



**INUKTUN**  
CRAFTSMANSHIP IN HIGH TECHNOLOGY

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## Versatrax 100 MicroMag™

Troll B - Platform  
North Sea, Norway  
Photo by Hakon Thingstad





# Versatrax 100 MicroMag™

The MicroMag™ mobile robotic inspection vehicle is compact, waterproof and magnetic. It can be rapidly deployed for many applications that exclude most ordinary ROV's.

The MicroMag™ visual inspection system has been engineered to deliver vivid color video footage in real-time while travelling almost any direction on ferrous metal structures. This unique remotely operated device is steerable on vertical, horizontal and inverted surfaces even when piloted underwater.

For information call 1.877.468.5886 or e-mail [sales@inuktun.com](mailto:sales@inuktun.com)



## KEY FEATURES

**Vehicle Type**  
Magnetic Robotic Crawler

**Depth Rating**  
Waterproof to 100ft / 30m

**Maximum Tether Length**  
Up to 600ft / 183m

**Vehicle Speed**  
Up to 32ft / 10m per minute

**Vehicle Payload**  
10lb / 4.54kg

**Front Facing Camera**  
Color video, pan / tilt

## APPLICATIONS

**Wet or dry inspections of ferrous metal surfaces such as:**

- Reactor heads
- Pressure vessels
- Storage tanks
- Ship hulls
- Bridges / Engineered steel
- Offshore platforms
- Wind turbines

## BENEFITS

Remotely controlled  
Compact & portable  
Waterproof / submersible  
Magnetic on ferrous metal  
Operates vertically & inverted  
Vivid color video, Front & Rear  
Intuitive software interface  
Familiar joy-stick controls  
High reliable up-times  
Low total cost of ownership



## VEHICLE

**Compatibility**  
Versatrax 100™ components

**Chassis Type**  
Parallel / Flat

**Chassis Material**  
Aluminum

**Crawler Tracks Model**  
2x Inuktun Microtracs™

**Crawler Track Material**  
Aluminum

**Magnetic Component**  
Rare Earth Magnets

**Magnet Capacity**  
up to 30 x 1.0in x 0.5in

## PRIMARY CAMERA

**Position** Front

**Model** Inuktun Spectrum 45™

**Material** Aluminum  
(Stainless Steel Optional)

**Pick-up Element**  
1/4in CMOS (NTSC or PAL)

**Sensitivity** 1.0 lux **Lens** 3.6mm

**Resolution** 420 TV Lines

**Focus** Auto or Manual (Remote)

**Pan Range** 360 ° Continuous

**Tilt Range** 280 ° Mechanical Stops

**Lights** 6 x 0.5 Watt LED / Variable Intensity (Remote)

**Camera Weight** 1.0lb / 454g

## TETHER CABLE

**Outside Diameter**  
0.325in / 8.3mm

**Minimum / Maximum Length**  
200ft / 61m - 600ft / 183m

**Conductors**  
14 total / 3x AWG24(tp), 1x AWG26(tp), 6x AWG22

**Strength Member** Aramid fiber

**Strength Rating** 360lbs / 163kg

## AUXILIARY LIGHT

2 x 20 Watt / 601 Halogen  
Variable Intensity (Remote)

## CONTROL SYSTEM

**Line Voltage**  
115VAC or 230VAC

**Power Requirement**  
550 Watts minimum

**Controller Type**  
Portable in Pelican Case or 19in rack mount

**Operator Controls**  
2 x Joysticks and Custom Keypad

**Software**  
Custom Graphic User Interface

**Tether Reel & Encoder**  
Portable in Pelican Case

## OPTIONS

**Color LCD Monitor**  
8in fits Pelican Case Controller

**Pendant Control Add-on**  
25ft / 7.6m Interconnect Cable

**Auxiliary Camera**  
Rear facing Inuktun Crystal Cam®

**Miniature Tether Reel & Encoder**  
For up to 350ft / 107m of tether

**Digital Video Recorder**  
Records mpeg4 / Digital zoom and still image capture / Audio inputs

**Drop Camera Adapter**  
Allows Spectrum 45™ to be used as a drop camera.