

Intelligent Collaborative Guided Vehicle Module

MIRDC

Imitate the logic of ant carrying, treat each wheel as an independently movable ant, by integrating the power wheel module, platform and intelligent simulation command system to realize the future intelligent handling and collaborative manufacturing mode

Introduction

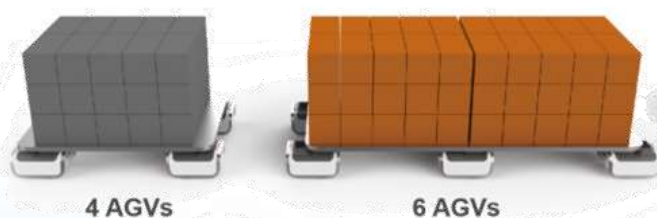
- Features wireless, flexible applications and agile movements. The intelligent wireless collaborative carrying system simultaneously controls multiple automated guided vehicle (AGVs). Several vehicles are controlled remotely to joint together and perform handling tasks.
- It adopts a 360-degree omnidirectional wheel design architecture. compared with the conventional handling, where the conventional unmanned vehicle cannot be operated within limited spaces, it performance more flexibly.
- For large and irregular objects, just increase the number of AGV to complete the task, all-round mobile platform can be easily overcome



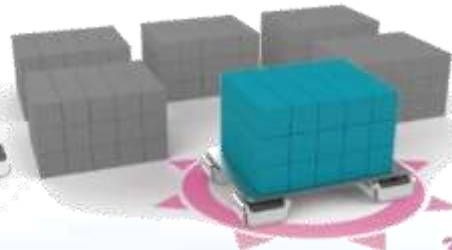
Adjust the modules according to the weight



Modular product design



Adjust the modules and the platforms based on the volume



All-round operation Mobile accessibility

Honors / Patents

- 2017 Taipei International Invention Show and Technomart Gold Medal
- 2018 iF Product Design Award (Germany)
- 2019 R&D100 Awards (US)
- 2020 Edison Awards in the (US)
- Unmanned carrying system and the operations (patent number I615696) and powered wheel and the collaborative handling methods (patent number I659285), 6 patents of Taiwan and the US.

Industrial Applications / Case Studies

Ideal for warehousing, production, manufacturing and other related industries applications, as well as Industry 4.0 and other automation technologies.



Collaborative handling



Lifting operation



Operate across different floors via elevators



Integrate with robot arms