

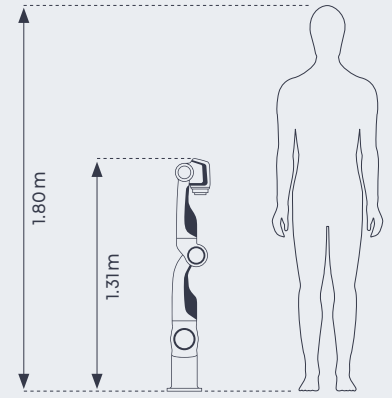


**AGILE ROBOTS**



**Diana 7**

Say hello to  
a new era



# Lightweight robotics meets multisensory technology



7 degrees of freedom  
7 joints  
7 kg payload



# Say hello to Diana 7

Diana 7 is a cutting-edge lightweight robot, featuring seven degrees of freedom and integrated torque sensors in all seven axes, ensuring exceptional dexterity and sensitivity. With a repeatability of  $\pm 0.05$  mm, a 7 kg payload capacity, 923 mm reach, and precise force control of 0.5 N, Diana 7 is designed to handle complex and delicate industrial applications with exceptional precision.

With its IP50 rating and advanced motion control, Diana 7 delivers reliable performance even in the most demanding, confined environments. As a result, the robot offers exceptional versatility across various industries - from assembling delicate electronics in the consumer electronics sector to handling medium-duty tasks in automotive.

This versatility also extends into research: Diana 7 is used extensively across a range of applications, from pharmaceutical settings to advanced AI and robotics research in both academia and industry. Thanks to the software interface FCI (Franka Control Interface), researchers can directly access the robot's control algorithms, free from abstract software layers or filters.

## Safe

Highly sensitive torque control, virtual boundaries, and a safety-driven design ensure secure operation.

## Skillful

Maximum dexterity, precision, force control, and a high payload enable diverse industrial tasks.

## Intuitive

A user-friendly graphical interface and advanced hand-guiding capabilities facilitate fast and intuitive programming.

# Specifications

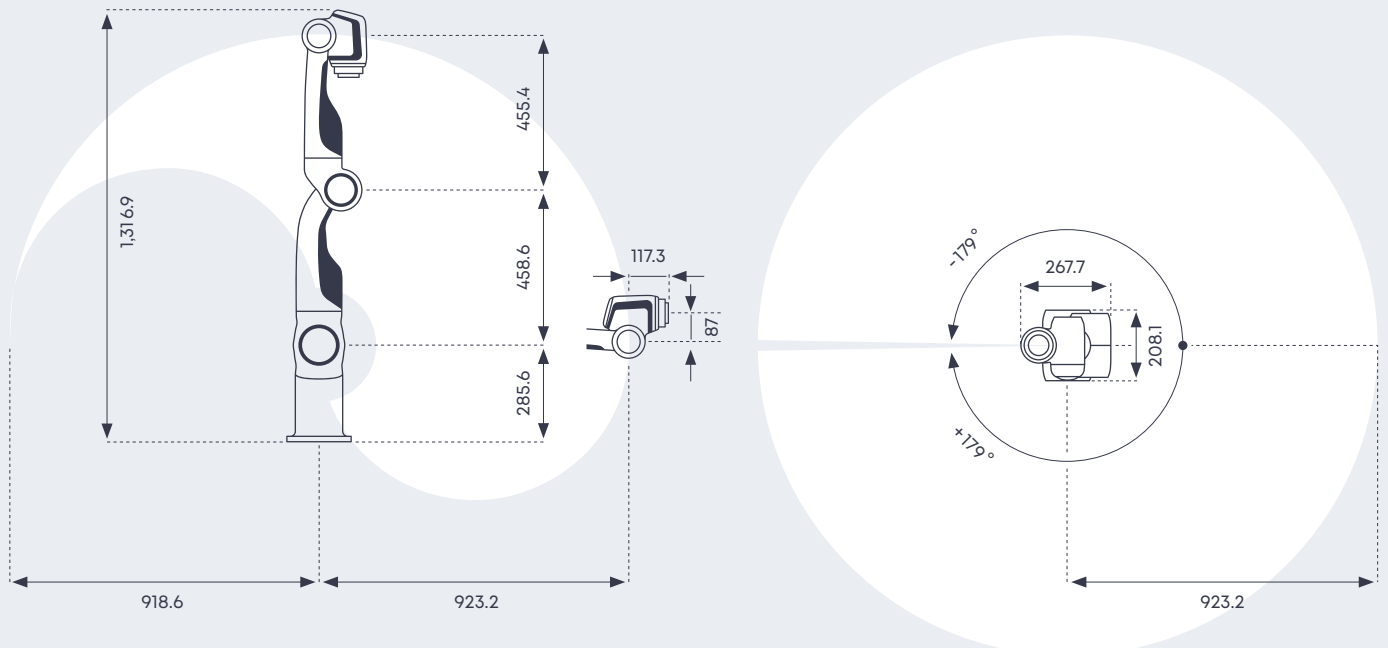
## Diana 7

<b>Payload</b>	7 kg
<b>Protection rating</b>	IP50
<b>Workspace radius</b>	923 mm
<b>Degrees of freedom</b>	7
<b>Repeatability</b>	±0.05 mm
<b>Robot weight</b>	28 kg
<b>Base diameter</b>	∅ 190 mm
<b>End tool connector</b>	ISO 9409
<b>Programming type</b>	C++, Python, Lua
<b>TCP maximum speed</b>	2.4 m/s
<b>Operating temperature</b>	0 to 50 °C
<b>Operating humidity</b>	90% RH (non-condensable)
<b>Safety</b>	EN ISO 12100:2010 EN 60204-1:2018 EN ISO 13849-1:2023 PL d/Cat.3 EN ISO 10218-1:2011

Joints	Range of motion	Max. speed
1	-179° to 179°	180 °/s
2	-90° to 90°	180 °/s
3	-179° to 179°	210 °/s
4	0° to 175°	210 °/s
5	-179° to 179°	270 °/s
6	-179° to 179°	270 °/s
7	-179° to 179°	270 °/s

## Control box

<b>Cable length (body – box)</b>	5.0 m
<b>Power cable length</b>	3.0 m
<b>Power supply</b>	110 V ~240 VAC, 50/60 Hz
<b>Size</b>	483 mm × 377 mm × 192 mm
<b>Weight</b>	16 kg
<b>I/O port</b>	16 digital in / 16 digital out, 2 analogue in / 2 analogue out
<b>I/O power supply</b>	24 V / 2.5 A



# Find out more about our customized solutions.

Contact our experts to book a consultation or demo.



[agile-robots.com/contact](https://agile-robots.com/contact)



Agile Robots SE  
Plinganserstr. 134, 81369 Munich, Germany  
Commercial Register Munich: HRB 292066  
VAT ID: DE 314 299 865  
[www.agile-robots.com](https://www.agile-robots.com)

Specifications are subject to change without notice. This document is for informational purposes only and does not constitute a legally binding offer or any binding representation of product characteristics.