Tready Jr / Maggie

Confined Space Crawler Platform

A robust and versatile mobile robot capable with optional magnetic capability enabling it to traverse confined spaces, uneven terrain, magnetic surfaces, and more. Completely modular and customizable to fit specific customer applications.

Integrated with 4-DoF Arm and UT Thickness Probe

	Tready Jr.	Maggie *(Magnetic)*
Dimension	400mm L x 300mm W x 225mm H [16" L x 12" W x 9" H]	
Weight Robot: Tether:	13 kg [28 lbs] 0.15 kg/m [0.10 lb/ft]	16 kg [35 lbs] 0.15 kg/m [0.10 lb/ft]
Linear Speed	0.2 m/sec [0.66 ft/sec]	
Payload Horizontal Surface: Vertical Surface:	40 kg [90 lbs] —	36 kg [80 lbs] 13 kg [30 lbs]
Environment	-10°C to 50°C Ambient / IP67	
Power On-board batteries: Tether:	Onboard batteries provide energy buffer for long tether deployments 2x 36V , 99Wh (Safe for Air Travel), 15A Max 48V @ 4.1A (200W)	
Communications	Tether: 100 Mbps Ethernet, tested up to 50 m [150 ft]	
R-Series Actuators	2x R8-9 Actuator (Track Drive)	
Features	Front and Rear Facing Wide Field 1080p HD Cameras Front and Rear High Brightness LED Flood Lights	
Sensing	3-axis Accelerometers/Gyros (IMUs), Temperature, Voltage, Current, & Torque Optional: Ultrasonic Pulser Board and Raspberry Pi for Integrated NDT	
Mechanical	Interface on Chassis for mounting additional HEBI components Kellems grip for tether pulling	
Software	Joystick Control with video feeds on **HEBI Mobile I/O App**	
Additional technical documentation at docs.hebi.us Updated on November 2, 2022. Specifications subject to change without notice		

Robot Control Box

Included with all HEBI Robotics Tethered Solutions

A robust box allowing tethered control of robotic systems for environments where wireless solutions are not viable.

	RBX Control Box
Dimension	275mm L x 260mm W x 90mm H [11" L x 10" W x 3.5" H]
Weight	4.5 kg [10 lbs]
Environment	-10°C to 50°C Ambient / IP67
Power	2x 36V , 99Wh (Safe for Air Travel), 15A Max
Control Options	Integrated Raspberry Pi OR Connect External CPU to Internal Router/Switch thru Bulkheads
Bulkheads	2x 100 Mbps Ethernet Bulkhead Ports to Internal Switch 1x USB-A Bulkhead to Internal Raspberry Pi 1x USB-C Tablet Bulkhead for Tablet Charging and Ethernet 1x Battery Charger Port 1x Encoder I/O Port
Tether Port	100 Mbps Ethernet, tested up to 50 m [150 ft] 48V @ 4.1A (200W)
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