

# LARA<sup>®</sup> LIGHTWEIGHT AGILE ROBOTIC ASSISTANT

## Datasheet

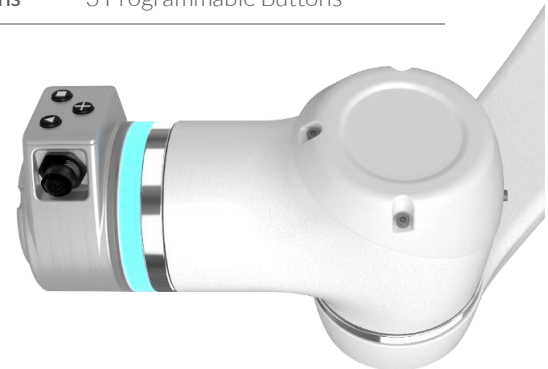


### LARA<sup>®</sup> defines a new level of lightweight design and industrial performance at low costs

With a high industrial performance in terms of speed, precision, and protection, coming as a cost-effective solution, LARA<sup>®</sup> 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<sup>®</sup> into any production site. The robust design and high performance enable LARA<sup>®</sup> 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.

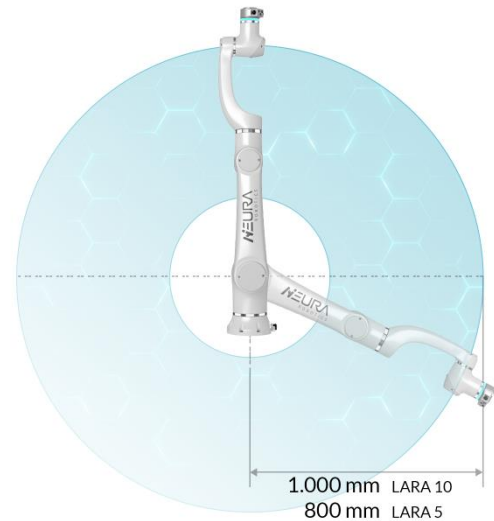
General Specs	LARA 10	LARA 5
Payload	10 kg	5 kg
Reach	1,000 mm	800 mm
Degrees of Freedom	6 rotary joints	6 rotary joints
Weight	42 kg	24 kg
Robot Mounting	Any Orientation	Any Orientation
IP classification	IP66	IP66
Ambient Working Temperature	0°C – 50°C	0°C – 50°C
Data & Power Cables	Complete inner harness	Complete inner harness
Footprint Base	Ø 200 mm	Ø 156 mm
Tool Connector Type	M6	M6
Status Illumination	RGB LED on TCP	RGB LED on TCP
Tgt. Performance Level	Pld Cat.3/SIL3	Pld Cat.3/SIL3
Tgt. Repeatability	± 0.02 mm / ± 0.00079 in	± 0.02 mm / ± 0.00079 in

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



## Movement

	Working Range		Maximum speed	
	LARA 10	LARA 5	LARA 10	LARA 5
A1	± 360°	± 360°	120 °/s	180 °/s
A2	± 360°	± 360°	120 °/s	180 °/s
A3	± 360°	± 360°	135 °/s	180 °/s
A4	± 360°	± 360°	135 °/s	180 °/s
A5	± 360°	± 360°	180 °/s	200 °/s
A6	± 360°	± 360°	180 °/s	200 °/s



## Software & Controller

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



## Control Box

Dimensions	450 mm x 380 mm x 210 mm 17.7 in x 15 in x 8.3 in
Weight	25 kg / 55.1 lbs
Power Supply	100-240 VAC, 50/60 Hz, 3.2 kW
Interfaces	EtherCAT/FSoE, TCP/IP, USB 3.0, GPIO, CAN Bus, Modbus

## Programming Features

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



## Teach Pendant

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

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