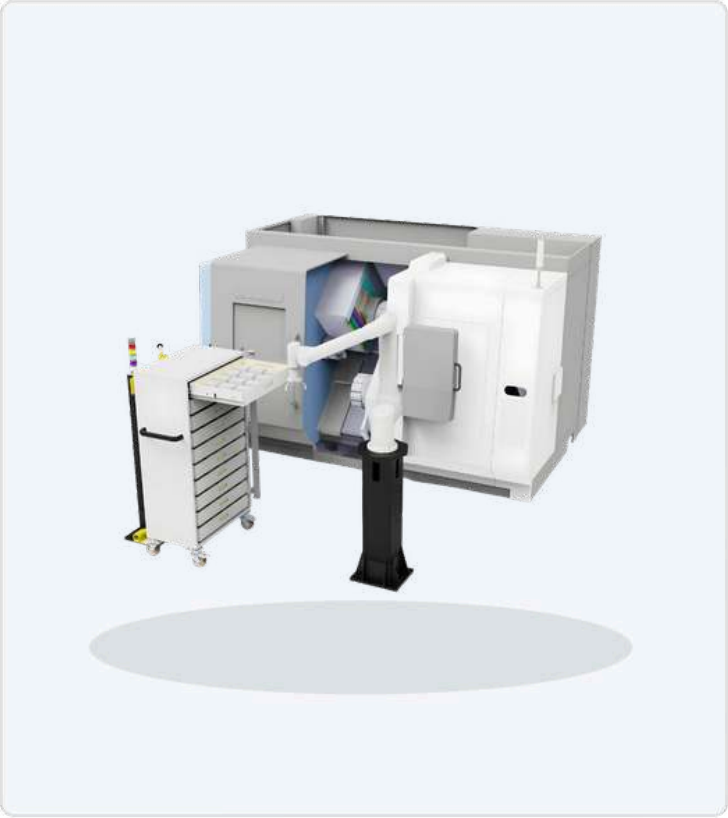
MOBILE MATERIAL FLOW

Easy LoadMate Ten

High-capacity lean automation for modern CNC production

Move the material. Keep the robot station fixed.

A robust ten-drawer cart that moves between workstations and docks at a separate robot pedestal. Prepare the next batch offline, standardize material flow and keep machine time focused on production.



10
DRAWERS

50 kg
PER DRAWER

Compatible with 99% of modern cobots

Many industrial robots after validation

ROBOT ADAPTER PLATE

Select and order the robot-specific adapter plate in the EasyRobotics configurator.

600 x 400 mm
DRAWER WORK AREA

ER-LM9001
EASY LOADMATE TEN

10 drawers | 50 kg each | 4 wheels | spring-lock docking | tower-light confirmation

Built for production flow

A high-mass mobile platform with controlled drawer and docking interfaces - engineered for repeatable handling in daily industrial use.

ER-LM9001

PASSIVE CART ARCHITECTURE

No compressed air or control interface is required on the mobile cart itself.

1 **190 kg**

Substantialplatform mass

A robust mobile construction for repeated movement and industrial service.

2 **<= 2 mm**

Published max. deflection

Structural performance at the full rated load of each drawer.

3 **PIN**

Positivedrawer locking

Pin-locked drawers with a published pulling force of 20 N.

4 **4**

Wheels for mobility

Move material and work-in-process between stations without a forklift.

5 **SPRING**

Defined docking

A spring-lock interface connects the cart to the fixed robot station.

6 **LIGHT**

Visible confirmation

A tower light provides clear docking-status feedback to operators.

MOBILE CART → SPRING LOCK → FIXED PEDESTAL → ROBOT → CNC MACHINE

No compressed air or control interface is required on the mobile cart itself.

Lean movement, not fixed inventory

Separate preparation from machine time. Replenish the cart offline and roll it to the workstation only when the next batch is ready.

01

Prepare offline

Load, inspect and stage the next batch away from the CNC machine.

02

Move to point of use

Wheel the cart between workstations as demand changes.

03

Dock and confirm

Engage the spring lock and verify the tower-light status.

04

Run and exchange

Process one cart while a second cart is being prepared.

05

Replenish

Return the completed cart to the preparation area.

LEAN EFFECTS

- Less waiting at the CNC
- Reduced unnecessary movement
- Lower operator interruption
- Clear visual status
- Standardized cart interface
- Scalable multi-station flow

SEPARATE DOCKING STATION

The robot remains on a fixed 1200 mm pedestal. The mobile cart docks to the pedestal interface, allowing one material carrier to serve several stations. Additional docking stations can be quoted for multi-machine layouts.

Technical specification

Published data for ER-LM9001. Confirm the final approved drawing and order confirmation before installation.

ER-LM9001
PUBLISHED ORDER NUMBER

10 x 50 kg
DRAWER CAPACITY

190 kg
PRODUCT WEIGHT

Dimensions (L x W x H)	433 x 838 x 1372 mm
Number of drawers	10
Rated load per drawer	50 kg
Maximum workpiece height	100 mm
Drawer work area	600 x 400 mm
Example capacity	28 parts at 80 x 80 mm
Drawer locking	Pin locking
Pulling force per drawer	20 N
Mover docking	Spring lock
Docking confirmation	Tower light
External robot pedestal	1200 mm
Cart utilities	No air supply / no control interface
Mobility	4 wheels

Published source documents may contain minor dimensional variations. The approved project drawing and order confirmation govern.

Robot compatibility starts with the interface

The cart is mobile; the robot is installed on a separate pedestal. The correct robot-specific adapter plate connects the selected robot to that pedestal.

99%

OF MODERN COBOTS

ROBOT → ROBOT-SPECIFIC ADAPTER PLATE → EXTERNAL PEDESTAL → DOCKED CART

Many compact industrial robots can also be integrated after engineering validation.

VALIDATE BEFORE RELEASE

- Robot mass and base moment
- Reach to all tray positions and the machine
- Payload, acceleration and cycle dynamics
- Mounting pattern and cable routing
- Required guarding and safety functions

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REMEMBER THE ADAPTER PLATE

Select the exact robot model in the EasyRobotics online configurator before ordering. The adapter plate is a separate order item unless it is explicitly included in the quotation. When no standard plate fits, a custom interface can be engineered.

OPEN CONFIGURATOR / PARTNER PORTAL

Configure the system around the process

Start with the published ER-LM9001 platform and add carts, docks, materials and interfaces to match the production concept.

STANDARD CONFIGURATION

- Ten-drawer mobile cart
- 50 kg rated load per drawer
- Ten-drawer mobile cart
- Four wheels
- Spring-lock docking interface
- Tower-light docking confirmation
- 1200 mm external robot pedestal

OPTIONS AND ENGINEERED ADDITIONS

- Additional LoadMate cart
- Additional docking station
- Full stainless steel version
- Robot-specific adapter plate
- Custom trays and fixtures
- Industrial robot interface
- Project-specific safeguarding and controls

ORDERING ROUTE

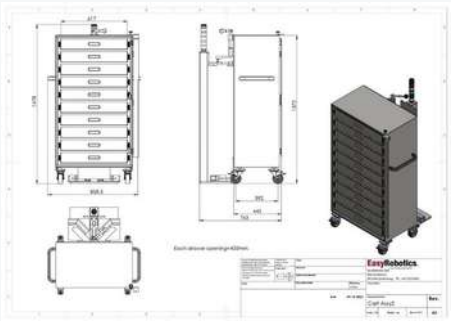
ITEM	PROCESS VALUE	ORDERING ROUTE
Additional cart	Swap-and-go preparation	Quotation
Additional dock	One cart, multiple stations	Quotation
Stainless steel	Hygiene / corrosion resistance	Quotation
Adapter plate	Robot-specific interface	Configurator
Custom fixtures	Part-specific presentation	Engineering quotation

ER-LM9001 Published standard platform. Options without a published fixed number are assigned in the quotation or configurator.

Dock, verify, produce

A repeatable setup depends on the fixed station, the robot interface and the docking sequence being installed and validated as one complete cell.

1	**Position the station**	Install the fixed pedestal and docking interface on a suitable foundation according to the project drawing.
2	**Mount the robot**	Use the correct adapter plate and follow the robot manufacturer's fastener and torque instructions.
3	**Move and dock**	Approach slowly, engage the spring lock and secure the cart in the defined position.
4	**Confirm status**	Verify the tower light and any project-specific interlocks before automatic operation.
5	**Validate the process**	Check reach, payload, clearances, stops and safe restart behaviour.
6	**Approve the full cell**	Complete the risk assessment, safeguarding and conformity work for the integrated installation.



ILLUSTRATIVE LAYOUT - FINAL DRAWING GOVERNS

SYSTEM BOUNDARY

The mobile cart itself requires no compressed air or control interface. The complete robot cell may require machine I/O, safety circuits, guarding and other project-specific integration.

ROUTINE CHECKS

Wheels and brakes | drawer locks | docking surfaces | tower light | fixtures and fasteners | damage or contamination

Integrator responsibility: validate the final machine-tending cell, including robot, gripper, CNC machine, fixtures, safeguarding and local legal requirements.

Ordering overview

Published order reference plus the required robot interface and project options.

ORDER REFERENCE	ITEM	CONFIGURATION / SCOPE
ER-LM9001	Easy LoadMate Ten	L: 443, W: 838.5, H: 1372 |10 drawers, 190 kg, 4 wheels, spring-lock docking and tower-light confirmation
Configurator item	Robot-specific adapter plate	Select the exact robot brand and model in the online configurator
Quotation item	Additional LoadMate cart	Second cart for offline preparation and rapid exchange
Quotation item	Additional docking station	Additional fixed workstation for multi-machine flow
Quotation item	Full stainless steel version	Hygienic or corrosion-resistant configuration
Engineering / quotation	Custom trays, fixtures and industrial robot integration	Project-specific design and validation

DO NOT FORGET THE ROBOT ADAPTER PLATE

Order the robot-specific adapter plate separately through the EasyRobotics configurator unless it is explicitly included in the quotation.

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