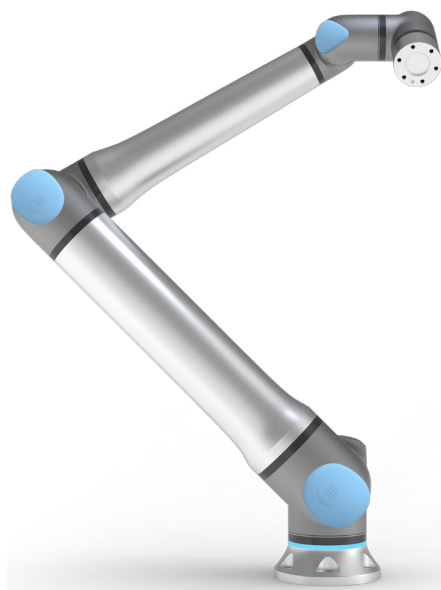# miniPAL® 20

COLLABORATIVE ROBOTIC PALLETIZER

The miniPAL® 20, offering a combined payload of 25 kg (55 lbs) offers a small footprint while still providing a fexible and robust palletizing solution. Containing integrated safety system, the miniPAL® 20 utilizes area scanners, radar and guarding, as well as the built in force limiting technology to offer safety and speed in an optimized footprint.

« Applications include cases, spot packs, trays, bundles, and plastic bags

« Complete system integration for your end-of-line automation

« Speed, flexibility, and custom solutions

« Equipped with easy-to-use pattern-building software

« Optimized footprint for your facility

« Increased productivity with no additional labor costs
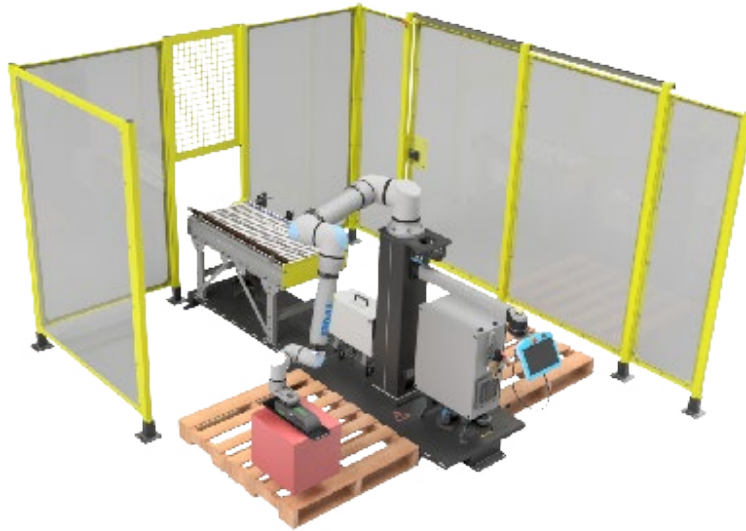
WHY COLLABORATIVE?

Collaborative robotic palletizers are designed to work easily and safely in collaboration with employees, freeing operators to do other tasks, allowing for higher production without having to hire additional people. Their force limiting capabilities make them ideal for facilities with limited floor space, deploying in close proximity to workers without compromising safety.

Columbia okura LLC

Columbia/Okura LLC is a robotic palletizing integrator, applying expert knowledge and tools to solve customers "End of Line" production challenges for a diverse range of businesses, products, and applications. We believe in the transformative power of automation.

SPECIFICATIONS

PAYLOAD	25 kg (55 lbs)		**INFEED CONVEYOR**	Hytrol E24 - 4' with product guides
END EFFECTOR	Vacuum and clamp style		**SAFETY COMPONENTS**	270° area scanners
RATE	6 - 28 cases/min (pattern/multi-pick dependent)		**POWER REQUIREMENTS**	2 110V, 1PH, 20AMP single phase outlets
LOAD HEIGHT	2032 mm / 80" (Optional 110")		**PNEUMATIC REQUIREMENTS**	80psi 15SCFM
PALLET BUILD LOCATIONS	48" x 48" max pallet size			

INTEGRATED SAFETY

When collaborative mode is enabled, the robot reduces its force, speed, and power, allowing operators to safely make adjustments within the working cell perimeter without stopping production. Collaborative robots are also equipped with force and power sensors that detect contact and immediately stop the robot, preventing injury to operators or other personnel

PALLY® PALLETIZING SOFTWARE

Pally is a user-friendly palletizing software package developed by Rocketfarm® for Universal Robots. It allows users to create and manage pallet patterns, which are easy to download and upload to your system. Pally is flexible enough to handle changes in production packaging or pattern requirements with minimal downtime.

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