



Dexter 6Pro Technical Specifications

Hardware Specifications	
Degrees of Freedom	6
Payload	4 kg
Reach	850 mm
Joint Ranges	+/- 360 deg. (Software limited joint 2, 3, 4 to avoid self-collision)
Joint Type	Hollow Shaft, Packaged Joint
Sensors	Dual Absolute Encoders, Current
Brakes	Yes
Visual Feedback	GigE Machine Vision Sensor (Optional)
End-Effector Options	Gripper, Spray Nozzle, Camera, Pen holder, MIG Welding Torch
IP Classification	IP54
Mounting Position	Ground, Wall, Ceiling
Mounting Flange	ISO 9409-1
Weight	~20 kg (without mounting station and controller)
Expected Nominal Lifetime ¹	25,000 hours
Ambient Temperature	0 to 40 deg. C (typical) -10 to 50 deg. C (extended) -20 to 60 deg. C (storage)
Air Humidity	20 – 80% non-condensing

Soft-Robot Specifications	
Pose repeatability	<+/-0.1 mm (ISO 9283)
Fieldbus	TCP/IP 100 Mbit; EtherCAT
Torque Sensing	Dual Encoder Twist Sensing
Joint velocity limits (deg./s)	120 for all joints
Programming	Beckhoff TwinCAT 3, IEC-61131
Supply Voltage	240 V _{ac}
Main frequency	~50Hz
Power Consumption	Maximum = ~800 W Nominal = ~300 W



¹. Lifetime and performance can potentially be reduced when operating outside the typical temperature range.