



Robotic Arm Franka Research 3

Franka Research 3 is a robotic arm designed specifically for scientific exploration and experimentation. With seven degrees of freedom, integrated torque sensors, and positional repeatability of ± 0.1 mm, it delivers remarkable flexibility and supports a wide range of applications. Its seamless integration with popular environments such as ROS and MATLAB, along with the ability to program at a low level, ensures that researchers can select the most effective tools for their specific project needs...

Technical Specifications - Robotic Arm

Parameter	Value
Degrees of Freedom	7
Payload	3 kg
Reach	855 mm
Position repeatability	$< \pm 0.1$ mm
Weight	~ 18.3 kg
Force/Torque sensing	Link-side torque sensor in all 7 axes
Monitored Signals	Joint position, velocity, torque, cartesian position, force
Available Ports	Ethernet (TCP/IP), 2 configurable safety inputs, 2 × DI & 2 × DO (24 V, 100 Hz sampling rate)
Protection Rating	IP40
Add-ons	
Two-finger gripper	Optional
Vacuum gripper	Optional
Technical Specifications - Controller	

Parameter	Value
Dimensions	355 × 483 × 89 mm
Supply Voltage	100 – 240V AC
Power Consumption	~ 80 W
Weight	~ 7 kg
Protection Rating	IP20
Ambient Temperature	+5 – +45 °C