmbH assumes no responsibility for any errors or omissions in this document.

We reserve all rights to this document and the objects and illustrations contained herein. Reproduction, disclosure to third parties or exploitation of its contents even in part is prohibited without the prior written consent of NEURA Robotics GmbH.