

# Tablet Hardness Testing Interface™ Mini's

Industry: Medical and Healthcare

## Summary

### Customer Need / Challenge

A pharmaceutical tablet producer wanted to test and monitor the hardness of the tablets being created in their tablet forming machine.

### Interface Solution

Interface's SML Low Height S-Type Load Cell was mounted to the hardness testing device inside the tablet forming machine. The SML Low Height S-Type Load Cell was then connected to the 9870 High-Speed High Performance TEDS Ready Indicator to record the force measurements.

### Results

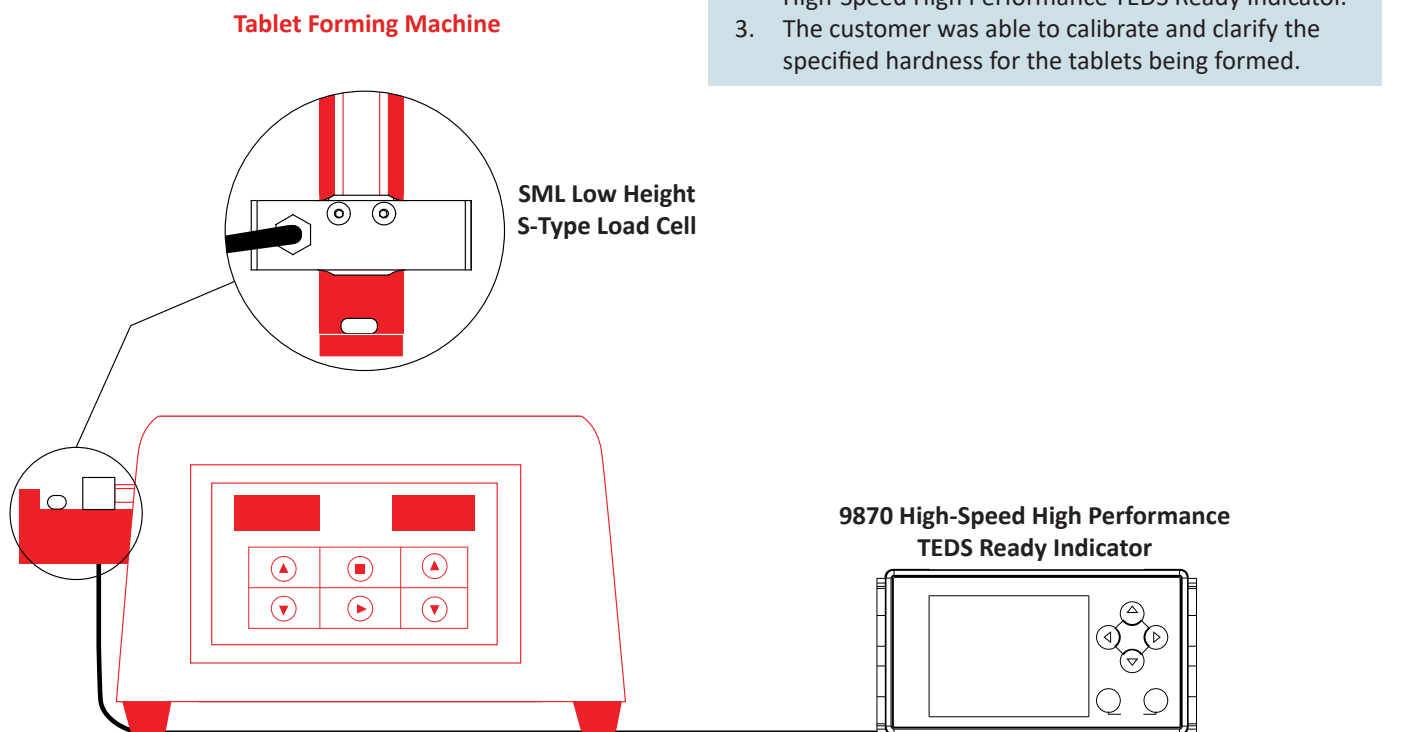
The tablet producer was able to verify and test the specific hardness needed for their tablets being produced by their tablet forming machine.

## Materials

- SML Low Height S-Type Load Cell
- 9870 High-Speed High Performance TEDS Ready Indicator

## How It Works

1. The SML Low Height S-Type Load cell was customized to fit into the hardness testing device inside the tablet forming machine.
2. The output of the SML was connected to the 9870 High-Speed High Performance TEDS Ready Indicator.
3. The customer was able to calibrate and clarify the specified hardness for the tablets being formed.



# Tablet Machine Hardness Tester Calibration Load Cell

Industry: Medical and Healthcare

## Summary

### Customer Need / Challenge

A customer wants to re-calibrate tablet hardness testers. The customer needs a mini-load cell the size of a sugar cube that replaces the tablets and fits horizontally in the tablet test-box. Therefore, a special cable exit is important for the compression only calibration application

### Interface Solution

Interface's MCC Miniature Compression Load Cell can measure forces on its side with a special cable exit on the flat side that attaches to the calibration indicator, such as the Interface handheld indicator and datalogger Model 9330. The MCC load-cell calibration set compares the applied forces with the hardness tester to make sure that the tablet hardness tester uses the correct force for future tablet hardness tests. The BlueDAQ software helps to log and compare the data of the MCC reference load cell.

### Results

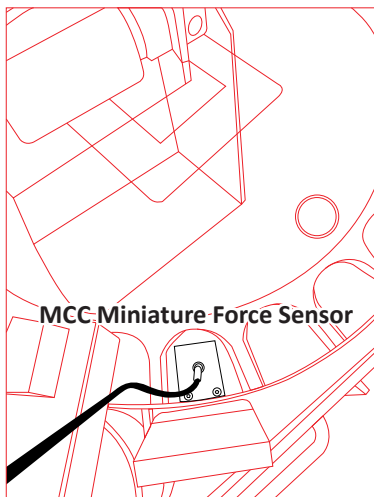
In the past, the machines had to be rebuilt for calibrations, or a complex mechanism had to be integrated to enable vertical calibration. The customer successfully verified and calibrated the tablet hardness tester machine horizontally to conduct accurate hardness testing on tablets in the future. Interface's MCC Miniature Compression Load Cell was perfect due to its small size, and convenient to measure the forces on its side.

## Materials

- MCC Miniature Compression Load Cell
- 9330 Battery Powered High Speed Data Logging Indicator
- BlueDAQ Software included with instrument purchase
- Customer's PC or Laptop

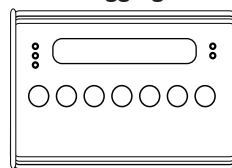
## How It Works

1. The MCC Miniature Compression Load Cell is connected to the hardness testing mechanism inside of the tablet machine.
2. Calibration results are sent to the 9330 Battery Powered High Speed Data Logging Indicator, where data is logged and graphed.
3. Data is processed using BlueDAQ Software, which stores and logs data in the customer's PC computer or laptop.



Tablet Machine

9330 Battery Powered High Speed Data Logging Indicator



MCC Miniature Compression Load Cell

Customer PC with supplied software

