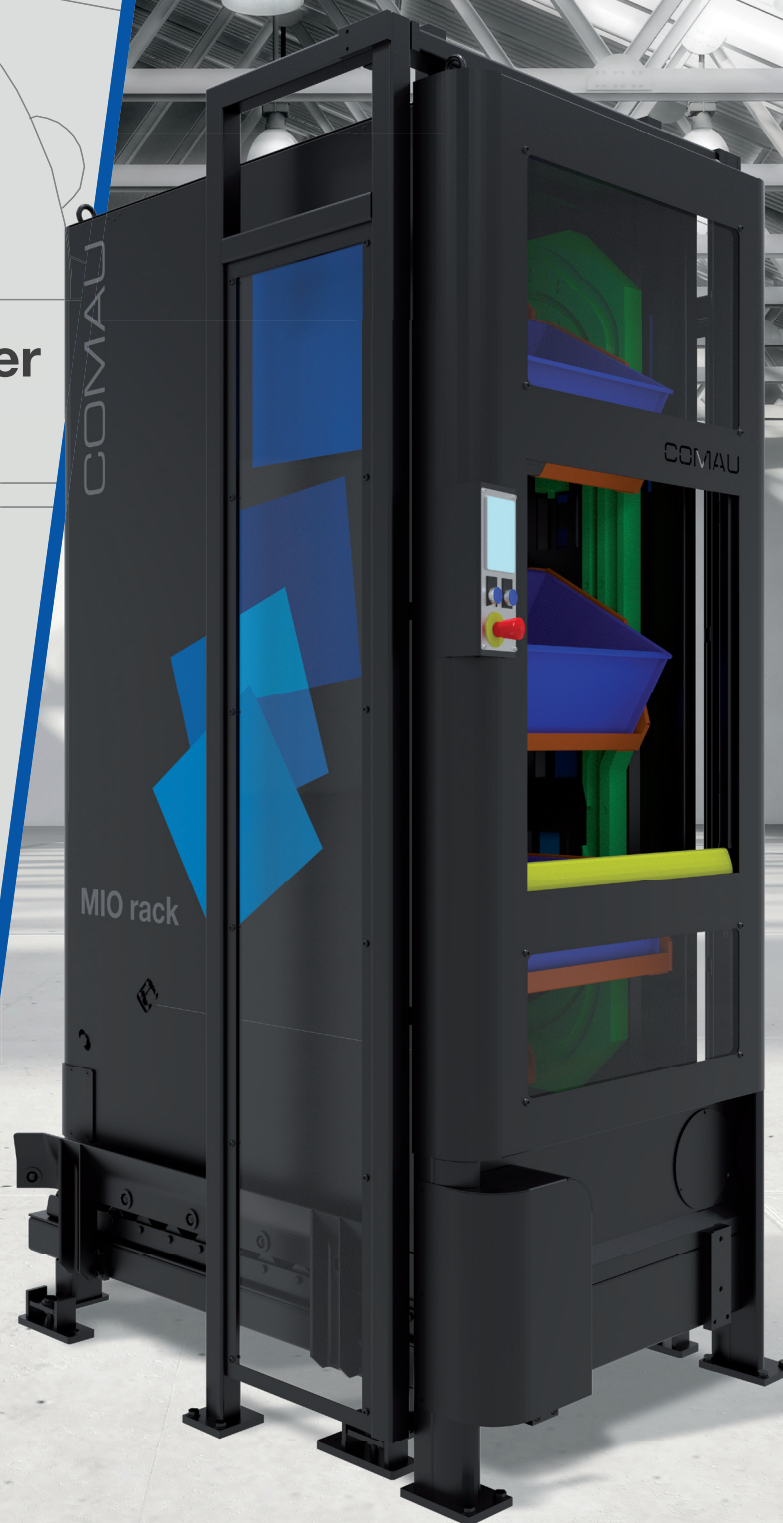


M.I.O.

Modular Intralogistics Organizer



COMAU



The right system that fits your logistics

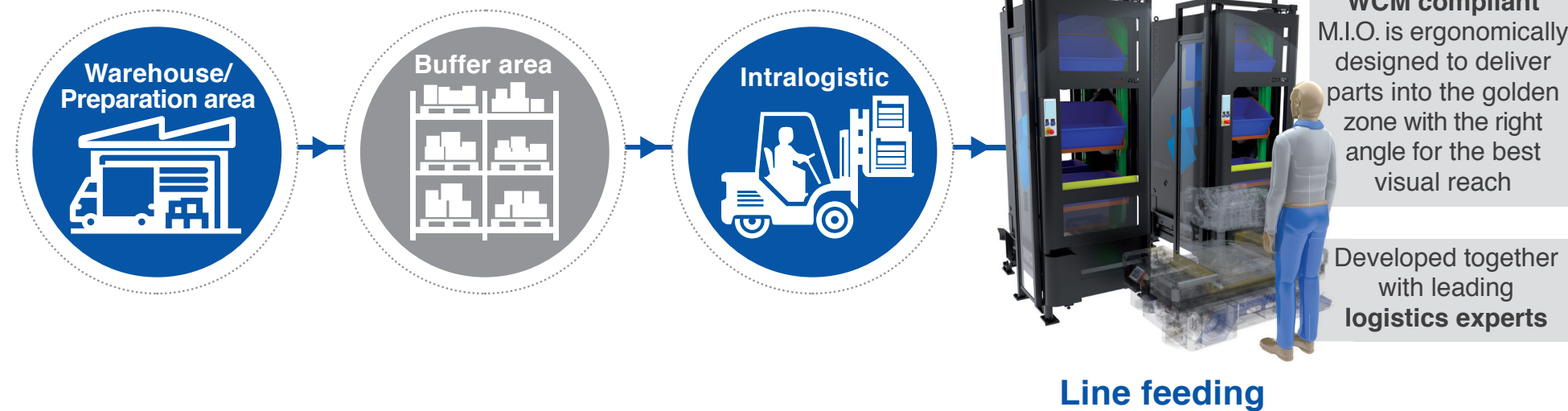
Comau, world leader in the design of advanced automation solutions, brings its innovative vision, propensity towards easy to use technologies, and ability to create reliable solutions to the development of this new product.

The goal is to improve manufacturing workplace scenarios using collaborative technologies, capable of enhancing the social and environmental sustainability of the factory of the future, through **human-machine collaboration** or **flexible and efficient production and logistics**.

To satisfy the industry's current and evolving needs, Comau has developed an intelligent module able to manage and optimize the flow of materials in a lean and WCM compliant way, from kitting management to direct line feeds.

M.I.O. is Comau's solution for responsive, scalable, efficient and increasingly ergonomic logistics needs.

Logistic flow



Why M.I.O.?

In a logistics environment experiencing a fast evolution aimed at complete integration of production processes, Comau's M.I.O. system is a tailored solution able to face high variable demand and sequenced part numbers.

Thanks to its features, M.I.O. is able to present the right container to the worker at the right time while following the instructions given by a central system manager or directly by the line operator.

The system is ready to work either in a stand-alone configuration or fully integrated in a manual assembly station, reaching the ideal optimization for each customer's application need.

APPLICATIONS

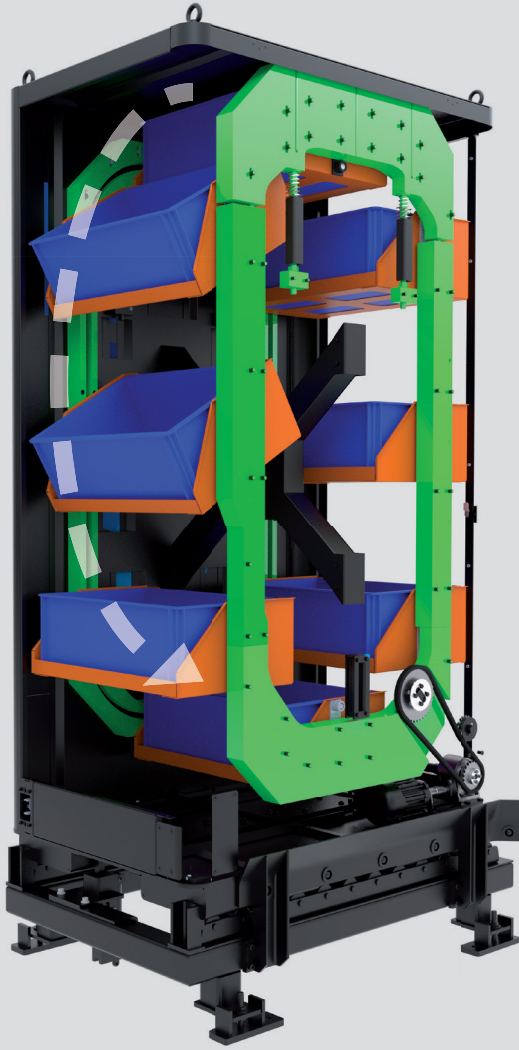
- Manual assembly lines
- From low to medium production volumes
- Highly customized products assembly
- Prototyping lines
- Back-up and repairing stations
- Intermediate buffer

INDUSTRIAL SECTORS

- Automotive and truck
- E- Mobility
- Logistics and warehousing
- General industry
- Aerospace
- White goods

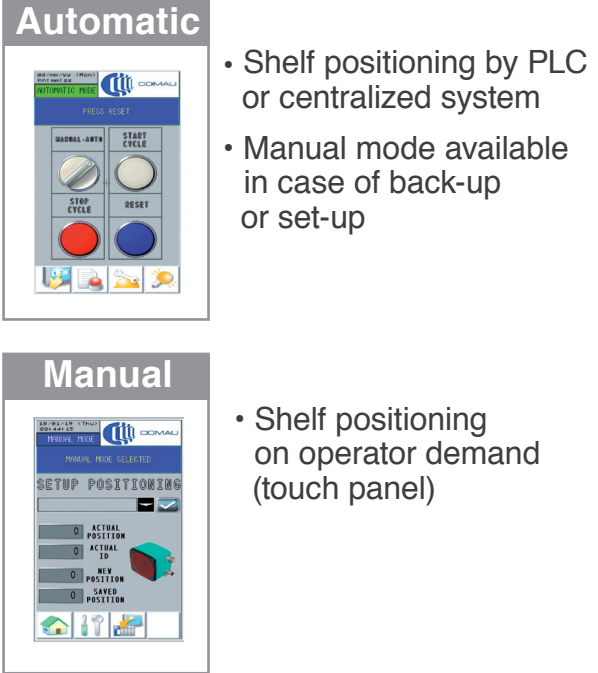


M.I.O. System Components

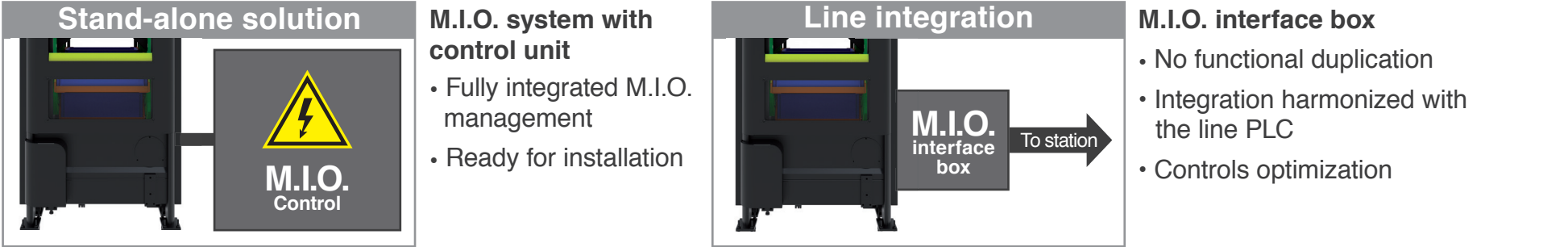


The automatic rotation system to position the shelves is powered by a motor located inside M.I.O. automatically connected (plug and play) to the frame.

Sequence Options



Controls Architecture

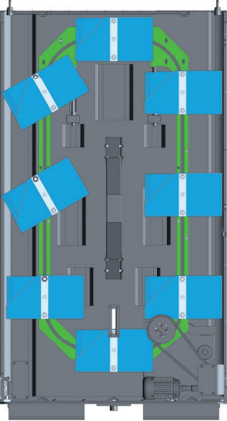


Mode Identification



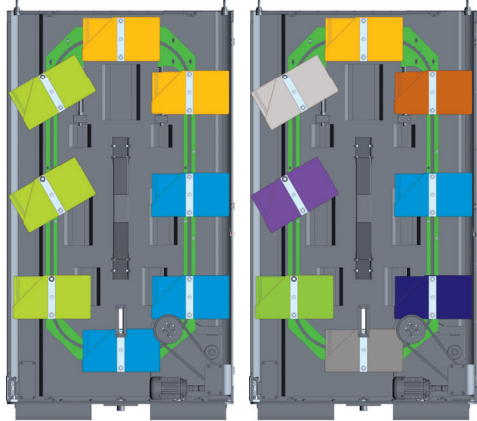
Multipurpose Concept

Single part numbers



- **Dynamic feeder**


Multiple part numbers




- **Just-in-time sequencing**
- **Different variants sequencing according to production mix**
- **No double handling**
- **Direct KIT management**

M.I.O. is a very flexible container able to be filled in different ways. Shelf can be tracked by using barcode or magnetic tags.

Parts Loading Methods



- Stationary M.I.O.
- Low automation level
- Back manual sideline feeding



- Manual sideline feeding with electric transpallet or forklift
- Medium automation level
- Refill in logistics area
- Easy to buffer

Benefits

+25%

Higher volume exploitation respect to traditional gravity feeding systems

-60%

Sideline lower footprint respect to traditional gravity feeding systems

Up to -80%

Supermarket area reduction

-30%

Intralogistics cost reduction

-25%

Non value added activities reduction



- High vertical space usage
- Low horizontal footprint
- Ergonomic line feeding
- Fast re-balancing and re-layout
- Extreme flexibility for types and volumes
- Real time re-sequencing
- Plug-in system
- Easy programming
- Logistics WCM score improvement
- In line kitting (double handling elimination)

* Percentages are calculated upon several case studies related to automotive (final assembly, eV, PWT assembly) and logistic sectors and could vary depending on the actual application

Features

- **Brick Dimensions:** L1200 x W800 x H2000 mm
- **Bay Dimensions:** L1300 x W945 x H200 mm
- **Stock Positions:** 8
- **Weight (Empty):** 300 kg
- **Max Dimensions KLT Boxes:** L400 x W600 x H 147 mm
- **Max Payload per Shelf:** 20 kg (box included)

- **Rotation Time:** 7 sec (1 step)
- **Controls:** PLC embedded in the solution
- **Actuator:** AC 400V motor
- **Vision System:** encoder + data matrix reader to identify shelves
- **Optical barrier for safety**



robotics.comau.com

Follow us



The contents of this brochure are supplied for general information only. Comau S.p.A. reserves the right to alter specifications at any time without notice for technical or commercial reasons. The illustration does not necessarily show the products in their standard version. **Edition - 03/19 - Turin**

Made in Comau