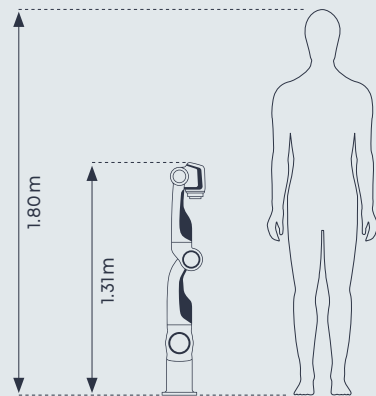




AGILE ROBOTS



**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

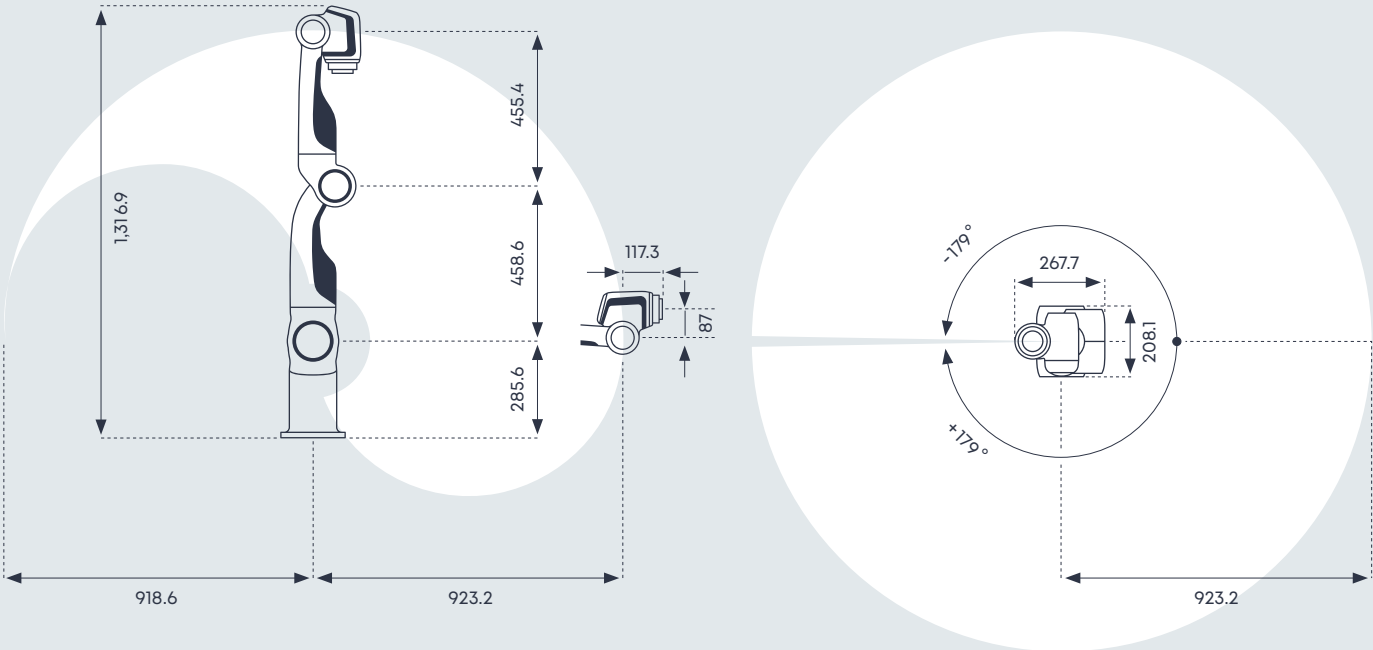
## Diana 7

Payload	7 kg
Protection rating	IP50
Workspace radius	923 mm
Degrees of freedom	7
Repeatability	± 0.05 mm
Robot weight	28 kg
Base diameter	ø 190 mm
End tool connector	ISO 9409
Programming type	C++, Python, Lua
TCP maximum speed	2.4 m/s
Operating temperature	0 to 50 °C
Operating humidity	90 % RH (non-condensable)
Safety	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

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



**Agile Robots** is a leading provider of next-generation automation solutions. By combining artificial intelligence and robotics, the company makes industries smarter, more flexible, and more efficient.

Founded in Munich in 2018 by renowned robotics researchers from the German Aerospace Center (DLR), Agile Robots has experienced rapid global growth. Today, more than 2,500 highly skilled robotics and AI enthusiasts are employed worldwide. The company has one of the largest research and development teams in the AI and robotics industry.

Agile Robots has built a unique portfolio, together with the subsidiaries audEERING, BÄR Automation, Franka Robotics and idealworks, the company covers all areas of AI-driven robotics.

Find out more at: <https://www.agile-robots.com/en>

**Find out more about our customized solutions.**

**Book a consultation or demo.**

Contact our experts today.

© Agile Robots SE  
Plinganserstrasse 134  
81369 Munich

**+49 89 277 814-101**  
**[sales@agile-robots.com](mailto:sales@agile-robots.com)**



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