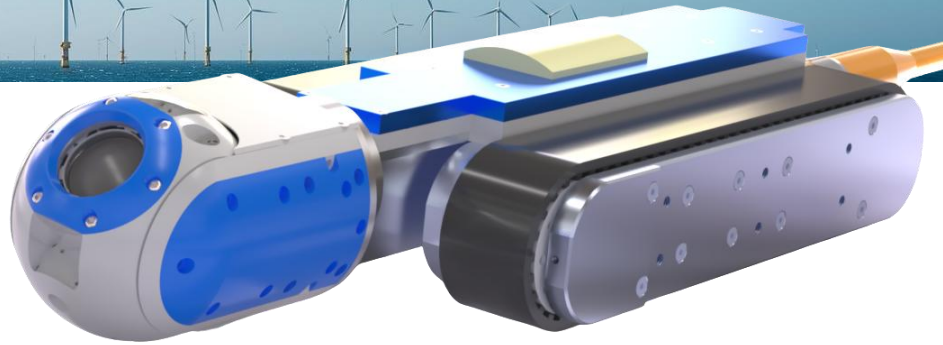


**Providing easy access
in confined spaces for
high resolution visual
inspections**



Crawler Specifications

DT260 crawler	
Dimensions	180 x 99 x 500 mm
Weight	9kg
Speed	12m / min
Internal sensors	Humidity, yaw, pitch, roll, distance
System voltage	48Vdc
Pull force	33kgF
Materials	Aluminium frame, sapphire lens
Flood lighting	Array, variable, high intensity LEDs
Control	Handheld control unit
Tether	100m (standard)

Wind turbines continue to grow in size and complexity. Structural integrity of the blades is increasingly critical to operational safety and efficiency.

The **DT260-LPC** is an extremely compact crawler robot designed for remote inspections of the inside of wind turbine blades.

High-Resolution Imaging equipped with HD PTZ camera to enables detection of cracks and structural defects, delamination, voids and adhesive failures, moisture ingress and other damage.

Benefits

- Early defect detection for proactive maintenance
- Reduced downtime and operational disruptions
- Optimized maintenance scheduling
- Extended blade lifespan and lower total cost of ownership
- Eliminates the need for human entry into confined blade cavities
- Comprehensive, repeatable inspection coverage of critical areas that are difficult or impossible to reach manually.

**Remote access for internal
wind turbine blade inspection**

Camera Specifications

Camera	
Resolution	HD 1080p, 25fps
Zoom	10x optical, 12x digital
Focus	Auto & manual
Pan	360deg continuous, 25deg/s
Tilt	360deg continuous, 15deg/s
Minimum illumination	Colour 0.5Lux, BW 0.1Lux
Lighting	2x variable, LEDs 1800 Lumens
Material	Aluminium (Optional: S/S)
Moisture purge	Nitrogen, 10PSI
Object sizing	Parallel laser

Dry gas purge

This ensures the camera always provides the highest clarity images possible. It also creates a benign environment to protect the electro-optics from moisture which supports trouble free operation.

Internal health monitoring

The camera is fitted with humidity, pressure and leak detection sensors which will warn the operator if moisture ingress occurs through the user interface.



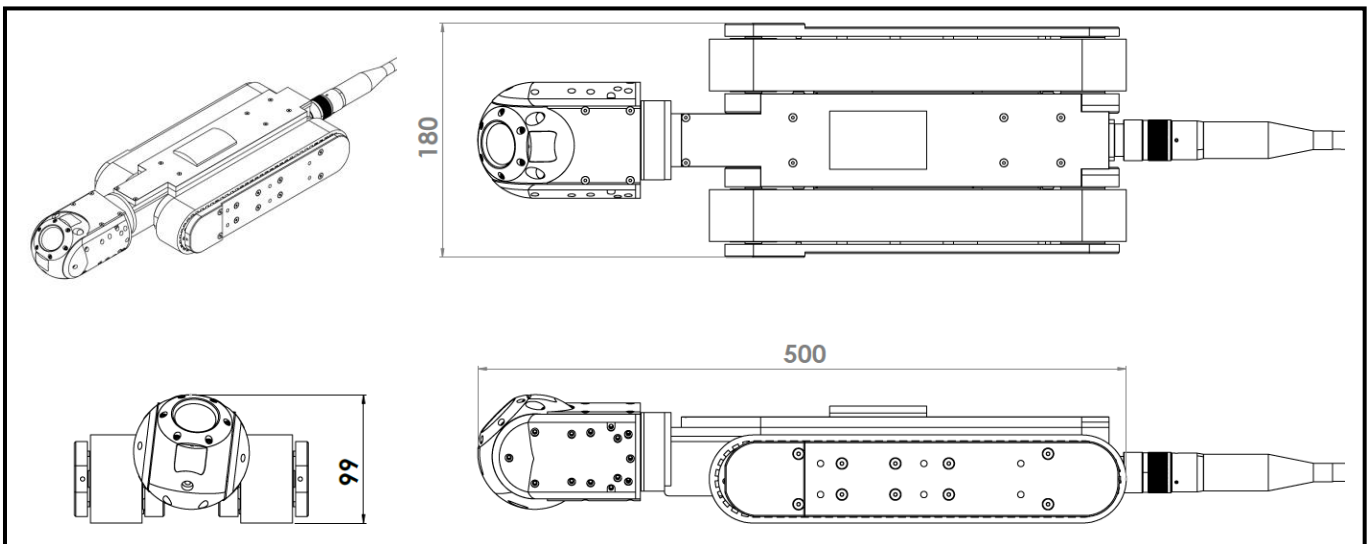
Lasers (optional)

Laser measurement of objects on screen. Class II laser, 1mW. Working range up to 10m.

3D Lidar (optional)

The DT260-LPC can be fitted with an omnidirectional wide Field of View mobile lidar to generate dense 3D point clouds that capture fine surface details and can be used for blade mapping. This has a short minimum detection range (100mm) and not affected by ambient light conditions inside the blade.

Crawler Dimensions



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