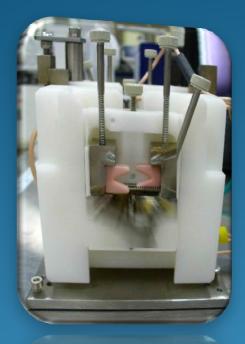
1 onolithic Industries

STREAM-GUIDE™ ULTRASONIC TUBE WALL THICKNESS ZUMBACH A5CF-4K UMAC FIXTURE GUIDES



STREAM GUIDE: MAKES ULTRASONIC TUBE WALL MEASUREMENT MORE RELIABLE

- A drop-in fixture design for the A5CF-4K Zumbach UMAC ultrasonic sensor fixture
- Ensures precision alignment of the tube in the center of the ultrasonic wave field
- Tube position in the field is critical to accurate wall thickness measurement

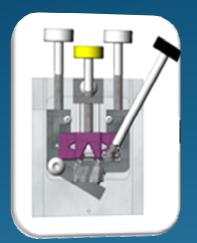


ELIMINATES NEED FOR GUIDE BLOCKS

- Standard model accommodates size range of tubing diameters from 0 to 0.125 inch. (Larger tubes can be accommodated)
- No need to machine expensive, multiple alignment block sets

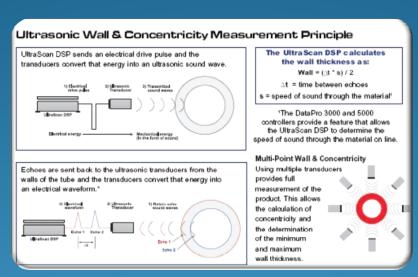
STREAM-GUIDE FEATURES

- Polished ceramic guides
- Stainless steel, Delrin, and ceramic materials
- Precision controls allow full range adjustment of tube:
 - Left, right, up and down
- Micro precision movement on both ends of Zumbach A5CF-4K fixture
- Standard model can accommodate tubing up to 0.125 inch diameter tubing



2009 MODEL

Provides third guide for greater positioning accuracy



- To attain correct and consistent wall thickness measurement, the tube must be kept centered in the ultrasonic field
- It must be kept centered at a tolerance 10-15% of the outer diameter of the tube you are measuring. This becomes critical when using only four sensors for measurement
- Field centering is critical when measuring 0.001 to 0.005 inch wall thicknesses

Traditional Drilled Guide Blocks:

- Expensive
- Difficult to machine precisely for small tubes
- Do not assure critical alignment
- Do not accommodate diameter changes during string up and process changes



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