ALWAYS EVOLVING.

Robotized Inspection and Maintenance.

Thanks to its precision sensors, the Inspector gathers data with unprecedented versatility and objectivity, exceeding a human operator in many ways. It takes ultra-high-definition photos and videos, records sounds, detects gas leaks through thermography and oversees its environment with a 3D LIDAR scanner.

Inspection and maintenance expertise in collaboration with:

Dietsmann
Maintaining Energy

Benefits of deploying robots.

- Ensuring the highest standards of HSE
- Reducing emissions to the environment
- Inspecting, gathering and analyzing data 24/7
- Optimizing production costs & asset uptime
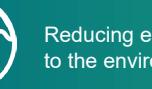
Specifications.

General

Dimensions	100 x 59,4 x 76,6 cm
Weight	85 kg
Speed	0,45 m/sec (±10 %)
Long Arm	4 DOF 164 cm Height

Sensors

Camera	4x 2K for 360° view 1x 4K in arm | Thermal | 20x Zoom | OGI
Navigation	3D LIDAR
Audio	Microphone
Optional	Multi Gas Sensor

Safety

ATEX	Zone 1
Rating	SIL2, PL-d On-board Safety Controller
Signaling	Safety light on the top of the sensor tower

Environment

Climate	-20 to +60°C IP67
Surface	Grated Floors Concrete, Grass Gravel, Sand, Snow Ramps Stairs (up to 45°)

Battery

Running	Up to 4 hours
Charging (in ATEX zone)	20-80% in 45 min. 100% in 90 min.
Stand-by	≈ 6,5 hours

Site Requirements

Connection	4G | WiFi
Power	85-264V AC | 3.3A @230V | 47-63 Hz (CEE 7/4)
Purging Gas	Nitrogen

Our other products.

operator

A game-changing manipulation and inspection robot for the energy industry.

wallbox
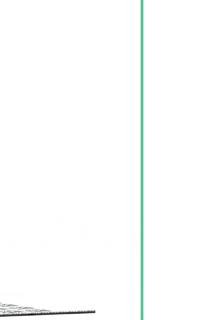
ATEX Zone 1 docking and recharging station for your Taurob robots.
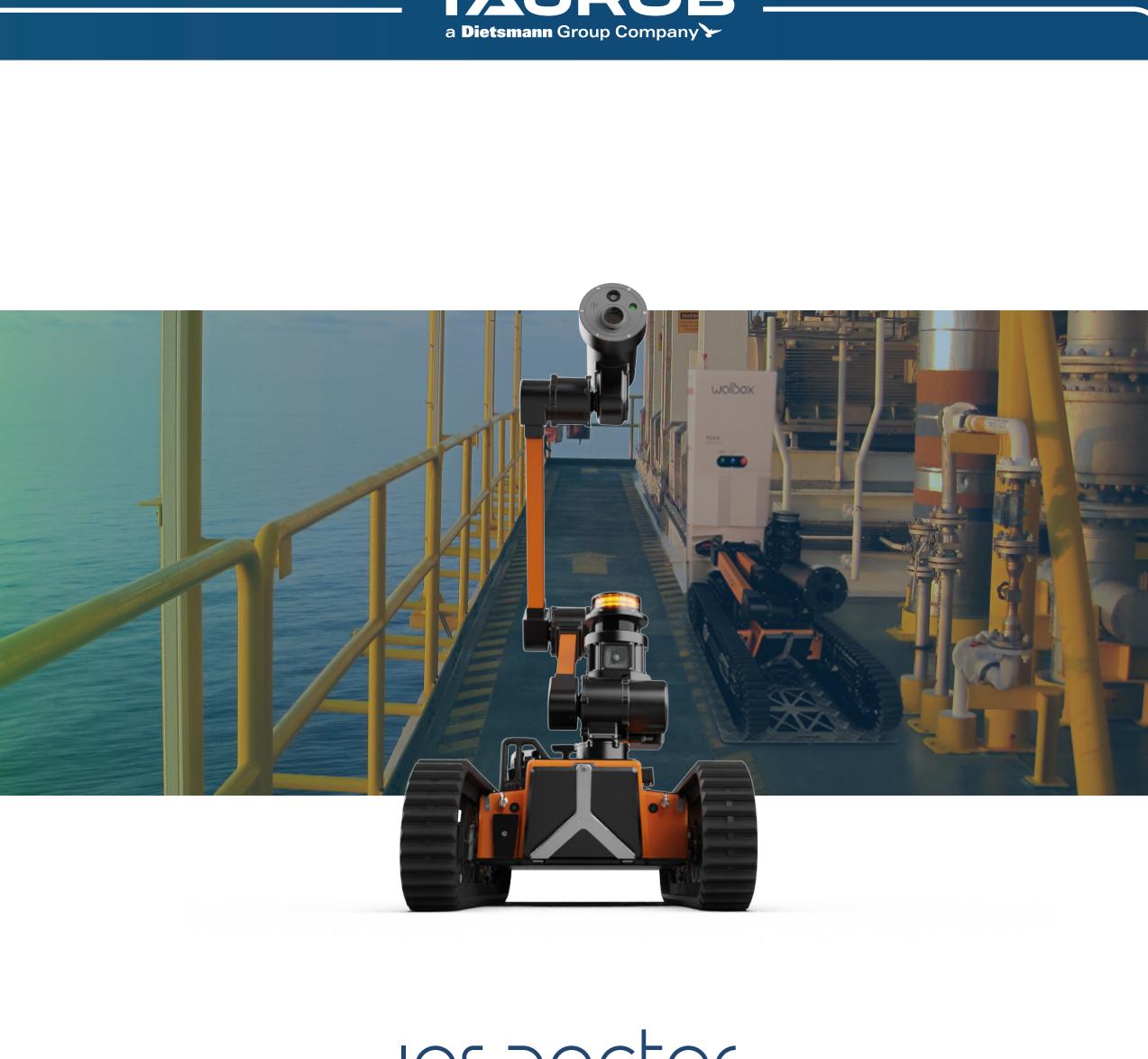
TAUROB
a Dietsmann Group Company

inspector V8

Advancing robotics. Saving lives.

BUILT TO SCALE-UP YOUR ROBOTIC DATA COLLECTION.

Safety above all.

Thanks to its PL-d certified safety controller, the Inspector complies with ATEX and machinery safety standards, effectively minimizing risks to personnel, equipment and the environment.

Everywhere. Every condition.

Built for the extreme, the Inspector serves dutifully in harsh industrial environments, explosive atmospheres, adverse weather conditions and all sorts of terrain.

Automated analytics.

The Inspector is able to interpret data in real-time using cloud or on-premise servers and its flexible API seamlessly connects directly to the client's digital twin, 3rd party analytics tools or fleet management solutions.

Ready and certified for explosive environment.

Operations on unmanned installations.

2D and 3D scanning, data cloud.

Gas leak, liquid and temperature detection.

High reliability & availability.

Taurob Inspector. More than just ATEX certified.

Human-like perspective.
Long arm with 4 DOF to inspect Points of Interest designed for a human perspective.

High mission endurance.
4 hour mission runtime and full recharge in 90 minutes.

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

High and low temperatures.
Carrying out missions in extreme temperatures (-20°C to +60°C).

Docking in ATEX zones.
Autonomous docking, re-pressurizing and charging in ATEX zone 1.
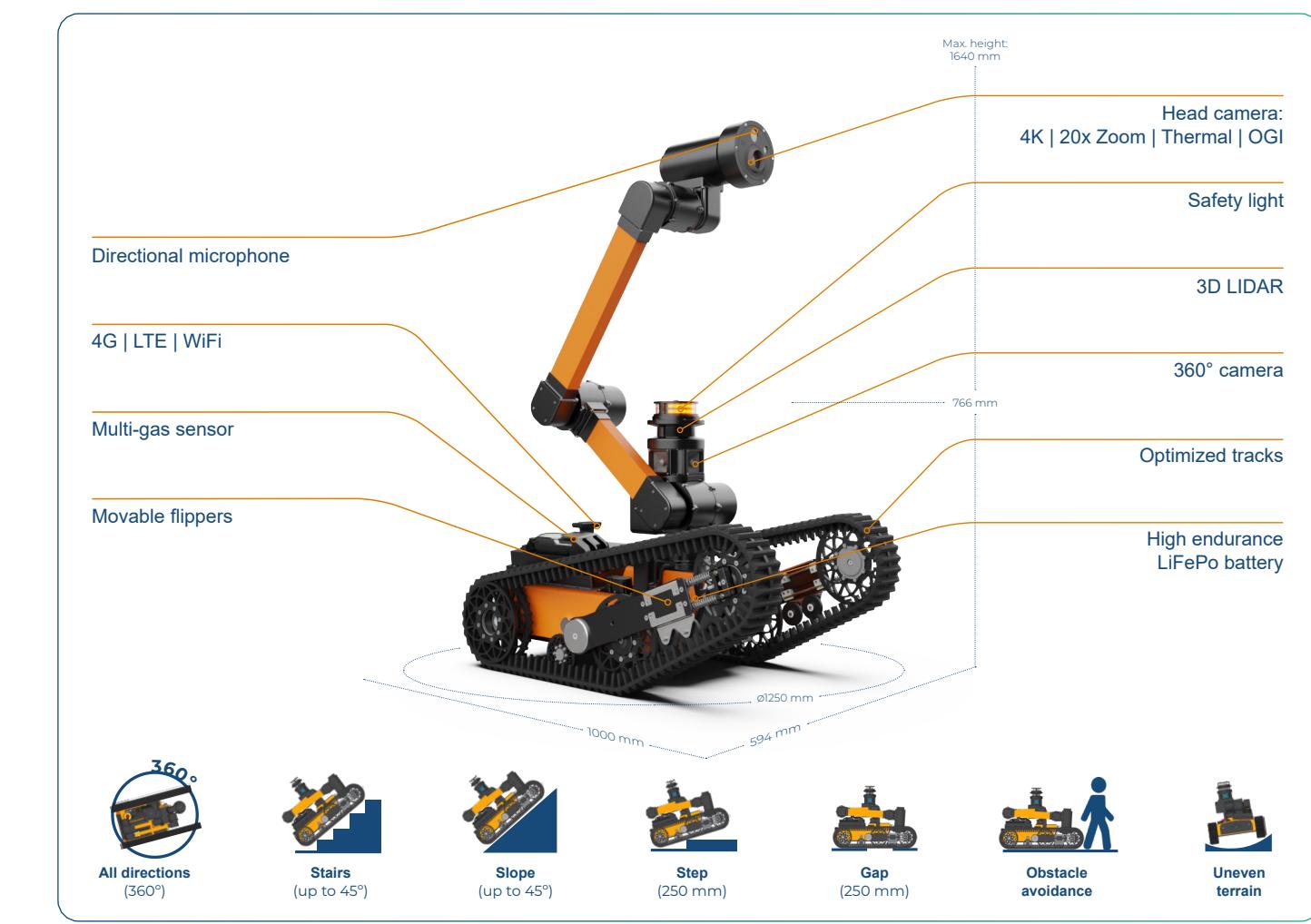
Software agnostic robots for seamless integration.

We design and build our robots with flexibility at their core. Customers can operate them using either our in-house software solutions (*EasyDriveWeb*, *EasyMission* and *Admiralty*) to navigate, execute autonomous missions and coordinate robot fleets or by using their dedicated platforms. We also provide a robust API that enables seamless integration with third-party software by *Rockwell Automation/Kalypso*, *Energy Robotics*, *Yokogawa*, *DroneDeploy* and more. This dual approach ensures maximum adaptability and smooth system integration across diverse operational environments.

Rockwell Automation KALYPSO · **ENERGY ROBOTICS** · **YOKOGAWA** · **DroneDeploy**

Teleoperation
First eyes on scene
Fast incident response
Manual inspection
Spill monitoring
Site surveying

Autonomous Inspection
Mapping and teach-in of POIs
Data gathering missions
Anomaly detection
Obstacle avoidance
Stair climbing

Data Acquisition
4K Photos / Videos
3D LIDAR scans
Audio clips
Thermography
Point clouds
Gas sensor data

Data Processing
In Cloud or on Edge
API for client system integration
3rd party apps: Dial Gauges, etc.
360° Photos / Videos

Max. height: 1640 mm

Directional microphone
4G | LTE | WiFi
Multi-gas sensor
Movable flippers

Head camera: 4K | 20x Zoom | Thermal | OGI
Safety light
3D LIDAR
360° camera
Optimized tracks
High endurance LiFePo battery

766 mm · Ø1250 mm · 1000 mm · 594 mm

All directions (360°) · **Stairs (up to 45°)** · **Slope (up to 45°)** · **Step (250 mm)** · **Gap (250 mm)** · **Obstacle avoidance** · **Uneven terrain**

inspector GASFINDER

The Gasfinder version of the Taurob Inspector can locate and identify even the smallest gas leaks and track deterioration over time consistently and precisely, thanks to its OGI camera and gas sensor device. Backed by Dietsmann's expertise, we provide end-to-end support. The Inspector Gasfinder will enable you to apply corrective measures and maintenance efforts to reduce emissions.