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.
SPOT ARM

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.

TABLET BEHAVIORS

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.)
SPOT ARM
SPECIFICATIONS

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

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: 130 N
(Integrated Sensors)
Accessory Port:
ToF, IMU, 4K RGB
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)

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