

Force Sensor Calibration System SCS-FO

- Based on General Loading Frame Platform;
- Support Vehicle Crash Test Dummy Load Cell;
- Support Seatbelt Load Cell;
- Loading Force max. 50kN;
- Including 8-Chs Simultaneous DAQ;
- Output Sensitivity, Non-Lin. etc.;
- Support Shunt Check;
- Support Calibration Fixtures Design;
- Controlled by Software, and Report Generation Support.

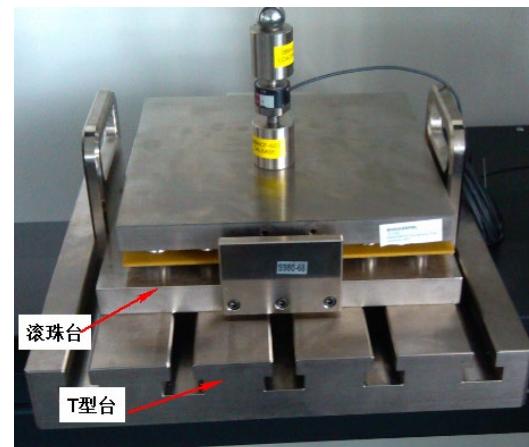
Force Sensor Calibration System SCS-FO is a flexible calibration platform for all kinds of force sensors. In principle, it is not only suitable for general load cell, but also for Vehicle Crash Test Dummy Load Cells. As to special force sensor, it can be done by fixture design. Normally the default setup can finish calibration Strain Gauge Load Cell and a Force Test Chian directly. It needs to add a Charge Amplifier for Piezoelectric Force Sensor. The system mainly includes Loading Frame, Reference Force Sensor, Data Acquisition Device, Sensor Interface Box, Calibration Fixtures and Software.



Technical Specification (20°C±2°C, 30%RH~75%RH):

Name	Result
Loading Force Max.	50kN
Loading Frame Moving	≥600mm
Loading Frame Moving Rate	0.1mm/min~500mm/min
Reference Load Cell	9kN, 22kN 45kN (Optional)
Ref. Load Cell Non-Lin.	≤±0.035% FS
Data Acquisition Device	8-Chs 24bit A/D Simultaneous Excitation Voltage 5V or 10V Range: ±10mV/V~±1V/V Sampling Frequency ≥20kHz
Sensor Interface Support	Connector LEMO EGG. 1B.307 Full/Half Bridge, Voltage Mode Support SHUNT Check
Mainly Machine Weight	About 1500kg
Power	3kW 1P 220V ±10%
Others	Including Raised Platform Including Safety Shield Including T-Working Platform Ball Bearing Platform optional

Dummy Load Cell Calibration Picture:



Force Sensor Calibration Software Picture:



Note:

Reference Displacement Sensor can be added if needed;
API/Flex-PLI Stationary Calibration Modules are optional;
KISTLER DTI Type Calibration Function is optional.