Mactech Europe

Pipe End Measurement System

Mactech Europe Portable Machining Solutions

Mactech Europe's Pipe End Measurement System is a laser measurement tool designed to precisely measure the inside diameter, outside diameter and wall thickness of a pipe end.

The tool is capable of single measurement at 1 or 4 inches from the pipe face, or simultaneous double measurement at 1 and 4 inches from the pipe face.

The resulting data can be analyzed to determine if each end meets dimensional tolerances.

The pipes can then be identified and sorted into an optimized pipeline fit up that minimizes ID, OD and wall thickness mismatches.
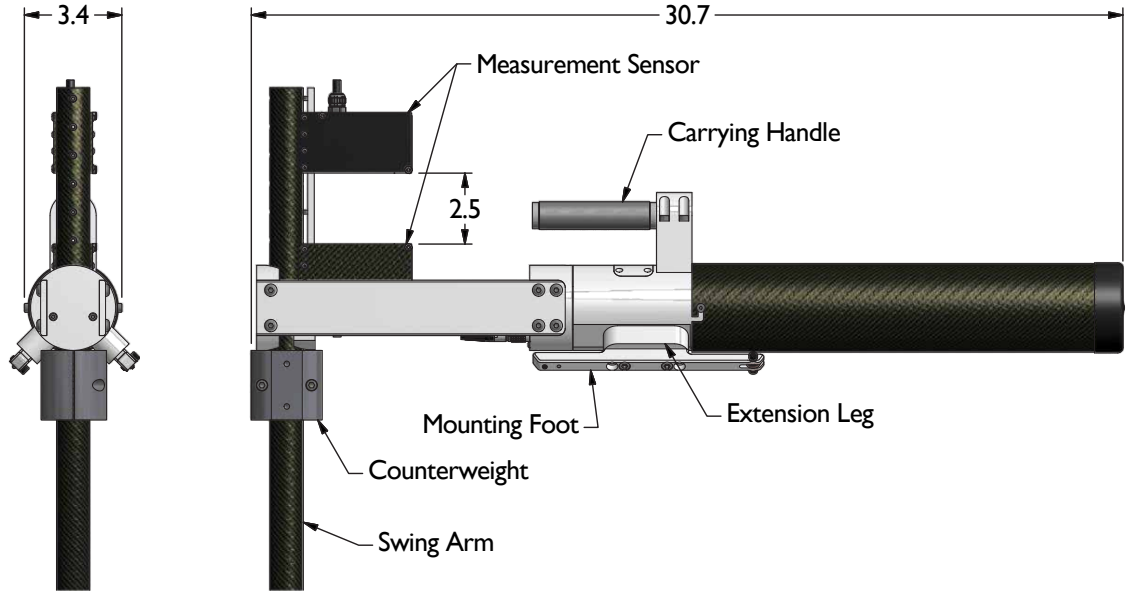
The end matching software optimizes hi-lo mismatch on the ID and wall thickness, and presents the data in order, with rotation angle and resulting hi-lo mismatch.

PEMS Specifications	
Maximum Outside Diameter	48 inches
Minimum Inside Diameter	6 inches
Maximum Wall Thickness	2 inches
Measurements Per Pipe	2000
Accuracy	+/- 0.002 inches
Repeatability	+/- 0.001 inches
Time Per End Measure	45 seconds
Power Source	110V, 50-60 Hz
Weight	30 lbs.

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Pipe End Measurement System

3.4

30.7

Measurement Sensor

Carrying Handle

2.5

Mounting Foot

Extension Leg

Counterweight
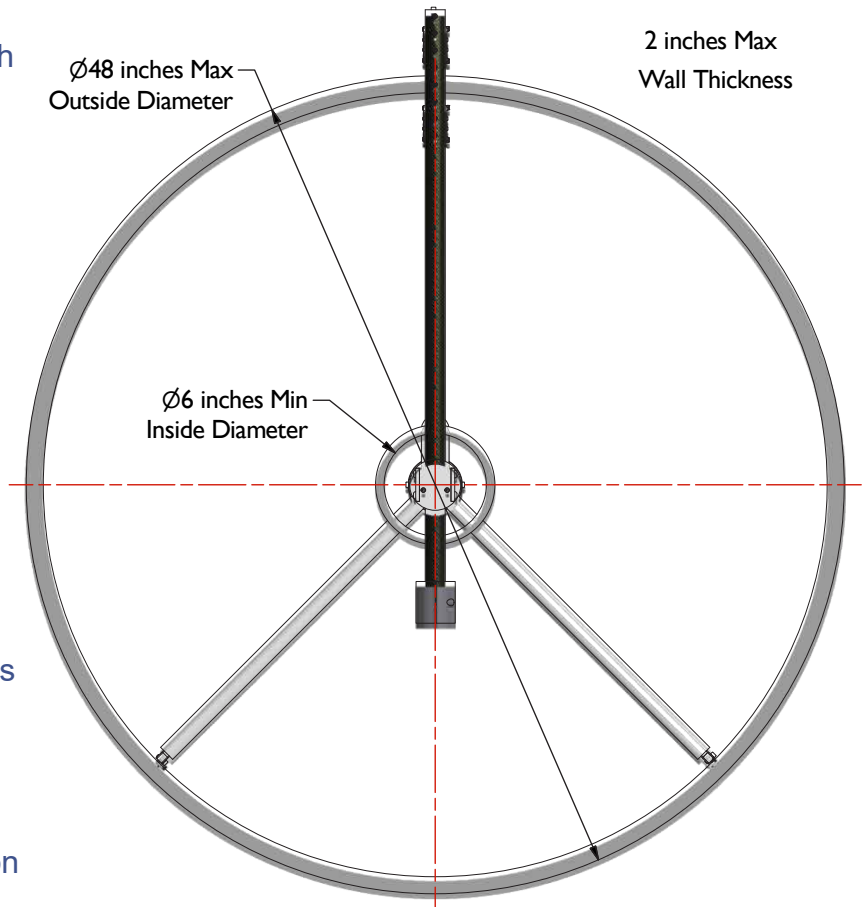
Swing Arm

Features:

- On-site calibration with calibration ring

- Temperature compensation

- Multiple software license options available

- Export data to Excell spread sheet

- Automated measurements

- 1" or 4" measurements locations

- User & Data logging

- Wirless communication to control computer

Ø48 inches Max Outside Diameter

2 inches Max Wall Thickness

Ø6 inches Min Inside Diameter