Spot® Arm

Take a new approach to "hands-on" tasks

Broaden the range of Spot's capabilities on your worksite with the Spot Arm.

Maneuverability

Manipulate and inspect objects to perform tasks in places that are difficult or dangerous for people to reach–autonomously or remotely controlled.

Integrated

When equipped with the Arm, Spot uses its full body to balance and position itself for manipulation tasks, improving its range of motion without sacrificing mobility.

Accessible

An intuitive tablet interface and API make it easy to control the Arm. Operators can perform complex manipulation tasks with minimal training.

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.)

www.bostondynamics.com/products/spot/arm/

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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
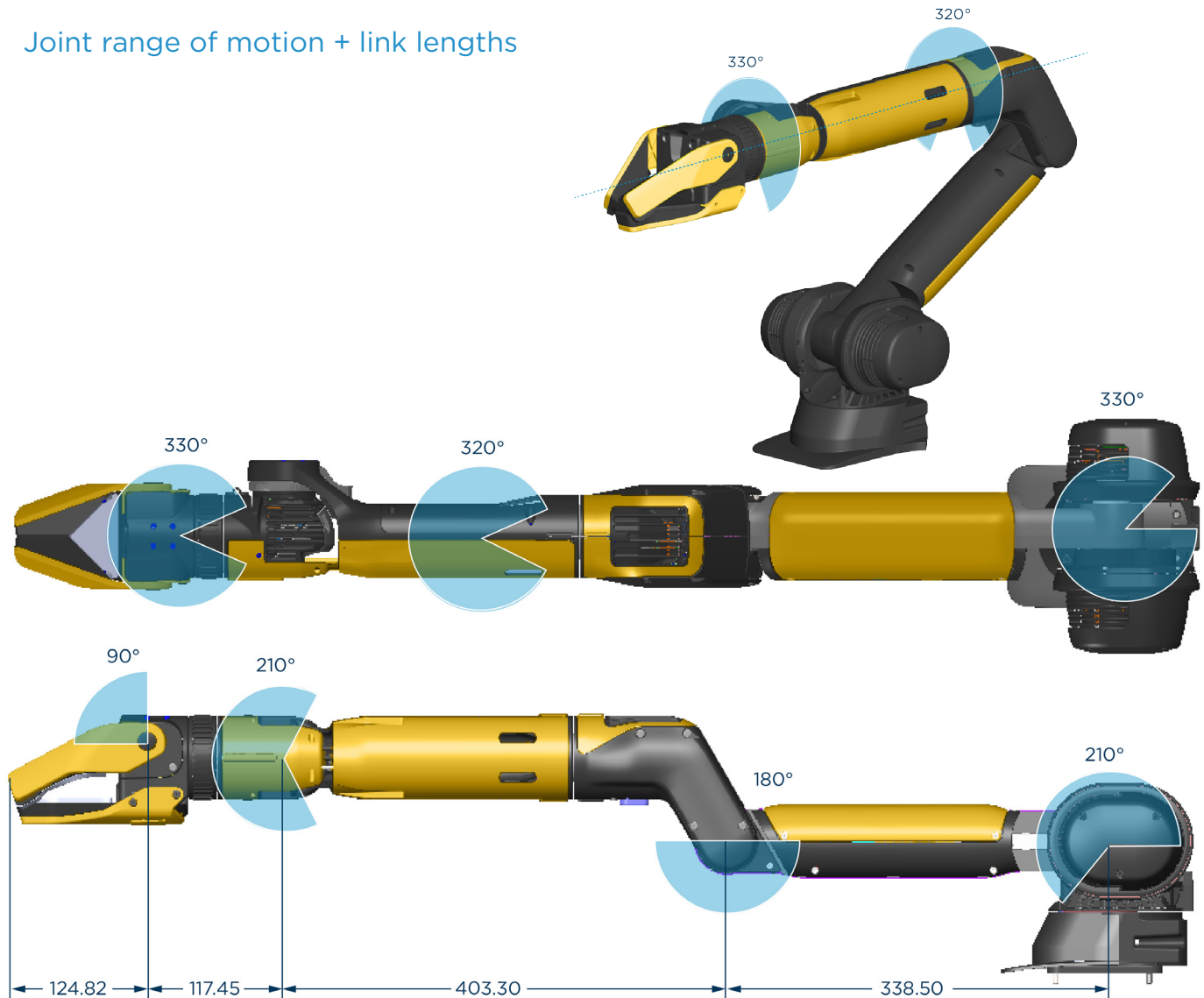**Integrated Sensors** = ToF, IMU, 4K RGB
Accessory Port = Gigabit Ethernet, 50W
power, camera sync (PPS)

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

Joint range of motion + link lengths

Contact

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