Modular
Industrial Robots

Radically rethinking
industrial work

The best combination of proprietary hardware, software, and integration.

Modular Robco hardware kit allows mass customization with easy deployment. Due to the modularity, Robco offers solutions for a variety of applications, allowing you to automate various work steps in your production, increasing efficiency and supporting employees.

Robco robots don't take up a lot of space and can be easily integrated into your existing production.
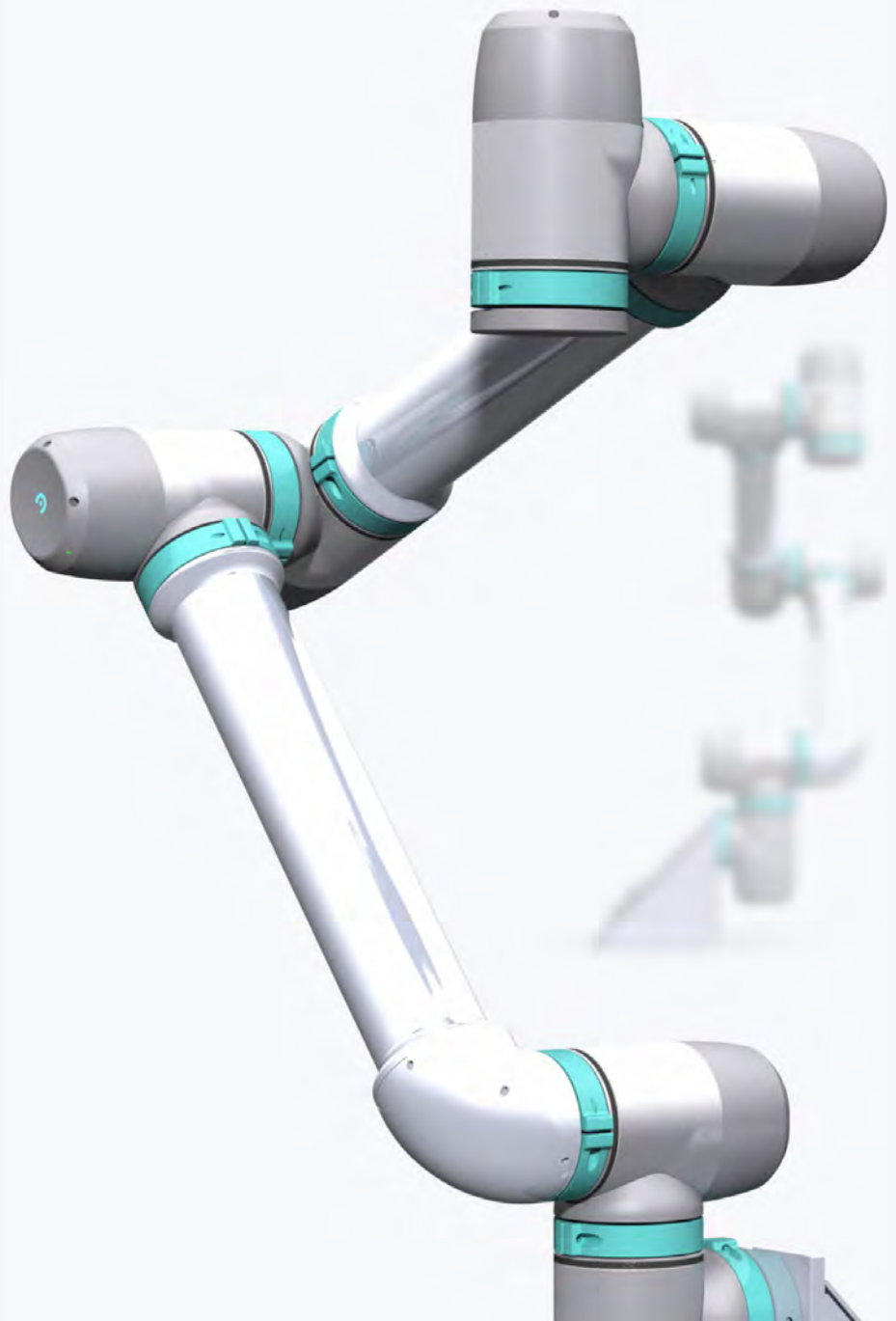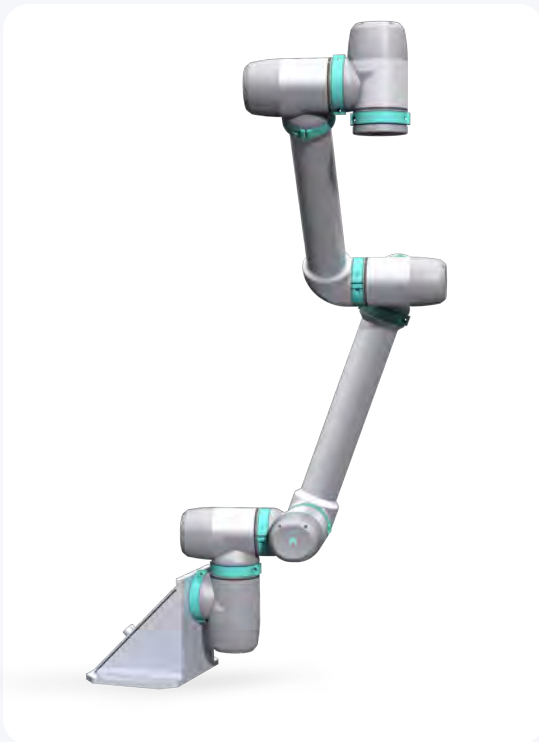
Flexible

Connected

Affordable

ROBCO

Little Klaus
R001-A5-K4

Robco modular 5-axis industrial robot-001 is a lightweight industrial robot, which impresses with its modularity, with which the robot can be perfectly adapted to all needs.

The Robco 5-axis robot can be used in all industrial applications and, with a reach of 1000mm and max. payload of 4kg, is particularly suitable for machine loading, quality control, or dispensing. The robot is intuitively programmable with the Robflow no-code software and ready for use in a short time.

Deploy automation fast & easy

- 5x faster integration
- Adaptable
- Cost efficient
- Digital animation and testing
- Remote control & predictive maintenance
- IoTizing legacy machinary

MACHINE TENDING   QUALITY CONTROL   DISPENSING

PAYLOAD	REACH	DOF
4 kg	1000 mm	5

DRIVER

3X D-86 (M)   2X D-116 (L)

LINK

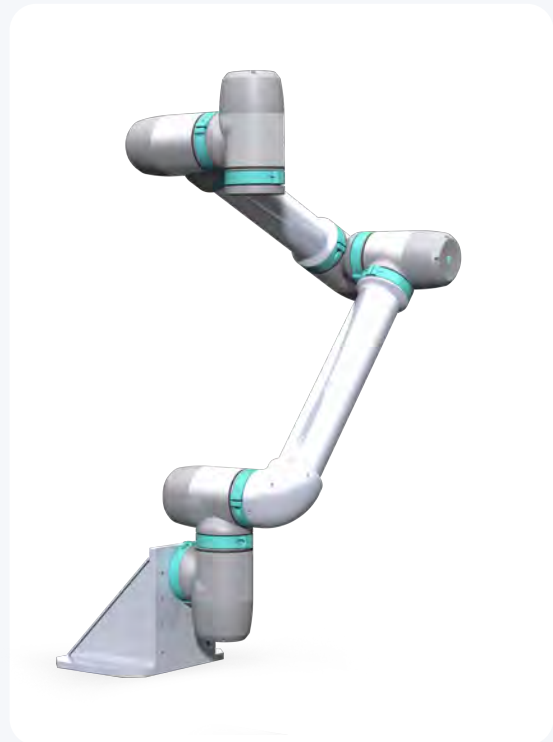L-116-440   L-116-500

BASE

B-116-90

Practical Peter
R002-A5-K6

Robco modular 5-axis industrial robot-002 is a lightweight industrial robot, which impresses with its modularity, with which the robot can be perfectly adapted to all needs.

The Robco 5-axis robot can be used in all industrial applications and, with a reach of 1000mm and max. payload of 6kg, is particularly suitable for machine loading, quality control, or dispensing. The robot is intuitively programmable with the Robflow no-code software and ready for use in a short time.

MACHINE TENDING **QUALITY CONTROL** **DISPENSING**

PAYLOAD	REACH	DOF
6 kg	1000 mm	5

DRIVER

3X D-86 (M)   2X D-116 (L)

LINK

L-116-400   L-116-500

BASE

B-116-90
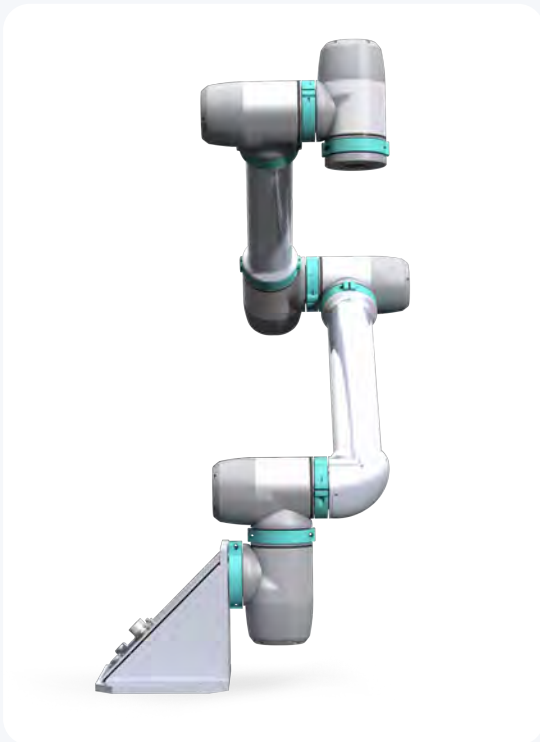
Deploy automation fast & easy

- 5x faster integration

- Adaptable

- Cost efficient

- Digital animation and testing

- Remote control & predictive maintenance

- IoTizing legacy machinary

Dynamic Daniel
R003-A5-K10

Robco modular 5-axis industrial robot-003 is a lightweight industrial robot, which impresses with its modularity, through which the robot can be perfectly adapted to all needs.

The Robco 5-axis robot can be used in all industrial applications and, with a reach of 1300mm and max. payload of 9.5kg, is particularly suitable for machine tending or palletizing tasks. The robot is intuitively programmable with the Robflow no-code software and ready for use in a short time.

Deploy automation fast & easy

- 5x faster integration

- Adaptable

- Cost efficient

- Digital animation and testing

- Remote control & predictive maintenance

- IoTizing legacy machinary

PALLETIZING

MACHINE TENDING

PAYLOAD	REACH	DOF
9.5 kg	1300 mm	5

DRIVER

2X D-86 (M)	D-116 (L)	2X D-148 (XL)

LINK

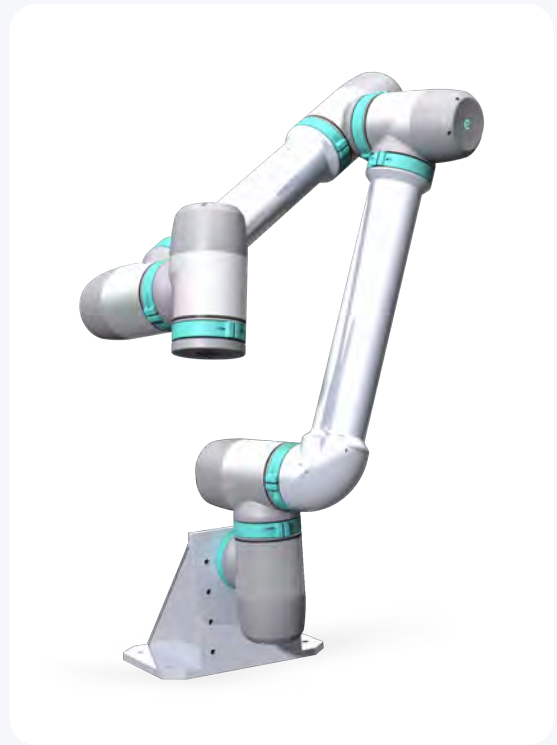| L-116-650	L-148-670

BASE

B-148-90

Smart Ferdi
R004-A6-K5

Robco modular 6-axis industrial robot-004 is a lightweight industrial robot and impresses with its modularity with which the robot can be perfectly adapted to all needs.

The Robco 6-axis robot can be used in all industrial applications and, with a reach of 800mm and max. payload of 5kg, is particularly suitable for machine loading, quality control, or dispensing. The robot is intuitively programmable with the Robflow no-code software and ready for use in a short time.

MACHINE TENDING	QUALITY CONTROL	DISPENSING

PAYLOAD	REACH	DOF
5 kg	800 mm	6

DRIVER

4X D-86 (M)	2X D-116 (L)

LINK

I-86-300	L-116-350

BASE

B-116-90

Deploy automation fast & easy

- 5x faster integration

- Adaptable

- Cost efficient

- Digital animation and testing

- Remote control & predictive maintenance

- IoTizing legacy machinary

ROBCO

Light Leo
R005-A6-K3

Robco modular 6-axis industrial robot-005 is a lightweight industrial robot and impresses with its modularity, which allows the robot to be perfectly adapted to all needs.

The Robco 6-axis robot can be used in all industrial applications and, with a reach of 1000mm and max. payload of 3kg, is particularly suitable for machine feeding, quality control, or dispensing. The robot is intuitively programmable with the Robflow no-code software and ready for use in a short time.

Deploy automation fast & easy

- 5x faster integration

- Adaptable

- Cost efficient

- Digital animation and testing

- Remote control & predictive maintenance

- IoTizing legacy machinary

MACHINE TENDING	QUALITY CONTROL	DISPENSING

PAYLOAD	REACH	DOF
3 kg	1000 mm	6

DRIVER

4X D-86 (M)   2X D-116 (L)

LINK

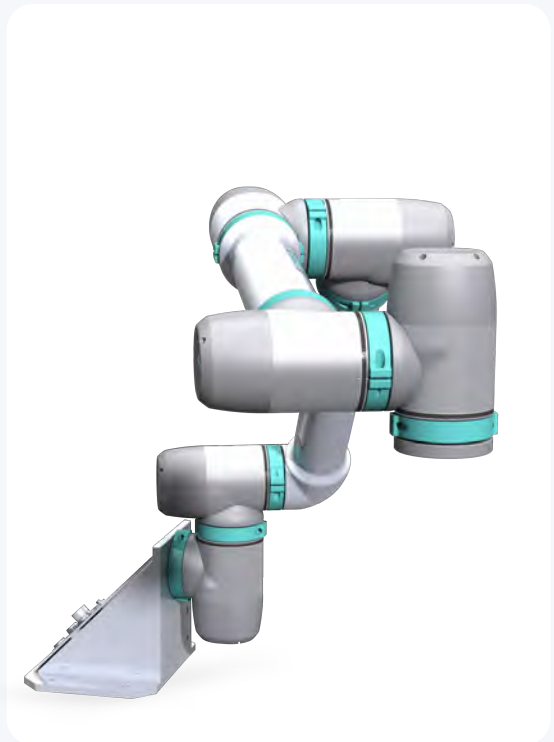I-86-400   L-116-500

BASE

B-116-90

Strong Sepp
R006-A6-K9

Robco modular 6-axis industrial robot 006 is a lightweight industrial robot and impresses with its modularity, which allows the robot to be perfectly adapted to all needs.

The Robco 6-axis robot can be used in all industrial applications and, with a reach of 1300mm and max. payload of 8.5kg, is particularly suitable for palletizing and machine tending tasks. The robot is intuitively programmable with the Robflow no-code software and ready for use in a short time.

PALLETIZING   **MACHINE TENDING**

PAYLOAD	REACH	DOF
8.5 kg	1300 mm	6

DRIVER

2X D-86 (M)   2X D-116 (L)   2X D-148 (XL)

LINK

I-116-600   L-148-670

BASE

B-148-90

Deploy automation fast & easy

- 5x faster integration
- Adaptable
- Cost efficient
- Digital animation and testing
- Remote control & predictive maintenance
- IoTizing legacy machinary

Software Features

Automation Guide

Best robot setup based on client centric, easy to use automation guide

Configuration

Virtual training based on lidar scan of real production environment

Dashboard & Control

Cloud-based analytics and interfaces with true IoT connectivity

Robflow Intuitive Software

No-code software allowing to self-deploy and make adjustments anytime

Service Package Selection

ROBCO

Starter Kit offers basic services and software access

- Safety & Certification
- Basic service (via remote access)
- Robco platform training
- Remote support for installation & commissioning
- Basic software updates
- 1 module change per year

S
M
L

Advanced Kit offers substantial service and software features

- Safety & Certification
- Advanced service (via remote access)
- Robco platform training
- Robco platform (teaching, monitoring & analytics)
- Remote support for installation & commissioning
- Advanced feature software updates
- 2 module changes per year

S
M
L

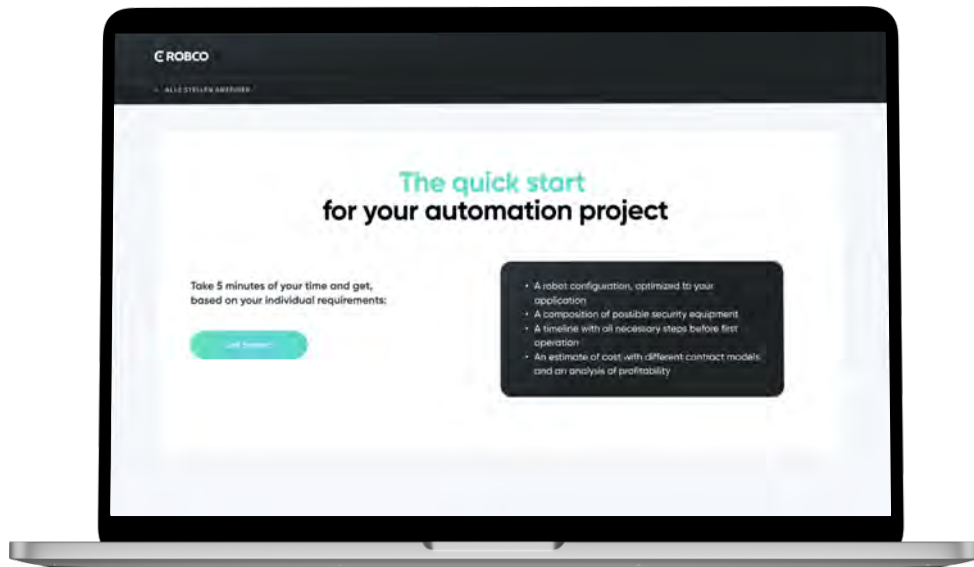**Expert Kit** offers premium service and software features

- Safety & Certification
- Premium service (via remote access)
- Robco platform training
- Robco platform (teaching, monitoring & analytics)
- Remote support for installation & commissioning
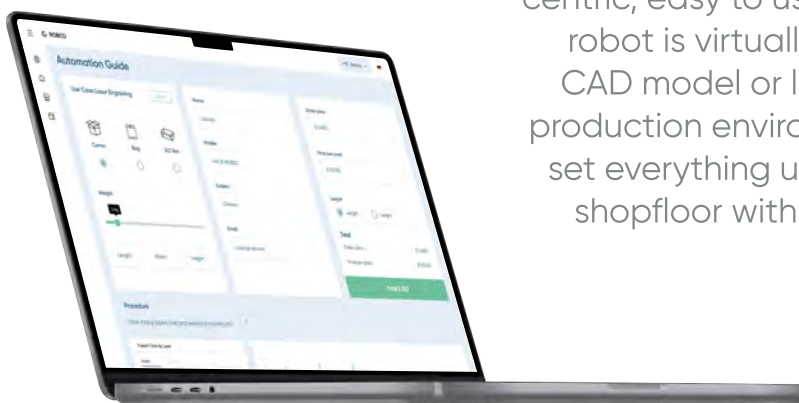- Premium feature software updates
- 4 module changes per year

S
M
L

Automation Guide to find the best robot setup based on your needs

Robco's Automation Guide proposes the best robot setup based on a client centric, easy to use guide. Your future-robot is virtually trained based on a CAD model or lidar scan of your real production environment. We therefore set everything up for success on your shopfloor with Robco's end-to-end turnkey solution.

Start configuring now

Technical Details

Robot Configurations

Degrees of Freedom	1 to 8
Payload	up to 20kg
Range	200 – 2000mm
Repeatability	± 0,1mm
Max. Velocity	180°/s or 2m/s; depending on modules
Working Area	± 270°
Base Area	191mm x 175mm; mountable horizontal, vertical or overhead
Power Consumption	ca. 250W nominally; depending on modules
Noise Level	Comparatively silent
Material	Aluminium, Polypropylene
Ambient Temperature	0°C to 50°C
Compliance EN ISO	10218-1; EN ISO 13849-1, PL d, Cat. 3

Control Unit

Dimensions	L 400mm, W 200mm, H 300mm
Operating Voltage	100-240V AC / 50-60Hz; alternatively 48V DC
Protection Class	IP 54
Interfaces	8x Digital I/O, IO-Link, EtherCAT, Ethernet, Modbus TCP
Communication	EtherCAT, RJ45-Socket
Programming	Intuitive graphical user interface in web browser or on 12" control panel with mounting device, MATLAB or Robco-ROS

Technical Details

Driver Modules

	M (D86)	L (D116)	XL (D148)
Diameter	86 mm	116 mm	148 mm
Nominal Torque	29.7 Nm	55 Nm	120 Nm
Max. Torque	70 Nm	178 Nm	374 Nm
Nominal Power	131 W	141 W	165 W
Max. Velocity	230°/s	180°/s	180°/s
Protection Class	IP 54		

Link Modules

Diameter	86 mm	116 mm	148 mm
I-Type Lengths (mm)	200, 300, 400	300, 450, 600, 750	400, 600, 800
L-Type Lengths (mm)	240, 340, 440	350, 500, 650, 800	470, 670, 870
Available Shapes	Straight links (e.g. I86-300 for straight link with 86mm diameter and 300mm length) and angled links (e.g. L148-870 for angled link with 148mm diameter and 70mm length)		
Protection Class	IP 54		

Your Expert Team

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ROBCO

Schedule a meeting

Robco, Robots made in Germany, created by an international team.

Our vision is to radically rethink industrial work – by diminishing tedious tasks and boosting productivity to free up time for human creativity.

Robco provides adaptable, affordable and connected full-stack robot automation solutions for repetitive manual worker tasks in industrial SMBs, based on our patented modular hardware kit and Robco Studio software platform.

ⓒ ROBCO

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