

# QIROX

**PL series:**  
The power pack

**CLOOS**

Weld your way.



## PL series: The power pack

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## Automated welding and cutting with system

QIROX comprises all solutions for automated welding and cutting. Due to its modular design, the QIROX system allows scalable solutions which can perfectly match your production requirements. The QIROX system includes the robot technology, positioners,

safety technology, software, sensors and the interface to the process technology. It is supplemented by a comprehensive accessories program and matching services.



## International top class

The robot is the central element in the QIROX solution package. You benefit in particular from the modular design of the entire mechanics. All components of the robot, from the robot base to the wrist, are perfectly matched to each other. By using different component groups, you get a customised welding robot for every production requirement. With our four robot series for different applications, optimal solutions can be realised for the most diverse welding

processes and production environments. Depending on your requirements, you can choose between a robot with a classic or a hollow shaft wrist. The robot is supplemented by a variety of different positioners. These expand the working area of the robot and bring the workpieces into an optimal processing position.

**Flexibility:** Modular design for tailor-made systems, perfectly adapted to individual production requirements

**Quality:** Repeatability, long service life and maintenance intervals

**Service:** Global dense service network and high availability of consumables and spare parts

### WS Series

**The entry model:**  
Easy entry into the world of robot welding



### WM Series

**The compact solution:**  
Agile and highly dynamic for short cycle times



### WL Series

**The all-rounder:**  
Flexible application possibilities for individual requirements



### PL Series

**The power pack:**  
Precise and powerful for high payloads and a wide range of applications



## The power pack:

Precise and powerful for high payloads and a wide range of applications

The power packs of the **PL series** are true all-round talents. The robot precisely guides a laser or laser hybrid head. In addition, it takes over handling tasks such as loading the welding robot systems. Grinding and polishing of work-pieces are also among the diverse fields of application of the robots from the PL series.

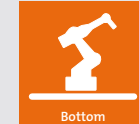
Powerful and precise

A wide variety of application possibilities

Laser welding, handling, grinding and more



### Assembly



### Processes



## Advantages: QIROX QRC-30/45/60-PL robot

### Overview of all benefits

**Mechanical interface on axis body 3:**

Attachment of tools, media boxes, wire drive units up to 40 kg

**Modular design:**

Retrofits possible at any time

**Use of carbon components:**

Maximum dynamics with low weight and high stiffness

**Manual axes free from backlash:**

Very high repeatability independent of the payload

**Standard flange at the robot wrist:**

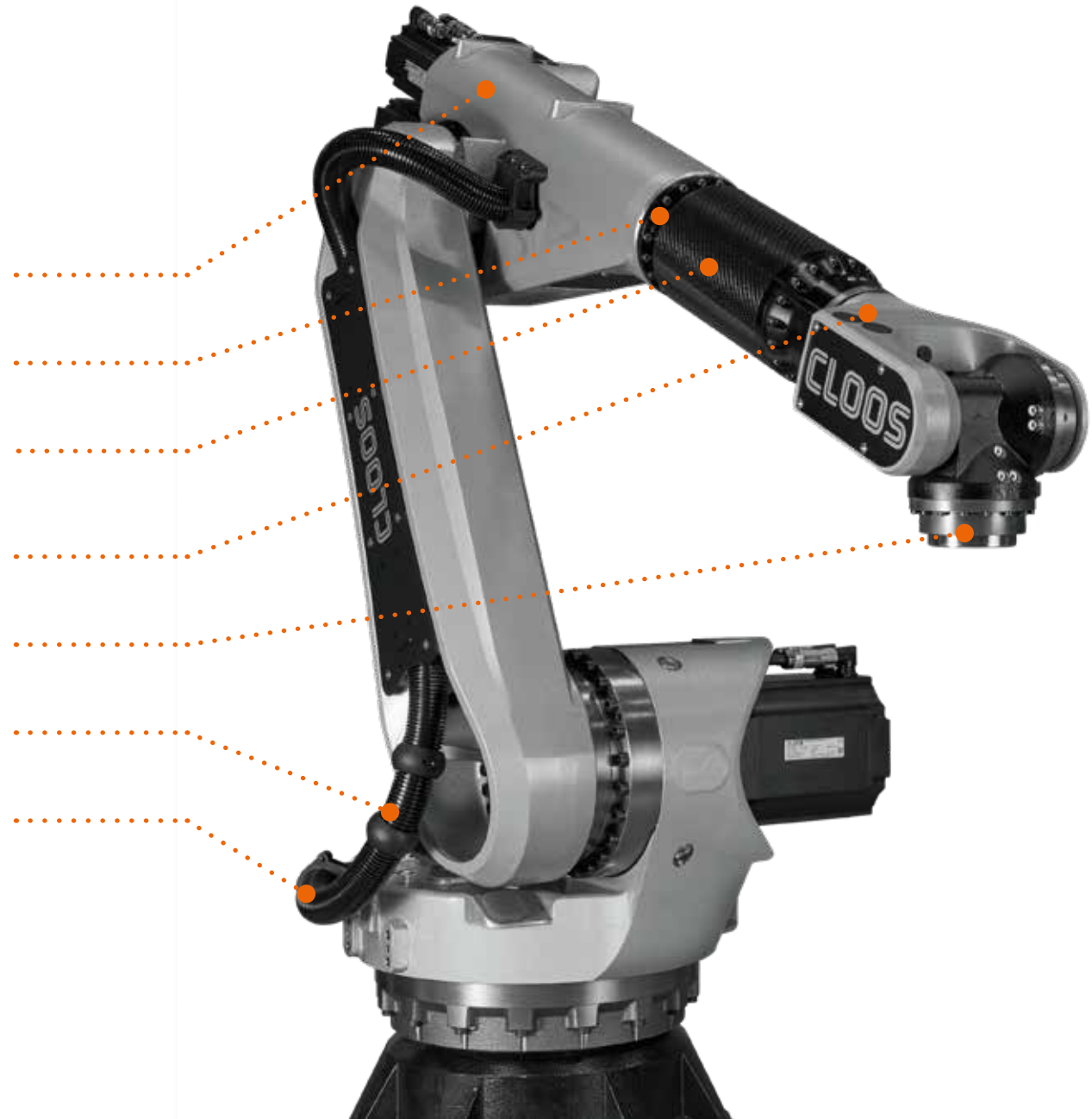
Use with all common tools

**Externally guided cable loom:**

Quick repair in case of service by means of Plug & Play

**Integrated media supply system:**

Compressed air, signal and data lines



# Enhancement of the application range

due to a tool changing system



Tandem Weld with DuoDrive, sensors and tool changing system



Laser Hybrid Weld



Laser cutting



Automated grinding and polishing



Versatile handling tasks





## Application examples

### QRC-PL-60

Grinding and polishing of battery covers at Kohl & Sohn



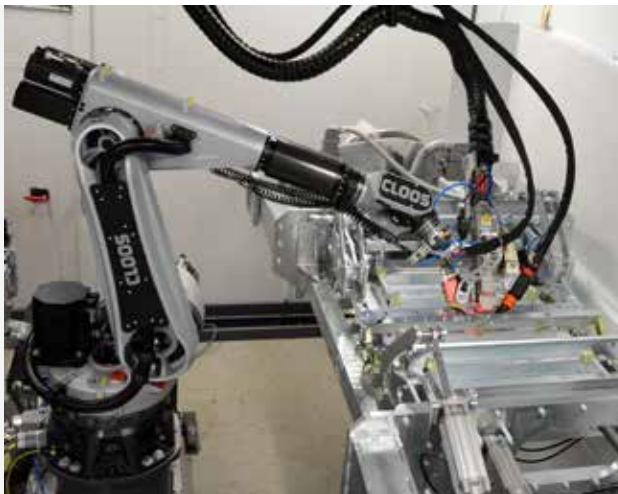
### QRC-PL-30

Grinding of cabins for construction machines



### QRC-PL-30

Laser Hybrid Weld Battery box



## The power pack:

Precise and powerful for high payloads and a wide range of applications

### Assembly

### Process

	Floor	Slope	Wall	Ceiling	MIG/MAG	MIG/MAG QN-RF-Duo*	MIG/MAG Tandem	MIG/MAG Tandem QN-RF-Duo**	TIG	TIG QN-WD-RF-Mono*	Plasma and oxyacetylene cutting	Laser cutting	Laser welding	Laser hybrid welding	Grinding and polishing	Handling
<b>QIROX QRC-30-PL</b> 6-axis robot mechanics with classic wrist, 30 kg payload at the wrist and 4,200 mm working envelope	X			X								X	X	X	X	X
<b>QIROX QRC-45-PL</b> 6-axis robot mechanics with classic wrist, 45 kg payload at the wrist and 3,900 mm working envelope	X			X								X	X	X	X	X
<b>QIROX QRC-60-PL</b> 6-axis robot mechanics with classic wrist, 60 kg payload at the wrist and 3,600 mm working envelope	X			X								X	X	X	X	X

X Series

O Option

\* Additional wire drive, mounted on the robot wrist

\*\* Wire drive, mounted on the robot wrist



## Standard equipment / options

### QRC-30/45/60-PL standard design



#### Forklift pockets with crane eyes

Transport the robot mechanics safely and easily!



#### Integrated media supply system

Achieve maximum service life with the wear-resistant media supply system through the robot body!



#### Media box

Benefit from the close-to-tool interface of the internal media supply system in the third axis body!

### QRC-30/45/60-PL options



#### Changing tool

Combine different processes on one robot!



#### Standard gripper

Equip the robot with a standard gripper for various applications!



#### Protective shell

Protect the robot mechanics from dust and aggressive influences in the application environment!

# The way ...

## Consulting

With this comprehensive “pre-service”, we take care of your project from the beginning and transfer our integrated process expertise to your component..

## Planning

We elaborate a solution which perfectly meets your individual requirements.

## Design

Due to the modular design of our product series we develop customised solutions which meet all your production requirements.

## Production

Welding machine and robot technology is our strength - including our core competence: the arc.

## Commissioning

Our specialists carry out the installation step-by-step in your production hall and test your system for faultless functionality.

## Training

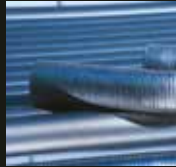
We train your employees and service technicians in programming, operation and maintenance in our modern training centre.

## Service

Our competence team advises you on any extensions, modifications and retrofits of your existing robot and welding systems.

... to your success.

# With CLOOS you weld and cut ...



... all types of metal!



... and profit from many additional services!



... all material thicknesses from 0.5 to 300 mm!



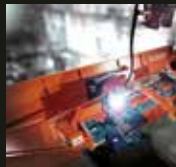
... in all industries!



... with innovative processes!



... all over the world!



... manually or automated, just as you need it!



... to your utter satisfaction!



... efficiently and individually!



... and benefit from more than 100 years of welding experience!



...Single source supply!



# All over the world

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QR4028-QIROX\_Roboterserie-PL-EN  
Subject to technical alterations.

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