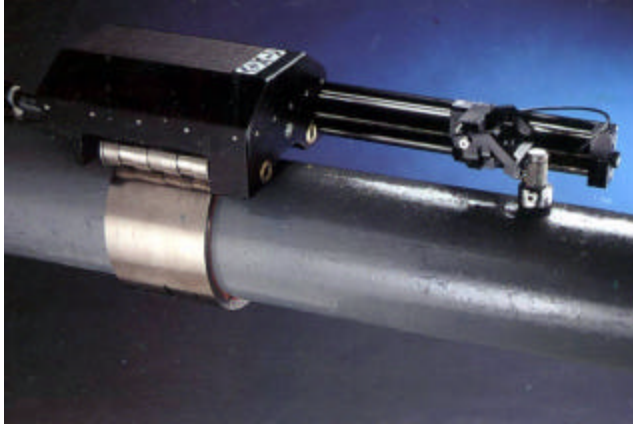


Model 5010 Low Profile Scanner



The Model 5010 Scanner is a remotely controlled, low profile, automated scanner. It is designed for fast installation on a wide range of flat or curved surfaces. It uses magnetic wheels to mount directly on magnetically compatible materials (i.e., carbon steel) or to a variety of scanning tracks.

The scanner is designed to permit the deployment of a variety of sensing elements including ultrasonic transducers and eddy current probes. The system is compatible with all AMDATA IntraSpect™ data acquisition systems.

The scanner uses DC servo motors to power each of the two axes. The motors are housed in a sealed body. The X axis consists of a chain driven tractor arrangement with magnetic rollers. The Y axis uses a chain driven power screw to actuate a slide carriage which supports a transducer.

The scanner was designed to operate on pipes with an OD as small as 2" up to flat plates, within a low profile envelope no larger than 3.5 inches measured radially from the inspection surface.

Technical Specifications

The specifications for the Model 5010 scanner are as follows.

Physical Characteristics

- Scanner height: 3.22 inches
- Scanner width: 5.52 inches
- Scanner length: 16.76 inches (with 7 inch stroke Y arm)
- Scanner weight: 8.5 pounds (with 7 inch stroke Y arm)
- Minimum Pipe Diameter: 2 inches (nominal pipe size)
- Payload Capacity: 10 pounds

X Axis

- Scan speed: 3 inch/sec maximum
- Encoder resolution: 7665 pulses/inch
- Positional accuracy: + or - 0.020 inches over three feet of travel
- Minimum scan increment: 0.0005 inches
- Drive description: Servo motor/gear head/timing chain/magnetic roller

Y Axis

- Scan speed: 6 inch/sec maximum
- Encoder resolution: 3744 pulses/inch
- Positional accuracy: + or - 0.020 inches
- Minimum scan increment: 0.001 inches
- Drive description: Servo motor/gear head/timing chain/acme screw/travel block
- Available Arm Lengths: 4 to 18 inches

Minimum required equipment to operate a Model 5010 Scanner: an AMDATA IntraSpect imaging system with GA-1002 scan control subsystem, 2-axis joystick, cabling. Recommended optional equipment for operation is a scanner track.



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