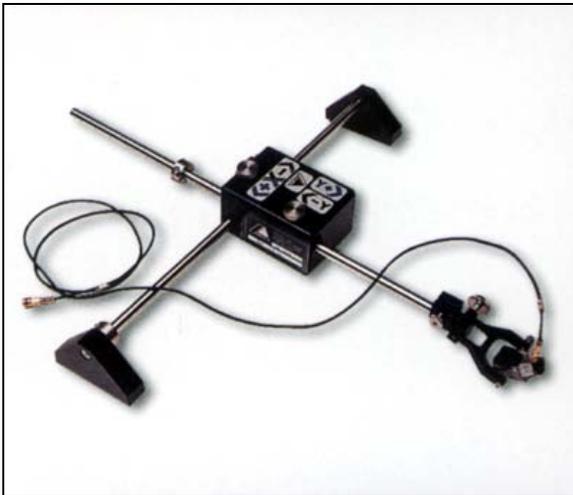


# Model 4020 Manual Scanner

The Model 4020 is a manually controlled scanner. It is designed for use on a bench or table top beside a planar or near-planar specimen. It has single rods that provide the X and Y axes. The sensor is mounted on the end of the Y axis rod. It also has incremental optical encoders that provide scanner position input to the data acquisition system.

The Model 4020 Manual 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 imaging systems.



A Model 4020 scanner shown above with an angle beam transducer and UT cable (scanner encoder cable not shown). Encoders are contained within the black box shown in center of photo. Rods slide through the box in both X and Y directions as an operator manually moves the transducer over an inspection surface, providing encoded positional feedback with the UT signal for pulse-on-position style ultrasonic imaging.

## Technical Specifications

The specifications for the Model 4020 scanner are as follows.

### Physical Characteristics

- Scanner height: 2.00 inches
- Scanner width: 15.0 inches\*
- Scanner length: 8.0 inches
- Scanner weight: 2.0 pounds  
\* with an 11 inch arm & probe

### X Axis

- Encoder resolution: 410 pulses/inch
- Positional accuracy:  $\pm 0.05$  inch
- Repeatability 0.005 inch
- Stroke 11.8 inches

### Y Axis

- Encoder resolution: 410 pulses/inch
- Positional accuracy:  $\pm 0.05$  inch
- Repeatability 0.005 inch
- Stroke 11.0 inches

## Included Accessories

- Reusable shipping case
- Scanner cable, 20 feet long

## Available Options

- X and Y strokes up to 36 inches.
- Vacuum cup mounts.

*Minimum required equipment to operate a Model 4020 scanner is an IntraSpect™ imaging system that contains either an I/UX UT Board or a Motion Control Board.*



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