

STATIC CERTIFICATION SYSTEM FlexPLI | aPLI | Upperleg

The static certification procedure requires the certification of the bones and the knee assembly. Included in the scope of supply is a fixture and the data acquisition to perform the static certification according to the manual.

Also included are the jigs that hold the bones and knee assembly during the certification test.

The system contains a HBM U15 load cell and a string potentiometer. The data processing can be done by the Notebook of the basic system.



Scope of Supply:

- Base Unit
- Sensors and Data Acquisition system – ISO9001 factory (ISO/IEC 17025 on request)
- Notebook for Report creation
- Jigs for Knee assembly test
- Jigs for bone calibration



Website

Specification:

Testing type	compression
Basic control mode	Speed control with load limits
Load capacity	15 [kN]
Maximum speed	200 [mm/min]
Minimum speed	0.05 [mm/min]
Return speed	200 [mm/min]
Crosshead speed accuracy	± 1% of set speed at steady state and no load
Crosshead position control resolution	0.03 [mm]
Displacement accuracy under no load conditions	equal or less than ±
Displacement repeatability	± 0.015 [mm]
Displacement Measurement accuracy	± 0.01 mm or 0.05% of displacement (whichever is greater)
Load measurement accuracy	± 0.5% of reading down to 1/200 of load cell capacity.
Data Acquisition Rate at the PC	Up to 200 kHz simultaneous on force and displacement
Three Phase Voltage	400 VAC ±10%, 47 to 63 Hz
Dimensions	500x500x2000 [mm]
Weight	400 kg
Operating Temperature	+5 to +40°C (+41 to +104°F).
Storage Temperature	-25 to +55°C (-13 to +131°F).
Humidity Range	+10 to +90%, non-condensing at 20°C

