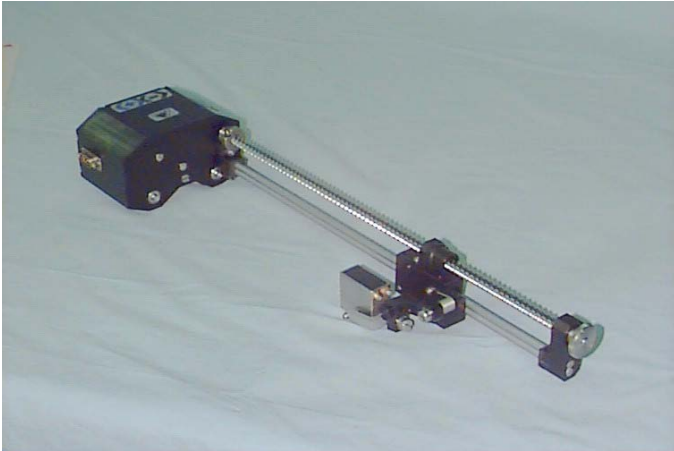


# Model 4030 Manual Scanner

The AMDATA 4030 manual scanner is a magnetic wheeled, two axis scanner designed for manual raster type scans of pipe, flat plate and convex or concave surfaces. Movement in both axes is mechanically guided to ensure precise, controlled motion of a UT or ET probe over a test piece surface.



Model 4030 scanner with 12" Y-arm stroke

This scanner offers the following features.

- Both axes are fitted with optical incremental encoders for position feedback to the data acquisition system, permitting computer imaging of manual scans.
- Powerful magnetic wheels couple the scanner to the test piece (or guide track for non-ferrous components). This reduces operator fatigue.
- Capable of scanning pipe as small as 2" nominal diameter.
- Interchangeable Y-axis arms allow covering large areas or adapting the scanner for short strokes in confined spaces.
- Fast pitch lead screw on Y axis permits rapid stroking of the transducer by hand or fine positioning by turning the screw.
- Brakes on both axes can be used to prevent unwanted motion of one axis while the other axis is being moved.
- Dual gimbaled transducer mount ensures probe contact with the test piece surface.
- Rigid Y arm will support multiple probes for multi-channel scanning.

- Compatibility with tracks used for WesDyne NDE Products & Technology's automated 5010, 2090 and 5090 scanners.

## Technical Specifications

The specifications for the Model 4030 scanner are as follows:

### Physical Characteristics

- Scanner height: 3 inches
- Scanner width: 4.75 inches
- Scanner length: 20 inches (with 12 inch stroke Y arm)
- Scanner weight: 4 pounds (with 12 inch stroke Y arm)
- Minimum pipe diameter: 2 inches (2.38" dia.)
- Min. convex surface: 8 inches radius
- Min. operating annulus: 2.7 inches radius

### X Axis

- Encoder resolution: 2000 counts/inch
- Positional accuracy:  $\pm 0.02$  inch/ft

### Y Axis

- Encoder resolution: 4000 counts/inch
- Positional accuracy:  $\pm 0.02$  inch/ft
- Available arm lengths: 6 to 12 inches

### Included Accessories

- Reusable shipping case
- Scanner cable, 20 feet long

Minimum required equipment to operate a Model 4030 scanner is a AMDATA IntraSpect™ imaging system that contains either an I/UX UT Board or a Motion Control Board.



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