IMS GROUP USA

INNOVATIVE MACHINERY SOLUTIONS

RO-PAL HC20

COLLABORATIVE ROBOTIC PALLETIZING SYSTEM

RO-PAL by IMS Group USA is an advanced robotic palletizing system built for efficiency and adaptability. With dual-position reach and intelligent software, it maximizes throughput while minimizing footprint. RO-PAL offers safe, barrier-free automation with intuitive touchscreen controls. Compact, flexible, and scalable, it handles frequent product or pallet changes with ease. Designed to work independently or alongside human workers, it delivers reliable performance for both new and existing lines—shaping the future of palletizing.

RO-PAL HC20

Collaborative Robotic Palletizing Solution

RO-PAL: Smart. Flexible. Safe. A state-of-the-art collaborative robotic palletizing system designed to streamline operations, enhance safety, and adapt to a wide range of packaging environments.

Max box weight	17 kg / 37 lbs
Max pallet height	1930 mm / 76 in
Horizontal reach	1000 mm / 39 in
Vertical reach	1930 mm / 76 in
Max speed	10 cases per minute
Pallet sizes	800 × 1200 mm – 1000 × 1200 mm / 31.5 × 47.2 in – 39.4 × 47.2 in
Axes	6
Air supply	6 bar or 87 PSI
Power supply	220V, 3-phase, 16 A + ground
Power consumption	2.0 KW, 230V, 3-phase, 8 A
Air consumption	3.25 CFM—92 NL

TECHNOLOGY-DRIVEN PERFORMANCE

Features a 6-axis collaborative robot with a reach of up to 1930 mm / 76 in. Positioned inline with the conveyor, it efficiently serves two palletizing stations while minimizing footprint.

ACCURACY & HANDLING

The RO-PAL HC20 uses smart software to ensure precise, consistent stacking every cycle. Handling boxes up to 17 kg / 37 lbs, it adapts to product variations and maintains stable, uniform pallets, reducing errors and rework.

FLEXIBILITY

Adapts easily to different products and pallet patterns, Ideal for changing packaging requirements. A larger picking head can be installed to handle multiple cases at once.

- Up to 10 recipes stored in HMI
- Simple changeovers for picking heads
- Easily relocated by forklift or pallet jack

EASY TO OPERATE

Controlled through a user-friendly touchscreen with recipe-based programming. No coding needed—just load, adjust, and run.

- Controlled on windows surface tablet
- Save and edit palletizing programs
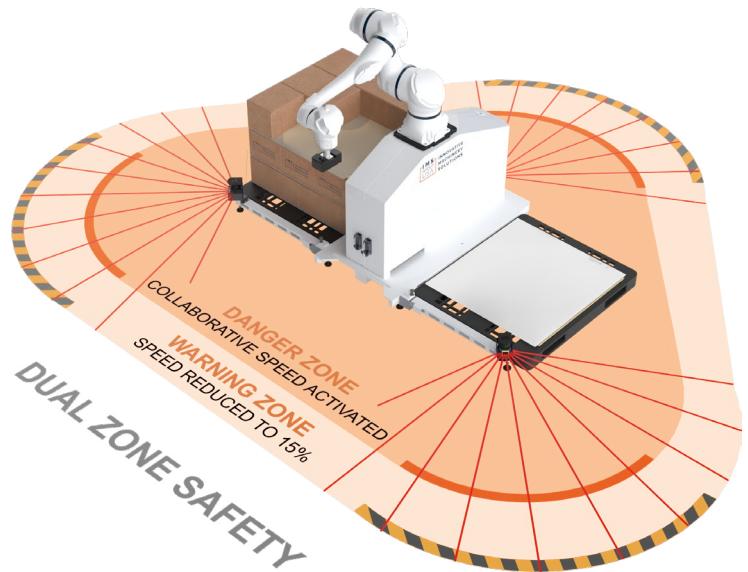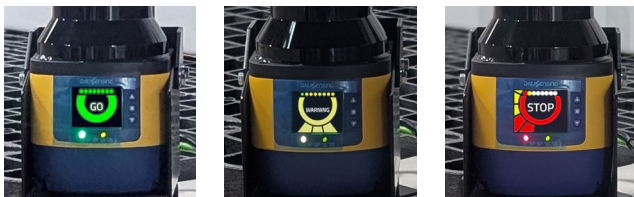- Ethernet connection for data sharing

IMS GROUP USA — INNOVATIVE MACHINERY SOLUTIONS

+1 (616) 942-5500
info@imsgroupusa.net
www.imsgroupusa.net
2900 Charlevoix Dr. SE, Suite 110
Grand Rapids, MI 49546

RO-PAL HC20

BUILT IN SAFETY

A laser scanner monitors the work area and slows down the robot if a person or object enters the safety zone. No bulky cages or barriers required.

- Advanced laser safety monitoring
- Automatic slowdown when obstacles are detected
- Safe operation alongside personnel

DUAL ZONE SAFETY

DANGER ZONE
COLLABORATIVE SPEED ACTIVATED
WARNING ZONE
SPEED REDUCED TO 15%

Lease to Own Program

IMS Group USA offers a flexible lease-to-own program for the RO-PAL, making it easier to bring advanced palletizing automation to your facility.

With manageable monthly payments, you can upgrade your operations immediately while building ownership over time—helping balance cash flow and investment in efficiency.