

# Sirius Series

	SIRIUS 100	SIRIUS 500	SIRIUS 1500
<b>Dimensions</b>			
Length	900 mm	1200 mm	1750 mm
Width	600 mm	800 mm	1150 mm
Height	350 mm	350 mm	350mm
Height with Lifter	As per application	As per application	As per application
Ground clearance	30 mm	30 mm	30 mm
Weight (without load)	100 kg	250 kg	410 kg
Weight with Lifter	150 kg	330 kg	510 kg
Load surface	600 x 800 mm	600 x 830 mm	1270 mm x 770 mm
Wheel diameter	Drive wheel: 200 mm Castor wheel: 100 mm	Drive wheel: 200 mm Castor wheel: 100 mm	Drive wheel: 200 mm. Castor wheel: 150 mm
<b>Colour</b>			
	NIDO Orange RAL 2012	Black RAL 8022	
<b>Payload</b>			
Robot payload	100 KG	500 KG	1500 KG
Towing capacity	250 kg	750 kg	2000 Kg
<b>Speed and performance</b>			
Battery Running time	8 Hours	8 Hours	8 hours
Maximum speed	forwards: 1.5 m/s (5.4 km/h) backwards: 1.5 m/s (5.4 km/h)	forwards: 1.5 m/s (5.4 km/h) backwards: 1.5 m/s (5.4 km/h)	forwards: 1.5 m/s (5.4 km/h) backwards: 1.5 m/s (5.4 km/h)
Acceleration (full payload, flat surface)	0.2 m/s <sup>2</sup>	0.2 m/s <sup>2</sup>	0.2 m/s <sup>2</sup>
De-Acceleration (full payload, flat surface)	0.2 m/s <sup>2</sup>	0.2 m/s <sup>2</sup>	0.2 m/s <sup>2</sup>
Maximum incline (with payload)	5% Incline	5% Incline	5% Incline
Turning circle Dia ( On the spot Turn )	1020 mm (around center of robot)	1400 mm (around center of robot)	2050 mm (around center of robot)
Minimum width, door	1150 mm	1450 mm	1850 mm
Minimum width, passage	1150 mm	1450 mm	1850 mm
Minimum width, two robots passing	2300 mm	2800 mm	3800 mm
Precision, docking to VL marker	+/-20 mm	+/-30 mm	+/-30 mm



Positioning accuracy	+/-50 mm of position, +/- 20 mm to docking marker	+/-50 mm of position, +/- 30 mm to docking marker	+/-50 mm of position, +/- 30 mm to docking marker
Traversable gap and sill tolerance	30mm	30mm	30mm
<b>Power</b>			
Battery	Li-ion 24 V , 55 Ah	LiFPo 24 V, 80 Ah	Li-ion, 48 V, 80 Ah
Charging Time	up to 3.5 hours (10-80%: 2.5 hours)	up to 4 hours (10-80%: 3 hours)	upto 5 hours, (10-80%: 4 hours)
External charger	Input: 200-240 V ac, 50- 60 Hz / Output: 24 V, max 18 A	Input: 200-240 V ac, 50- 60 Hz / Output: 24 V	Input: 100-230 V ac, 50- 60 Hz / Output: 48 V
Battery Charging Cycle	Minimum 1500 cycles	Minimum 1500 cycles	Minimum 1500 cycles
<b>Environment</b>			
Ambient temperature range	+5°C to 50°C (humidity 10-95% non-condensing)	+5°C to 50°C (humidity 10-95% non-condensing)	+5°C to 50°C (humidity 10-95% non-condensing)
IP class	IP 21	IP 21	IP 21
<b>Communication</b>			
WiFi	Dual-band wireless AC/G/N/B	Dual-band wireless AC/G/N/B	Dual-band wireless AC/G/N/B
I/Os	Ethernet and USB	Ethernet and USB	Ethernet and USB
<b>Safety</b>			
Safety System	2D Laser Scanner, Ultrasonic Sensor, Optional Contact Type Safety sensor, 2 Emergency Stop Buttons	2D safety Laser Scanners, Contact Type Safety Bumper, Safety PLC, 2 Emergency Stop Buttons	2D Safety Laser Scanners, Contact Type Safety Bumper, Safety PLC ,4 Emergency Stop Buttons
<b>Navigation</b>			
Navigation Sensor	2D LiDAR (Natural Navigation)	2D LiDAR (Natural Navigation)	2D LiDAR (Natural Navigation)

