











@dfautomation



Pre-installed NavWiz Operating System NavWiz







300kg Payload



Ergonomic Design



Cobot Integration



Comply Clean Room Design



Wireless Charging







SPECIFICATION

BASIC INFORMATION	
Length	1100 mm
Width	600 mm
Height	277 mm
Load Surface	Width: 789 mm Height: 556 mm
Clearance from Ground	20 mm

PAYLOAD	
Carry Payload	300 kg

PERFORMANCE			
Maximum Speed	0.76 m/s (2.74 km/h)		
Stopping Accuracy	Natural Feature	Marker	Docking
	±100mm, ±2°	±10mm, ±1°	±10mm, ±1°
Traversable Gap	166 mm • Straight path		
Traversable Step		-	5° Path 5 mm
Maximum Gradeability	7% / 4°		
Maximum Acceleration	0.35 m/s ²		
Traction Force	3150 N		
Turning Torque	74 Nm		

DRIVING & NAVIGATION	
Driving System	Mecanum Drive
Suspension	Passive
Navigation System	Laser-based natural feature navigation with marker for precision
Turning Radius	0 mm
Motor Type	DC brushless motor with closed loop speed control
Brake	Navigation: Electric brake
	Parking & Emergency Stop: Electromechanical brake

POWER	
Running Time	8 h (10 km) • 90% to 10%
Charging Time	2 hours • 10% to 90%
Charging Ratio	1:4
Charging Method	Wireless Auto Charging
Battery	51.2 V / 50 AH LiFePO4
Battery Weight	24 kg

SAFETY	
Emergency Switch	2 Unit
Protective Devices	1 Unit 3D Camera 2 Units Safety Laser Scanner 1 Unit Speed Monitor
External Safety I/Os	1 Inputs, 1 Output
Indicator	Speakers 360° RGB LED Lighting

INTERFACE	
Operating System	NavWiz
User Interface	Physical Buttons 5", 800×400 pixels, Capacitive Touchscreen
Additional I/Os	Digital I/O: 4 inputs, 4 ouputs Modbus TCP supported LAN: 1 input

CONTROL SYSTEM	
Central Control System	Intel Core i7-1185G7E 1.8GHz 4C/8T Processor 8GB DDR4-3200 SODIMM Embedded RAM 128GB 2.5" SATA Embedded SSD
Communications	802.11 a/b/g/n, 2.4GHz / 5GHz WiFi Open WiFi WPA & WPA2 Personal WPA & WPA2 Enterprise

ENVIRONMENT	
Ambient Temperature Range	5 ~ 44 °C
Humidity	10 ~ 95% • @ 40 °C (non-condensing)
Operating Environment	Indoor usage with no excessive dust or corrosive gases
Floor Requirement	Level surface or concrete No water, no oil, no dirt
IP Class	IP20
Floor Flatness	FF25

PRODUCT DRAWING



