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# **The Apex Scanner**

### **MODULAR. UNIVERSAL SCANNER PLATFORM**

Introducing the new Apex Scanner—One Scanner for All of Your Job Requirements!

#### Toolless Modules Bring Versatility, Portability, and Reliability to Your Scanning Arsenal

ScanTech has answered the call for a portable yet versatile crawler with many rugged field proven components:

- Modularity—Toolless attachments for B-Scan, Front Raster Arm, Side Raster Arm, and Multi-Probe Weld Scans.
- <u>Versatility</u>—Scans circumferentially or longitudinally; This includes a river-bottom raster scan or a long seam weld scan.
- Compatibility—Use with our powerful Analyst Controller and Software or connect to a third party Phased Array system.
- Field proven straight-line probe lift provides far greater ruggedness than a linear guide while ensuring positional accuracy.
- Rigid dovetail probe yoke provides wide adjustability for most probes, including Phased Array Probes, while maintaining the rigidity required for real world environments.
- Probe holders incorporate ScanTech's patented Anti-Tip probe gimbal for best-in-class stability and UT signal return. When combined with the near-constant force spring design, you get a superior probe holder that will skim over welds with ease and provide quality repeatable UT readings.



**ScanTech utilizes our STC distributed, modular control system.** This communication architecture minimizes conductors making the umbilical significantly lighter. It also offers easy expandability for an additional axis or add-on features, making this a very versatile platform for your scanning requirements. The Apex will easily adapt to nearly any application.

# **Attachment Modules for B-Scan, C-Scan, and Weld Inspection**

## **B-Scan**



- New mid-section body design with high compliance suspension
- Toolless attachment points and wheel angle adjustment for small radii
- Probe coupling incorporates our ACR design for reducing turbulence and water consumption
- Our newest spring design offers the most constant contact force over full travel to date



- C-Scan arms are quick-attached for either front mounted or side mounted raster scanning
- Lead screw and belt drive configurations are available
- New compact brushless DC raster motor pack with integrated encoder/controller/drive offering high torque and performance
- Lead screw raster arms are hot swappable with the modular motor pack, allowing fast reconfiguration of arm lengths and positions, without needing multiple motor packs

# **Weld-Scan**



- New purpose-built probe guide hardware delivers our trusted reliability and ruggedness in lightweight, modular, multi-probe configurations of common TOFD and PA setups
- Quick, toolless adjustments ensure proper probe contact on pipe surface, for both circumferential and longitudinal scans
- Rigid, toolless probe width adjustment to accommodate most popular probe models
- Retains ScanTech's trusted anti-tip probe mechanism to prevent probes from flipping over

#### Specifications:

**Base Scanner Unit:** 

 Length
 10.5 in (266.7mm)

 Width (Slim Wheels)
 10.8 in (271mm)

 Width (Wide Wheels)
 12.0 in (305mm)

 Height
 4.95 in (125.7mm)

 Weight
 19 lbs. (8.64 Kg)

**Drive Units:** 

Speed (@ full load) 6 in/sec (153mm/sec)

Raster Arm (Lead Screw):

Speed (@ full load) 30 in/sec (914 mm/sec)

Raster Arm (Belt Drive):

Speed (@ full load) 30 in/sec (760 mm/sec)

**Pipe Inspection Minimum Diameters:** 

Circumferentially w/ Front Raster Arm: 6" OD Circumferentially w/ Side Raster Arm: 3" OD

Axially: 12" OD w/ 9" inspection width