SPOT ARM

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.
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* (at full extension): 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)