Material Handling

Robotics Solutions

From line-side supply to pallet movement and heavy transport.

CARRY / LIFT / TOW / TRANSFER / PALLETS / OUTDOOR

Representative platforms; not to scale. Selected for your load, route and handoff.

Keep materials moving.

One solution partner. From integration to support.

Connect your material flow.

Connect everyday logistics tasks with the right handling method for each movement.

01

Parts + line-side supply

Deliver component bins, kits and stock to workstations through carrying, lift or towing workflows.

Stores → Line side

02

Work-in-progress transfer

Move items and fixtures between processes; connect mobile loads to fixed equipment where required.

Process A → Process B

03

Picking + fulfilment

Support pickers with following or assisted handling, then move completed loads to packing.

Pick zones → Packing

04

Pallets + dispatch

Move pallets through staging and dispatch; select stacking or specialist forks for the handoff.

Staging → Dispatch

05

Returns + reusable carriers

Return empties, racks and reusable packaging so carriers are ready for the next cycle.

Line side → Stores

06

Inter-building logistics

Connect buildings and larger-load movements using dedicated campus and heavy-duty platforms.

Building A → Building B

One partner, from request to completed delivery.

Robots, load carriers, dispatch software and site interfaces are designed as one operating workflow.

Bring materials to the point of use.

Flexible AMRs for frequent deliveries, replenishment rounds and assisted picking.

Up to 300 kg

Maximum carrying payload

CONFIGURE THE LOAD SPACE

Shelves. Decks. Enclosed loads.

Match the carrier to your totes, parts, tools or protected items. Choose the load access and restraint needed for the job.

Open shelves for multi-stop supply. Flat decks for fixtures. Enclosed compartments for items that need covered transport.

Transport capabilities

Routes	Point-to-point delivery, multi-stop rounds and scheduled replenishment.
Dispatch	Local calls, app tasks or requests from connected systems.
Picking	Following and assisted-control options support operators through pick locations.

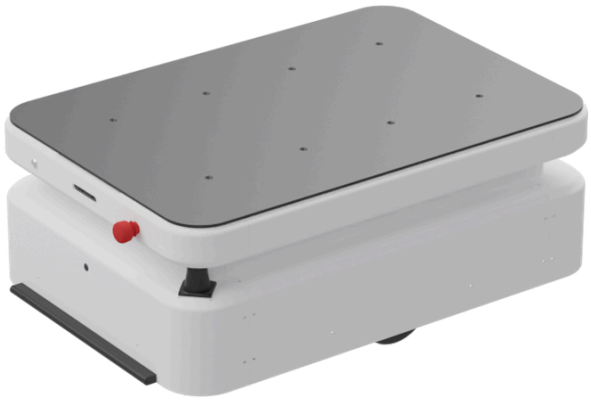
Configured for your load

Carrier	Shelf spacing, deck fixtures and cabinets matched to the materials.
Handling	Loading height, access, load stability and centre of gravity.
Continuity	Automatic return-to-charge options built into the operating plan.

Images represent robot types. Maximum capacities refer to selected configurations, not every model shown.

Move the carrier with the material.

Automate pickup and delivery of compatible racks, carts and load fixtures.



Lift transport

Up to 2,000 kg

Maximum lifting payload

Raise a matched load frame, carry it to the next station and lower it at the delivery point.

Under-cart transport

Up to 600 kg

Maximum lifting payload

Travel beneath a compatible carrier, lift it for transport and set it down at the next station.

01

Locate

Approach the pickup position

02

Lift

Engage the compatible carrier

03

Transport

Move along the agreed route

04

Set down

Release at the next station

The carrier is part of the solution.

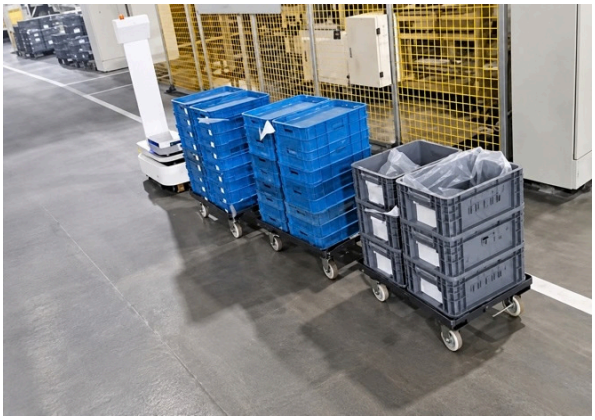
Maximum capacities refer to selected configurations; images are representative. Carrier clearance, lifting points, load balance and the route are checked together.

Put your carts into the workflow.

Connect stores, production and return points with planned towing routes.

Up to 2,000 kg

Maximum towing capacity



Example towing workflow

Source image enhanced for clarity.

Supply materials and return empty carriers along a planned route.

LINE-SIDE SUPPLY / EMPTIES RETURN / INTERNAL DISTRIBUTION

Towing capabilities

Transport	Scheduled loops or on-demand deliveries between defined stops.
Carriers	Compatible trolleys and custom load carriers matched to the route.
Coupling	Automatic locking or operator-assisted coupling, selected for the workflow.

Plan the complete train

Geometry	Loaded train length, swept path, turns and stopping clearance.
Load	Load stability, wheel condition and rolling resistance.
Handover	Coupling checks, loading responsibilities and delivery confirmation.

Range maximum; images are representative. The illustrated towing platform is for indoor use. Validate the cart train, turns and stopping clearance for each route.

Automate the next pallet movement.

Select the fork geometry, lifting function and navigation around your pallet workflow.

Floor-level transport

Up to 2,000 kg

Maximum payload

Move pallets between staging, production and dispatch.

Stacking + lift transfer

Up to 2,000 kg

Maximum payload

Handle vertical handoffs within the selected lift envelope.

Counterbalance handling

Up to 2,000 kg

Maximum payload

Match load access, lift height and carrier geometry.

Low-profile pallet transport

Up to 1,000 kg

Maximum payload

Move compatible pallets with a low-profile, under-pallet platform.

Pallet fit comes before platform selection.

Maximum capacities refer to selected configurations; images are representative. Pallet entry, load centre, lift height, aisle clearance and stability determine the allowable load.

Connect movement to the process.

A reliable delivery includes the load exchange, equipment signals and completion record.

CONFIGURABLE MOBILE PLATFORM

Transfer module selected for the task.

01 Station ready

Check availability and prepare the handoff.

02 Dock + exchange

Coordinate robot position and load transfer.

03 Release + confirm

Confirm completion before the next task.

01

Roller + conveyor transfer

Match transfer height, roller direction and load support to each pickup and delivery station.

02

Custom load modules

Configure racks, boxes, cabinets, fixtures and electronic interfaces on a suitable mobile platform.

A coordinated handoff

Readiness	Confirm the destination is available before releasing the load.
Sequence	Coordinate docking, transfer, completion and departure.
Exceptions	Define stop conditions, recovery steps and operator escalation.

Integration scope

Hardware	Carrier dimensions, mounting, power and communications.
Controls	Ready / busy signals, transfer interlocks and completion confirmation.
Systems	Connect task requests and completion events to the production workflow.

Connect the spaces between buildings.

Extend material flow beyond indoor aisles with platforms selected for the environment.

Campus logistics

Up to 2,100 kg

Maximum cargo payload

Enclosed cargo vehicles connect buildings on assessed private-site routes. Cargo bodies and loading interfaces are configured around the material flow.

Heavy-load transport

Up to 200 tonnes

Maximum transport payload

Dedicated heavy-load platforms move large fixtures and industrial materials. Drive geometry, load support and steering are engineered for the task.

Connected operations

Transfer	Coordinate indoor robots, forklifts and outdoor vehicles at agreed handoff points.
Access	Plan gates, loading areas, traffic crossings and operating boundaries.
Visibility	Monitor vehicle status and transport tasks through the selected fleet solution.

Site qualification

Surface	Validate gradients, drainage, ground condition and stopping space.
Weather	Select the environmental protection and weather limits required for the route.
Traffic	Assess people, vehicles, visibility and site-specific operating rules.

Images represent robot types. Maximum capacities refer to selected configurations, not every model shown.

One coordinated operating workflow.

Bring task requests, robot movement, building access and completion records together.

BUSINESS SYSTEMS	FLEET CONTROL	SITE OPERATIONS
WMS / MES / APIs	Tasks + traffic	Robots + access

Navigation + movement

Localisation	LiDAR, vision and inertial sensing matched to the platform and site.
Routes	Free-navigation, defined-route and mixed modes; following on selected platforms.
Protection	Obstacle sensing, emergency stops and warnings configured and validated for the job.

Fleet + task control

Dispatch	Task queues, scheduling and coordination of different handling types in the selected fleet.
Visibility	Robot status, alarms, logs and operational reports.
Operator	Manual / assisted control options, exception handling and remote support.

Systems + site interfaces

Business	API / SDK integration with warehouse and production systems.
Access	Lifts, automatic doors, gates and transfer-station interfaces.
Requests	Call buttons, local controls and app-based task requests.

Connectivity + deployment

Network	Wi-Fi and cellular options selected for site coverage.
Hosting	Cloud, on-site server or offline options; functions depend on deployment.
IT scope	Agree permissions, network design, data handling and update policy.

From pilot to everyday operation.

Warpify brings selection, integration, deployment, training and support into one project.

01

Assess

Map loads, routes, handoffs and current transport effort.

02

Design

Select robots, load systems, interfaces and operating rules.

03

Validate

Trial representative journeys, exceptions and recovery.

04

Scale

Train teams, agree support and expand proven routes.

AGREE SUCCESS BEFORE THE PILOT

Operational acceptance

Delivery	Task completion, on-time delivery and cycle time under representative demand.
Resources	Operator touchpoints, interventions, charging and recovery effort.
Site fit	Loaded route tests, handoff reliability and agreed safety checks.

Prepare your site brief

Materials	Load examples, carrier types, dimensions, mass and centre of gravity.
Workflow	Origins, destinations, volumes, peaks and handoff responsibilities.
Environment	Layout, floor conditions, traffic, access controls and IT requirements.

Direct purchase

Own the solution, with commissioning and training. Warranty, maintenance and support are defined in your proposal.

Robotics as a Service

Access equipment and agreed software, maintenance and operating support through RaaS. Scope and service terms match your project.

Example configurations are shown. Payload, lift height, speed, environmental limits, interfaces and service scope are confirmed during solution design.

Plan your material flow.

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