

IN A SAFE AND RELIABLE WAY

# UNDER WATER INSPECTIONS WITH A ROV



INSPECTIONS



DIGITAL MEASUREMENT



COST EFFICIENCY



SAFE

## UNDERWATER INSPECTIONS

Underwater measurements taken by a diver lead sometimes to unreliable measurements, unsafe situations and high costs. The remotely operated vehicle is a unique innovation that will lead to reliable data and is much safer.

With the webbased software platform we convert data into information. The software can also optimize images by filtering out turbidity from the water. This gives safe and reliable inspections. From quays and pipes to watertanks and pumping stations. Tecson Inspections will gladly help you further.

## HOW DOES IT WORK?

For example, you want to measure the steel thickness of a quay. The robot then sinks into the water, makes HD images and takes measurements with sensors. We save the data and make data analyzes. There are several sensors on the ROV:

- HD-camera's
- Ultrasonic (wall thickness measurements)
- PEC (Pulsed Eddy Current)-measurements
- Laserpointers (measurements from tear sizes)
- Depth measurement
- Sidescan sonar
- Hammer pulse (hardness measurement)

## BENEFITS

- Safe inspections
- Lower costs
- Reliable measurements
- Reproducible measurements
- Time
- Livestreams

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INSPECTIONS  
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# UNDER WATER INSPECTIONS

## SAFE MEASUREMENT

With the ROV, physical entry of the object is no longer necessary. No danger from ships or chemicals in the water. And no danger for people who have to enter under water spaces, such as pipes or pumping stations

## LOW COST AND CONTINUOUS AVAILABILITY

Ships can continue to sail with a robot in the water. Drying of storage tanks and storage settling tanks is often expensive. With the ROV this is no longer necessary.

## RELIABLE MEASUREMENTS

The ROV is equipped with a camera and sensors. The measurements have a very high accuracy and reproducibility. Moreover, the data is immediately stored in a specially designed software program. This leads to accurate quotations and analyzes.

## REPRODUCIBLE

Measurements that are taken over several years take place at the exact same location. This allows us to apply the principles of predictive maintenance.

## LIVESTREAMING OF DATA

Would you like to watch what happens under water? This is possible! The ROV transmits the data directly to a screen. This allows you to watch and pay extra attention to possible problem areas.

## EFFICIENT INSPECTIONS

The ROV can stay in the water for around 8 hours a day.

## 120 METER DEEP

In addition to superficial quays, we can help with inspecting objects deeper into the sea.

## FROM PORT TO GAS INDUSTRY

The new technology can be used in various sectors:

- Ports
- Scaffolding
- Oil and gas industry
- Dams and dikes
- Energy
- Bridges over water
- Regional water authorities
- Ships

## TECSON INSPECTIONS, PART OF ASSET.INSIGHT.

We operate in the petrochemical industry, the oil and gas industry, the nutrition and pharmaceutical industry, the shipping industry, the energy sector as well as many civil projects. Our inspections include piping, (storage) tanks, welds, industrial installations and rotating equipment. Due to practical limitations and the safety demands placed on visual inspections, we are making more and more use of special inspection methods.



## MORE INFORMATION?

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