

QCD[®]

QUICK CHANGE DESIGN

Inspecting in a time-saving manner



QCD[®] - QUICK CHANGE DESIGN

The components of the scalable and user-friendly ROVION[®] pipe inspection system can be combined modularly and individually to a system according to your personal inspection needs. With the iPEK Quick Change Design (QCD[®]) most system components can be easily connected to each other and be put together to a whole system; partially, without the use of any additional tools or only in a few easy steps. The QCD[®] and each of the pressure tight encapsulated system components guarantee an uncomplicated connection of the system, a short set-up time and a user-friendly service. Therefore, you save time and money through an efficient inspection with the ROVION[®] system.

All advantages of the ROVION[®] pipe inspection system:

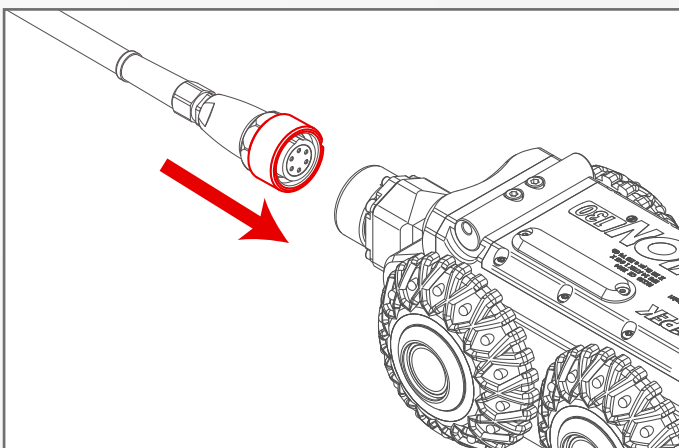
- Time-optimized inspections through shorter set-up times
- Easier and faster change of the system in a few simple steps
- Fewer down times through uncomplicated service
- Risk-free reversing of the crawler due to integrated rear view cameras
- Optimal traction due to ultralight camera cables
- Own reporting software without additional costs for software updates
- Coverage of a large inspection area with only one crawler

QCD[®] - Components

The connection and change of camera heads, power cables, wheels, elevator and additional accessories can be done in a very short time – all toolless with iPEK's special wrench or with only having to open up to a maximum of 2 screw connections.

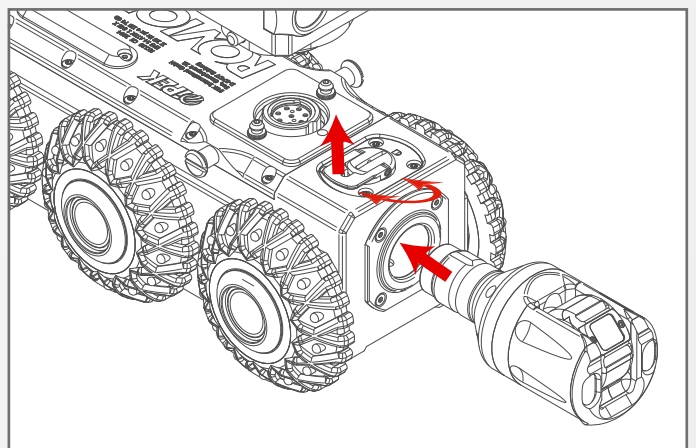
ROVION[®] crawlers:

No tools are needed to connect the crawler to the power cable. Thus, the crawlers can be exchanged easily at any time.



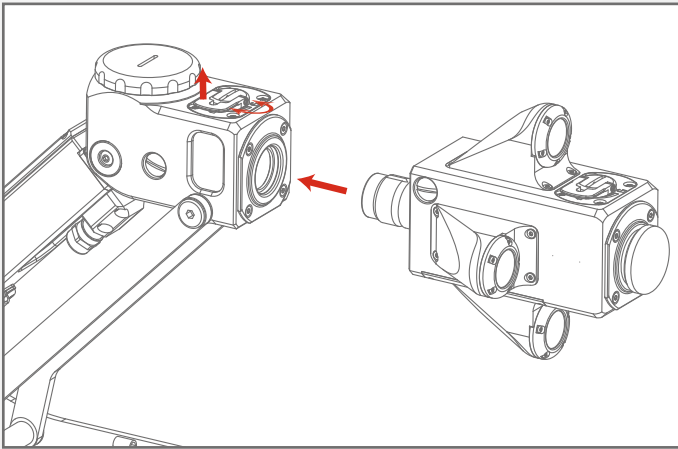
ROVION[®] cameras:

All camera heads can be exchanged in just a few steps, open QCD adapter, turn it, plug in the camera and close QCD adapter



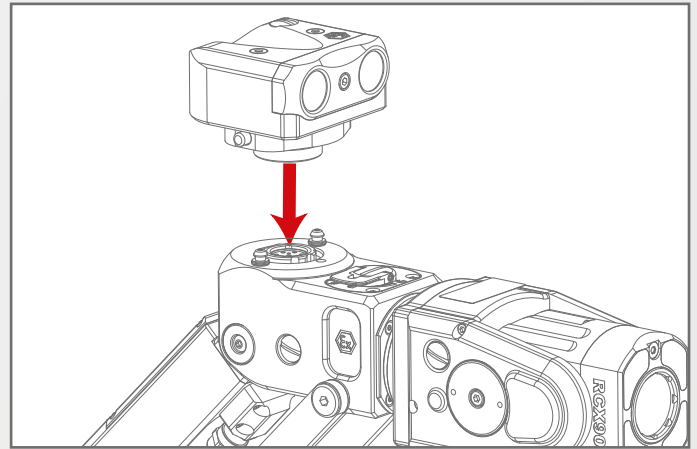
ROVION® auxiliary lights:

The auxiliary lights RAL1000-RCX90 and RAL1000-DSIII are mounted between the elevator's camera connector and the camera and can be fixed with one turn.



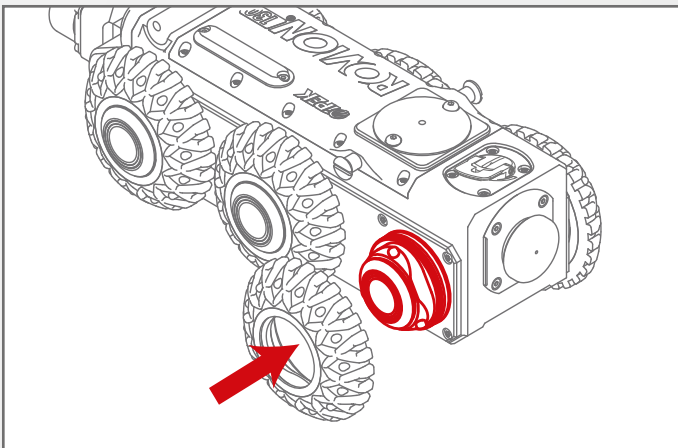
ROVION® auxiliary lights:

The auxiliary lights RAL200 and RAL130 are attached to the elevator and fixed using QCD adapter.



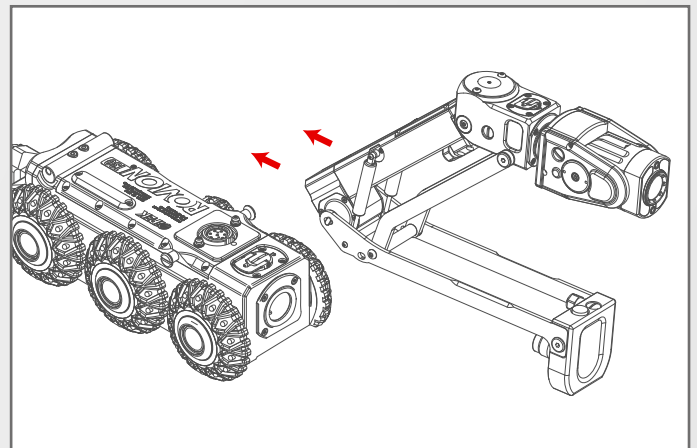
QCD® wheels:

With the patented QCD adapter a toolless wheel change can be performed within seconds – only at the push of a button.



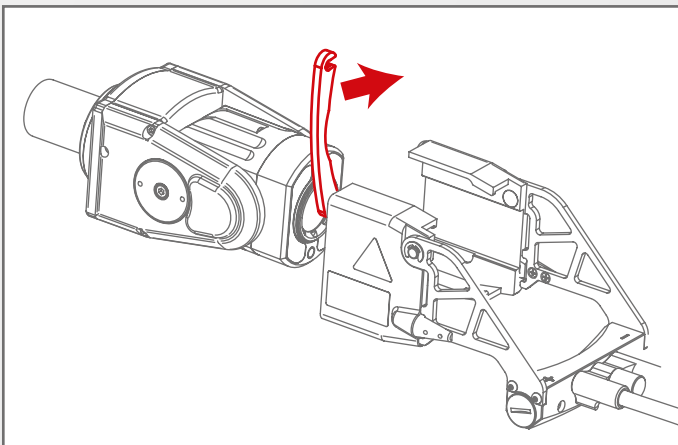
ROVION® elevator:

The elevator is simply slid onto the crawler and fixed using QCD adapter.

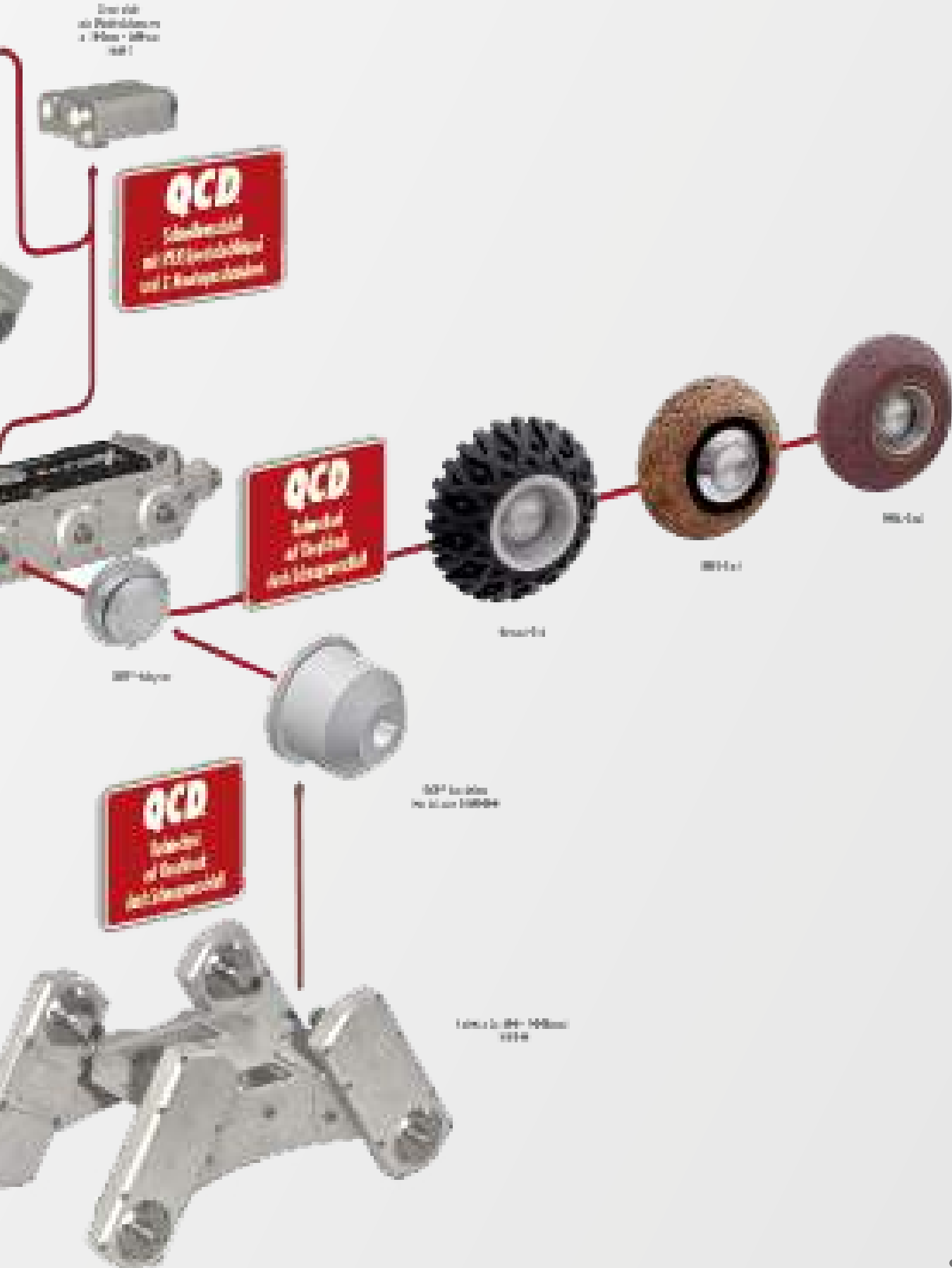


ROVION® laser:

The Laser ShapeScanner LSS RCX90 is slid onto the camera and the screw is fixed with the lever.



Inspecting in a time-saving manner



QCD[®] - WHEELS *inspecting in a time-saving manner!*

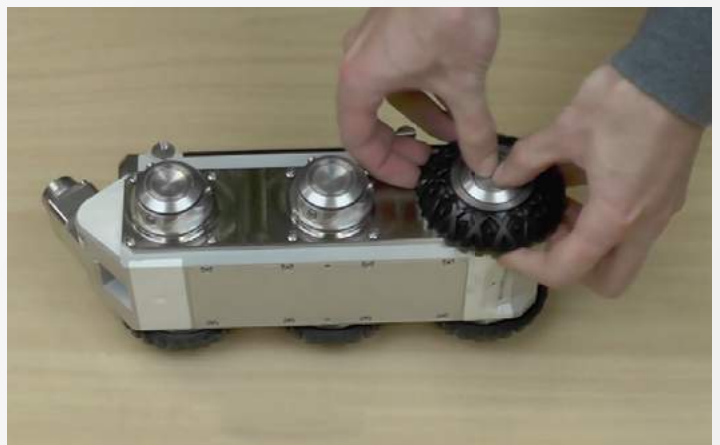
With the patented QCD[®] adapter the new QCD[®] wheels (Quick Change Design) allow a fast and easy wheel change without additional tools. The toolless wheel change reduces the set-up time, increases your efficiency and saves you time and money during an inspection.

The QCD[®] adapter is suitable for all crawlers with an axle diameter of 12 mm and is easy to mount. The wheels are available in three different materials (Rubber, HMS, ELKA) and various wheel sizes. The portfolio of the wheels was extended with the HMS wheel, which is suitable for special use, for example in pipes with an increased ascent or in uncleaned pipes. Choose the wheel material according to the nature of the pipe and the intended purpose – the QCD[®] wheels offer all opportunities that are individually suitable for your special areas of application.

Mounting the QCD[®] Wheels



The innovative QCD[®] adapter can be mounted fast and easily.



The QCD[®] wheels are mounted and dismounted with the patented snap lock.

All advantages at a glance:

Inspecting in a time-saving manner

High daily capacity through fast & efficient inspections.
You save time & money.

Quick and easy setup

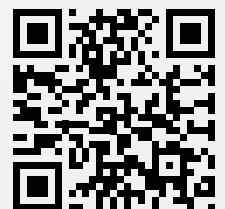
Easy & fast wheel change.
You save up to 90% of set up time & effort.

Hand-on Design

Toolless wheel change.
You save costs & availability of tools.

Detailed instructions on mounting and wheel change of the QCD[®] wheels can be found on our YouTube channel:

[youtube.com/iPEKSpezialTV](https://www.youtube.com/iPEKSpezialTV)



Profile

Increased grip & smoothness

The new innovative wheel profile of the QCD® wheels offers excellent grip and an increased smoothness during inspections. Hence you have a judder-free camera picture which enables a precise detection of damages. Thus, a quick inspection and a high range within the pipe, covering several retention lengths, as well as a high durability are guaranteed!



Customary wheel profile

New wheel profile

Wheel Materials



Rubber wheel



Elka wheel

NEW



HMS wheel

Wheel Design

Ideal operation characteristics in the pipe

The special wheel shape is ideally adjusted to the pipe diameter and the pipe contour and offers a large contact area on the pipe wall. Furthermore, the innovative design of the wheels allows a precise centering of the camera in the pipe.

During the development special attention was paid to wheel diameters being as large as possible and ideal for every pipe diameter in order to achieve the maximum inspection speed.

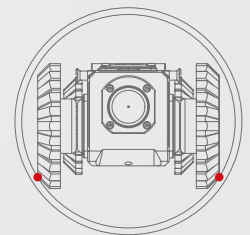
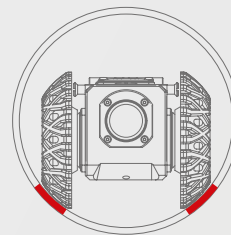
Additional ground clearance guarantees easier overcoming of obstacles and displaced joints.

The QCD® wheels are produced in highest iPEK quality, of course. They are low-wear and non-abrasive and defy the most adverse inspection conditions.

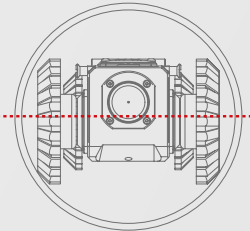
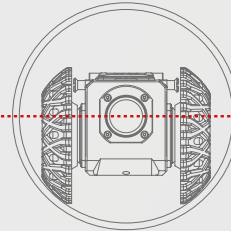
QCD®-wheels

Standard

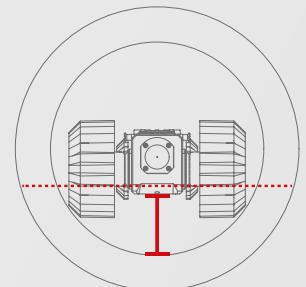
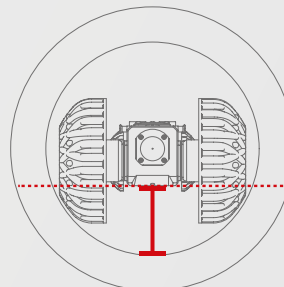
Grip



Centering



Ground clearance



Better centering, grip and ground clearance for the crawler in the pipe



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