Product Name : Study The Behaviour Of A 3d Model Solicited By A Static Charge	Product Code : NLAB-TECHNICALAB30027
Description :	
Study The Behaviour Of A 3d Model Solicited By A Static Charge	
Technical Specification :	
Understanding the complete geometry of this support, it's connections w are applied to it.	ith the parts close and the efforts which
One can :	
Managura displacements, the strains, the strasses in judiciously calested	

Measure displacements, the strains, the stresses in judiciously selected points.

Confront the experimental results obtained by the deformations recorded by each of the 5 gauges and the displacements measured by the 4 comparators with those obtained by the computation software by finite elements in the case of simple efforts.

The student will carry out a static justification of the dimensioning based on the simplified theory of beams.

Technical specifications

The apparatus includes :

The measuring bench accurately reproducing the conditions of connections and loading of the support of piping.

It comprises:

1 loading screw operating the swing bar by means of a strength sensor of capacity 500 daN. This one carries out a mechanical action on the support of piping and makes it possible to measure the static charge applied.

4 mechanical dial gauges allowing to measure the 2 components of displacement in 2 points.

Support of piping in aluminium AU4G equipped with 5 strain gauges:

4 gauges stuck on contour external of the part allowing to determine locally, the normal stress.

1 gauge stuck on the heart of a U-shaped section allowing to determine locally, the tangential stress.

1 connector 15 pins for connection with the strain bridge.

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