



COLLABORATIVE PALLETIZER



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WHO WE ARE

Columbia/Okura was an early leader, best known for our robotic bag palletizing expertise. Our experience and capabilities have grown substantially in the last 25 years, leading us into hundreds of product packaging and palletizing applications in countries all over the world.

We are excited to deliver an even larger product offering by adding our new collaborative palletizing application. Our goal is to continue to evolve our product offerings to meet growing customer needs for safe, reliable, and economical systems. Columbia/Okura is ready to assist in providing the best automated solution for our client's needs.



The image shows a robotic palletizing system. On the left is a control console on a stand with a tablet. In the center is a palletizer unit with a yellow side panel, currently loading two cardboard boxes onto a blue pallet. On the right, a robotic arm is positioned above the palletizer. The background is a plain light gray.

QUICK PAYBACK

AVERAGE PAYBACK IS BETWEEN
8-10 MONTHS, DEPENDING ON
APPLICATION AND INDUSTRY

EFFICIENT SETUP

TAKES LESS THAN A FULL DAY;
PLUGS INTO 110V AC WALL
POWER

EASY OPERATION

NO PREVIOUS PROGRAMMING
EXPERIENCE REQUIRED



FLEXIBLE DEPLOYMENT

OUR MOBILE SOLUTION IS EASILY
MOVED AND RE-DEPLOYED TO
NEW PROCESSES

NO GUARDING REQUIRED

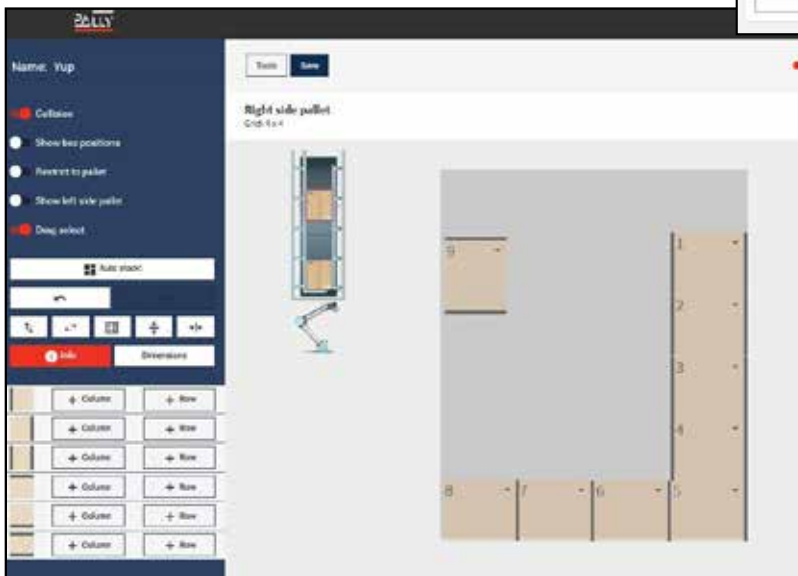
A VAST MAJORITY OF COBOT
APPLICATIONS WORK NEXT TO
HUMANS WITHOUT PERIMETER
GUARDING REQUIREMENTS

miniPAL™ ROBOTIC PALLETIZING SOFTWARE

Columbia/Okura's customized software is designed to be flexible, smooth and quick-to-install.

FEATURES

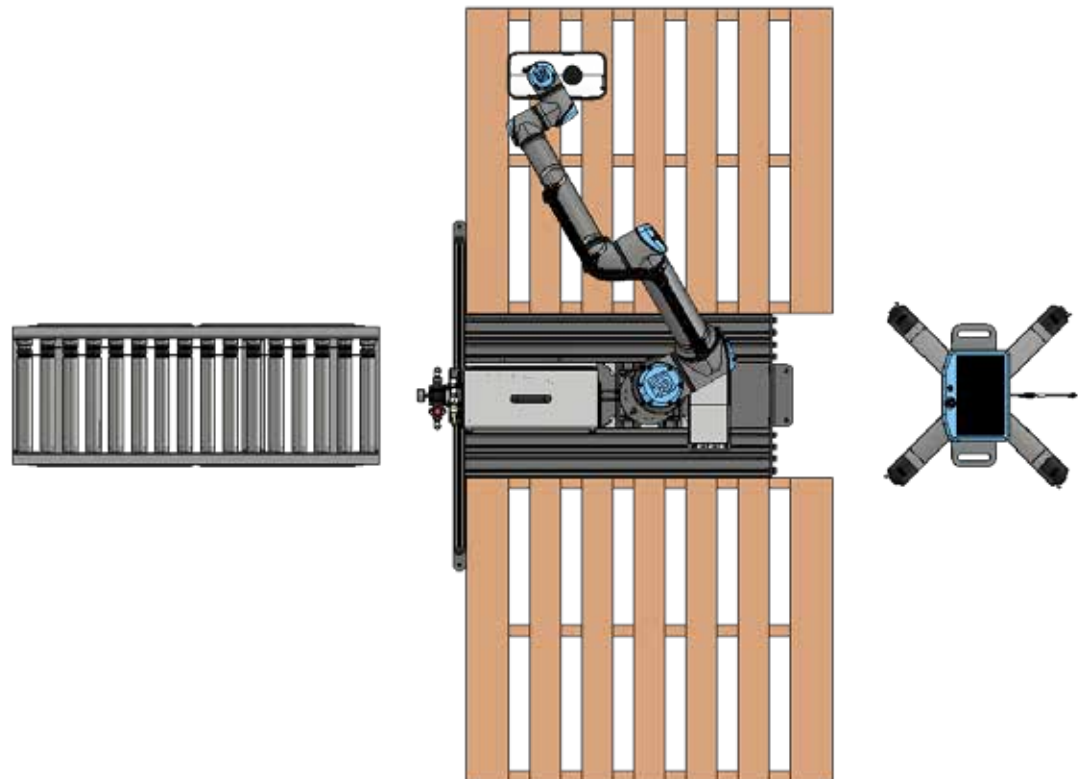
- › Simple installation and setup
- › Can handle multiple patterns without being re-programmed
- › Can palletize two products from two infeed lines at the same time on different pallets (one product type per pallet)
- › Labels out stacking capability
- › Single or double grip product with speeds up to 20 boxes/min as pattern, product, and payload allows
- › Optimized path planning for speed and longevity of the robot
- › Create patterns in a web browser (avoid extra hardware)
- › Generic support for lifting columns (handle bigger pallets)



MACHINE SPECIFICATIONS

UR10e TECHNICAL DETAILS

REPEATABILITY	±0.1 mm / ±0.0039 in (4 mils)		IP CLASSIFICATION	IP54
AMBIENT TEMP RANGE	0-50°		ISO CLASS CLEAN ROOM	5
POWER CONSUMPTION	Min 90W, Typical 250W, Max 500W		I/O PORTS	Digital In 2
COLLABORATION OPERATION	15 advanced adjustable safety functions.			Digital Out 2
	TüV NORD Approved Safety Function			Analog In 2
	Tested in accordance with:			Analog Out 0
	EN ISO 13849:2008 PL d		I/O POWER SUPPLY IN TOOL	12 V/24 V 600 mA in tool
PAYLOAD	10 kg / 22 lbs *excluding end effector		NOISE	72dB(A)
REACH	1300 mm / 51.2 in		ROBOT MOUNTING	Any
DEGREES OF FREEDOM	6 rotating joints		FOOTPRINT	Ø 190 mm
PROGRAMMING	Polyscope graphical user interface on 12 inch touchscreen with mounting		MATERIALS	Aluminium, PP plastics
AXIS MOVEMENT	Working Range	Maximum Speed	TOOL CONNECTOR TYPE	M8
	BASE	±360°	±120°/Sec.	CABLE LENGTH ROBOT ARM
SHOULDER	±360°	±120°/Sec.	WEIGHT WITH CABLE	28.9 kg / 63.7 lbs
ELBOW	±360°	±180°/Sec.		
WRIST 1	±360°	±180°/Sec.		
WRIST 2	±360°	±180°/Sec.		
WRIST 3	±360°	±180°/Sec.		
TYPICAL TOOL	1 m/Sec. 39.4 in/Sec			





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