



Intelligent Handling System

Material handling plays an important role in both manufacturing and logistics. iAmech can integrate and provide intelligent handling system to improve handling processes in a continuous and non-stop motion from one place to another.

Features of System

+ Improve efficiency with continuous material flow

Intelligent handling system is able to shorten the transportation time for raw materials or finished goods to bring our clients a more efficient process.

+ Lower your labor cost

With our automated handling equipment, material handling process can operate with fewer workers. Moreover, it can provide employees with a safer workplace to reduce the risk of accidents.

Continuous Vertical Conveyor



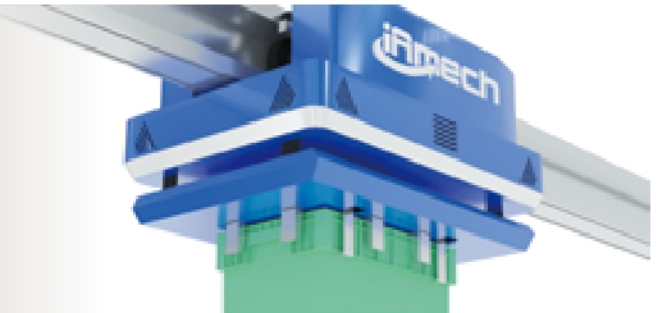
Reciprocating Vertical Conveyor



Automated Guided Vehicle



Overhead Hoist Transfer



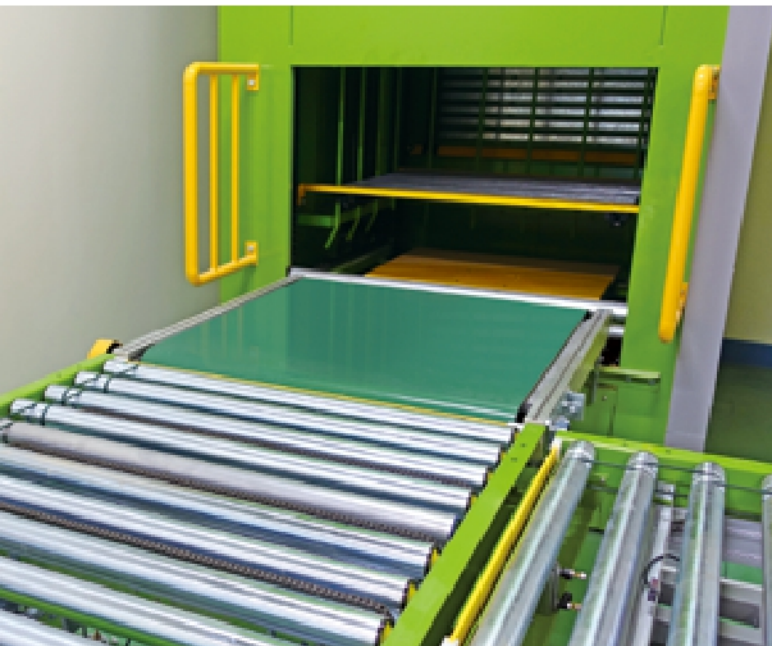
Pallet Conveyor System



Simple design but high efficiency

Continuous Vertical Conveyor

The vertical continuous conveyor is designed to provide constant vertical lifting operations for small and medium-sized logistics baskets, logistics boxes, and other storage devices. It is suitable for dispatching goods between different floors. C or Z type can be selected according to the operation route of the factory area which is conducive to adapt to the factory space planning.



Lift your heavy loads

Reciprocating Vertical Conveyor

Reciprocating Vertical Conveyor moves heavy loads like pallets or cage trolleys from one level onto another one via a horizontal platform. It can be combined with other new or existing conveyor system as well to significantly improve your handling process and provide a more efficient and safe vertical movement for heavy loads.

Continuous Vertical Conveyor	
Weight of goods	100 kg
Goods dimension	L800 x W800 x H600 mm
Speed	20 m/min
Capacity	600 pcs/hr

※Cargo handling only, no passenger allowed



▲ C type

▲ Z type

	Pallet Type Reciprocating Vertical Conveyor	Cross-Floor Reciprocating Vertical Conveyor	Cross-Floor Continuous Reciprocating Vertical Conveyor
Weight of goods	1000 kg	1000 kg	1000 kg
Goods dimension	L1200 x W1200 x H1800 mm	L1200 x W1200 x H1800 mm	L1200 x W1200 x H1800 mm
Speed	60 m/min	60 m/min	60 m/min

※Cargo handling only, no passenger allowed

Easy Peasy, Flexibility

Automated Guided Vehicle

Automated Guided Vehicle, AGV, plays a significant role in modern industrial automation fields. The battery-powered, navigation system guides the path of travel and is equipped with a safety mechanism system for obstacle avoidance to achieve a reliable unmanned material handling operation. It is compact, and easy for flexible site deployment; rapid speed, strong mobility for independent operation. It can also be planned to run multiple AGVs at a time to achieve efficient and economic operation mode.



Conveyor AGV	
Guiding method	QR code navigation, optical navigation, navigation by laser simultaneous localization and mapping (SLAM)
Transfer equipment	Belt Conveyor, chain conveyor, roller conveyor, robotic arm
Loading	300 kg (including transfer equipment)
Speed	1.5 m/s
Parking accuracy	±10 mm
Vehicle dimension	L950 x W680 x H300 mm



Lifting AGV	
Guiding Method	QR code navigation, optical navigation, navigation by laser simultaneous localization and mapping (SLAM)
Loading	300 kg
Speed	1.5 m/s
Parking Accuracy	±10 mm
Lifting Height	Max. 60 mm
Vehicle Dimension	L950 x W680 x H320 mm



Extraction Table AGV	
Guiding method	QR code navigation
Loading	30 kg
Speed	1.5 m/s
Parking accuracy	±10 mm
Lifting height	2500 mm
Vehicle dimension	L1000 x W850 x H3000 mm

Forklift AGV	
Guiding method	QR code navigation
Loading	30 kg
Speed	1.5 m/s
Parking accuracy	±10 mm
Lifting height	2500 mm
Vehicle dimension	L1000 x W850 x H3000 mm



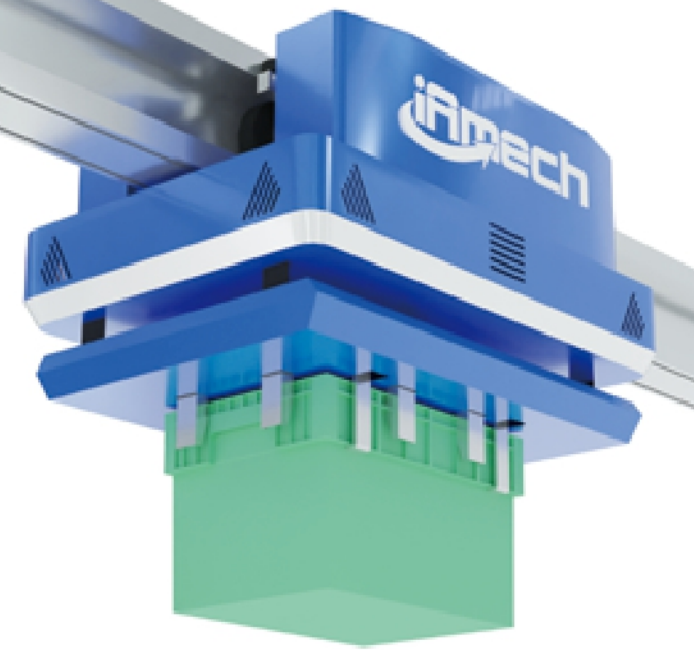
Moving at Height, Space Usage Highlight

Overhead Hoist Transport

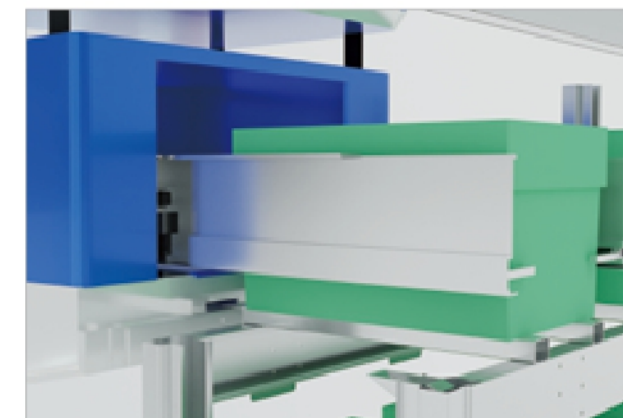
Overhead hoist transport (OHT) is automatic moving equipment that runs on a transport system, the rail layout is stable and flexible and can be adapted to various sizes of sites. The vehicle is precisely positioned through 2D barcode navigation. It is equipped with multiple forms of gripping arms to meet the diverse needs of goods.



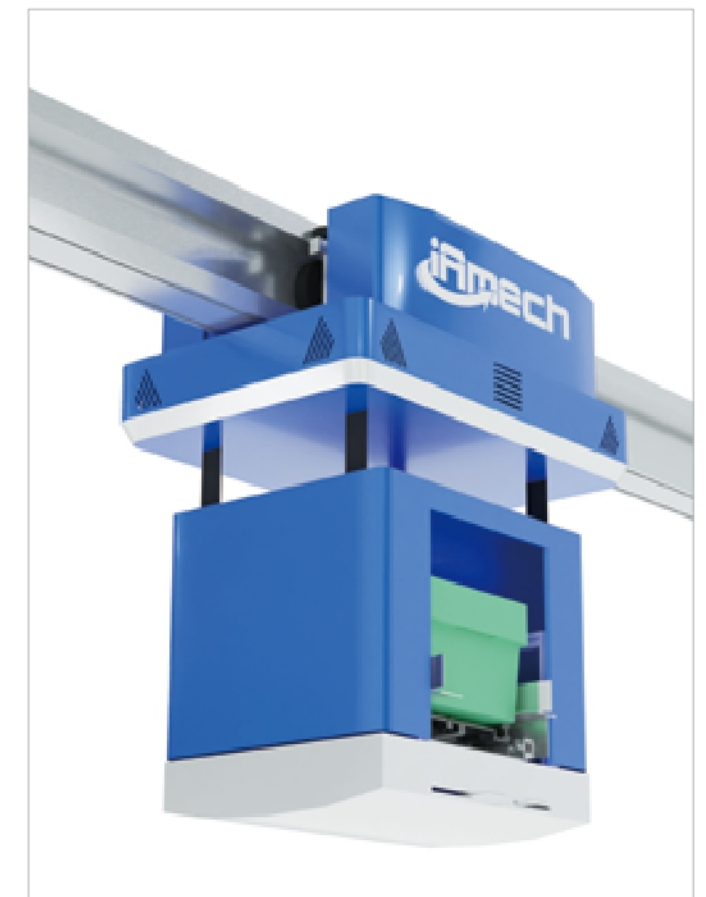
OHT- Hook Type	
Guiding Method	QR code navigation
Loading	50 kg
Speed	200 m/min
Vehicle Dimension	L1054 x W715 x H976 mm



OHT- Claw Type	
Guiding Method	QR code navigation
Loading	50 kg
Speed	200 m/min
Vehicle Dimension	L1054 x W715 x H635 mm



OHT- Cradle Type	
Guiding Method	QR code navigation
Loading	50 kg
Speed	200 m/min
Vehicle Dimension	L1054 x W715 x H1039 mm



Equipment for Heavy Load Goods Conveyance

Pallet Conveyor System

Conveyors are widely used in the field of automated logistics for loading, unloading, conveying and transporting goods, and their strong flexibility can be integrated with other automated equipment for a variety of uses and purposes. The system uses the power roller or motor to drive the conveying surface to move in a straight line, turn or climb, the conveyor has the specialties of simple structure, large conveying capacity, easy maintenance and so on, is a great helper in the logistics industry.



▲ Chain Conveyor



▲ Diverting Conveyor



▲ Transfer Conveyor



▲ Diverting Conveyor



▲ Pallet Lift



▲ Pallet Dispenser



▲ 90° degrees transfer equipment



▲ Pallet RGV



▲ Dual Pallet RGV

▶ Single Pallet RGV

