



**ROBOTIC ARMS PULSE**

## Robotic Arms PULSE

PULSE by Rozum Robotics is a series of high-class cost-efficient manipulators intended for manufacturing enterprises of all sizes, makers and innovators, research institutions.

## ARM MANIPULATOR

### GENERAL

<b>Payload</b>	6 kg (PULSE 75) 4 kg (PULSE 90)
<b>Degrees of freedom</b>	6
<b>Reach</b>	750 mm (PULSE 75) 900 mm (PULSE 90)
<b>Position repeatability</b>	+/- 0.1 mm
<b>Materials</b>	Aluminum alloy
<b>Ambient temperature</b>	0 °C to +35 °C
<b>Weight</b>	12.6 kg (PULSE 75) 13.6 kg (PULSE 90)
<b>Non-stop lifetime cycle</b>	20 000 + hours
<b>Safety</b>	Conformity to collaborative operations requirements ISO 10218-1:2011 (E) ANSI RIA R15.06
<b>Color</b>	Ambient black
<b>Warranty</b>	1-year

### FEATURES

<b>Robot mounting</b>	Table / Ceiling / Wall / Mobile Platform
<b>Degree of protection</b>	IP40
<b>Noise level</b>	Less than 60 dB
<b>Servo controllers</b>	Integrated
<b>Power consumption</b>	Stand-by mode 10W / 13W Average 150 W / 250 W Maximum 300 W / 450 W
<b>End-effector mounting flange</b>	ISO 9409-1-50-4-M6
<b>Drives</b>	Self-design high compact brushless servo drives (RDrive series)
<b>Footprint</b>	Ø 120 mm

### PERFORMANCE

<b>Max TCP Velocity</b>	2 m/s
<b>Acceleration time 0-1m/s</b>	0.1 s

### MOVEMENT

Axis movement	Working range	Maximum speed
<b>Axis 1 (base)</b>	-360° to 360°	180°/s
<b>Axis 2</b>	-360° to 360°	180°/s
<b>Axis 3</b>	-160° to 160°	180°/s
<b>Axis 4</b>	-170° to 170°	180°/s
<b>Axis 5</b>	-360° to 360°	180°/s
<b>Axis 6</b>	-360° to 360°	180°/s

Average lead time - 2-8 weeks.

Custom modifications are available on request.

Worldwide supplies. Direct sales by the manufacturer of local distributor supply.

## SOFTWARE

<b>Platform</b>	Web Interface. Any device
<b>Programming</b>	Hand-guiding REST API
<b>Compatibility</b>	Manually/auto via Web

## CONTROL BOX

<b>Interfaces</b>	4x Digital Configurable I/O Sockets 2x Digital Input Sockets 1x USB 1x Ethernet
<b>API</b>	Java/Python

<b>Supply voltage</b>	100 - 264 VAC
<b>Mains frequency</b>	47 - 63 Hz
<b>Power connection</b>	IEC 60320-1 C14
<b>Protection rating</b>	IP21
<b>Noise Level</b>	Less than 60 dB
<b>Controller size</b>	283 x 483 x 91 mm (D x W x H)
<b>Weight</b>	9 kg

### SUPPLY KIT

- Robotic Arm PULSE
- Control Box
- Connection Cables set
- Mounting elements
- Software MAX Extended Package
- 1-year warranty



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