

CLOOS

100 $\frac{1919}{2019}$



Pioneers of Welding Technology.
For 100 Years.



Carl Cloos Schweisstechnik GmbH

The Company

CLOOS

Weld your way.

www.cloos.de

A man wearing a welding mask and protective gear stands in a dark, industrial environment. The background is dimly lit, showing some structural elements of a workshop or factory. The overall tone is dark and professional.

Play the video, now.

Weld your way!

CLOOS ... all
from a single source!



For 100 years



1919
Foundation by
entrepreneur-
pioneer Carl Cloos



1956
Development of a
shielded gas
welding machine
with endless wire
electrode



1958
Beginnings of
automated welding



1981
Start of the robot
production



1996
Market introduction
of Tandem Weld



2004
Laser hybrid process
is ready for series
production



2008
QINEO: The new
generation of welding
power sources

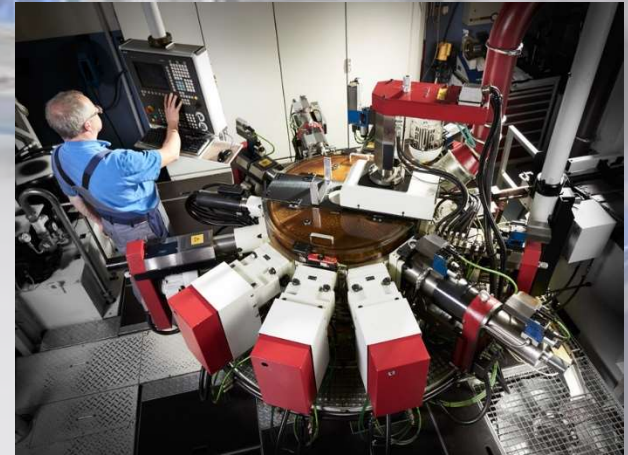


2010
QIROX: The system
for automated
welding and cutting.



2019
Digitalisation:
C-Gate connects
production

Production Welding Products



Production Automation



CLOOS Haiger



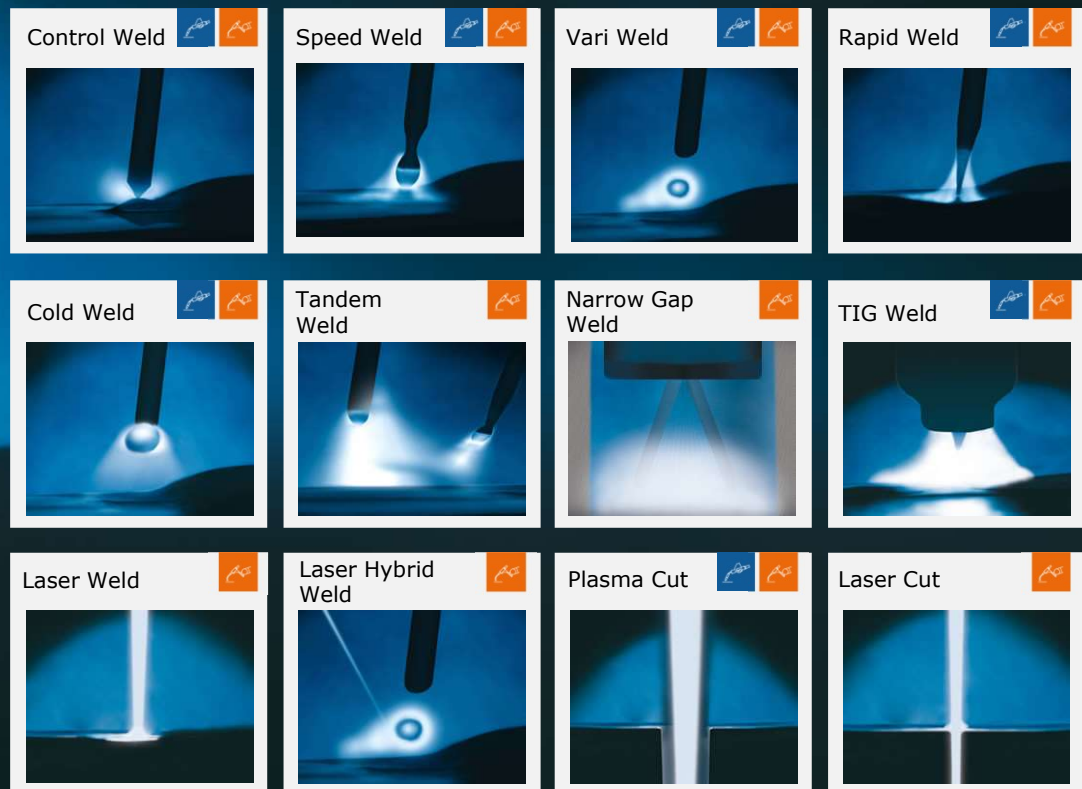
- Family company based in Haiger
- 500 employees at the head offices
- 8 apprenticed professions, Lehre (apprenticeship) Plus and StudiumPlus (studies)
- Extensive know-how and huge vertical integration
- Big network of sales and service partners

All over the world



750 employees
9 production premises
11 subsidiaries
50 sales and service centres

Innovative Processes



Manual welding



qineo®

High-quality welding
machines for manual and
automated applications

All components from a single source

Welding torches

Welding equipment

Consumables

Operating elements

Cooling systems

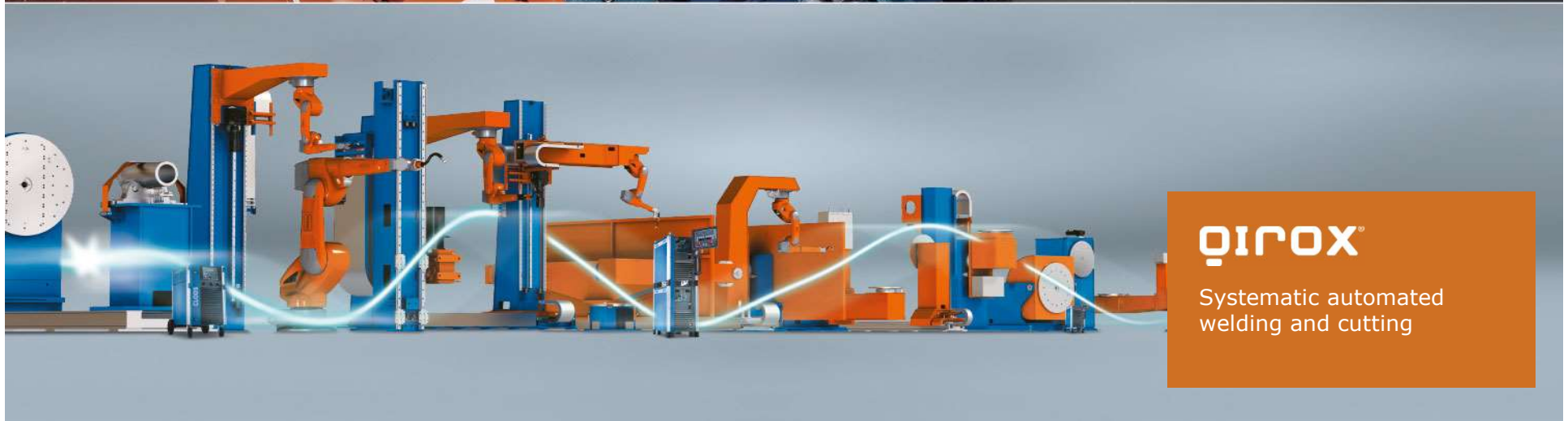
Mobility

Cable assemblies

Wire Feeder



Automated welding

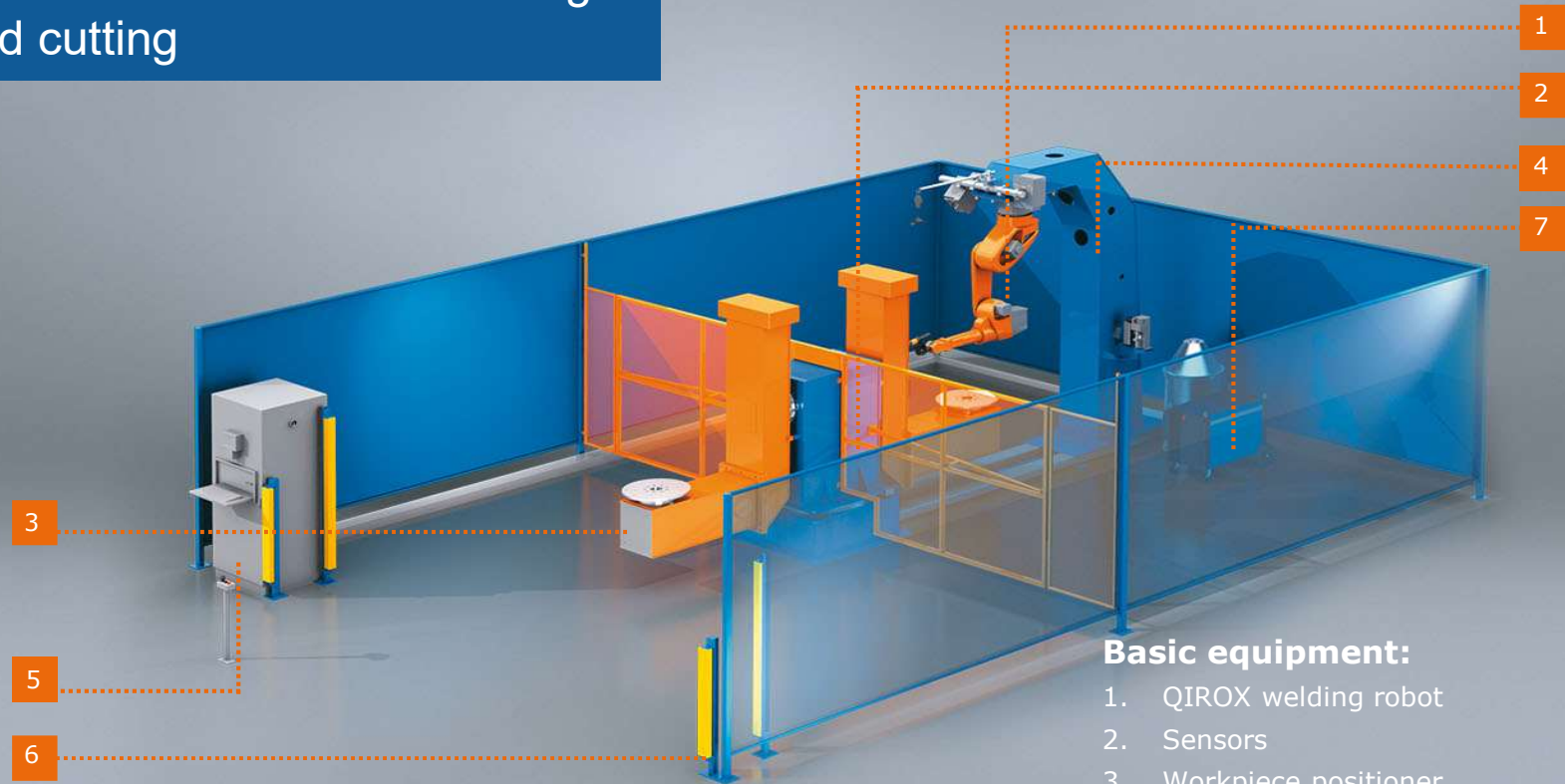


girox®

Systematic automated
welding and cutting

QIROX

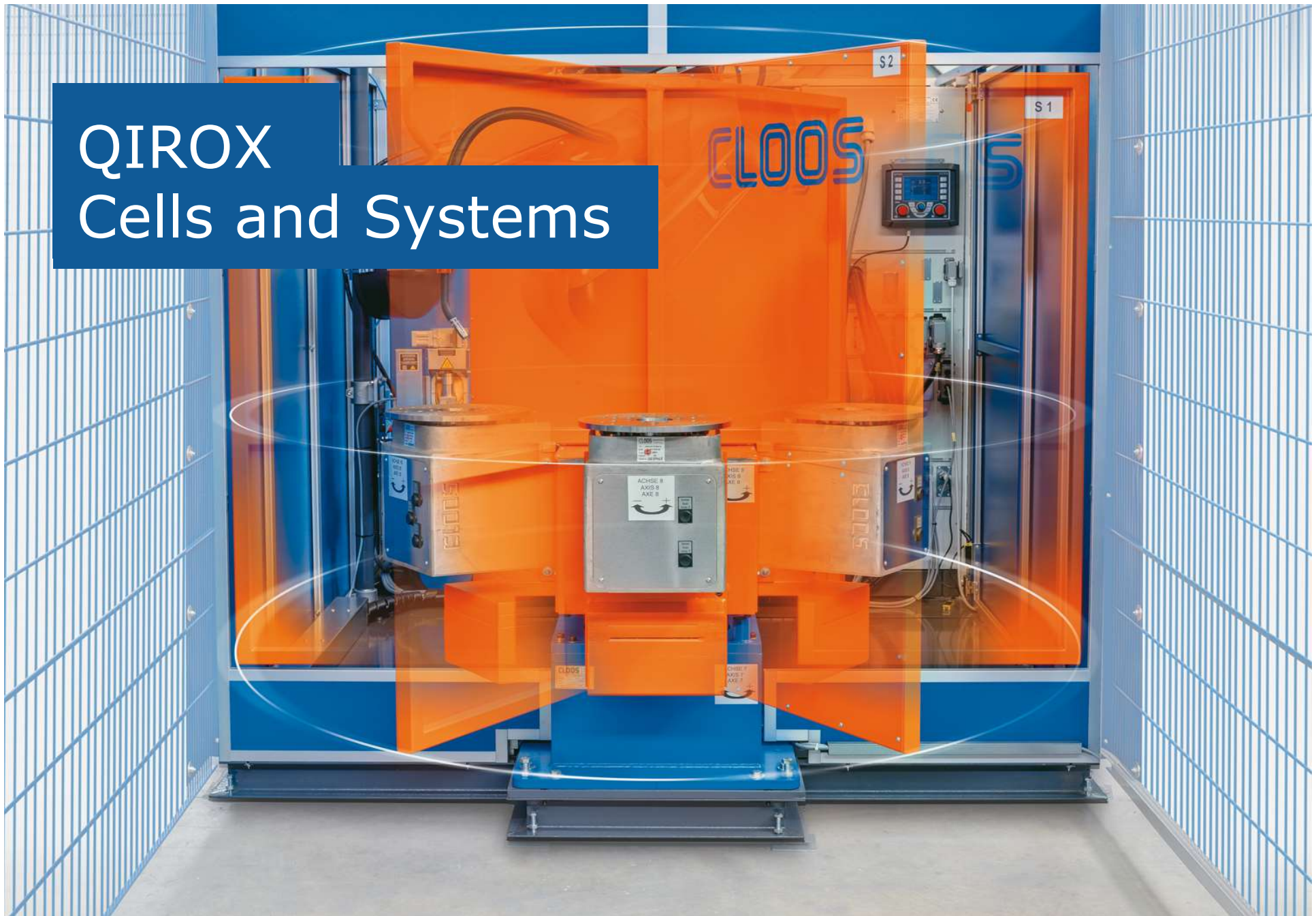
Systematic automated welding
and cutting



Basic equipment:

1. QIROX welding robot
2. Sensors
3. Workpiece positioner
4. Robot positioner
5. QIROX Controller
6. Safety technology
7. QINEO Welding power source

QIROX Cells and Systems



Welding robots of the international top class



QIROX robots



QRH-280
Wrist with hollow shaft



QRC-290
Classic wrist



QRC-320/350/410-H
Classic wrist
High robot base



QRC-320/350/410
Classic wrist



QRH-360/390-H
Wrist with hollow shaft,
high robot base



QRH-360/390
Wrist with hollow shaft



QRC-350/410-E
Classic wrist
with 7th axis



QRH-360/390-E
Wrist with hollow shaft,
with 7th axis

QIROX Controller

Optimum "man-machine" interface



QIROX

QC 2 Controller



Micro



Master



Advanced



QIROX

Quick Weld Programming QWP

- Simple, quick and intuitive operation
- New intuitive operating software
- Considerably facilitated programming
- Effective program correction
- Flexible EXEStep operation
- Supporting code editor (auto-complete, syntax highlighting)

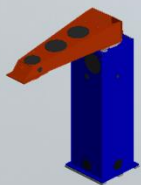
QIROX

Technology Interface QTI

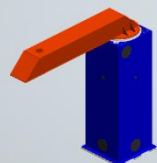
- New technology interface
- Simple programming of all parameters on the teach pendant (PHG)
- Tandem Pro: Automated direction and parameter change
- Programming surface customisable (favourites bar)

QIROX

Robot positioners



QR-CT-200



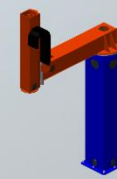
QR-CT-250



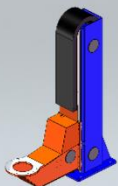
QR-CV-300



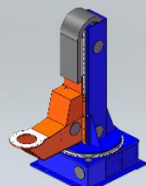
QR-CV



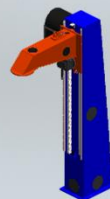
QR-CTV-250



QR-VS



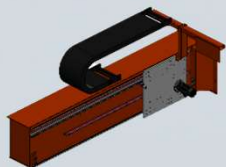
QR-TVS



QR-VO



QR-TVO



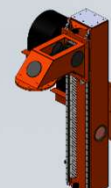
QR-HL



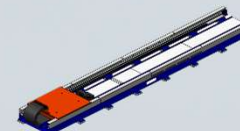
QR-CL



QR-VL



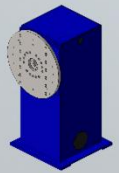
QR-VLO



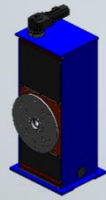
QR-FL

QIROX

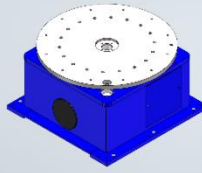
Workpiece positioner



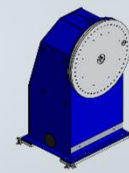
QR-WP-TV



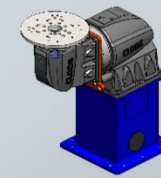
QR-WP-TVV



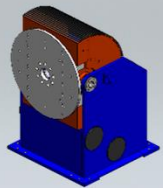
QR-WP-TH



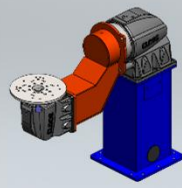
QR-WP-TC



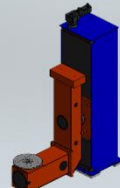
QR-WP-TSH



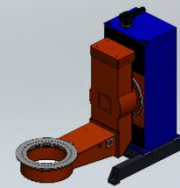
QR-WP-TT



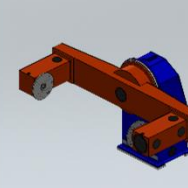
QR-WP-TS



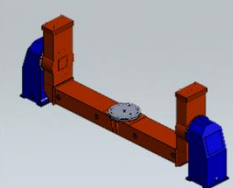
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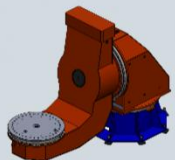
QR-WP-TSV-H



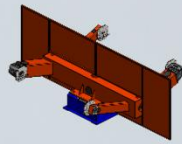
QR-WP-TSC



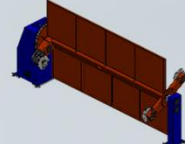
QR-WP-TSF



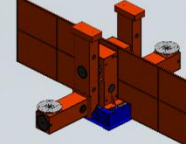
QR-WP-TST



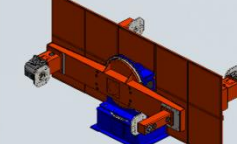
QR-WP-DH-TC



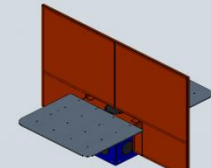
QR-WP-DV-TC



QR-WP-DH-TS



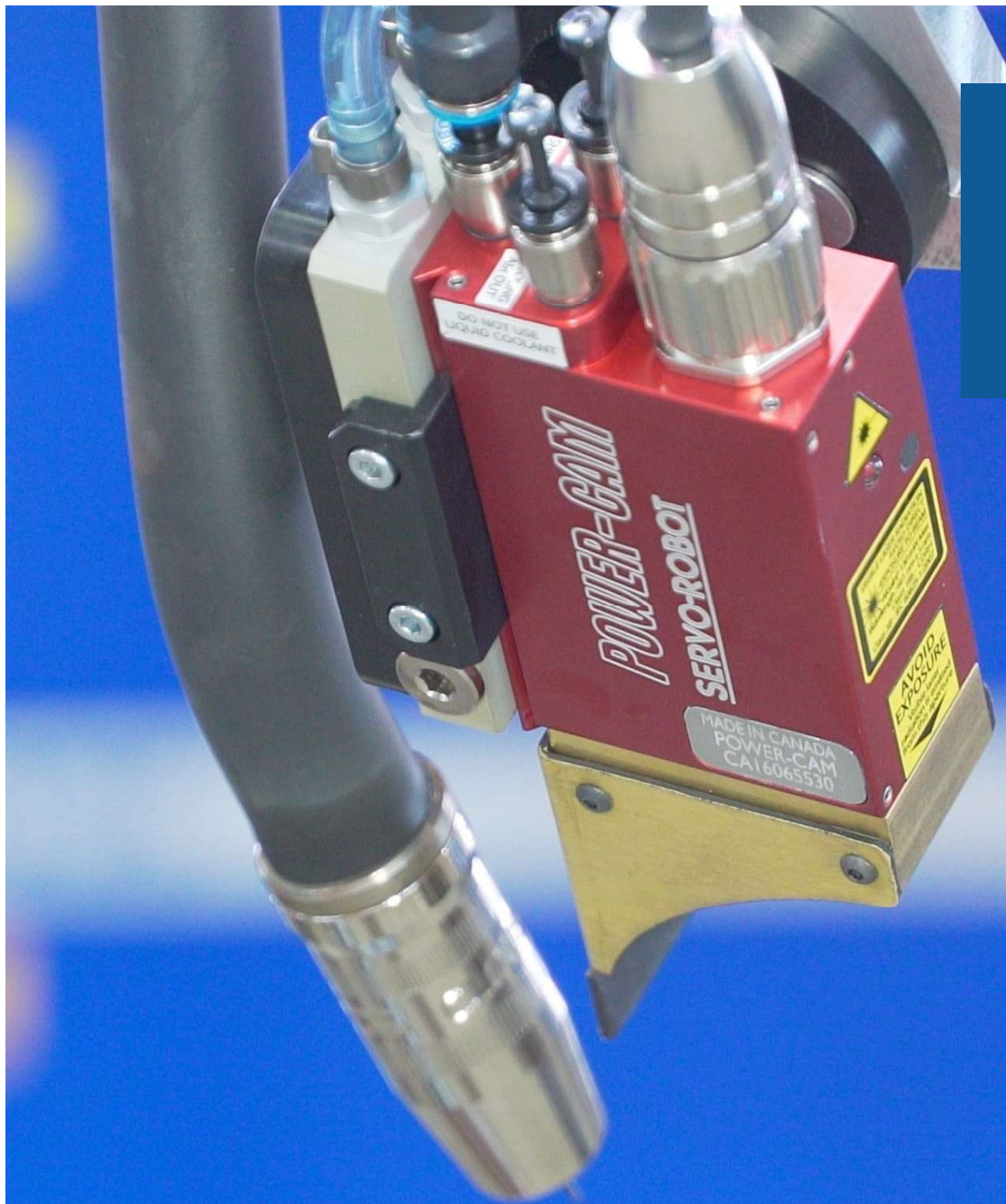
QR-WP-DH-TSC



QR-WP-DH

QIROX Sensors

Best quality at each
weld seam

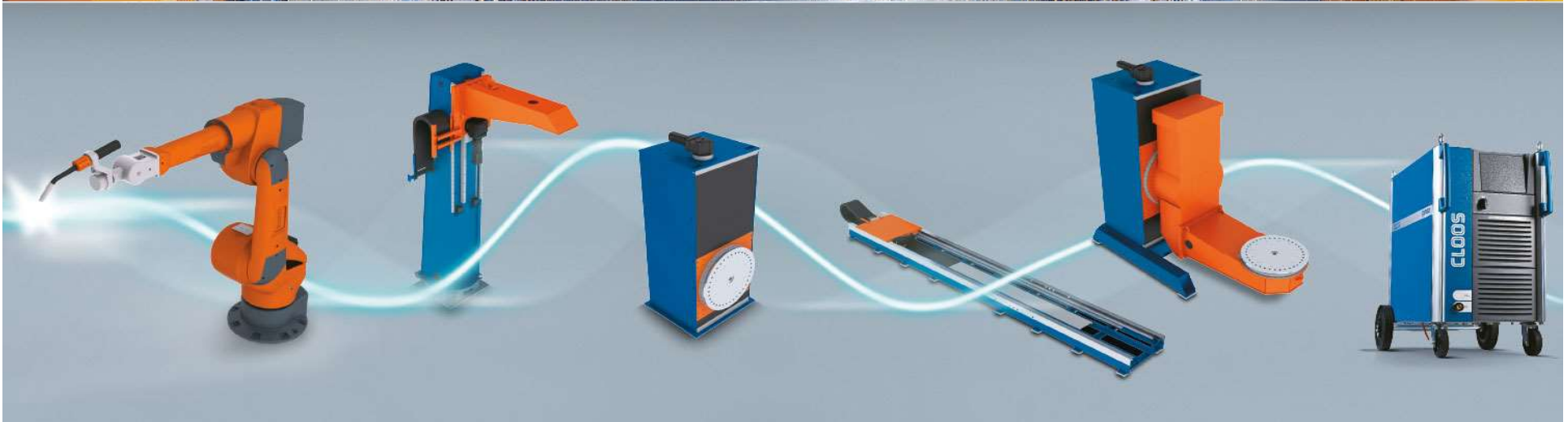


An orange industrial robot arm is shown welding a large, curved metal component, likely a part of a ship's hull. Bright sparks and a blue flame are visible at the welding point. The background is a dark blue with a network of white lines and dots, symbolizing Industry 4.0 connectivity.

Industry 4.0 in welding technology

- Chained systems with automated workpiece identification and loading and unloading processes
- Communication of tool carriers, robots, power sources and master controllers
- New QIROX Controller QC 2 robot controller generation enables the bidirectional data transmission to host computer systems via OPC-UA.
- PC Suite: Development of a complete information and communication tool in order to centrally record and save all incoming and outgoing data and to regulate the access.

Individual solutions





Wide range
of industries

Additional services

1. Consulting



2. Planning



3. Design



4. Production



5. Commissioning



6. Training



7. Service





... to your utter satisfaction!

"Both the staff in Haiger and the representatives of CLOOS in Turkey supported us magnificently right from the beginning. Instead of a standard system, CLOOS delivered us an individual complete solution for our challenging welding tasks."

Ugur Çaglar Memis, Operations Manager,
AKP Otomotiv, Bursa, Turkey

"We benefit a great deal on the expertise and experience of our partner. CLOOS supplies all the technologies we need from a single source."

Peter Baumgarten, Welding Automation,
AGCO GmbH, Asbach-Baerumenheim

"We are very happy to have found a manufacturer in CLOOS that offers robotics, power sources, welding technology and software from a single source," says Kallsen.

Kai Kallsen, Welding Supervisor,
LTI-Metalltechnik GmbH

"By changing from manual to automated welding we have found a reliable partner in CLOOS. If you want to hunt the biggest animal, you just need the best weapon."

Fu Zu Gang, Managing Director,
Zhengzhou Coal Mining, China

"Our cooperation with CLOOS has been extremely constructive from the start. As long-term partner, CLOOS knows our expectations and requirements very precisely."

Petr Hanzal, Production Manager,
Meiller, Slaný, Czech Republic



The No. 1 for arc welding

CLOOS

Weld your way.

CLOOS

100 $\frac{1919}{2019}$



Pioneers of Welding Technology.
For 100 Years.