ROBOTIQ

THE CONTACT LAYER FOR PHYSICAL AI

Robotiq enables physical AI by giving robots the sense of touch and control they need to learn and act in the real world.

2FC-85
Physical AI Gripper

BUILT TO LEARN.
MADE TO DEPLOY.

Durability and reliability

Train and deploy on the same hardware

- **2M cycles**
- **Compliance**
- **Patented mechanical intelligence**

Contact-rich data

More modalities, timestamped and synchronized

- **Modalities:** pressure, vibration, proprioception, force, speed, current
- **Millisecond Synchronization:** All signals are time stamped with millisecond-level precision within a shared time reference frame.
- **Unified API:** Access all data through a single framework



PRE-ORDER NOW
Shipping Q1 2027

Contact Core

Embedded Intelligence

With compute built into the gripper, the 2FC runs grasp skills locally and in real time:

Grasp quality assessment: *"How confident am I in this grasp?"*
- One confidence score the cell can act on.

Incipient slip detection: *"The object is starting to slip."*
- Automatic slip detection and labelling

Object pose estimation: *"Where is the object in my fingers?"*
- State information for learning and downstream manipulation.

Object centering: *"Move the robot to the right position."*
- Closed-loop manipulation.

Advanced grip check: *"Did I pick something, and is it the right thing?"*
- Outcome verification and automatic episode labelling.

Building the future of physical AI?
Talk to a Robotiq Expert

ROBOTIQ | LEAN ROBOTICS

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robotiq.com

Adaptive Grippers
Durable and Scalable

- Reliable manipulation across unpredictable environments
- Proven, robust hardware
- Easy integration with AI pipelines
- 90% of tasks at 10% of cost vs. anthropomorphic hands

PATENTED ENCOMPASSING GRIP

30 000+ GRIPPERS DEPLOYED

STANDARD COMMUNICATION PROTOCOLS

HIGH PRECISION



85mm stroke (3.3 in)
5 kg payload (11 lb)

2F-85



140mm stroke (5.5 in)
2.5 kg payload (5.5 lb)

2F-140



50mm stroke (2 in)
7 kg payload (15 lb)



100 mm stroke (3.93 in)
7 kg payload (15 lb)

HAND-E

Force Torque Sensor
6-DOF

- Precise and high-resolution measurements
- Wear-free sensing technology
- Consistent force and stiffness for each axis



± 300 N

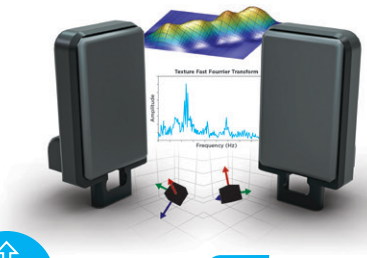
500% OVERLOAD CAPACITY

IP65

FT 300-S
FORCE TORQUE SENSOR

Tactile Sensor Fingertips
Robotics Missing Modality

- Rich multimodal data
- Pressure for contact awareness
- Vibration for slip detection
- Proprioception for accurate finger orientation
- Enables better grasp decisions



28 TAXELS

1000 HZ

IMU

TSF-85

Contact Core

Deploy contact-based skills on Robotiq components

- Incipient Slip Detection
- Object pose estimation
- Object Centering
- Advanced Grip Check
- Grasp Robustness Classifier

Build models with contact-rich data

Synchronized gripper, tactile, robot-state, and contact data streams for automatic labelling and annotation.

Open-source, maintained by Robotiq:

Direct control, ROS 2 integration, and high-fidelity simulation.

ACCESS ROBOTIQ GITHUB

NVIDIA ISAAC

ROS 2