

Universal fixturing with Aluquick

The new fixturing system Aluquick from Witte Far East Pte. Ltd., Singapore, is suitable for all kinds of applications. Particularly in aircraft maintenance work (MRO - maintenance, Repair and Overhaul) it can complement gauges used for checking irregular shaped pipes and thus achieve considerable savings in time and cost.

When for instance extremities, position and diameters of pipes, often bent into irregular shapes, have to be checked or measured on a coordinate measuring machine normally a dedicated fixture or gauge is required for each individual part.

The latest new component additions to the reusable Aluquick system enable mounting of pipes of different length, shape and diameter on fixtures built exclusively from standard components. This is made possible via items like rotary and angle elements, which adapt to workpiece contact points in all angles and degrees.

Additional scales on these adjustable elements enable repeatable settings so that measuring fixtures or gauges are adaptable to all kinds of pipe shapes.

Exchangeable U-shaped contour blocks check diameters and location of pipes in defined positions. The fixtures are adjusted using simple measuring accessories and the part is ready for measuring or checking.

Predesigning Aluquick fixtures using a parts library in CAD also simplifies assembly.



Photo left above: Aluquick fixture showing irregular shaped pipe mounted for measuring..

Photo right: Scales allow settings for repeatable positioning of pipes with different lengths, shapes and diameters