



LARA

Lightweight Agile Robotic Assistant

Data sheet

Combining lightweight design and industrial performance with an intuitive user interface.

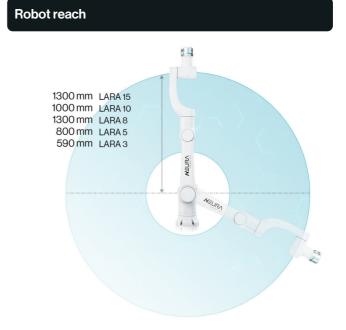
LARA, the Lightweight Agile Robotic Assistant, is a six-degree-of-freedom collaborative robot that combines the agility of lightweight design with industrial performance. With unmatched speed, precision and protection, LARA bridges the gap between the world of collaborative and industrial robots. This 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.

| General specs | LARA 3 | LARA 5 | LARA 8 | LARA 10 | LARA 15 |
|-----------------------------|------------------------|------------------------|------------------------|------------------------|------------------------|
| Payload | 3kg | 5kg | 8kg | 10 kg | 15 kg |
| Reach | 590 mm | 800 mm | 1300 mm | 1000 mm | 1300 mm |
| Degrees of Freedom | 6 rotary joints |
| Weight | 17 kg | 26 kg | 48 kg | 42 kg | 55 kg |
| Robot mounting | 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 |
| Footprint base | Ø 156 mm | Ø 156 mm | Ø 200 mm | Ø 200 mm | Ø 200 mm |
| Tool connector type | M1212-pole | M1212-pole | M1212-pole | M1212-pole | M1212-pole |
| Status illumination | RGB LED on TCP |
| Tgt. perf. 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 | | | |
|----------|------------------------------|----------|--------------|
| Axis | Working angles Maximum speed | | num speed |
| _ | LARA 3/5/8/10/15 | LARA 3/5 | LARA 8/10/15 |
| A1 | ±360° | 200°/s | 140°/s |
| A2 | ±135° | 200°/s | 140°/s |
| А3 | ±155° | 200°/s | 200°/s |
| A4 | ±360° | 200°/s | 200°/s |
| A5 | ±180° | 220°/s | 220°/s |
| A6 | ± 360° | 220°/s | 220°/s |

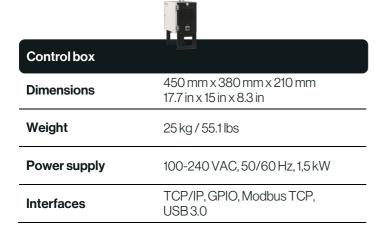
| TCP Connector Flange | | |
|-----------------------|---|--|
| Hole pattern | DIN ISO 9409-1-50-4-M6 | |
| GPIO | 3x digital in, 3x digital out, 2x analog in | |
| I/O port | M1212-pin-A-M / IEC 61076-2-101 | |
| I/O power supply | 24V 600mA | |
| Electrical interfaces | GPIO, Modbus RTU, 24V PSU | |
| Control functions | 2 programmable buttons on TCP | |



| Software & Controller | | |
|-----------------------|--------------------------------------|--|
| Motion controller | Real-Time NR-Motion Master | |
| Software interfaces | Robot API | |
| Safety architecture | Safe Master | |
| Safety features | Safe position, speed, torque, limits | |

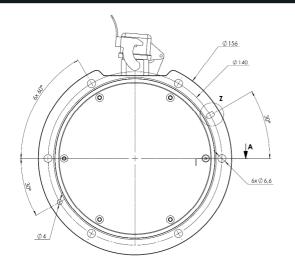
| Programming features | | |
|-----------------------------|--|--|
| Smart GUI | NR easy programming interface | |
| Fast programming | Programmable buttons on TCP, ZeroG, path recording | |
| Human-robot- interaction | GUI, force-feedback, LED indicator on TCP | |



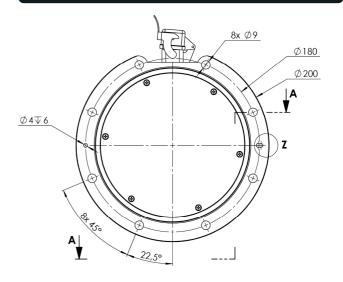


| Tech pendant | |
|--------------|--|
| Dimensions | 285 mm x 228 mm x 95 mm 11.2 in x 9 in x 3.7 in |
| Resolution | 2560x1600 |
| Cable length | 5 m / 197 in |
| | |

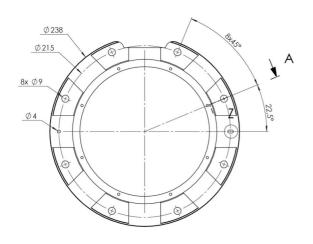
Hole pattern of robot base LARA 3/5



Hole pattern of robot base LARA 8/10



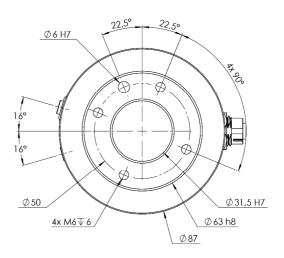
Hole pattern of robot base LARA 15



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Hole pattern of TCP flange



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