

SPOT ARM

BostonDynamics



Meet the mobile robot arm designed to enable you to **act on data insights** and **perform real, physical work** in human-centric environments.

Equipped to operate through both **semi-autonomous actions** and **telemanipulation**, the arm will open doors, pick, place, push, or drag objects, and adapt to new situations at the **push of a button** or **swipe of a screen**.



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SPOT ARM



TABLET BEHAVIORS

GRASPING, PICKING, PLACING

Manually or semi-autonomously grasp, lift, carry, place, and drag a wide variety of objects, including valve handles, door knobs, tools, etc.

CONSTRAINED MANIPULATION

Semi-autonomously manipulate objects with constrained movement (e.g. turn valves, pull levers, open drawers, etc.).

DOOR OPENING

Semi-autonomously turn handles and open standard push and pull doors.

API OPTIONS

JOINT-SPACE CONTROL

- Specify joint angles and velocities
- Move to predefined configurations

END-EFFECTOR CONTROL

- Specify position, velocity, and force trajectories in Cartesian space
- Point the end-effector at a point in the world
- Perform tasks in contact with the environment (e.g. drawing, wiping, etc.)

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SPECIFICATIONS

GENERAL

Degrees of Freedom	6 + gripper
Length (at full extension)	984 mm (38.7 in)
Mass/Weight (including gripper)	8 kg (17.6 lbs)
Max. Endpoint Speed	10 m/s
Max. Lift Capacity*	Up to 11 kg (24.3 lbs)
Continuous Lift Capacity* (at 0.5 m extension)	5 kg (11 lbs)
Max. Drag Capacity* (on carpet)	Up to 25 kg (55.1 lbs)

ON ROBOT

Total Mass/Weight	39.7 kg (87.5 lbs)
Max. Reach Height	1800 mm (70.9 in)

*Payload capacities measured at 22°C

GRIPPER

Depth	90 mm (3.5 in)
Max Aperture	175 mm (6.9 in)
Peak Clamp Force (at tip of opening)	130 N
Integrated Sensors	ToF, IMU, 4K RGB
Accessory Port	Gigabit Ethernet, 50W power, camera sync (PPS)

ENVIRONMENT

Operating Temp.	-20°C to 45°C
Ingress Protection	Water and dust resistant

JOINT RANGE OF MOTION + LINK LENGTHS (mm)

