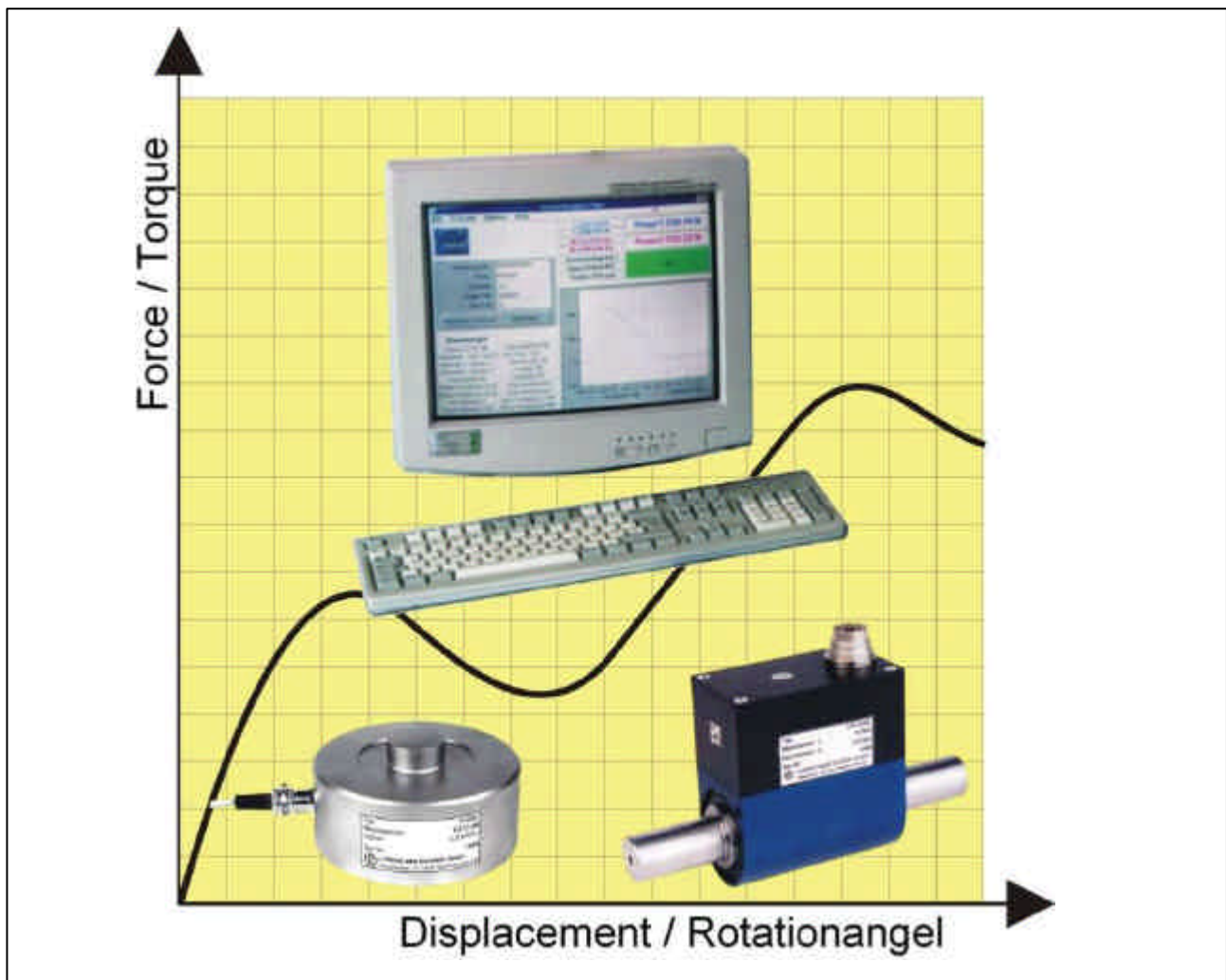


## System solution on PC basis

**LSL****Sensoric - Measured value acquisition - Processing - Evaluation and statistics****Application examples:**

- Motor test stands
- Research and development
- Quality assurance / manufacturing control
- Insert press monitoring systems
- Torque-/ torque angle-, force-/ displacement- testing devices



Additionally to the wide sensor program LORENZ offers system solutions LSL on pc-basis.

The customer has a contact person for the complete task. The customer can concentrate on his main competences and will benefit of the field knowledge of LORENZ company.

Our various software-library allows quick transcription of customer specific measurement tasks.

## Application examples

Typical applications are acquisition of characteristics. Single or several measuring signals which are being detected depending on time, displacement, angle or other measuring signals are being processed.

Evaluations : according to the requirement min./max.-values, characteristics increase- or comparisons can be displayed or printed.  
Besides that the user has the possibility to analyze the characteristic (ASCII-data file) with a spread sheet himself.

### **Examples force-/ displacement-applications:**

- Monitoring of insert press operations: plug connectors, sockets, ball bearings
- Tension force measurements: material testing machines, feather testing machines, Electro magnets, pull-out force measurement of ball joints, plugs
- Backlash measurement: bearing, joints, fits

### **Examples torque-/ angle-applications:**

- Friction measurement of crank arrangements: windshield wiper gear, hinges
- Torsional measurements of friction clutches
- Solidity examination of pressing processes
- General.torque-/ torque angle examination, e.g..of turn switches, coil springs, stepper motors, lever gear

### **Examples torque-/ speed-applications:**

- Level of efficiency measurement: gear box (2 torque signals and one speed signal option noise level measurement).
- Performance-/ level of efficiency measurement: motor test stands (torque-/ speed signal and current-/ voltage signal).

### **Exam. combined force-/ torque-measurements depending on displacement / angle:**

- Boltening technique: performance of a bolted connection from von tightening torque to initial stressing or angle of rotation (also see combined sensors for torque and force by LORENZ).

## Delivery content

Depending on the requirements we offer part or complete solutions.

### **Measured data acquisition**

- Software, PC and measuring card
- Sensors

### **Mechanical configuration**

- Testing devices
- Test piece jigs

## Prices

on request according to standard specifications