



innetiQs

InnetiQs GmbH

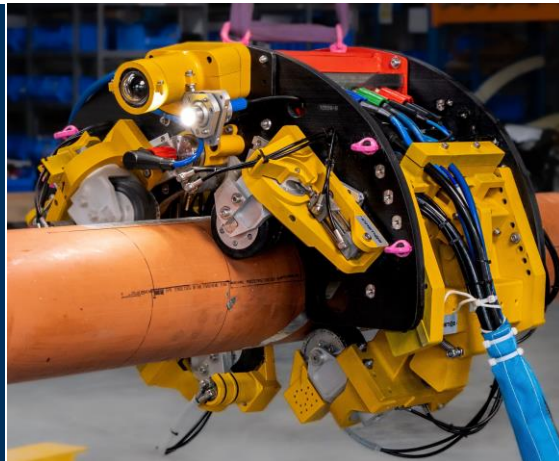
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SOLUTION DEVELOPMENTS



COMPETENCE

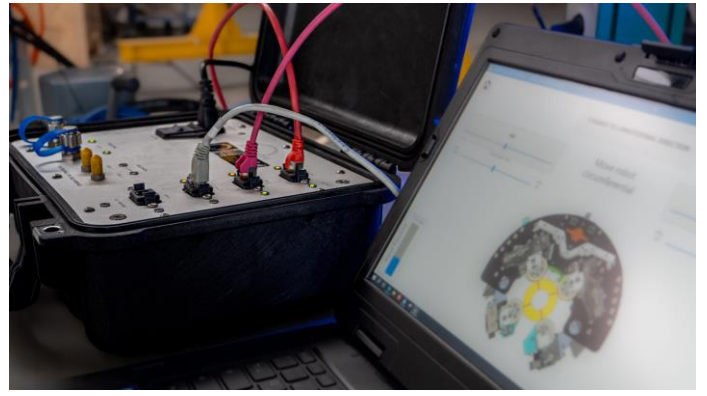
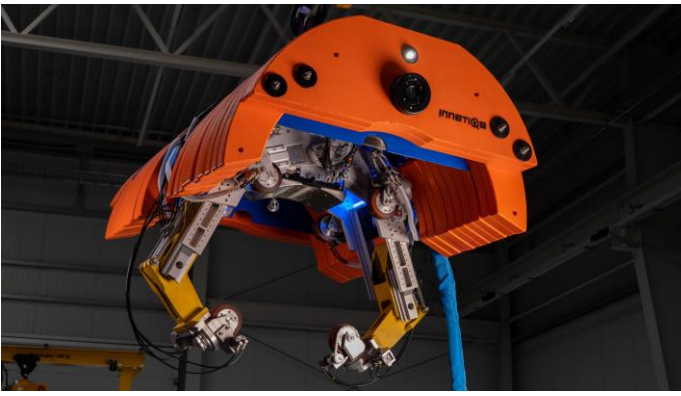
Our core competence is the development of innovative and advanced NDT technologies paired with automated, robotic scanning solutions and field inspection. We offer individual support for a wide range of inspection requirements from deep-sea and splash zone applications to top-side and generally downstream, mid- and upstream.



INSPECTION SERVICES

EQUIPMENT SALES & LICENSE

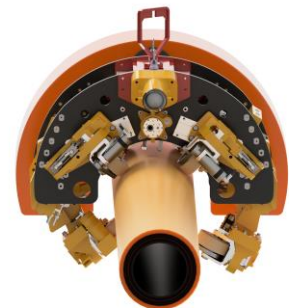




INNETIQS

Inspection Solutions

We develop innovative solutions for non-destructive testing (NDT) and are specialists in the field of electromagnetic testing technologies such as Eddy Current, our specially developed MagControl technology, pulsed Eddy Current and ultrasound-based techniques. With our highly skilled and innovative engineering team, we are able to provide our global customers and partners with advanced inspection technologies and solutions, providing them with meaningful information about asset condition like corrosion, cracks or other damage and also offer an intelligent integrity assessment. Our core competency is the development of innovative and advanced NDT technologies paired with automated, robot-assisted scanning solutions. We have extensive experience in splash zone and deepwater operations as well as NDT solutions for onshore inspections. Our goal is to develop innovative, intelligent, reliable and efficient inspection solutions. The technologies, solutions and services we offer cover a wide range for the inspection of underwater systems, including rigid and flexible risers and underwater pipelines, systems in the splash zone, including caissons, conductors and the structure of fixed oil platforms as well as onshore facilities, including pipes, pipelines and oil storage tanks. We are available to the oil and gas industry worldwide from upstream to downstream as well as to the process and manufacturing industry with inspections for meaningful integrity assessment and thus contribute to quality assurance and the safe operation of the systems.



Innovative,
intelligent and
effective
inspection
solutions

Subsea, on
land & in space



Portfolio of services

Inspection of flexible risers

The complexity of flexible risers requires versatile inspection solutions and extensive know-how in terms of the ability to detect and size defects of various types (cracks, corrosion etc.). InnetiQs offers inspection techniques, systems and the relevant experience to cover the required variety of inspection solutions that can be used to make a remaining service life estimation.

Inspection of subsea pipelines

InnetiQs offers subsea pipeline inspection using a variety of tools as well as subsea scanning systems. The inspection systems are usually installed with the help of remotely operated vehicles (ROVs).

Inspection of rigid riser systems

Due to the prevailing pressure and the integrity requirements of the systems, the inspection of rigid riser systems typically requires the ability to detect even small defects (such as loss of wall thickness, corrosion etc.) on the inside and outside of the pipe.

Inspection of Marine Drill Risers

InnetiQs has developed automated solutions for the inspection of marine drill riser systems. The entire length of the main pipe is scanned as well as the kill, choke and booster lines.

Inspections in the splash zone of offshore systems

System components of rigid offshore platforms located in the splash water area, such as caissons, conductors or the pipes of the platform structure, can be inspected very efficiently with the MagIQ SZ200. The system is attached from the platform structures (top sides) with the help of abseilers. The advanced scanning system includes a high-resolution MagControl sensor carrier, an ultrasonic sensor carrier and an integrated system for comprehensive water jet cleaning for the removal of marine growth. In this way, the device becomes a general-purpose tool and is capable of performing both cleaning and high-resolution inspection.

Internal pipeline inspection with so-called “intelligent pigs” – MagPiQ

The InnetiQs team has developed specialized pipeline testing equipment that performs inspections within the pipeline. Depending on the requirements, they can be used wired or “free-floating” (i.e. with a flow rate). The devices were specially developed for testing pipes that are lined with a stainless steel inner pipe in order to check for loss of wall thickness (e.g. as a result of corrosion/erosion) and crack formation.

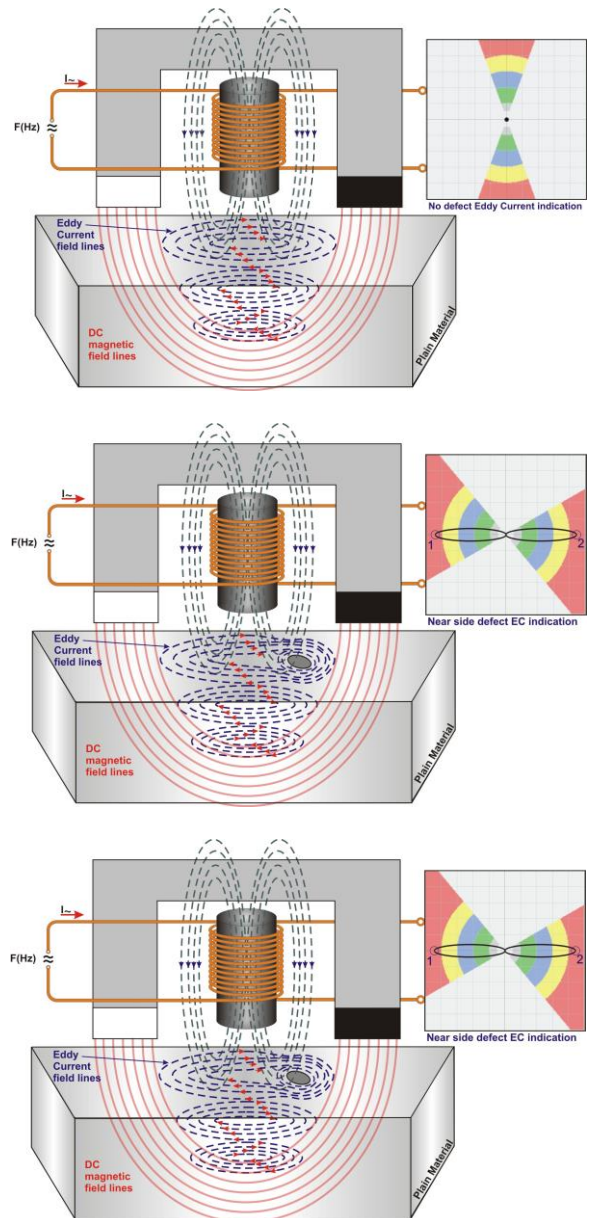
Inspection of storage tanks

With many years of experience and the know-how for inspecting storage tanks, InnetiQs has developed the latest generation of tank bottom scanning systems. It can be operated by one or two people (depending on requirements) and enables quick scanning - even in the area of complex geometries (including on the tank wall) in order to check the tank bottom with high resolution for defects on the top and bottom.

InnetiQs MagControl Technique

The advantages of the MagControl technology used by InnetiQs:

- ✓ The technology makes it possible to distinguish between external and internal defects in the material being tested
- ✓ It is possible to test both through coatings or protections and directly on the material to be tested
- ✓ The type of damage can be detected (e.g. the test data can be used to differentiate between microbiological corrosion, corrosion caused by CO₂ and between corrosion and cracks or their combination)
- ✓ MagControl can also be used with non-ferromagnetic materials
- ✓ The technology enables fast and efficient scanning at speeds of up to one meter per second as well as C-scan mapping of large areas
- ✓ Compared to the older MEC technology, MagControl contains a higher number of more modern sensors, which results in twice the resolution compared to the previous technology



SUBSEA			INTERNAL PIPELINE INSPECTION	EQUIPMENT LICENSE & SALES	ENGINEERING SOLUTIONS
SUBSEA PIPELINES	FLEXIBLE RISER	SPLASH ZONE			
Deep Water robotic systems for coated and uncoated subsea pipeline inspection	Flexible Riser Inspection systems for corrosion-, crack-wire rupture- & annulus flooding detection	Inspection of coated, clad, or plain caissons, conductors, risers and structural legs in harsh environment	Internal inspection of pipe that is difficult to inspect - either tethered or free swimming	Latest advanced electromagnetic inspection systems: storage tank floor scanners, pipe-/vessel scanners for corrosion mapping & crack detection	Bespoke advanced inspection solutions for quality control of inline inspection & specific field inspection requirements
					

InnetiQs worldwide

InnetiQs stands for innovative, intelligent and effective inspection solutions

Whether in the Atlantic Ocean, the North Sea or the Caspian Sea everywhere we are onsite together with our customers and offer them best possible inspection solutions.

InnetiQs GmbH has its headquarters in Stutensee near Karlsruhe in Germany and has many years of experience in technology and tool development, field inspection, data assessment and reporting with the departments of measurement physics (including sensor technology, electromagnetic field modeling, testing technology, FEM), data analysis, mechanical, electronic and software design, assembly/testing, inspection service & support as well as project management.

The InnetiQs team consists of highly qualified and experienced engineers with in-depth knowledge of modern inspection technologies including inspection physics, mechanical, electronics and software design, assembly and testing, project management and in the service area. Though we are still a young company, the entire team works well together to create innovative and effective solutions for your inspection challenges.

InnetiQs Brasil Ltda. is our subsidiary with many years of experience in non-destructive material testing. The branch's activities include local sales, research and development projects and inspection services.



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