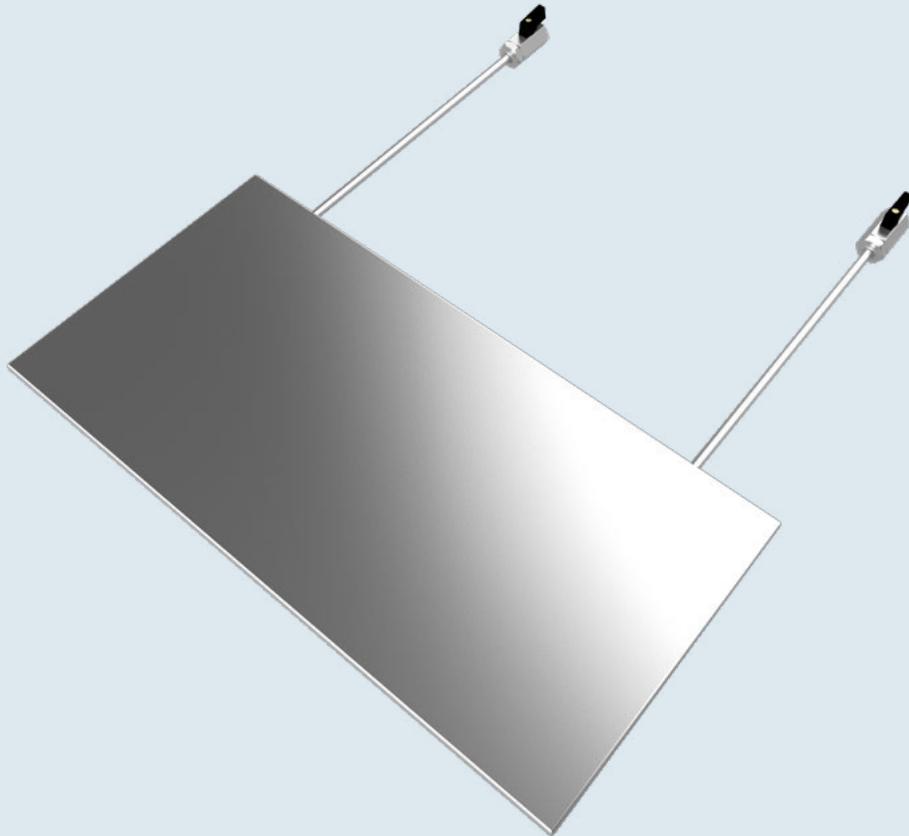


PR330 Flat Jack



Description

The PR330 system is able to perform non-destructive mechanical measurements in masonry, allowing to determine the state of stress present in the structures, as well as to determine its deformability characteristics.

The test is based on the measurement of the stress state in a point of the structure due to the effect of a cut made on the analysis part. The release of the tensions causes a closure of the cut. By initially positioning the heaters, in a symmetrical position with respect to the cut, the relative distance is measured before the cut and immediately after using a displacement sensor. A flat jack (made of a thin steel sheet) is inserted inside the cut which, managed by a hydraulic pump, will restore the initial state of the masonry by canceling the failure previously measured by the displacement sensor after the cutting operation .

Under these conditions, the pressure inside the jack, measured by a precision pressure gauge, is equal to the pre-existing stress in the masonry.

SIM STRUMENTI offers as an alternative to the mechanical measuring system (displacement sensor - pressure gauge) an automatic system, composed of displacement meters and a pressure meter, connected to a SIM STRUMENTI data acquisition system.

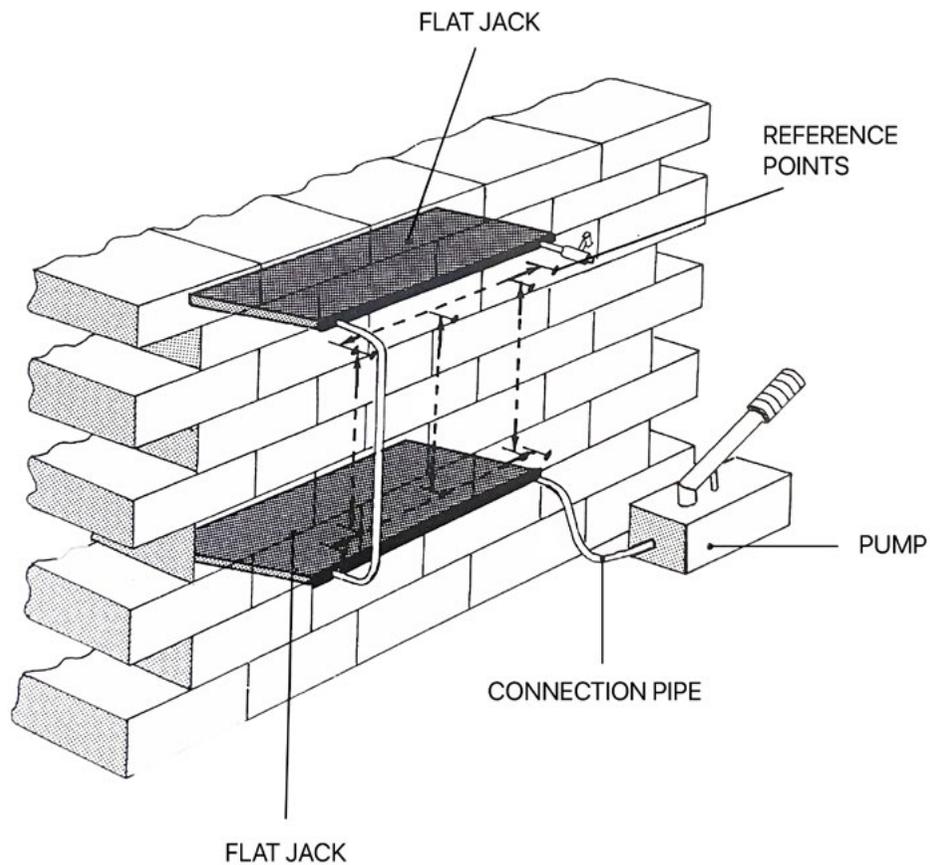
Finally, the flat jack can be left inside the walls during the restoration of the structures, so as to detect any overloads induced in the structures by means of special pressure gauges.

Applications

Pressure measurement in masonry, foundations, structures etc.



PR330 Flat Jack



Technical features

Model	PR330-FS*
Range	0.5-1-2-3-4-6-10-16-25-40-60-100 bar
Supply	8-24 Vcc
Output	4-20 mA
Linearity	0.25% FS
Repeatability	0.01% FS
Operating temperature	-20 ÷ +70 °C
Dimensions	200 x 400 x 6 mm
Weight	0.6 Kg
Material	Stainless Steel
Protection	IP68

Accessories

Hydraulic Pump	PR330-AX-PM
Joint meter	DS810

ED-06/22