



HYDRAULIC KIT FLAT JACK

The Hydraulic kit flat jack is made in accordance with all major global standards

- ASTM D4729 - 08 Standard Test Method for In Situ Stress and Modulus of Deformation Using Flat jack Method
- ASTM C1196 - 09 Standard Test Method for In Situ Compressive Stress Within Solid Unit Masonry Estimated Using Flat jack Measurements
- ASTM C1197 - 09 Standard Test Method for In Situ Measurement of Masonry Deformability Properties Using the Flat jack Method



The flat jack method is a diagnostic test used for buildings and masonry. This Semi Destructive Testing is usually performed directly on site to obtain specific and reliable information about the real static conditions of the structure, the loads acting on it (Estimation of the stress test - Single Jack Test) and the elastic modulus of the masonry (Double Jack Test). The flat jack kit is composed of a single-delivery hydraulic pressurisation unit connected to a hose fitted with rapid couplings and a pressure gauge to display the pressure. To perform the test, in addition to the hydraulic kit, you need the necessary equipment to obtain the measurement of displacements (mechanical deformometer or displacement transducer and pressure transducer connected to the DaTa500 acquisition system) and the power cutter, used to make cuts in the masonry. Running the test with the double jack requires a second hose, set of unions and junction valves. All the equipment is handy and easy to use.



RELIABILITY

All DRC's products are constantly subjected to rigorous controls from concept to fabrication, to testing, ensuring the most reliability and safety.



ERGONOMICS AND AVAILABILITY

DRC carefully selects its suppliers according to quality standard and environmental respect. The used materials are the best available in the market.



FIELDS OF APPLICATION

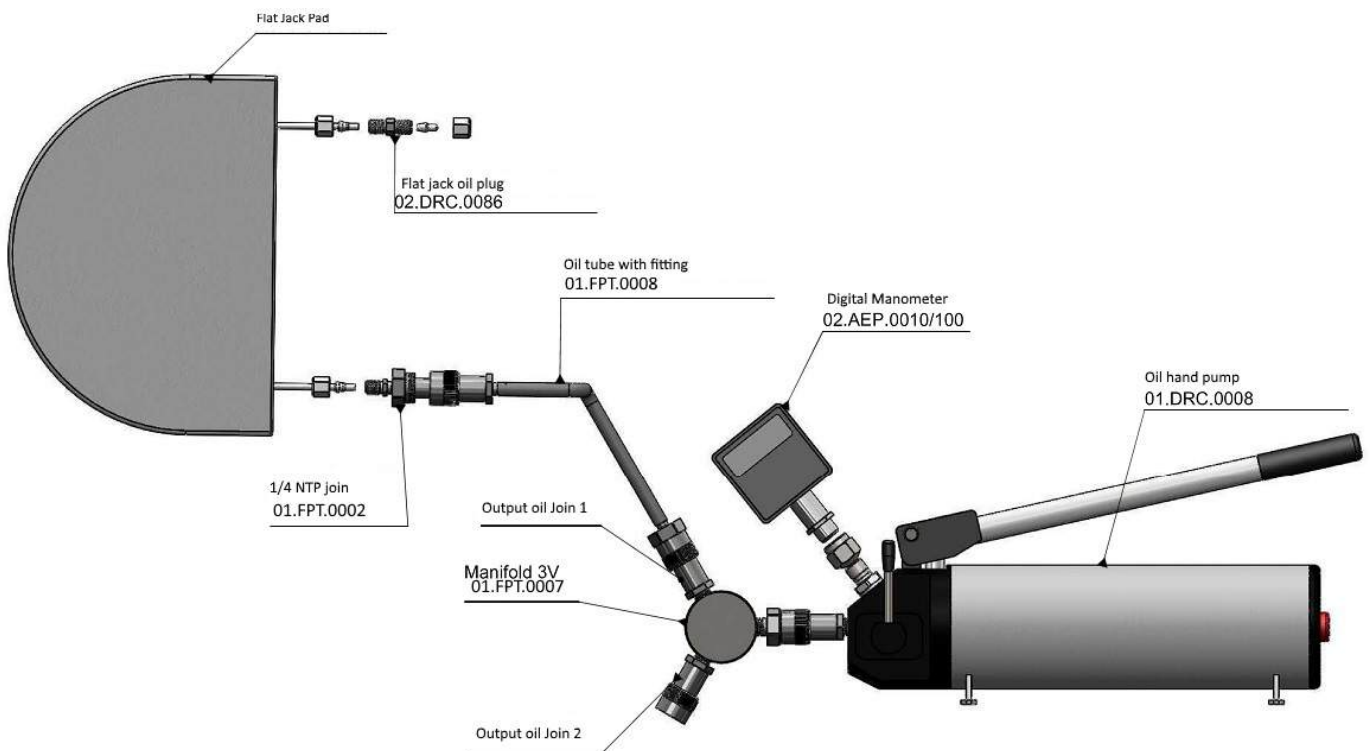
- Estimation of the stress state of the building structure - Single jack.
- Estimation of the mechanical characteristics of a representative sample of the masonry structure and determination of the modulus of elasticity - Double jack.
- Operating voltages of concrete structures, vaults, and passageways

TECHNICAL SPECIFICATIONS

PERFORMANCE

SINGLE STAGE PUMP		TANK CAPACITY	3 liters
MAXIMUM SYSTEM PRESSURE	700 bar	USABLE OIL CAPACITY	2,5 liters
OIL FLOW PER STROKE	3,1 cm ³		

FLAT JACKS COMPLETE SYSTEM CONNECTION



ARTICLE CODE

01.DRC.0008

01.FPT.0008

02.AEP.0010/100

02.DRC.0086

01.FPT.0002

01.FPT.0007

Depends on shape and size

DESCRIPTION

Oil hand pump

Oil tube with fitting

Digital manometer

Flat jack oil plug

1/4 NPT join

Manifold 3V

Flat jack pad



THE KIT INCLUDES:

- Manual pressurisation unit
- N. 2 connection hoses (mt. 2), maximum pressure 700 bar
- Bypass complete with valves and quick couplings
- Digital manometer 0-100bar - 0,1bar
- Pressure gauge mount
- Pressure socket
- User manual
- Rigid transport case

PACKAGE

DIMENSIONS	780 x 280 x 280 mm
WEIGHT	25,0 Kg



WARRANTY & MAINTENANCE

24
months

DRC guarantees maintenance service at its center or at authorized centers.

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