

CASTEC i-Operator



CASTEC i-Operator, an autonomous vehicle integrated with the collaborative 6-axis robot, and start with the application for semiconductor worldwide.

More applications are developed for other different industries like solar energy, F&B, logistics, etc. And used for transporting, auto-loading and unloading, WIP delivery, etc.

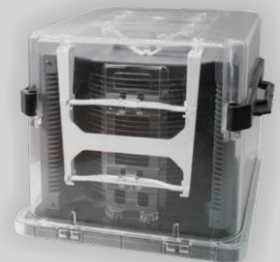
The features of CASTEC i-Operator will help to realize a human-free operation environment.

CASTEC i-Operator Features and Benefits:

- Easy to deploy, no facilities modification required
- Navigates through the use of a digital map
- Manages power and self charging operations
- Customized fork and carry stage for FOUN/SMIF/Cassette/Tray transportation
- Rapid installation
- No workspace retrofit required
- Operates safely alongside people

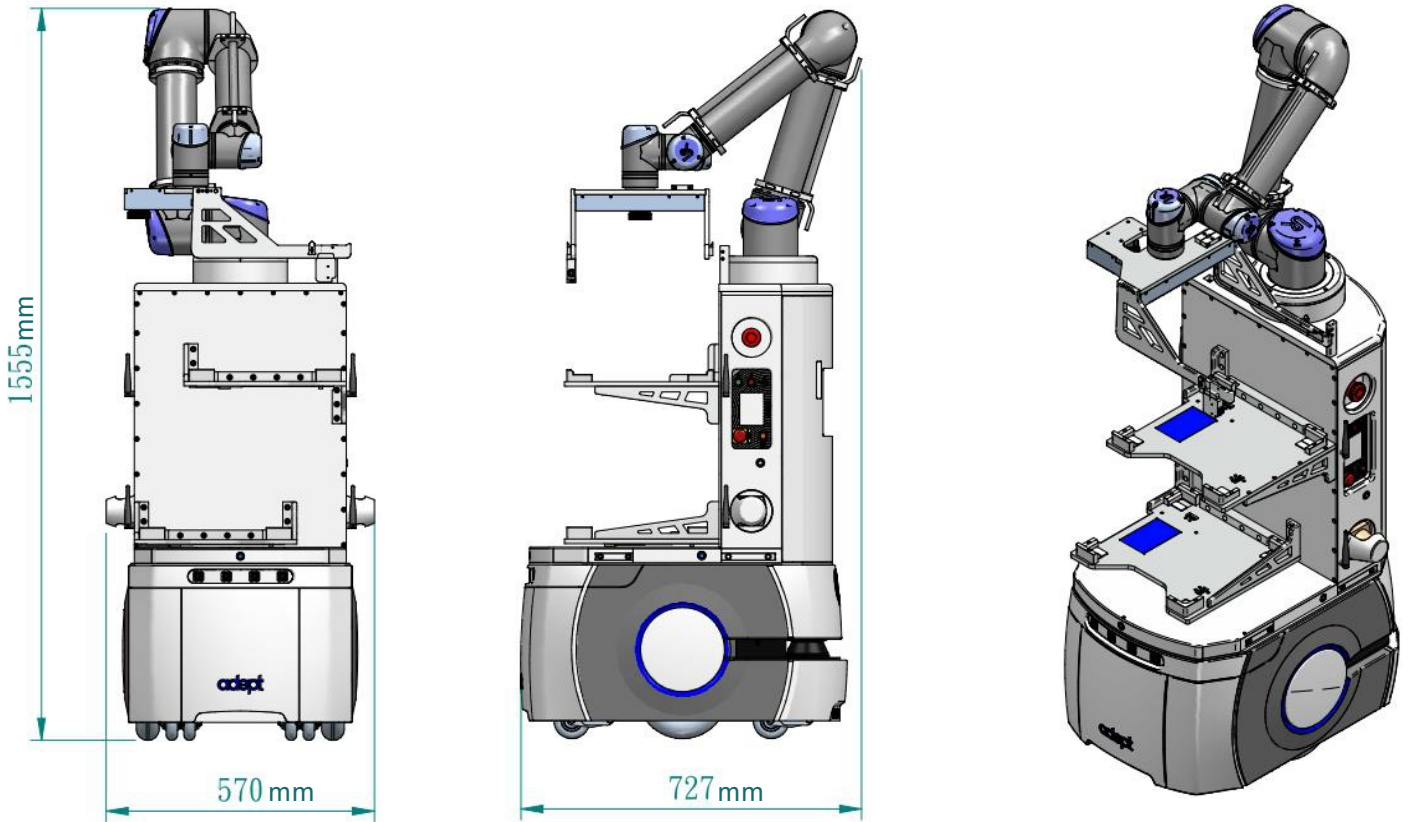
Specifications

Model	iO-5
Weight	110±20 kg (242±44lbs)
Cart Payload(Max)	30 kg (66lbs)
Robot Payload(Max)	5kg
Robot Reach	850mm
Power	
Battery	22-29 VDC LiFePO4
Capacity	60 Ah
Run Time	6~7 hours(continuous)
Recharge Time	3.5 hours
Battery Life	7 years
	16 hr/day, 5 day/wk
Charging Station	Automatic (optional)
Mobility Overview	
Maximum Speed	1000 mm/sec
Path Planning	Map Oriented Automatic Dodge
CE Compliant SEMI S2 Certified	
Application	
	FOUP
	SMIF Pod
	Reticle Pod
	Magazine
	Stacking Tray
	Box(Steel, wooden)
	Cassette



CASTEC i-OPERATOR

Dimensions: iO-5



CASTEC i-Operator system includes the following:

- Mobile robot platform
- Graphical user interface
- 22-29 VDC battery pack
- Goods detection mechanism
- Illuminated wheels indicating vehicle intent and status
- Programmable voice and audio prompts
- Task management software

Options and Peripherals:

- MobilePlanner and MobileEyes Software Package
- Enterprise Manager
- i-Operator Manager System
- E84 Sensor
- Vertical Sensor
- RFID Reader

