MAGTRACK

Megger

Next generation: Tracking and fault locating system for subsea cables

compact

robust

High precision 3D positioning

lightweight!

2025-12-15

EN
ENGLISH

What is Magtrack?

Magtrack is an outstanding cable tracking system that can accurately detect cable positions, track a cable in 3D, show burial depth and pinpoint fault locations. It can be used on all subsea power and communication cables, carrying an AC current supplied by a tone generator or even the cable load current.

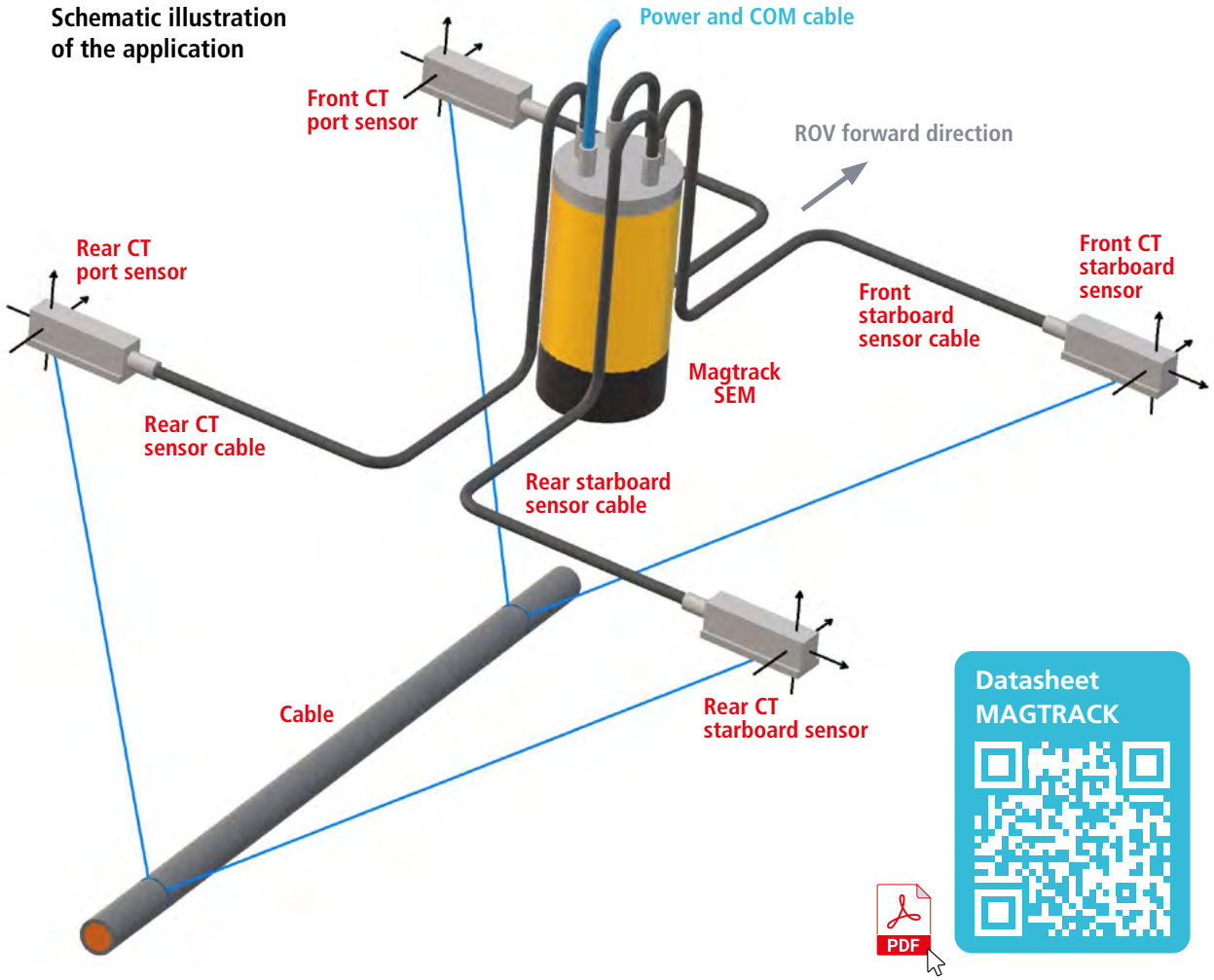
Lightweight and compact, the system is still very robust with titanium sensors and a subsea electronics module (SEM) in titanium and carbon fiber.

Each Magtrack system comes with 4 small sensors which integrate 3-axis fluxgate magnetometers and inclinometers for easy installation and highly accurate positioning.

The SEM processes data from all sensors and transfers raw and processed data to the surface vessel.

Magtrack data can be further processed in a survey system together with other relevant information, such as the position of a remotely operated vehicle (ROV) and data from other survey instrumentation.

Schematic illustration of the application



Datasheet MAGTRACK

PDF

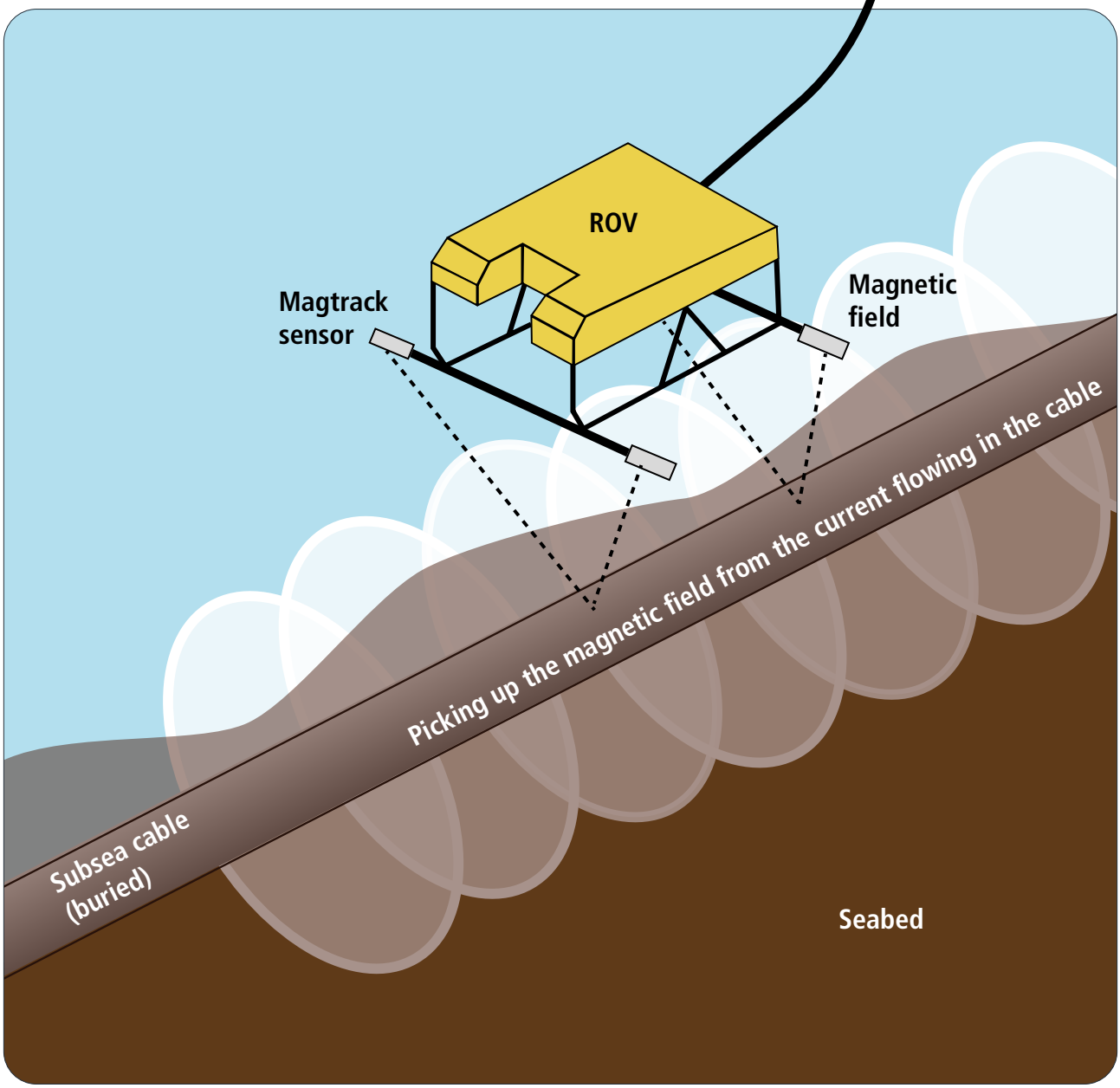
Intuitive and user-friendly software

It has been thoroughly tested on several sea cables and has proven extremly linear. The screen shows positioning of a cable in front and behind an ROV.

Tracking

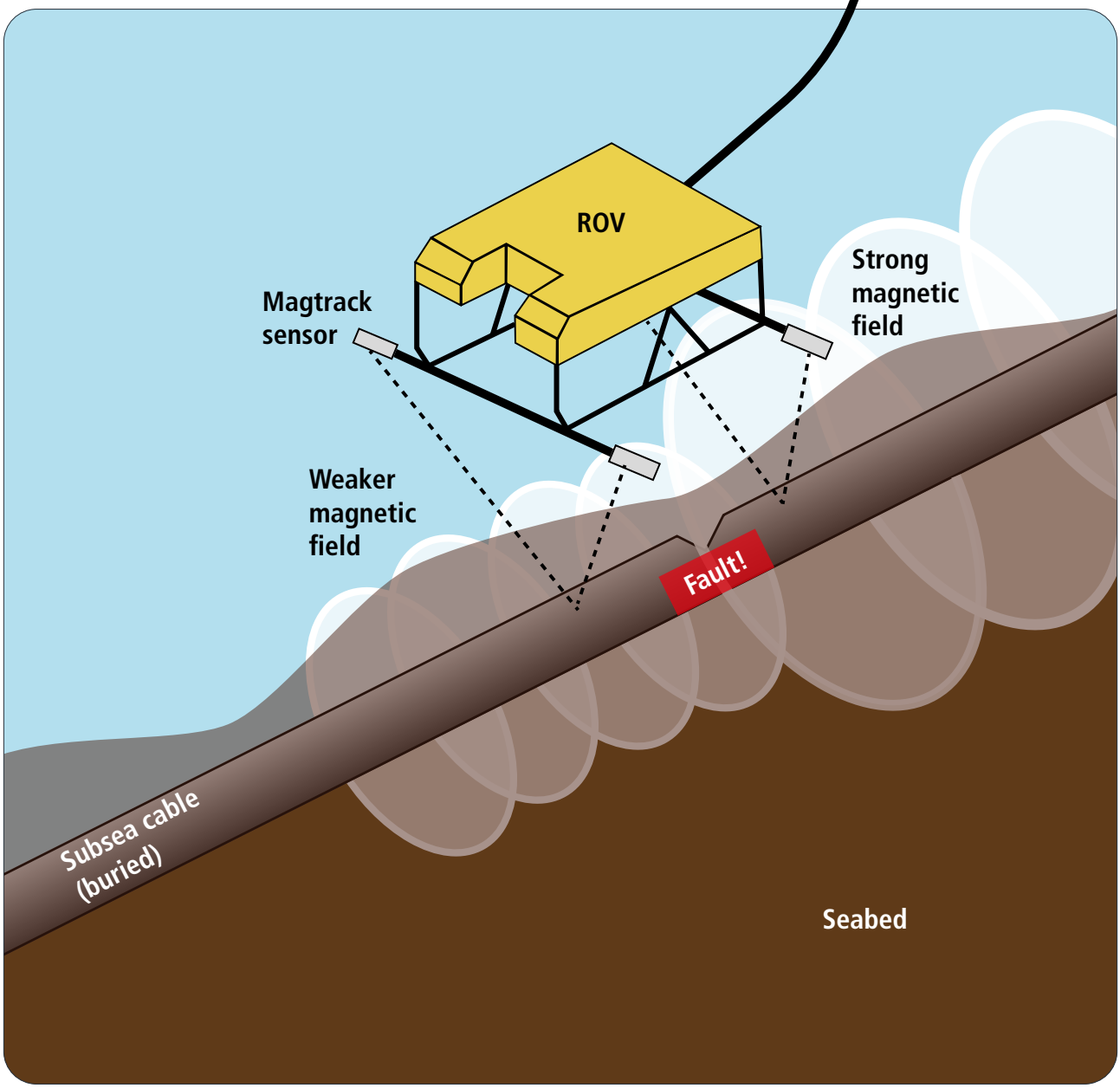
The Magtrack system uses two pairs of small, highly sensitive sensors. This provides significant benefits:

- Centrimetric cable positioning with instant quality control
- Improved steering information for ROV pilot through enhanced directional accuracy
- Wider range of suitable ROVs and AUVs
- Flexibility of flight height



Fault locating

Thanks to its highly accurate sensors, Magtrack can sense even small changes in magnetic fields. As most cable faults result in a change of its magnetic field, starting at the fault and continuing onwards, Magtrack can sense this change and pinpoint the fault location with great accuracy.

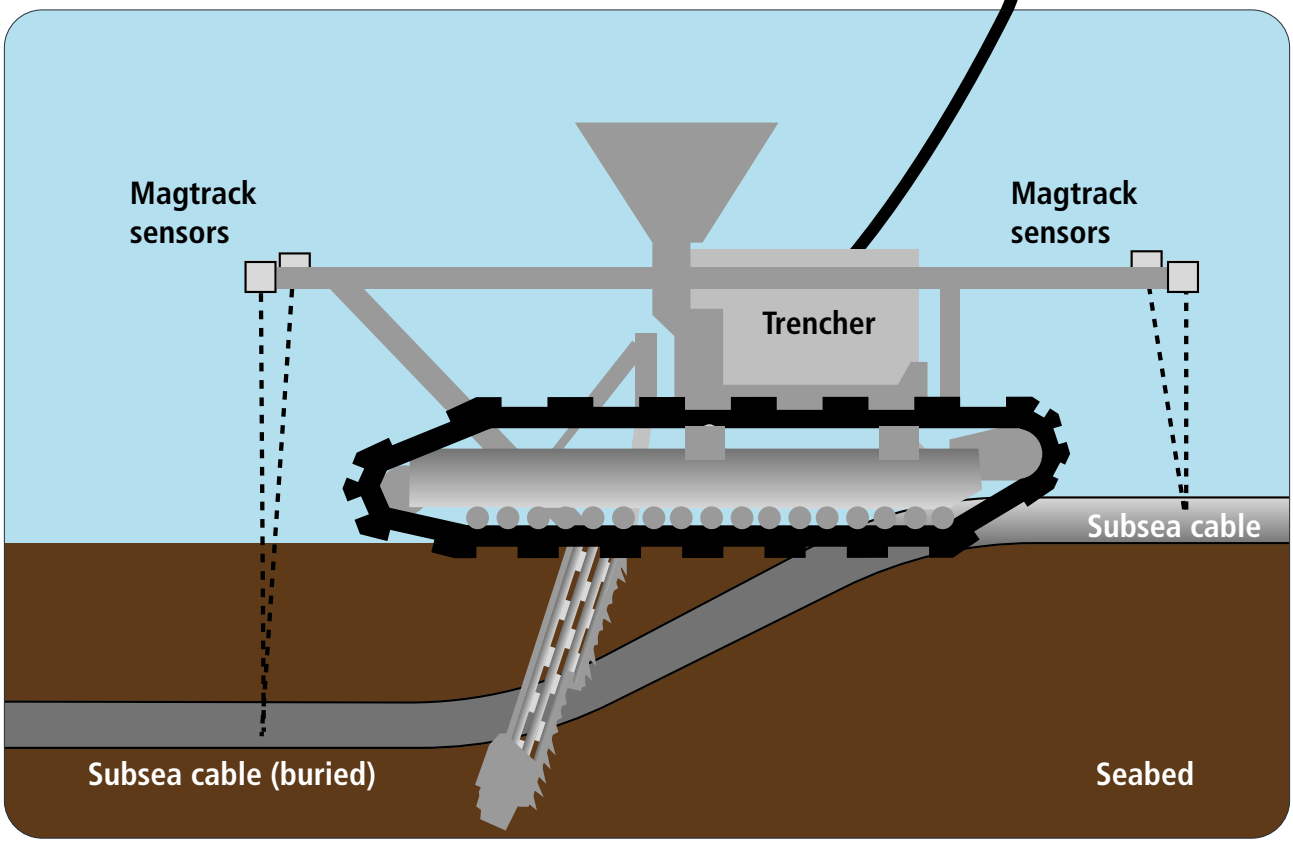


Trenching

Installed on a trencher, the Magtrack system is a reliable tool for:

- Accurately positioning the cable relative to the trencher
- Providing steering information for the trencher pilot
- Determining burial depth and slope of the cable

Since the Magtrack system provides burial depth information during trenching, it reduces the need for documentation by an additional ROV survey.



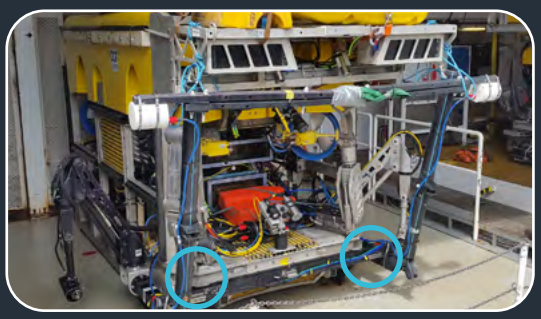
Proven in the field

Magtrack is currently deployed by industry leaders across the globe such as:

Statnett NKT REACH SUBSEA FUGRO BALTIC OFFSHORE

PROJECT 1: Viking Link

In 2020 iSurvey (now Reach Subsea) used the newly developed Magtrack successfully on M/S Polar King. In September 2023, iSurvey used the Magtrack system again together with the new Hummingbird tone generator from Megger to determine the exact position of the entire subsea cable.



PROJECT 2: Global Connect

In 2022-2024 Magtrack was successfully used on a trencher by Baltic Offshore.

They installed 460 km of submarine telecom cables for Global Connect´s Aurora project.

PROJECT 3: Shallow water test

In areas too shallow for ROV´s, Magtrack can even be mounted on a small vessel.

The Magtrack was installed together with an Innomar „sixpack" subbottom profiler and successfully tested in water depths of 1-20 m.

Talk to an expert.
Looking forward to your requests.

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The Magtrack system is built and owned by Magtrack AS.
Megger is the authorised distribution partner.

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