



Educational Robot SCORBOT-ER 4u

SPECIFICATIONS

Mechanical structure

**Vertically articulated
Degrees of freedom**

**5 rotational axes + gripper
Payload capacity**

**2.1 kg (4.6 lb)
Axis Range**

**Axis 1: Base rotation: 310° Axis 2: Shoulder rotation: +130° / -35° Axis 3: Elbow rotation: ±130° Axis 4:
Wrist pitch: ±130° Axis 5: Wrist roll: Unlimited (mechanically); ±570° (electrically)
Reach**

**610mm (24") end of gripper
Speed**

**700 mm/sec (27.6"/sec)
Standard gripper**

**Servo motor, parallel fingers
Gripper opening**

**75 mm (3") without pads
65 mm (2.6") with pads
Repeatability**

**±0.18 mm (0.007")
Feedback**

**High resolution incremental optical encoder on each axis and gripper
Homing**

**Microswitch home on each axis
Actuators**

**12 VDC servo motor on all axes and gripper
Transmission**

**Gears, timing belts, lead screw
Weight**

**10.8 kg (23.8 lb)
Ambient operating temperature**

**2° - 40°C (36° - 104°F)
Additional features**

**Roller bearing support on all axes Anti-backlash gearing system on base axis Robot connects to
controller through single 50-pin cable Built-in pneumatic cabling enables use of pneumatic end effectors**