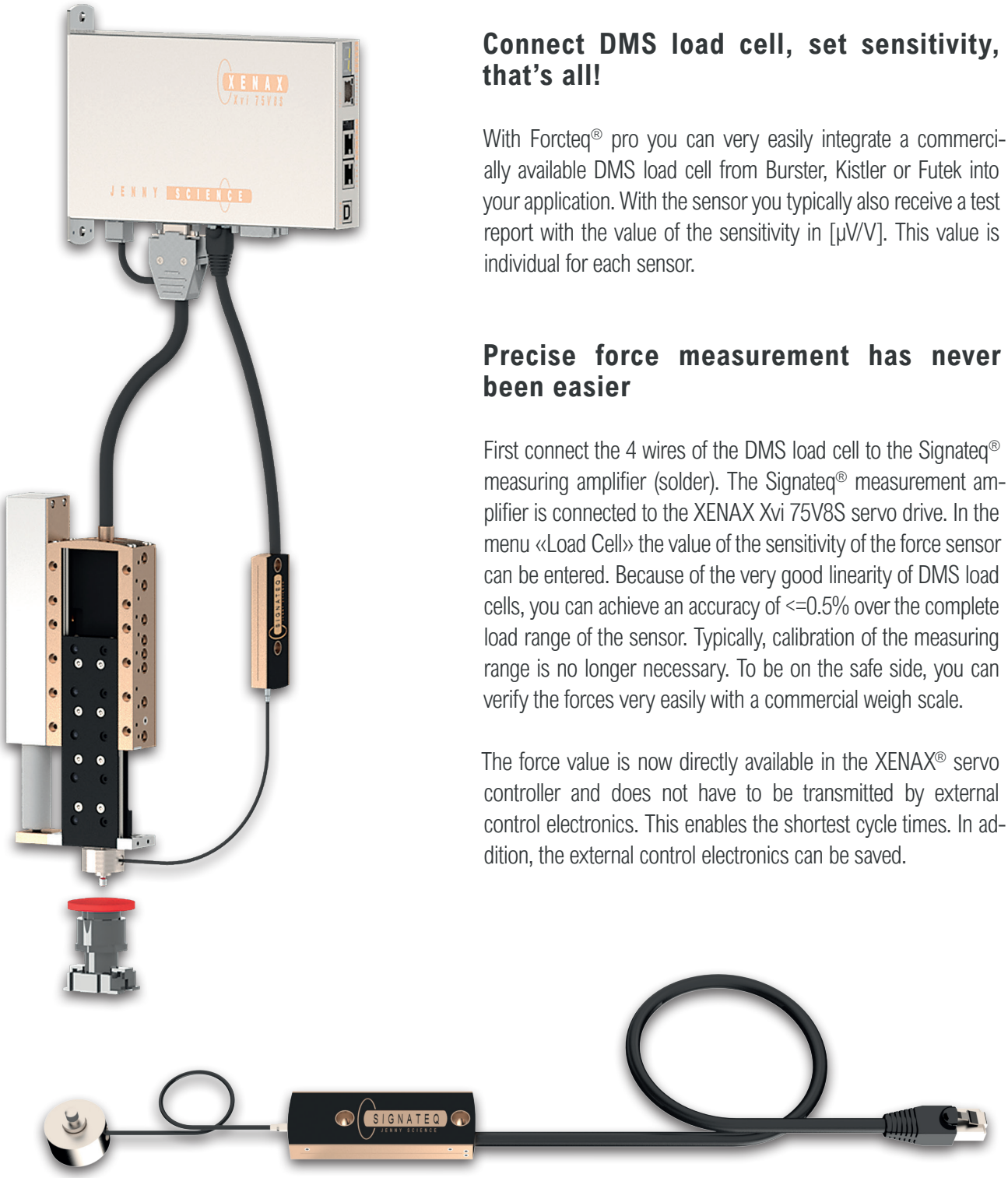
# **Forceteq®** basic


## Current based with self calibrated motor

The Forceteq® basic measurement technology is completely integrated in the XENAX® Xvi servo controller. This allows force-monitored control of all Jenny Science linear and rotary motor axes. The force measured during the production process using the patented Forceteq® measurement technology, no external force sensor is required. This allows you to acquire and record quality-relevant force-distance diagrams for all movements. Assembly operations can be monitored «in process». Errors and discrepancies are detected immediately. This means better quality and higher throughput. Additional checking stations are no longer necessary.

· for Standalone Operation
· Up to 10 force sectors programmable with WebMotion®

# **Forceteq®** pro with Signateq® measuring amplifier




## Connect DMS load cell, set sensitivity, that's all!

With Forcteq® pro you can very easily integrate a commercially available DMS load cell from Burster, Kistler or Futek into your application. With the sensor you typically also receive a test report with the value of the sensitivity in [µV/V]. This value is individual for each sensor.

## Precise force measurement has never been easier

First connect the 4 wires of the DMS load cell to the Signateq® measuring amplifier (solder). The Signateq® measurement amplifier is connected to the XENAX Xvi 75V8S servo drive. In the menu «Load Cell» the value of the sensitivity of the force sensor can be entered. Because of the very good linearity of DMS load cells, you can achieve an accuracy of <=0.5% over the complete load range of the sensor. Typically, calibration of the measuring range is no longer necessary. To be on the safe side, you can verify the forces very easily with a commercial weigh scale.

The force value is now directly available in the XENAX® servo controller and does not have to be transmitted by external control electronics. This enables the shortest cycle times. In addition, the external control electronics can be saved.