



SCC-CL Advanced Auto Constant Load Testing Device

Description:

The basic design of the unit includes a compact ball screw driver actuator, with DC motor and planetary gear, and a load cell with a digital force indicator. There is, as well, a dial indicator with 0.01 mm graduations for measuring linear displacement during testing.

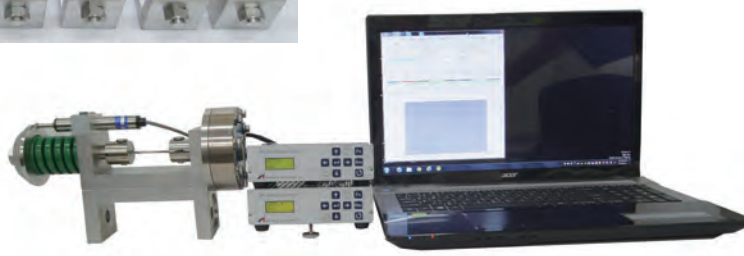
The force can be set from the front panel of a digital force indicator or from PC software. The specimen breakdown time can be seen either from a time counter at the front panel or from the PC.

AI's automatically operational constant load instrument is for the investigation of various forms of stress corrosion cracking (SCC) under different environmental conditions.

Specification:

- CL constant load testing
- Loading range: 10 \ 20 kN

Specification	10 kN model	20 kN model
Maximum axial load	10 kN	20 kN
Displacement range	30 mm	30 mm
Load accuracy	0.5% FS	
Serial port	RS-485 or RS-232	
Power supply	230 VAC or 110 VAC	



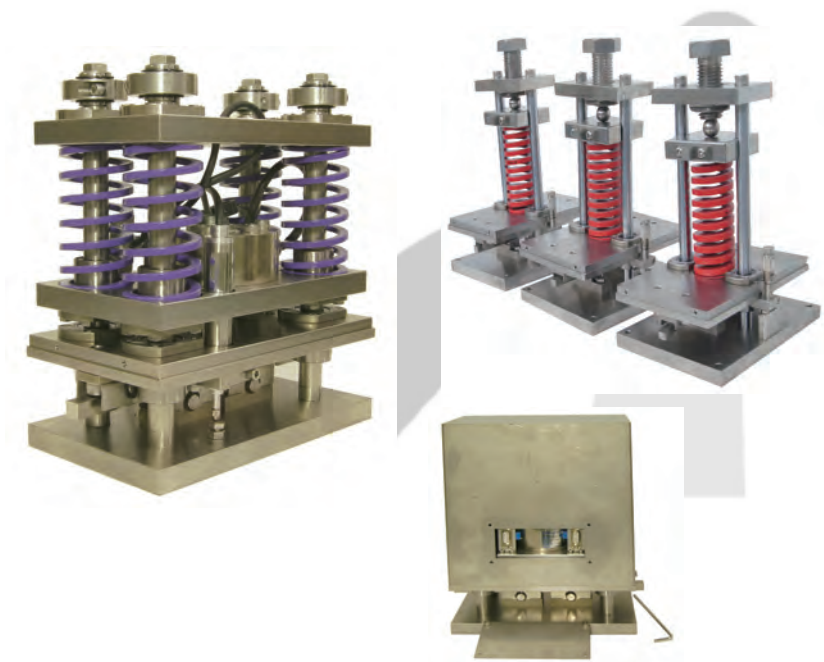
- Specimen Holder
 - Electrically isolated specimen holders for round or flat specimens are available in different standards.
 - Customized designs for the special applications are also available.



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Specification:

- Linear displacement transducer or extensometer for specimen elongation measurements.
- Datum-acquisition to computer for load, displacement, temperature, pressure... etc.
- Customized electrochemistry measurements e.g. potential control and/or measurement system, including pH and redox.
- Low and high temperature autoclaves for 1, 2 or 4 loading units as standard.
- Glass and polymer cells with different kinds of heating systems.
- Other instruments and other AI's products can be integrated with loading units.
- All options are integrated to work with the same PC at Windows environment.
- Testing system applications can be contingent on clients' requirements or e.g. NACE TM0177 and ASTM G44.



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Stress Corrosion Cracking (SCC) Test Equipment