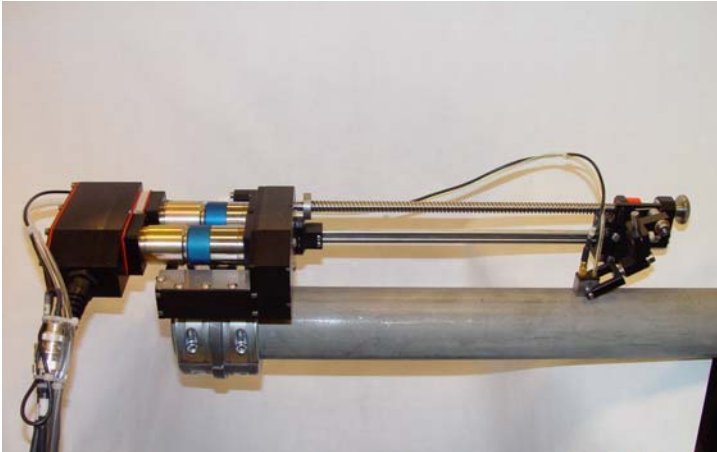


# Model 5015 Automated Scanner

The Model 5015 is a remotely controlled automated scanner. This scanner is designed to permit the deployment of a variety of sensing elements including ultrasonic transducers and eddy current probes. It is compatible with all WesDyne AMDATA data acquisition systems. The design allows for fast installation on a wide variety of flat or curved surfaces. It uses magnetic wheels to mount to a variety of scanning tracks.



The 5015 scanner is shown on a 2" stainless steel pipe (2.375" OD). The scanner is mounted on a two piece clam shell type rigid track assembly. The Y-Arm shown has an 8" long stroke.

The 5015 scanner uses DC servo motors to power each of the two axes. Position feedback is provided by magnetic encoders that are housed in a sealed enclosure. The X axis consists of a timing belt driven tractor arrangement with magnetic rollers. The Y-Axis uses a precision lead screw to actuate the slide carriage that supports the transducer gimbal. The Y-Axis arm has a standard length of 8" of stroke. Shorter or longer stroke Y-arms can be provided if necessary. Contact WesDyne AMDATA for pricing.

Variations in the height of the inspection surface are absorbed by the transducer gimbal assembly. The 5015 scanner gimbal assembly is spring loaded that affords approximately 1.0 inch of stroke, and 1.0 inch of fixed height adjustment.

## Physical Characteristics:

- Scanner Height: 3 inches (Including Thruster)
- Scanner Width: 7 inches
- Scanner Length: 20.25 inches (with 8" Stroke Y-Arm)
- Scanner Weight: 7.0 lbs (with 12 foot scanner pigtail and 8 inch Y-Arm)
- Minimum Pipe Diameter: 2" Pipe (2.375" OD)

## X-Axis:

- Max Scan Speed: 3 in/sec.
- Encoder Resolution: 8073.11 counts/inch
- Positional Accuracy: +/- .200 per 3 feet
- Min. Scan Increment: 0.008 inches
- Payload Capacity: 12 lbs.
- Drive Description: Servo Motor, Gear Head, Belt Drive, Magnetic Roller.

## Y-Axis:

- Max Scan Speed: 4 in/sec.
- Encoder Resolution: 14043.61 counts/inch
- Positional Accuracy: +/- .020 per 8 inches
- Min. Scan Increment: 0.001 inches
- Payload Capacity: 8 lbs.
- Drive Description: Servo Motor, Gear Head, Timing Belt, Lead Screw, Travel Block.

*Minimum required equipment to operate a Model 5015 Scanner - IntraSpect™ imaging system with a WesDyne AMDATA scan control subsystem, 2-axis joystick, cabling, and track.*



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