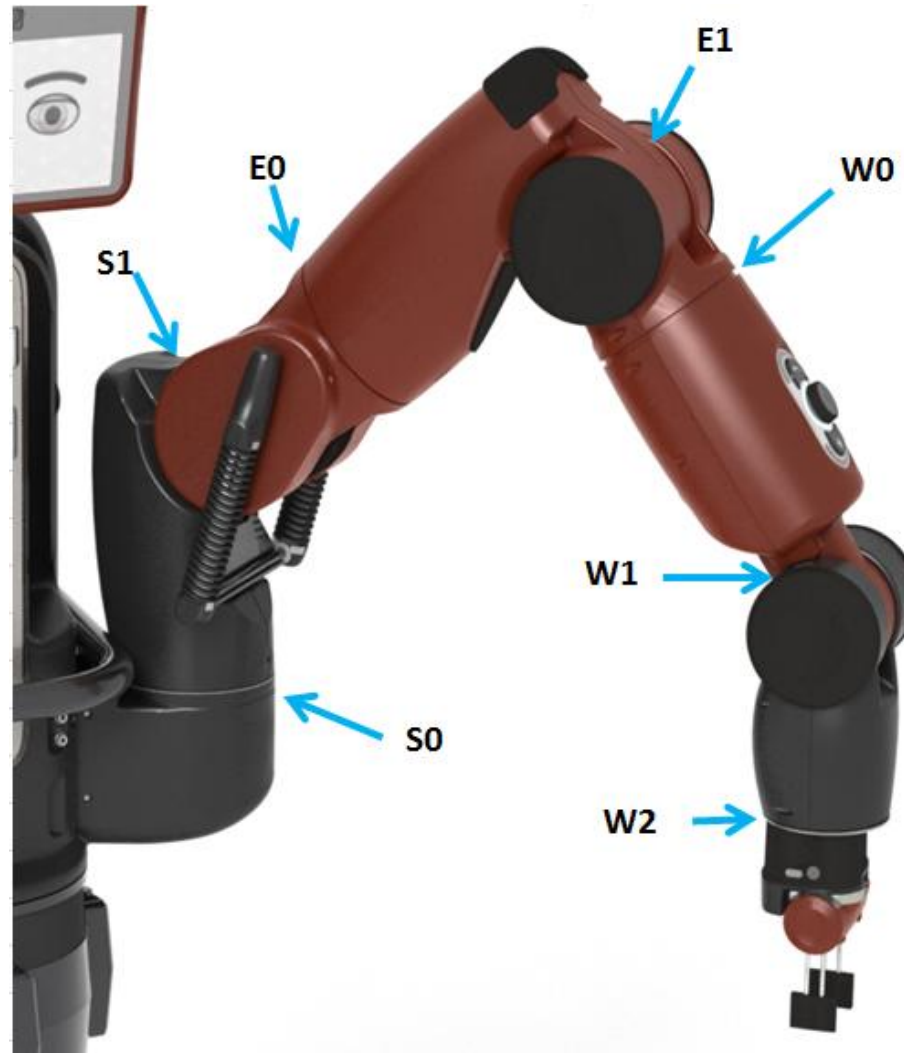
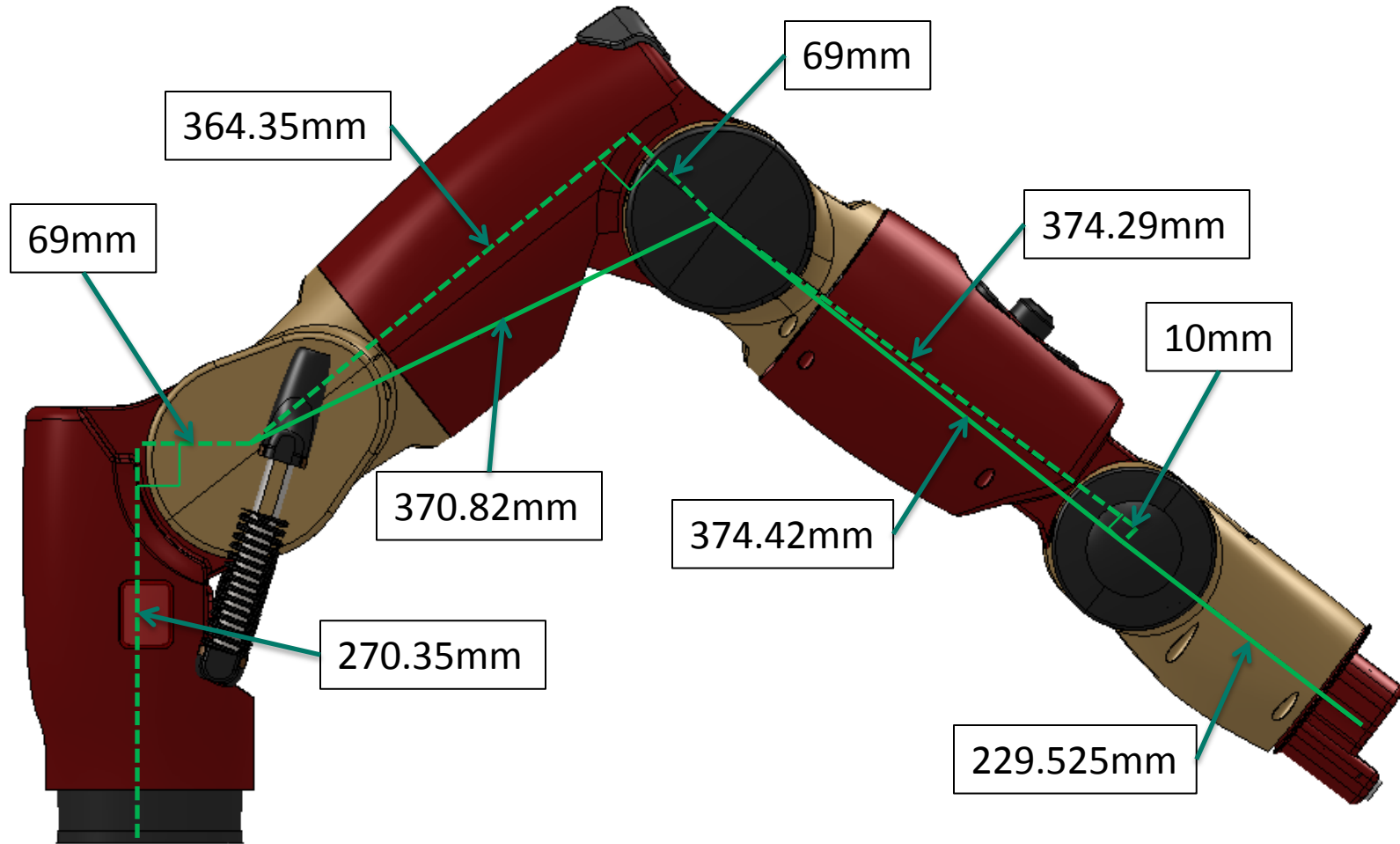


BAXTER ARM AND HARDWARE SPECIFICATIONS

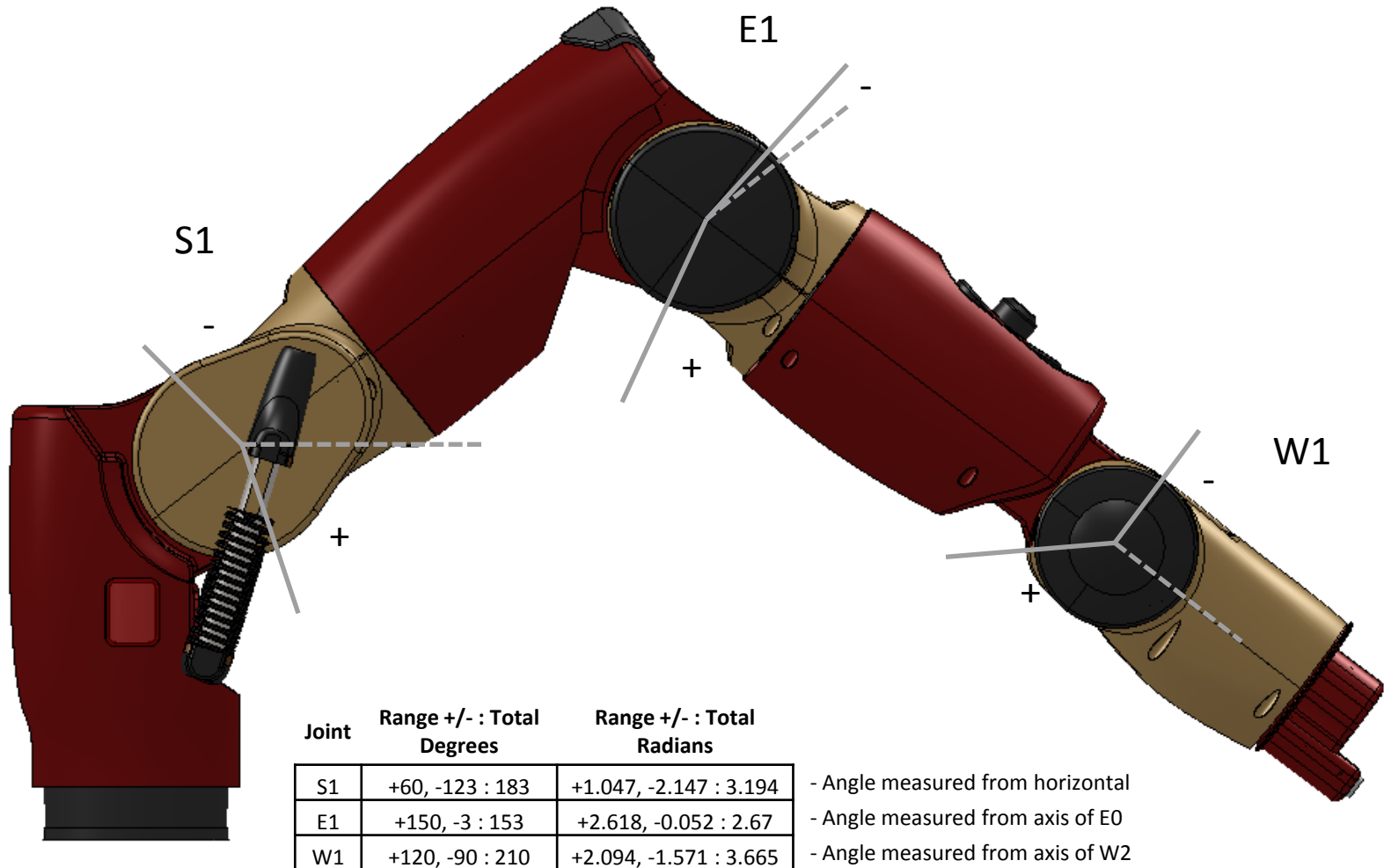
BAXTER JOINT NAMES



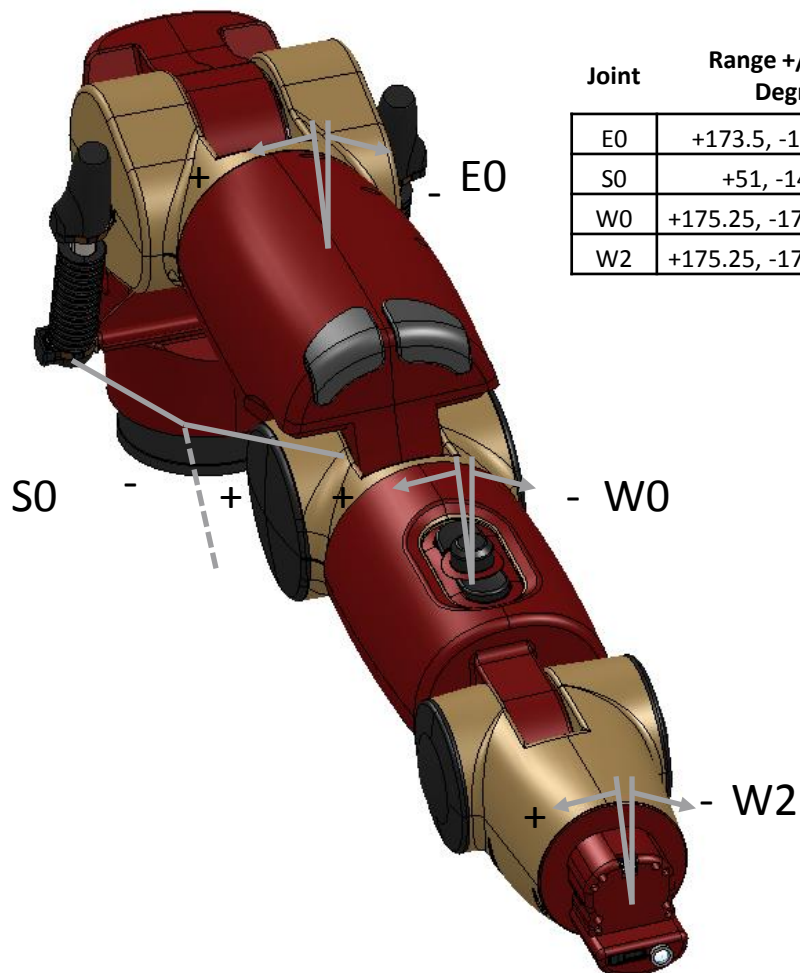
BAXTER P2 LINK LENGTHS



BAXTER P2 JOINT RANGES OF MOTION



BAXTER P2 JOINT RANGES OF MOTION



Joint	Range +/- : Total Degrees	Range +/- : Total Radians
E0	+173.5, -173.5 : 347	+3.028, -3.028 : 6.056
S0	+51, -141 : 192	+0.890, -2.461 : 3.351
W0	+175.25, -175.25 : 350.5	+3.059, -3.059 : 6.117
W2	+175.25, -175.25 : 350.5	+3.059, -3.059 : 6.117

- Neutral point when S1 and E1 are parallel
- Angle listed for right arm from arm straight out
- At neutral point Navigation Buttons points up
- At neutral point camera pod points down

OTHER HARDWARE SPECIFICATIONS

Joint Hardware Peak Torque (per joint)	
S0, S1, E0, E1	50 Nm
W0, W1, W2	15 Nm

Camera Specifications	
Max Resolution	1280 x 800 pixels
Effective Resolution	640 x 400 pixels
Frame Rate	30 frames per second
Focal Length	1.2 mm

On Board CPU	
Processor	3rd Gen Intel Core i7-3770 Processor (8MB, 3.4GHz) w/HD4000 Graphics
Memory	4GB, NON-ECC, 1600MHZ DDR3
Hard Drive	128GB Solid State Drive

OTHER HARDWARE SPECIFICATIONS

Other Specifications	
Screen Resolution	1024 x 600 pixels
Positional Accuracy	+/- 5 mm
Max Payload (including end-effector)	5 lb / 2.2 kg
Gripping Torque (max)	10 lb / 4.4 kg
Infrared Sensor Range	1.5 – 15 in / 4 – 40 cm

Component Weights	
Total weight (with pedestal)	298 lbs / 135.2 kg
One arm	47 lbs / 21.3 kg
Torso	70 lbs / 31.8 kg
Pedestal	134 lbs / 60.8 kg

OTHER HARDWARE SPECIFICATIONS

Electrical Power	
Battery Operation	DC-to-120V AC Inverter (Note: the Baxter robot has an internal PC, which cannot be powered directly off of 24V DC)
Interface	Standard 120VAC power. Robot power bus and internal PC both have “universal” power supplies and support 90 - 264V AC (47 - 63Hz)
Max Consumption	6A at 120V AC 720W max per unit
Electrical Efficiency	87% to 92%
Power supply	Uses medical-grade DC switching power supply for robot power bus
Tolerance to sags	Sags tolerated to 90V. Sustained interruption will require manual power-up
Voltage Flicker	Holdup time 20mS
Voltage Unbalance	Single phase operation only