

Technical data sheet

Item number: 1.00150
MatchCode/Type: CRS.OCX40.20
Designation: Constant Rate of Strain Cell (CRS)



Intrastat code: Country of origin: DE Net weight (kg): 3,700
Drawing number:
Electrical data:
Dimensions: 220 x 125 x 300 mm (B x T x H)
Standards: ASTM D4186
Catchwords: CRS Constant Rate of Strain, Oedometer, Compression, Consolidation

The CRS cell is used to determine the consolidation behavior when lateral expansion is prevented with the help of a constant vertical deformation speed. During the test, the pore water of the sample can drain vertically, whereby the axial load (on the top of the sample) and the pore water pressure (on the bottom of the sample / in the base) are measured at the same time. From the course of the measured vertical stress, the excess pore water pressure and the vertical deformation, the effective stress can be calculated and the consolidation behavior can be determined. With the CRS cell, experiments can be done out under various pressure conditions up to a cell pressure of 5 bar. In addition to the CRS cell, a load frame with a constant speed rate and the appropriate software for data acquisition and evaluation are required.

- Specifications:
- sample area: 40 cm²
 - sample height: 20 mm
 - max. cell pressure: 5 bar
 - Material: Plastic and stainless steel
sintered stainless steel for the porous stones
 - weight: approx. 3,7 kg

without sensors, must be ordered separately, see the following items

Recommended accessories (not included):

Quantity	Article-No.	Description
1 pcs.	E.00154 PR-25Y.10	Pressure transmitter 10 bar
1 pcs.	2.00004 DMU25/1000	digital gauge 25 mm 1/1000, with battery