

THE **RIIG** PALLETIZER



Reliable. Flexible. Ready to work on Day 1.



THE RIG STANDARDS

Built for box makers, tailored to each operation.

RIG STANDARD SPECIFICATIONS

Base	Mobile Cart: yoke & castors and fork pockets
Robot	FANUC CRX 25/30ia collaborative robot
End of Arm Tool	Suction top pick, extendable wings, integrated vacuum sensors
Stack Height	Up to 60"
Box Weight	Up to 50 lbs
Cycle Times	4-6+ per min (Up to 2,000 mm/s)* <small>*multipick end-effectors available for increased throughput of lighter weight cases</small>
Air	90 PSI; 2.5 cfm consumption
Power	120 VAC single-phase power, 15 amps
Layout	9'2" x 12'3"
Stations	2 pallet stations; 2 infeed locations, 2 cap sheet rack stations
User Interface	15.6" industrial touchscreen HMI
Software	RGS Full Stack
Safety	Pilz 360 virtual fence (4 area scanners), emergency stops (2)

INTEGRATION & MAINTENANCE

Integration	Two days on site, travel expenses pass through.
Training	On-site and video operator & maintenance training included with integration.
Control Center	Remote login to productivity analytics, diagnostics, and reports. Includes up to 10 hours of remote support annually.



SMALL FOOTPRINT



VISION GUIDED



EASY TO USE



FAST ROI



PICK VALIDATION

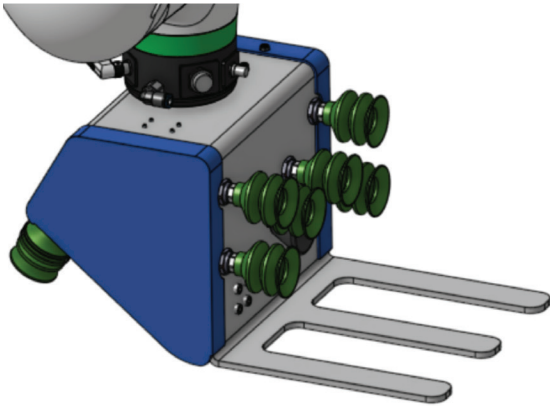


FULLY SUPPORTED

SIDE PICK KIT

Add-on kit for palletizing un-taped or HSC boxes and available customizations.

RIG SIDE PICK KIT ACCESSORIES



Core	RIG Standard
Conveyor	Conveyor section for box orientation and alignment, fed from 2 infeed conveyors* <small>*(infeed conveyors not included)</small>
End of Arm Tool	Side pick with bottom forks
Stack Height	Up to 60"
Max Box Weight	35 lbs
Cycle Times	3-5+ per minute (Up to 2,000 mm/s)

ADDITIONAL CUSTOMIZATIONS



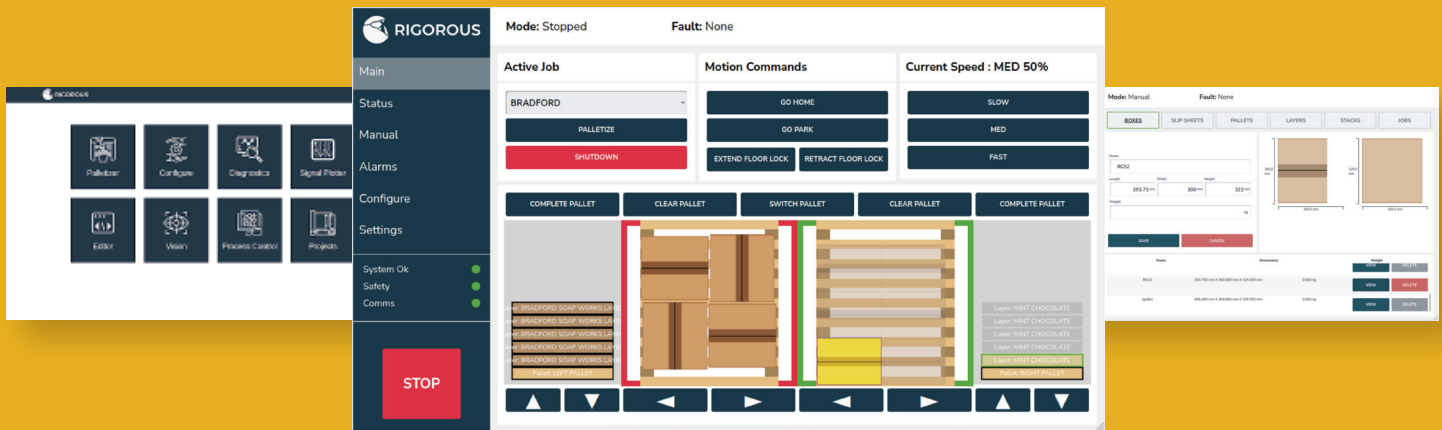
7th Axis Elevator	Up to 96"+ stack height
Cap Sheet Rack	Rack for cap, tie, or slip sheets
Base	Stationary pedestal or overhead mount
Custom Tooling	Multi-pick or high porosity box tool, pricing based on specification
Additional Tooling	Additional end-of-arm tools with quick-change connectors can be added
Robot OEM	Rigorous is an Authorized Systems Integrator for FANUC and Kawasaki and can integrate an alternate OEM if preferred
Industrial Robot	For greater payload or speed requirements, the RIG can be integrated with an Industrial robot; Rigorous will recommend the robot model according to the product requirements

"Unlike the 'cookie-cutter' approach we found with other providers, Rigorous was flexible and adaptive, making real-time changes to optimize the robot for our specific use cases." - Pedro Pacheco, Accurate Box Company

RGS FULL STACK

“Rigorous has been an outstanding partner... Their team’s competence, collaborative spirit, and willingness to tackle complex challenges made them feel like part of our engineering department from day one.” - Danny Rose, SCT

POWER AT THE EDGE

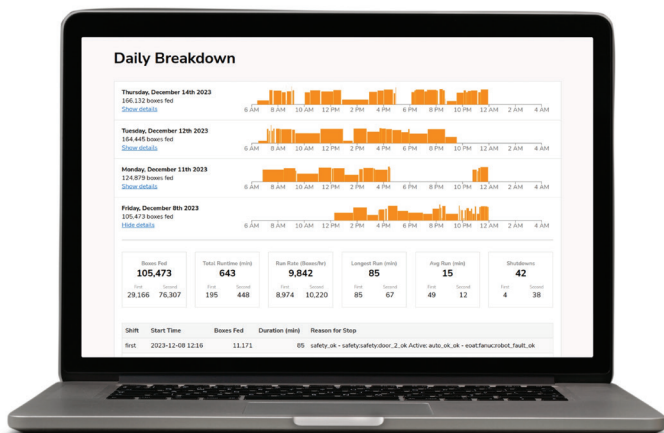


Unlimited Configurations

Easy to Operate Touchscreen

Automatic Error Handling

INSIGHTS IN THE CLOUD



Remote Monitoring & Support

Productivity Analytics

Fleet Management

THE RIG FITS

“After working closely with Rigorous we are convinced that they have harnessed the highest level of innovation in their high-performance robotic palletizer.” - Tom Fitzgerald, Koenig & Bauer

Box Recognition

LiDAR camera system automatically corrects box orientation and position.

RIG Vision verifies job selection matches the ready box.

Plug-and-Play

Standard 120V power and factory air hookups enable fast setup.

Easy controls with tiered access for operator, maintenance, and manager roles.



True Mobility

Move from line to line with yoke & caster wheels or fork pockets.

Picks directly off of a standard powered or gravity conveyor without recalibration.

Embedded Safety

Four area scanners create a full safety perimeter that adjusts speed or stops when breached.

Retractable safety wings allow operators to easily move and reset the RIG in new locations.



RIGOROUS



KOENIG & BAUER



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