
TERAX
JIREH

TERAX · INTERNAL

FEATURES

Internal Operation

- The TERAX - Internal Base Crawler is designed to operate inside pipes, making it ideal for internal applications. Its flexible design allows the TERAX to fit into tubes as small as 8 inches, ensuring accessibility in narrow and confined spaces.

Remote Control

- With its convenient handheld controller, you can operate and maneuver this cutting-edge device effortlessly. The handheld controller offers steering joysticks and crawler control, giving you complete command over the TERAX's movements and operations.

Rubber Tracks

- The crawler has robust rubber tracks that provide excellent grip on the pipe walls, allowing it to propel forward quickly. This traction ensures smooth movement and prevents slippage, enabling the TERAX to navigate through pipes efficiently.

Built-in Positional Encoder

- A precision motor encoder is integrated into the scanner body and is fully compatible with all standard instruments.

Handles

- The handles on the scanner serve as a convenient holding point, allowing you to maneuver and transport the device easily. But that's not all - these handles are also removable, allowing you to reduce the scanner's width when needed.

Cable Management

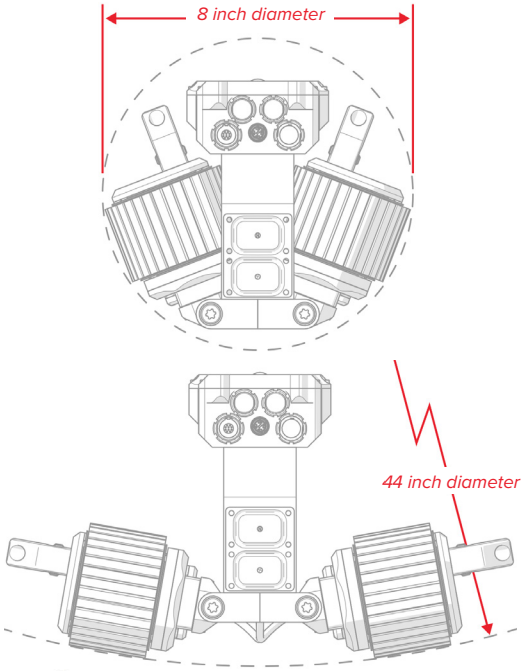
- Cable management *(sold separately)* goes beyond just protecting cables and hoses; it also plays a crucial role in keeping them organized. We all know the frustration of dealing with tangled, messy cables that can waste valuable time.

A RECON camera mounted to the front of a TERAX crawler operating in an 8 inch diameter tube.

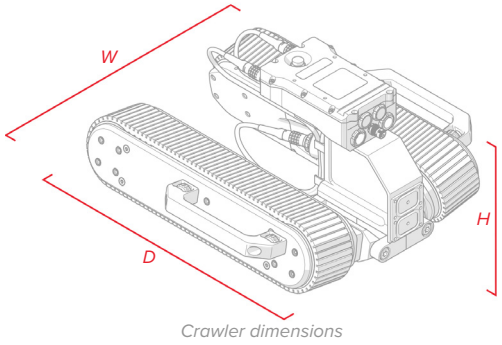
VARIOUS PIPE DIAMETERS

Examples

- Viewing the crawler from the front



TERAX Internal Base Crawler



Crawler dimensions

WEIGHT AND DIMENSIONS

Crawler Dimensions

- Height: 18.5 cm *(7.3 in)*
- Width: 32.9 cm *(13 in)*
- Depth: 35 cm *(13.8 in)*

Crawler Weight

- 7.7 kg *(17 lb)*

The TERAX configured for small diameter pipe with a corrosion thickness probe holder mounted to the front while cables and hoses are routed through the cable management system in the rear.

SPECIFICATIONS

Minimum Internal Dia. *(Longitudinal)*

- 20.4 cm *(8 in)*

Encoder Resolution (Motor)

- 3241.81 counts/mm *(82342.0 counts/in)*

Maximum Straight Driving Pull

- 27 kg *(60 lb)*
- *Performance may vary with the surface condition.*

Maximum Speed

- 14 cm/sec *(5.5 in/sec)*

Power Requirements

- 100-240VAC, 50/60Hz, 3.5 Amps

Umbilical Lengths

- 30 m *(98.4 ft)*
- 60 m *(196.8 ft)*
- Custom umbilical lengths are available.

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The low profile TERAX with the cable management attached.

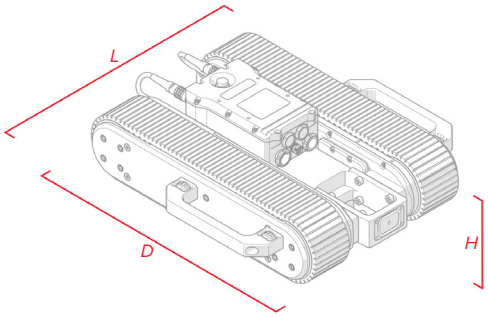
WEIGHT AND DIMENSIONS

Crawler Dimensions

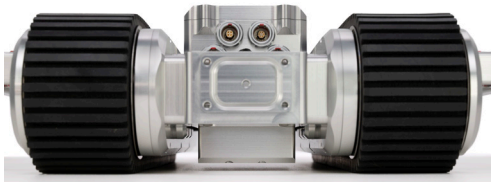
- Height: 10.3 cm *(4.1 in)*
- Width: 31.2 cm *(12.3 in)*
- Depth: 33.9 cm *(13.3 in)*

Crawler Weight

- 7.7 kg *(17 lb)*



Crawler dimensions



Hovering magnet of the TERAX.

SURFACE-SAFE INSPECTION

- The TERAX - Base Crawler is designed to navigate ferrous materials effectively. Featuring rubber tracks and a high-strength magnet, it ensures smooth and safe movement in challenging environments.
- Utilizing a technique called differential steering, the TERAX operates the left and right tracks at different speeds, allowing the machine to make turns by skidding or dragging its tracks across the ground.
- The crawler is outfitted with a sizable magnet in its lower part or belly. This suspended magnet is positioned just above the surface, creating a secure hold without direct metallic contact. This plays a crucial role in allowing the device the ability to navigate and interact with ferromagnetic materials.
- The system has a magnetized mat that is a protective buffer when placing the crawler on an inspection surface. This cushions the crawler from any sudden movements caused by the strong magnet, ensuring the safety of the user, inspection surface and the electronics within the crawler.

FEATURES

Remote Operation

- Thanks to the user-friendly handheld controller, operating and maneuvering the TERAX becomes a breeze. Equipped with steering joysticks and crawler control, this advanced device empowers you with full control over its movements and operations.

Rubber Tracks

- Engineered to provide exceptional traction and stability, these tracks are designed to overcome uneven surfaces and small obstacles in your path.

Built-in Positional Encoder

- Positional data from the motor's encoder can be output to any number of instruments.

Low Profile

- Requiring only 4 inches of vertical clearance, this innovative equipment navigates tight spaces and restricted areas.
- Remove the handles to minimize the crawler's footprint even further.

Corrosion Inspection

- Attach the Motorized Raster Arm to the TERAX to perform thorough corrosion mapping and accurately measure the thickness of asset walls.

Thickness Measurement

- By mounting an actuated probe lift, you can easily raise and lower a 0° probe as you move between different inspection points.

SPECIFICATIONS

Encoder Resolution *(Motor)*

- 3241.81 counts/mm *(82342.0 counts/in)*

Maximum Steerable Payload

- 10 kg *(23 lb)*
- *Performance may vary with the surface condition.*

Maximum Speed

- 14 cm/sec *(5.5 in/sec)*

Power Requirements

- 100-240VAC, 50/60Hz, 3.5 Amps

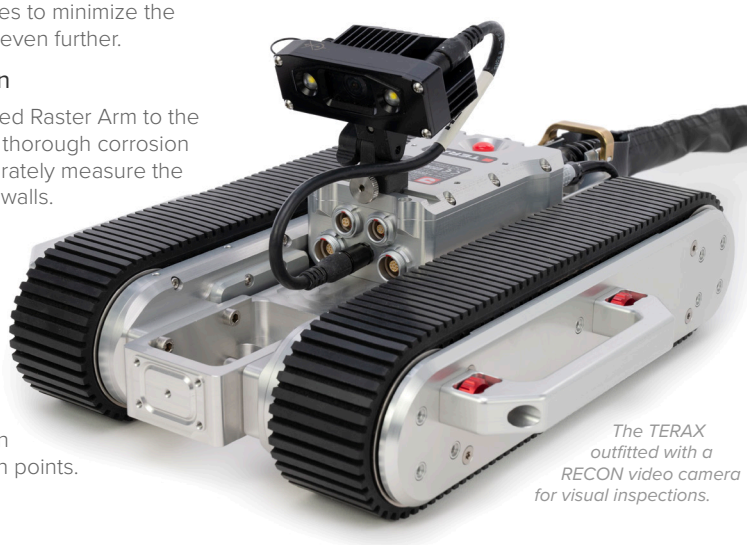
Umbilical Lengths

- 30 m *(98.4 ft)*
- Custom umbilical lengths are available.

Inspection Surface

- Ferrous

The handles are convenient and removable.



The TERAX outfitted with a RECON video camera for visual inspections.

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A robotic arm mounted to the TERAX for retrieval purposes.

ENVIRONMENTAL SPECIFICATIONS

Operating Environment

- -20° C *(-4° F)* to 50° C *(122° F)*

Environmental Sealing

- Dust-tight, watertight *(not submersible)*

REGULATORY COMPLIANCE

- CAN ICES-003(A) / NMB-003(A)
- CE
- FCC Part 15
- UKCA

For a complete description of regulatory compliance, please contact JIREH.

The power supply is compatible with various international plug styles.

Order the TERAX with the battery kit and avoid using heavy, cumbersome generators. These rechargeable batteries can power the TERAX system and accessories for hours.

The handheld controller with colour touchscreen offers steering, speed manipulation, raster arm programing and system diagnostics.

Enhance the TERAX with the RECON, a powerful addition that brings video capabilities to your inspections. With the RECON, you can monitor in real-time with high-definition video and capture still photos simultaneously. Plus, you can mount two cameras to view additional angles.

The RECON • Studio software, included with the RECON system, offers an array of fantastic features. With this software, you can easily view live video feed from one or two cameras simultaneously. You also have the ability to control the camera light brightness for optimal visibility, record videos, capture still photos, and activate and adjust guides on the video screen to assist with your inspections. Additionally, the software allows you to playback, organize, and share your videos and photos, making it convenient to review and collaborate on your findings.

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The TERAX system is configured for corrosion inspection with the Olympus HydroFORM equipment. A 300 mm motorized raster arm is used to carry the heavy-duty vertical probe holder, which features a HydroFORM cart. This setup allows for efficient and reliable corrosion inspections with advanced capabilities.