

Datasheet

LARA

Lightweight Agile Robotic Assistant



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Lightweight Agile
Robotic Assistant

The Collaborative Robot That Adapts to Any Challenge

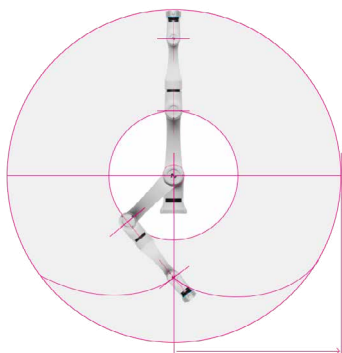
Ready to be used for your application right away. Combining lightweight design and industrial performance with an intuitive user interface.

LARA is a six-degree-of-freedom collaborative robot that combines the agility of lightweight design with industrial performance. With unmatched speed, precision and protection, LARA bridges the gap between the world of collaborative and industrial robots. This way, LARA allows you to automate any

production process in a cost-efficient way. Its intuitive user interface enables anyone to create programs for LARA, easily automating simple and repetitive tasks in any production environment.



Specifications	LARA 3	LARA 5	LARA 8	LARA 10	LARA 15	LARA 20	LARA 25	LARA 30	LARA 30L
Payload (kg)	3	5	8	10	15	20	25	30	30
Reach (mm)	590	800	1300	1000	1600	1800	1800	1300	1800
Weight (kg)	18	26	48	45	67	98	101	98	126
Degree of Freedom	6 rotary joints								
Repeatability (mm)	± 0.02				± 0.05				
IP Rating	IP66				IP54				
Footprint Base (mm)	Ø 144	Ø 156	Ø 200	Ø 200	Ø 262	Ø 299	Ø 299	Ø 299	Ø 357
Bolt Circle (mm)	Ø 126	Ø 140	Ø 180	Ø 180	Ø 232	Ø 264	Ø 264	Ø 264	Ø 318
Operating Temperature	0°C – 40°C								
Power Cables	Complete inner harness								
Tool Connector Type	M12 12-pole								
Status Indicator	RGB LED on flange								
Tgt. Perf. Level	PLd Cat.3 / SIL2								
Status Indicator	Any orientation								



Reach 590 / 800 / 1000 /
1300 / 1600 / 1800 mm

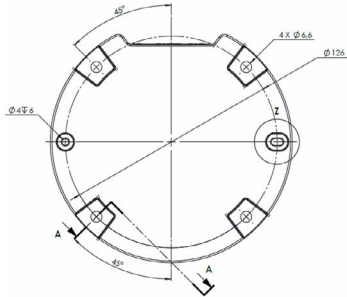
Axis	Working Angle (Degrees)		Maximum Speed (° / s)			
	LARA 3/5/8/10	LARA 15/20/25/30/30L	LARA 3	LARA 5	LARA 8/10	LARA 15/20/25/30/30L
A1	± 180°	± 180°	180	170	130	120
A2	± 180°	± 120°	180	170	130	120
A3	± 150°	± 150° (± 120° for 30L)	180	180	150	120
A4	± 180° ¹	± 180°	180	180	150	120
A5	± 180°	± 180°	200	200	180	180
A6	± 360°	± 360° (opt.)	200	200	180	180

¹ ±360° available on request

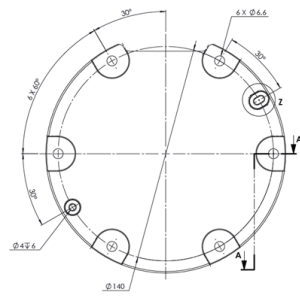
TCP Connector and Flange	
Hole Pattern	DIN ISO 9409-1-50-4-M6
GPIO	3x digital in, 3x digital out, 2x analog in
I/O Port	M12 12-pin-A-M / IEC 61076-2-101
I/O Power Supply	24 V, max. 1500 mA
Electrical Interfaces	GPIO, Modbus RTU, 24V PSU
Control Functions	2 programmable buttons on flange

Software & Controller	
Motion Controller	Real-Time NR-Motion Master
Software Interfaces	NeuraPy API
Safety Architecture	Safe Master
Safety	Safe position, speed, torque, limits, I/Os
Programming Features	
Smart GUI	Neura easy programming interface
Fast Programming	2 programmable buttons on flange, ZeroG, path recording
Human-Robot Interaction	GUI, force-feedback, LED indicator on flange
Control Box (NRLCC)	
Dimensions	493 mm x 470 mm x 243 mm
Weight (kg)	20
Input Voltage / Frequency	100–240 V AC, 50 / 60 Hz
Power Consumption (Max.)	LARA 3–10 1200 W LARA 15–30L 3000 W
Interfaces	8x GPIO, Modbus TCP, Ethernet IP, USB 3.0, Safe I/Os
Teach Pendant	
Dimensions (var.)	300 mm x 245 mm x 133 mm
Resolution (px)	2560 x 1600
Weight (kg)	1.5 (without cable), 2.5 (incl. 5 m cable)
Cable Length (m)	5

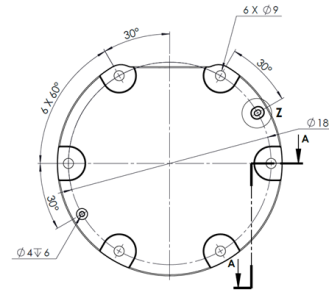
Robot Base Hole Pattern for
LARA 3



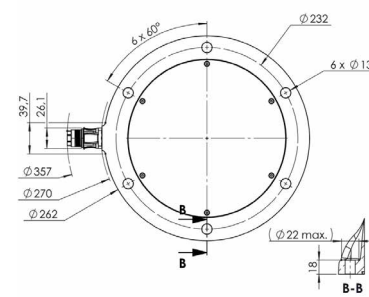
Robot Base Hole Pattern for
LARA 5



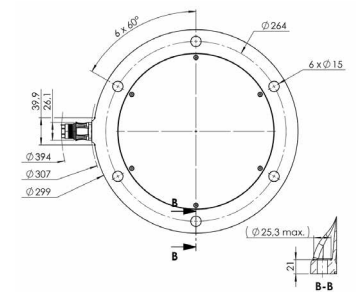
Robot Base Hole Pattern for
LARA 8/10



Robot Base Hole Pattern for
LARA 15



Robot Base Hole Pattern for
LARA 20/25/30

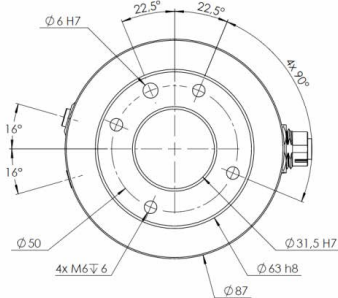


Get in contact!

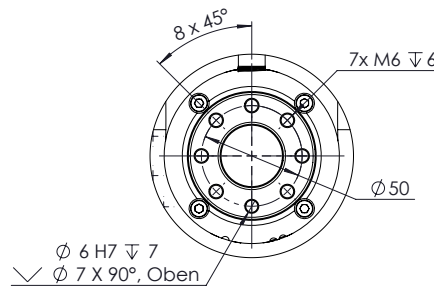
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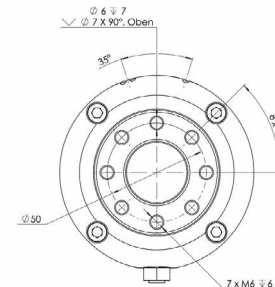
TCP Flange Hole Pattern for
LARA 3/5/8/10



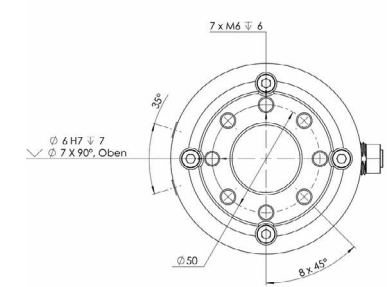
TCP Flange Hole Pattern for
LARA 15



TCP Flange Hole Pattern for
LARA 20



TCP Flange Hole Pattern for
LARA 25/30/30L



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