

ALWAYS EVOLVING.

Hydrocarbon gas leak visualization.

Advantages of the Gasfinder over human operators.



Safety guarantee in getting people out of harm's way.



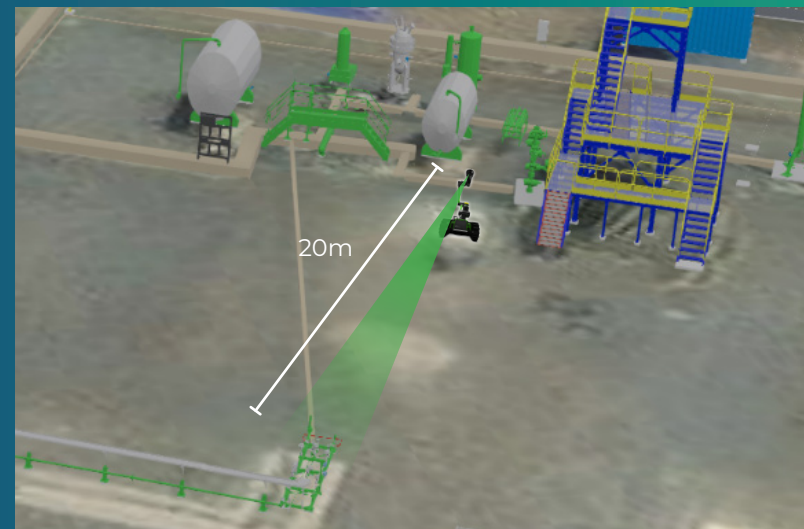
Repeatable performance with consistent alertness.



24/7 back to back operation with autonomous charging.



Tested in hot and cold environment for reliable missions in every condition.



Small leak detection value of 2g/s from 20m distance confirmed in third party tests.

Combined knowledge in collaboration with



Specifications.

| General | Sensors | Safety |
|---|--|--|
| <i>Dimensions</i> 1000 x 594 x 766 mm | <i>Camera</i> 4x 2K for 360° view 1x 4K in arm | <i>ATEX</i> Zone 1 |
| <i>Weight</i> 80 kg | <i>Gas Finding Camera</i> Flir G300a (hydrocarbons) | <i>Rating</i> SIL2, PL-d On-board Safety Controller |
| <i>Speed</i> 0,45 m/sec | <i>Navigation</i> 3D LIDAR | <i>Signaling</i> Safety light on the top of the sensor tower |
| <i>Long Arm</i> 4 DOF 1640 mm height | <i>Microphone</i> Directional and waterproof | |
| | <i>Gas Sniffing Device</i> Dräger X-am 8000 (H ₂ S, H ₂ , CO ₂ , ...) | |
| Environment | Battery | Site requirements |
| <i>Climate</i> -20° C to +60° C IP67 | <i>Running</i> 150 min. | <i>Connection</i> 4G or WiFi |
| <i>Ground Conditions</i> All surfaces including grated floors, ramps and stairs (up to 45°) | <i>Charging</i> 20-80% in 45 min. 100% in 80 min. (Charging in ATEX Zone 1) | <i>Power</i> 100 - 240 VAC 50/60 Hz max 6 A |
| | | <i>Purging Gas</i> Nitrogen |



Our other robots.

operator

The world's strongest work-class robot for the energy industry.



inspector

The world's toughest data gathering robot.



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V3-GF01d-sep-2023

TAUROB
a Dietsmann Group Company



gasfinder

Advancing robotics. Saving lives.

THE WORLD'S FIRST SPECIALIZED GAS DETECTION ROBOT.

Reducing emissions today.

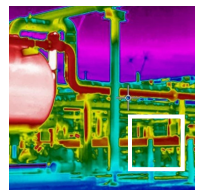
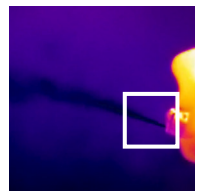
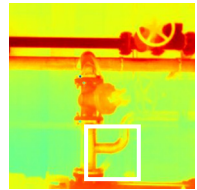
The Gasfinder is a reliable and fast tool to identify even the smallest gas leaks. By deploying the Taurob Gasfinder, operators will be able to identify and monitor gas leaks earlier and apply corrective measures and maintenance efforts to reduce emissions.

Everywhere. Every condition.

Built for the extreme, the Gasfinder serves dutifully in harsh industrial environments, explosive atmospheres, adverse marine weather conditions and all sorts of terrain. Thanks to its PL-D certified safety controller, the Gasfinder conforms with ATEX and IP67 standards.

Analytics and maintenance actions.

Supported by the expertise of Dietsmann (the leading independent Operation & Maintenance specialist for continuous-production plants in the energy industry), we offer the whole package, from identifying and prioritizing leaks to suggesting repair and maintenance actions. Furthermore, the Gasfinder's flexible API can connect directly to client's or third party analytics software.



High mission endurance.

2,5 hour mission time and charging 20-80% in 45 minutes in ATEX zone.



Tackling multiple floors.

Climbing and descending industrial stairs of up to 45° inclination.



High and low temperatures.

Carrying out missions in extreme temperatures ranging from -20°C to +60°C.

How robots can contribute to reducing greenhouse gas emissions.

Construction of assets.

A great quantity of CO₂ is emitted from constructing facilities due to high emissions of energy intensive production processes (e.g. steel).

Methane leakage.

Methane is 30x more harmful than CO₂ for the environment and 85% of methane emissions on off-shore platforms stem from small leaks imperceptible by humans.

Logistics and transportation.

Moving and accommodating workers causes incredible high levels of emissions, especially on off-shore platforms where helicopter flights are frequent.



LESS EMISSIONS BY DEPLOYING ROBOTS.

Leaner structures.

By using robots, the size and complexity of future installations can be reduced (e.g. no living quarters) which positively affects construction emissions of new platforms.

Reduced gas leakage.

Taurob Gasfinder can locate and quantify emissions from oil and gas operations and track deterioration over time on autonomous missions in every condition, consistently and precisely.

Unmanned facilities.

Eliminating human transportation and logistics significantly reduces CO₂ emissions.

Construction of assets.

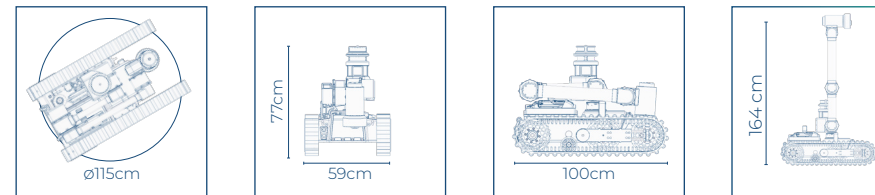
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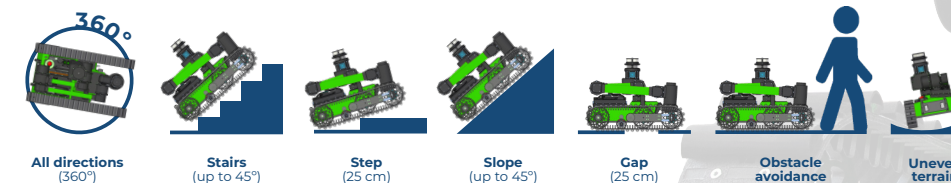
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3rd party integration.

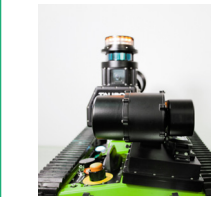


Beyond any obstacle.



Gas detection tasks.

- Routine inspection
- Leak detection
- Data gathering
- Location screening
- Signaling anomalies
- Emergency support



ATEX certified docking.

Autonomous robot docking, re-pressurizing and charging in ATEX zone 1.



EasyMission and EasyDrive apps.

Remote mission settings via app over WiFi or 4G connection.

Take a 360° tour

