



AUBO COLLABORATIVE ROBOT

Collaborative robots

From Aubo Robotics

A Collaborative robot from Aubo Robotics – the newest generation of robots characterised by agility, flexibility and by being able to work closely with people since they are approved for operation without safety fencing.

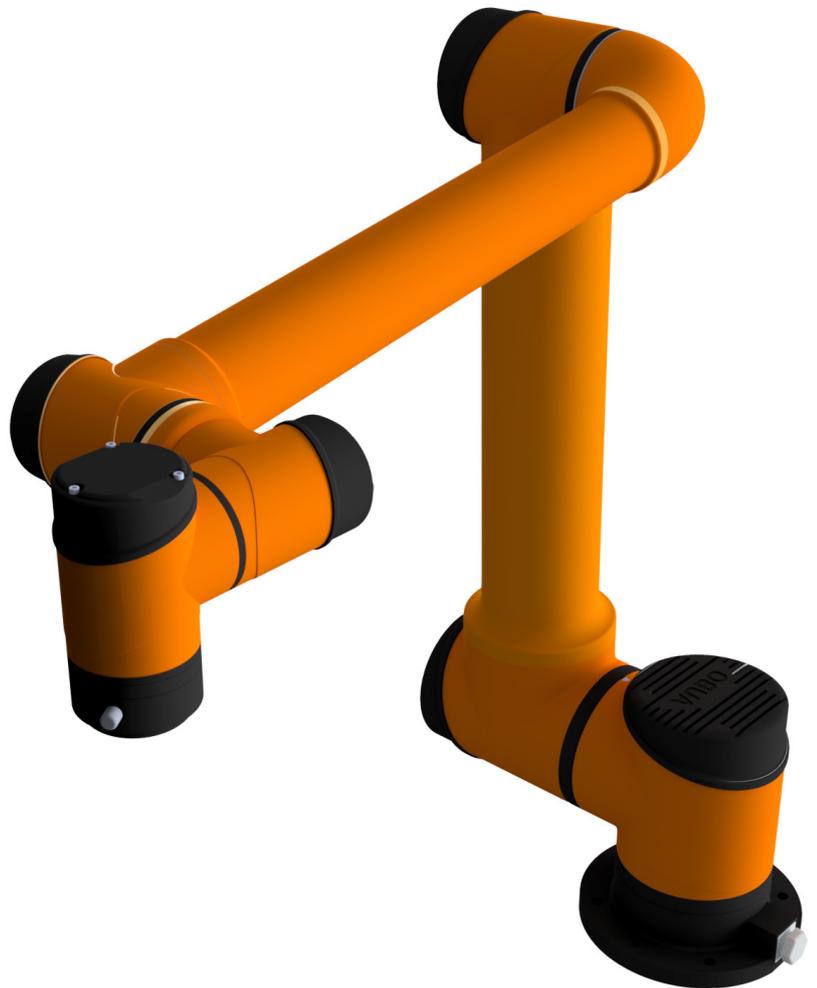
Flexibility and a high level of precision

A Cobot can free up manpower or assist employees with monotonous and strenuous tasks. With great variation in mobility, the Cobot can perform repetitive movements with a high level of precision. Therefore, it is particularly well-suited for a various range of tasks as pick and place, handling, product testing, assembly, case polishing, machine tending and loading/unloading.

LEAD
ROBOTICS

Benefits of choosing Lead Robotics as a partner

- Technical support
- Competitive prices
- Attractive OEM agreements



Cobot functions

Cobot – Collaborative robot:

Robot specifications

Cobot variations:	i3	i5	i10	i16
Axes	6	6	6	6
Payload	3 kg	5 kg	10 kg	16 kg
Weight	15,5 kg	24 kg	37 kg	38 kg
Warranty	1 year	1 year	1 year	1 year
Power efficiency	150 w	220 w	500 w	600 w
Reach	625 mm	924 mm	1350 mm	967 mm

Maximum speed:

J1 axis rotation base	180°/ sec	150°/ sec	180°/ sec	180°/ sec
J2 axis rotation shoulder	180°/ sec	150°/ sec	180°/ sec	180°/ sec
J3 axis rotation elbow	180°/ sec	150°/ sec	180°/ sec	267°/ sec
J4 axis wrist rotation	180°/ sec	180°/ sec	180°/ sec	180°/ sec
J5 axis wrist swing	180°/ sec	180°/ sec	180°/ sec	180°/ sec
J6 axis wrist rotation	180°/ sec	180°/ sec	180°/ sec	180°/ sec

Working range (+/-) 175°

Return on investment

A Cobot is an inexpensive and easy way to improve production efficiency. It is cheap to buy and to operate, it is stable and it can work 24/7. Furthermore, it also takes up less space when compared to normal robot cells with safety fencing. You will therefore quickly recuperate your investment, and your company will benefit from competitive advantages.

Close cooperation with people

One of the strengths of the Cobot is that it can work closely with people without requiring safety fencing, which ensures a dynamic work process. However, safety is still top notch due to the Cobot's extensive safety requirements. For example, there is a built-in sensor with a stop function, which activates upon unexpected resistance.

Quick reconfiguration

The Cobot is ideal for companies with many different products or product variants, where quick reconfiguration is essential. It can easily be re-programmed or moved and implemented elsewhere in the production.

The Cobot also comes with a "teach" function, where every position can be manually set by placing the robotic arm in the desired position. This makes the robot very user friendly to operate for the individual employee, as it does not require extensive programming knowledge.

Cobot functions AUBO Robotics collaborative robot:

- Can be installed in a normal 230 V plug
- The robot comes with CE marking
- Six-axis robot
- Available in three sizes, which can lift 3, 5 and 10 kg respectively
- Can work closely with people without safety fencing
- Easy to program using the "teach" function

Palletizing kit

IPS software for easy programming of pallet patterns.

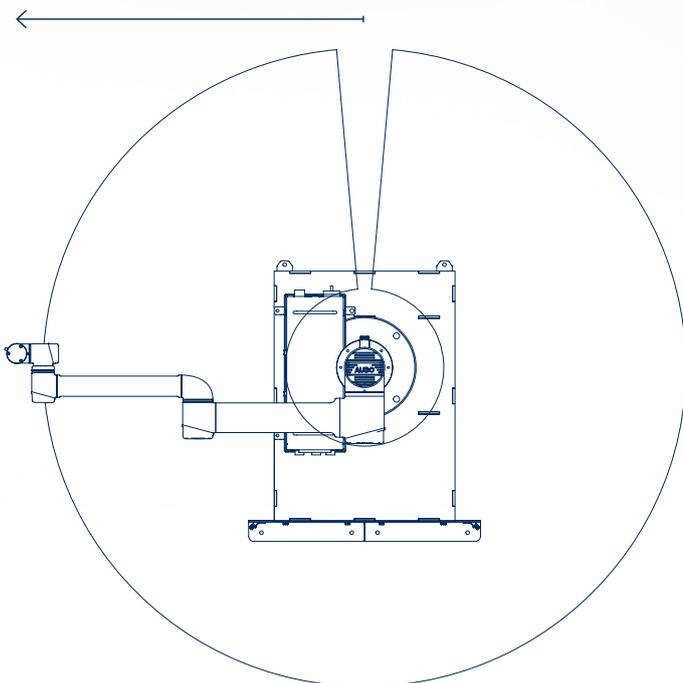
Deployed palletizing in a day!

With the Lead Robotics palletizing kit you can start robot palletizing instantly.

- Setup in few hours
- Support boxes, bags and buckets
- Fast change of palletizing patterns
- Simple programming - let your operators do it



Reach from 625 mm to 1350 mm. Working range +/- 175°



IPS – Intelligent packaging software

IPS software for easy programming of pallet patterns.

Programming made easy

IPS - Intelligent Packaging Software made for easy programming of pallet patterns. IPS does not require highly developed programming skills. This makes it easy for the end user, who will be able to create or edit palletizing patterns within 10 minutes.

User friendly interface

IPS - Intelligent Packaging software has been thoroughly tested by robot programmers and engineers. The design is user-friendly and have a logic control panel so that the individual operator can easily operate and program the robot.

Short introduction

The software includes the set-up of five pre-programmed pallet patterns, following the project specifications. It is easy to get started, after only a short introduction, the end user will be able to edit:

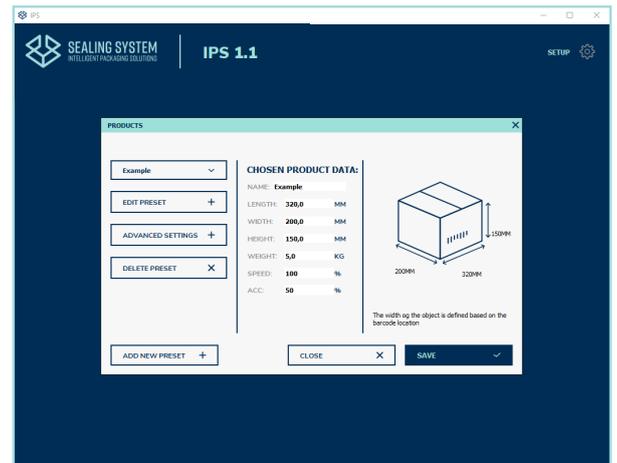
- Pallet types
- Products
- Sheet adding
- Pallet patterns
- Placing of robot tools/grippers

Cost saving

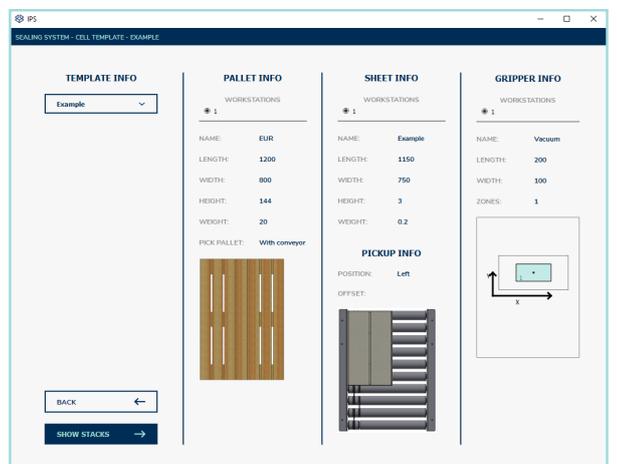
One of the great advantages of our programming software, is end users being able to create and edit pallet patterns. Skills which usually would require a certified robot programmer. This lowers your cost of robot programming substantially.

HIGHLIGHTS

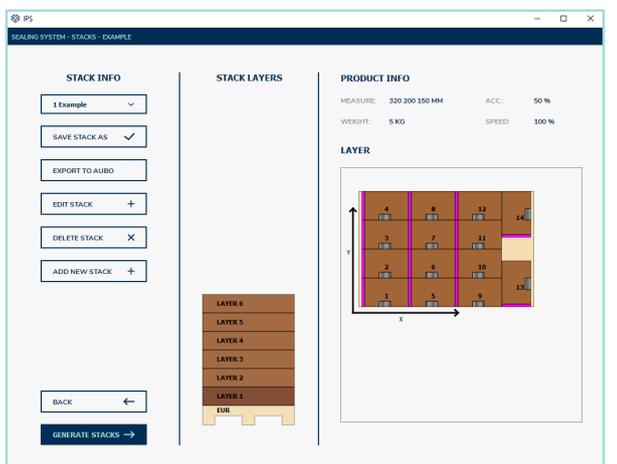
- The end user / Operators can easily change pallet patterns.
- The end user / Operators can create new pallet patterns in only 10 minutes.
- Easy editing of gripper placement
- One day learning course only
- Lowers the cost of robot programming, usually required by a certified Robot Programmer



Specifications for products.



Overview of pallets and pick up.



Finish - Now export to robot.

Robot tools



AG-95

Linkage-type adaptive grippers

- Plug & Play
- Integrated design, easy-to-use
- Parallel & adaptive gripping
- Large stroke - 95 & 145 mm force adjustable
- Drop detection
- ROS supported
- Self locking - in case of power lose gripper position is kept
- Possibility for fingertips customization



DH-3

Linkage-type adaptive grippers

- Centering of product in gripper
- Plug & Play
- Parallel & adaptive gripping
- Large Stroke, force adjustable
- Drop selection
- Self locking
- ROS supported



Sealing System

Vacuum tool for cobot

- Customized tool sizes
- Low weight
- 3D printed
- Possibility to adjust gripper dimensions according to product
- Vacuum channels are integrated inside the gripper to distribute vacuum to each suction cup
- Possibility for two vacuum zones
- Rings around suction cups for box support

SSG-3D-6

SSG-3D-1

Robot tools



PGC - Series

Collaborative parallel grippers

- 2-finger electric gripper
- Several models with different stroke: 35-50-75 mm
- Gripping force & position control
- Compact design
- Plug & Play
- Drop object detection
- End-of-arm port connection
- Designed for harsh environment
- Possibility for fingertips customization



CGC-80

Collaborative parallel grippers

- 3-finger electric gripper
- Stroke 100 mm
- Gripping Force & position control
- Compact design
- Plug & Play
- Drop object detection
- End-of-arm port connection
- Designed for harsh environment
- Possibility for fingertips customization

Robot accessories



NRS-6 Series

Force Torque Sensor

Need higher precision and accuracy? Combined with our software a Force Torque Sensor brings application reliability to the next level



NFS-D Series

Flexible Spindle Mount

Protect your spindles from high contact forces with a flexible spindle mount.

The patented flexible spindle mount with rotational and angular compensation provides the necessary flexibility to ensure perfect contact between spindle and part. The flexible spindle mount compensates for potential misalignment and has a regulative stiffness by adjusting the supplied pressure.



NTC-E10

Flexible Tool changer

Increase your cobot's flexibility, efficiency, and productivity with a magnetic tool changer!

The NTC-E10 is a precise magnetic tool changer with an optional I/O coupling module. The patented design uses electromagnetism which discards the need for pneumatic equipment.

Lead Robotics is a partnership between Sealing System A/S and Nordbo Robotics, selling collaborative robots primarily from the AUBO brand, which we sell throughout Scandinavia.

We sell robots as well as grippers, tools and accessories to distributors and OEM companies, as well as provide support, training and service.



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SEALING SYSTEM
INTELLIGENT PACKAGING SOLUTIONS

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