



RI20 – SIMPLIFIES COMPLEXITY

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The new RI20 palletizing cell with industrial robot arm simplifies all the complex processes of a traditional palletizer.

The palletizer is compact, mobile and adapts easily to production changes, whether for a new recipe or a different line location. The unit is suitable for palletizing closed boxes within fast-moving consumer goods industries. The easy-to-use unit is the latest addition to FlexLink's robotics offer with unique hardware and software interface for trouble-free operations.

Key benefits

- Safe coexistence and continuous operations: Increases production capacity by up to 5%.
- Easy to integrate and 50% faster to relocate: Enables flexible production planning.
- Simplifies all complex processes of a palletizer: No advanced programming or skills needed.
- Quick to configure and troubleshoot: Reduction in downtime and repair time savings.
- Short lead time and global support.



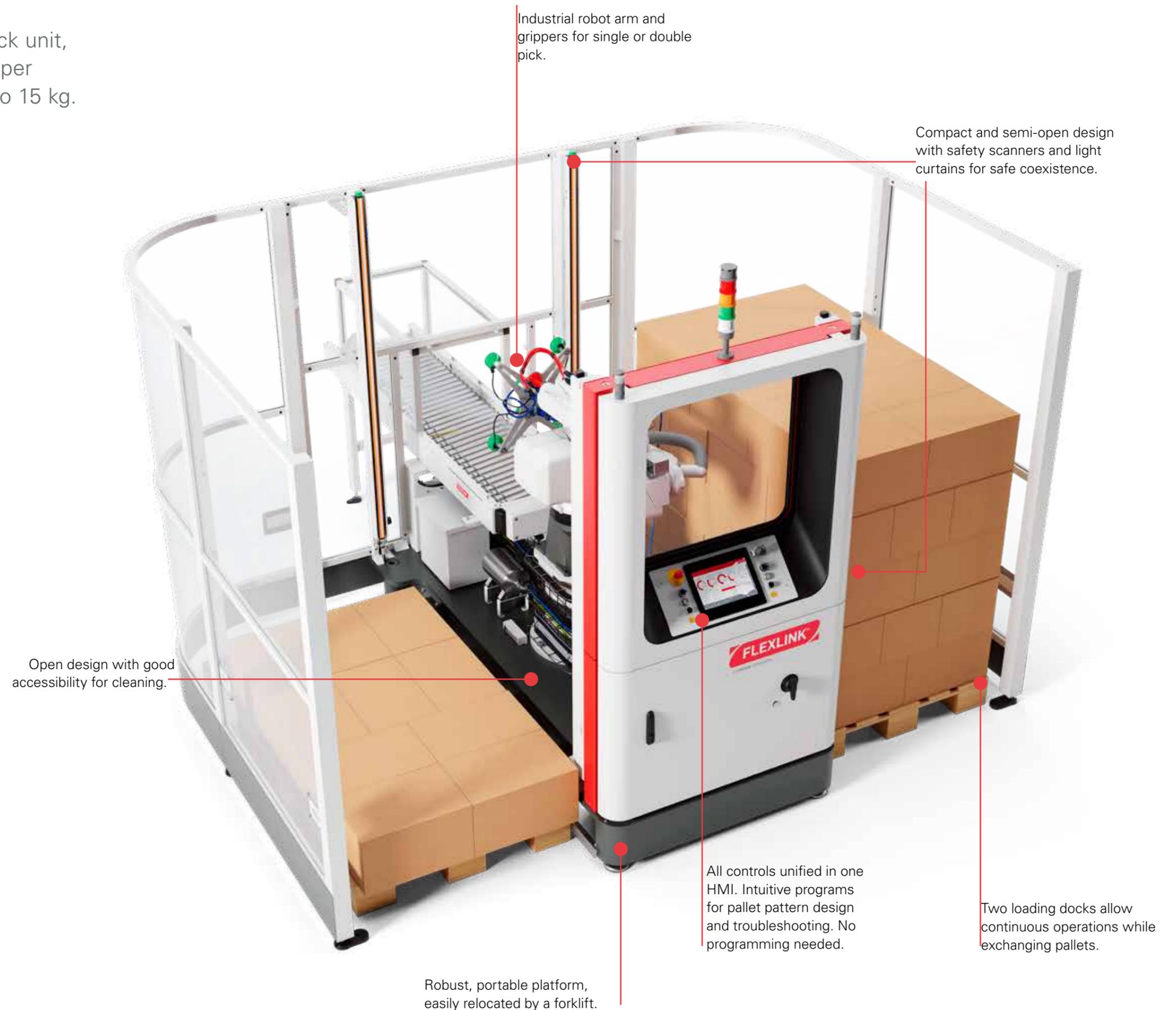
OVERVIEW

The R120 palletizer is a single or multi-pick unit, palletizing closed boxes up to 12 cycles per minute with a maximum payload of up to 15 kg.

Choose between a left, straight or right-hand sided infeed conveyor. Maximum pallet height is 2.2 m for EUR pallets and 2.0 m for INDU/US pallets.

Key options

- Robot arm
 - KUKA KR20 R1810 Cybertech *or*
 - FANUC M-20iA/35M
- Gripper
 - Suction cups, single *or* double pick
- Infeed conveyor: 24VDC roller conveyor (left, straight or right)
- PLC options
 - Siemens: PLC family: ET 200SP
 - Allen-Bradley: PLC family: CompactLogix 5380



GAIN PRODUCTION CAPACITY

Enhanced safety features and two loading docks allow for continuous operations and increased production capacity.

The semi-open palletizer integrates an advanced safety system for safe coexistence between the robot and operators. It will automatically slow down if an operator enters the safety zone and only stop if needed. This reduces unnecessary downtime and in also, the two pallet positions create a seamless pallet exchange increasing production capacity by up to 5%.



Safety comes first

FlexLink has developed a unique safety design philosophy allowing the RI20 to fulfill Machine Directive 2006/42/EC, (EMC) Directive 2014/30/EU, Performance level (PLd) category 3 and a variety of other standards.

Compliance

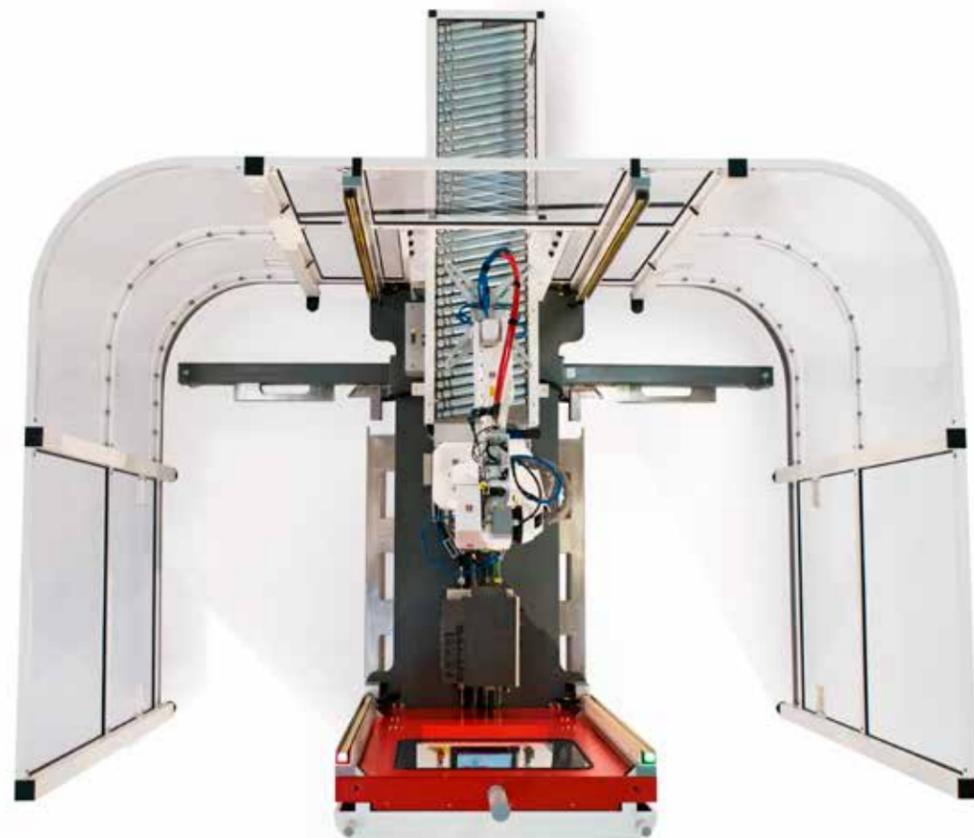
- EN ISO 12100:2010 Safety of machinery - General principles for design - Risk assessment and risk reduction
- EN ISO 10218-2:2011 Robots and robotic devices - Safety requirements for industrial robots - Part 2: Robot systems and integration
- EN ISO 13849-1:2015 Safety of machinery - Safety-related parts of control systems - Part 1: General principles for design
- EN 415-4 Safety of packaging machines - Part 4: Palletizers and depalletizers
- ANSI B11.0-2015 Safety of Machinery
- ANSI / RIA R15.06-2012 Industrial Robots and Robot Systems – Safety Requirements
- NFPA 70 National Electrical Code (NEC)
- NFPA 79 Electrical Standard for Industrial Machinery
- UL 508 Standard for Industrial Control Equipment



A VERSATILE SOLUTION

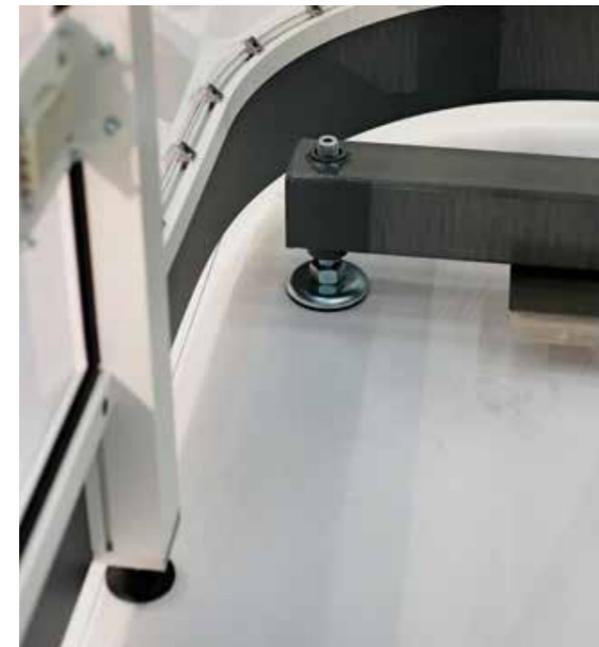
Maximize the flexibility of your production planning. The RI20 palletizer saves valuable floor space and is easy to relocate in just a few hours.

The compact design saves up to 40% floor space compared to heavy robot palletizers. The space-saving footprint allows the RI20 to be easily integrated into existing lines or new layouts. With no need to attach the RI20 mainframe to the floor, it can quickly be moved to another line using a forklift, in just a few hours; a relocation time of 50% less than alternative solutions.



Small footprint

The RI20 measures 4.1 m in length and 3.9 m in width including a straight infeed conveyor.



Easy to move

The modular design makes it easy to move inside the production site. Quick connectors allow the conveyor and frame to easily be disconnected and the platform can be easily picked up using a forklift.



Semi-open design

The semi-open design allows easy access to all areas of the cell for assembly, maintenance and cleaning.

EASY TO USE

FlexLink always focuses on the operator; designing equipment to make their work easier and production flows more efficient.

The RI20 has an intuitive, web-based pallet pattern manager and does not require robot programming. It takes less than 10 minutes to set up a new recipe, or just a few clicks to load an existing design. All interaction uses the FlexLink developed Human Machine Interface (HMI). The HMI also includes maintenance manuals, troubleshooting tips, and spare part lists.

Options



Intuitive pallet pattern manager

The pallet pattern manager Robot Config has an intuitive user interface and drag-and-drop functionality. The program covers all parameters including intermediate layers, to design a complete pallet pattern.

Data collection package

Gain access to important production efficiency data in real time. Locate bottlenecks and root causes through machine utilization reports. The RI20 is PackML compliant.



Rigid interlayer module

The interlayer module is located above the infeed conveyor inside the cell and can easily be refilled by operators. The module handles rigid interlayers in cartons.



Remote assistance package

The RI20 is equipped with a remote assistance package and a telephone helpline for maintenance and troubleshooting with repair time savings of as much as 70%. Choose between three support levels.

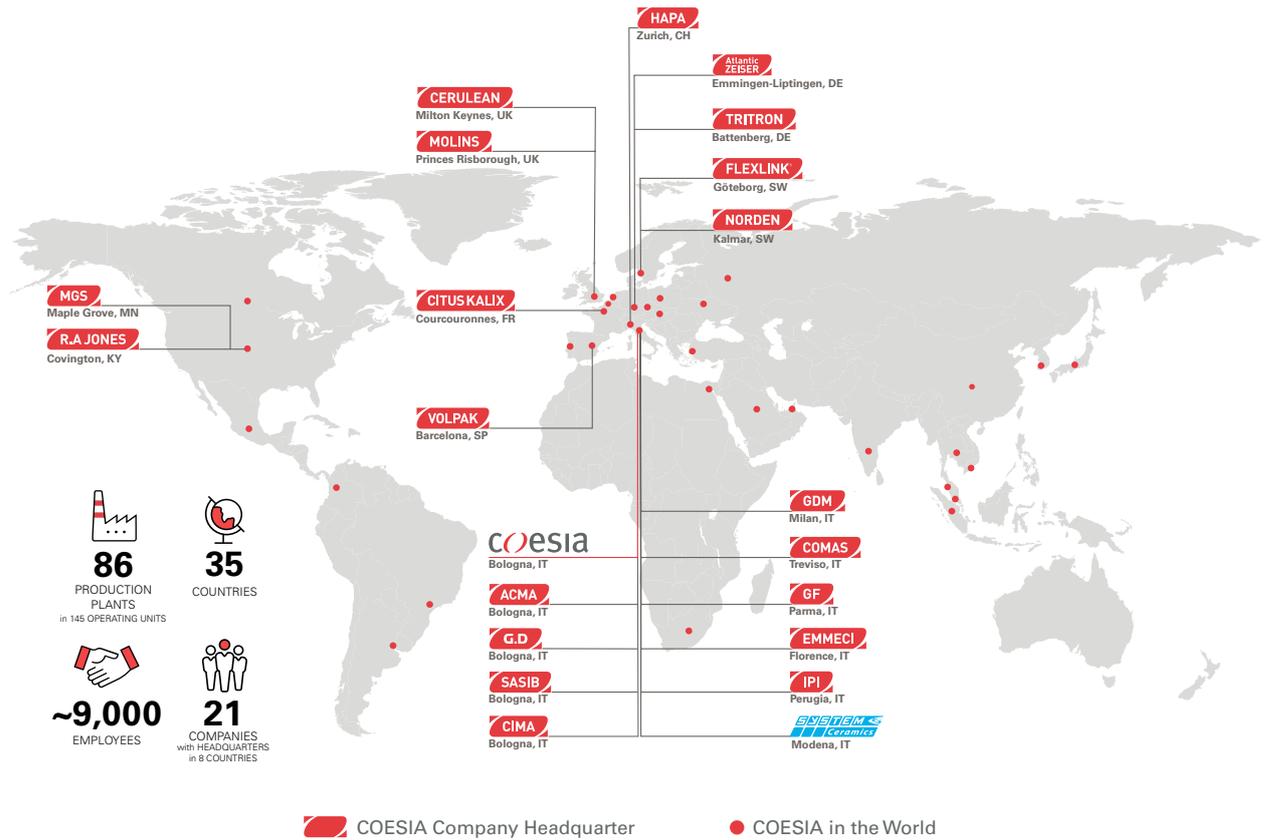


Preventive info package

Stay on top of maintenance with the preventive info package. Access RI20 ware data and foresee maintenance needs.



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info@flexlink.com
flexlink.com