Kawasaki
Powering your potential

Vambo provides full support for various devanning work

The devanning robot **Vambo**

Vambo automates the devanning of boxes mixed in containers

Past devanning

Human workers transfer loads from containers onto a belt conveyor

Raises concerns about
"2024 problem" due to labor shortage

Future devanning

**Vambo automates
the devanning of boxes from containers**

Features

Capable of handling boxes placed in a high position and boxes with different dimensions weighing up to 30kg
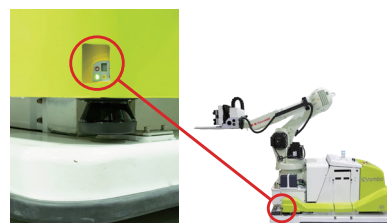
Three-dimensional AI vision and hand using patented technology support devanning of boxes of various shapes and sizes.

No installation work necessary

Being self-propelled, Vambo requires no installation work and can be operated without interfering with the path of workers or forks even when not in operation.

patent

Compact, safe, and secure design

The mounted LRF (Laser Range Finder) covers 360 degrees in the surrounding area to detect human access and intrusion.

Strength and after-sales service of Vambo

Optional high-speed version & remote maintenance

Vambo achieves unloading of one container in two hours

Function

Standard specification : 3D AI vision system is mounted on the robot hand

Sequence of motions

1. Take an image of a box inside a container
2. Determine the box to be taken out
3. Take out the box
4. Deliver to the onboard conveyor

* Go back to 1. and start again.

Processing capacity: 300 to 600 boxes*/hour

High-speed option: Shoot with AI vision during handling

patent

Take an image of the next box when delivering to the onboard conveyor

▼

The number of boxes processed is increased by approximately 1.3 times because photo-taking by the AI vision system and processing of photos are performed while the robot is in motion!

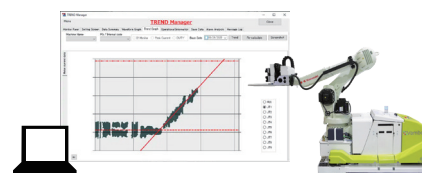## Processing capacity: 400 to 800 boxes*/hour

* The maximum number of boxes for processing capacity is when two boxes are held at a time.

After-sales service

We support your stable operation of facilities through predictive maintenance and remote maintenance.
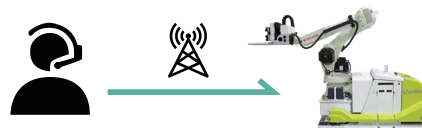
Reduces risk of sudden failures during normal operation

Use of TREND Manager for failure prediction and predictive maintenance prevents equipment shutdown.

Shortens downtime in the case of problems

We support early identification of causes and troubleshooting using remote maintenance technology.

An increasing number of customers are using Vambo!

Customer feedback

Vambo is now being introduced at customer sites. Here is actual feedback from our customers.

Vambo users

Nohi Seino Transportation Co., Ltd. Tomika Logistics Center

Seino Transportation, which is engaged in the 3PL business, handles the receipt and shipment of cartons of daily miscellaneous goods as a DC base for major home improvement stores. The Tomika Logistics Center employed Vambo as a solution to the harsh work environment in summer, in addition to the aging of devanning workers. Since the introduction of Vambo, they succeeded in reducing the number of unloading workers from six to two.

SHOWA GLOVE Co. MIKI logistics center

SHOWA GLOVE, a manufacturer of a variety of gloves, introduced Vambo in their distribution center in Miki City, Hyogo Prefecture to unload cartons shipped from overseas factories in Southeast Asia and other countries. They employed Vambo to secure personnel for the medium- to long-term, as a measure for the 2024 issue and the like. As a cargo owner, SHOWA GLOVE provided 3PL companies with "Vambo" to help reduce the number of employees involved in devanning, a heavy-duty task.
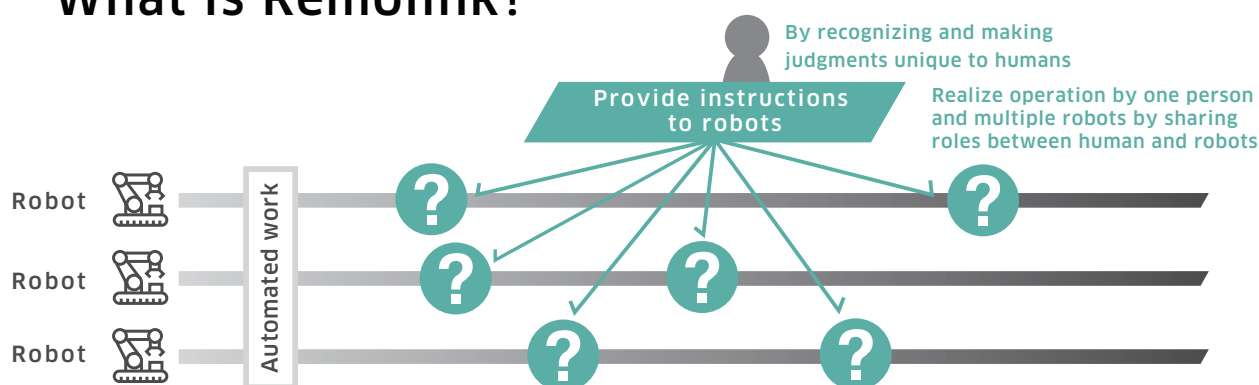
Also remove irregular workpieces remotely

Remolink × Vambo

Remotely control Vambo with Remolink

Human workers can remotely instruct Vambo and remove irregular workpieces from containers.

What is Remolink?

By recognizing and making judgments unique to humans

Provide instructions to robots

Realize operation by one person and multiple robots by sharing roles between human and robots

Robot
Robot
Robot

Automated work

A cloud service for corporations that realizes new remote work through robots by Remote Robotics Inc.

What is Remote Robotics?

Remote Robotics **Kawasaki** × **SONY**

Remote Robotics Inc. is a newly established company in the Remote Robot Platform business. Kawasaki Heavy Industries and the Sony Group started sales on December 1, 2021. Aiming to realize a society with remote capabilities where everyone can participate in society, they propose a new work style that is safe and secure through a remote robot platform.

Click here to download Remote Robotics catalog

Please also visit the exhibition by Remote Robotics in E2-06, East Hall 2.