

AMAC-1000

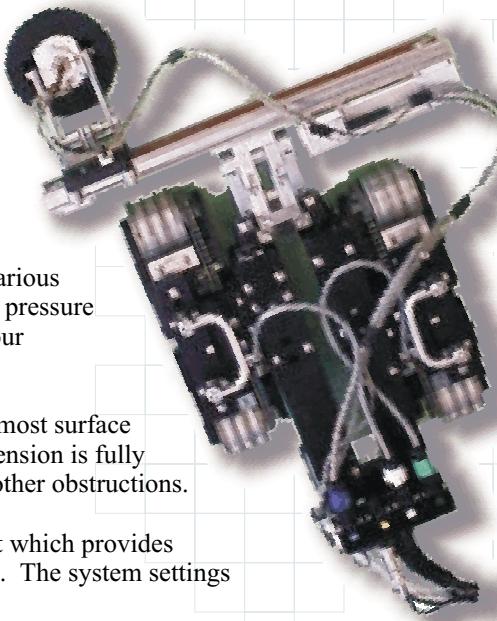
Magnetically Attached Crawler

The AMAC-1000 is a rugged, versatile, magnetically attached, remotely operated crawler designed to serve as a platform for various types of probes and attachments used in the inspection of tanks, pressure vessels, spheres and piping. Combine the AMAC-1000 with your Ultrasonics and software for automated data collection.

The unique design of the AMAC-1000 allows it to navigate on most surface configurations without time consuming adjustments. The suspension is fully independent allowing it to easily traverse welds, junctions and other obstructions.

The AMAC-1000 is mated to the MCU-2000 motor control unit which provides closed loop servo motion control for flexible, accurate scanning. The system settings allow you to set complex scanning arrangements with ease.

The large 2.5 inch diameter wheels of the AMAC-1000 utilize Neodymium magnets providing over 250 pounds of force. The wheels can be staggered (front to rear) to ease in crossing weld lines or they can be aligned for special applications. Scrapers are mounted over each wheel to cope with excessive foreign material buildup.



AMAC-1000 Crawler

- Clamping force: Over 250lbs (.25 inch thick steel plate)
- Drive force: 200lbs vertical pull at stall
- (4) Wheel Drive
- (4) Wheel Independent Suspension
- Left, Right Steerable, Reversible
- 2.5" Dia Magnetic wheels
- (2) High power DC servo motors
- Advanced design allows adherence to changing surface geometry without time consuming adjustments
- Dimensions: (L,W,H) 19.75" x 10.75" x 4.5"
- Weight: 24lbs

YA-12 Second Axis for Raster Scanning

- Heavy duty stainless steel construction
- 12.5"travel (other travel lengths quoted request)
- High efficiency DC servo motor with integral line driver encoders for closed loop control
- Mounts to self-leveling hinge to maintain equal distance to surface
- Transducer fixtures for special applications

MCU-2000 Control Unit

- Use with optional YA-12 for raster based scanning
- Menu driven LCD
- Fully programmable raster motion controller to define virtually any scan pattern required
- Encoder line driver receiver
- Joystick
- Speed, forward and reverse control
- Emergency Stop button

Other Options

- Extended Control cable lengths
- Custom bundled control cable
- Interface cable to encoder signals

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