



Underwater Maintenance Robot „Crawfish“

ROV & Crawler

*Crawfish Ashore /
at Pile in the Baltic Sea*

Specifications of the prototype:

- Underwater intervention with precision of few millimetres
- Single wheel drive for accurate steering on underwater structures
- Pendulum axle for defined footing on curved surfaces
- Elastic, additive manufactured wheels
- Payload section: 26 cm x 20 cm x 10 cm
- Power supply (14,8V) and Data port (Ethernet) for payload
- Universal aluminum beams for payload mounting
- Flexibly positionable camera for intervention monitoring
- Partially automated docking to object surfaces
- Crane-free handling (vehicle weight of 22 kg)
- Dimensions (l x w x h): (54 x 60 x 54) cm
- Maximum Downforce of 90 N
- Battery life in intervention mode 25 min (at 50 N Downforce)
- Battery life in free floating mode more than 60 min
- Maximum diving depth: 50 m

Applications until now:

- Underwater application of an anti-corrosion paint
- Crack detection in offshore foundations by means of ultrasonic sensors

Contact:

Fraunhofer Smart Ocean Technologies SOT
Alter Hafen Süd 6, 18069 Rostock

Web: www.smart-ocean.fraunhofer.de

E-Mail: info@sot.fraunhofer.de