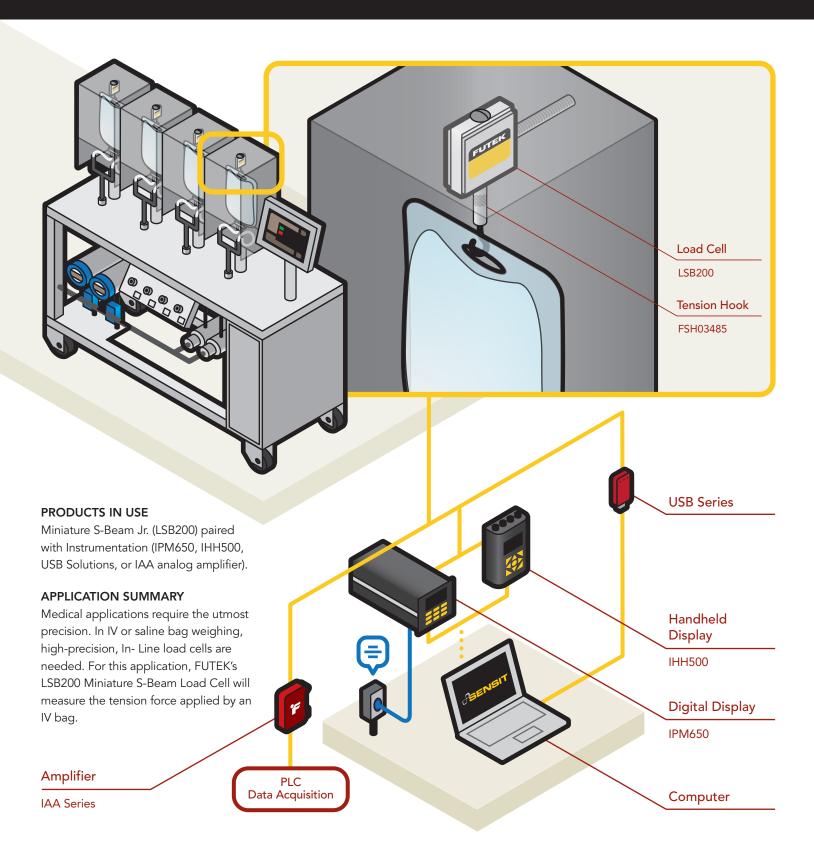
Giunti di forza estensimetrici miniatura

I giunti di forza miniatura offrono flessibilità di misura in molti ambienti applicativi. Ad esempio la cella di carico subminiatura ad "S" LSB200, grazie al blocco meccanico di fondo scala, consente misure con elevata accuratezza ed affidabilità anche in presenza di sovraccarichi nel ciclo di lavoro. LSB200 è una delle celle più innovative nel settore del Test & Measurement.

Medical Bag Weighing (Application 101)	Medical Behavioral Research (Application 129)	OEM Syringe Test Stand (Application 130)
Syringe Test Stand (Application 131)	Humanoid Robot Load Cell (Application 132)	Catheter Track Force Test (Application 134)
Prone Stereostatic Biospy (Application 139)	Catheter Force Measurement (Application 144)	Laparoscopic Calibration (Application 145)

	M !: 10 :1 : T :	5 1 .: 61 5 1 1:11: .:
Trackpad/Touchpad Test Stand	Medical Guidewire Test	Robotic Glove Rehabilitation
(Application 147)	(Application 151)	(Application 156)
Robotic Leg Rehabilitation	Touchscreen Haptic Feedback	Precision Wire Tensioner
(Application 157)	(Application 165)	(Application 166)
Die Attach Force Measurement	Robotic Spot Welding Force	Endoscope Force Control
(Application 170)	(Application 173)	(Application 177)





 $\begin{tabular}{ll} Sensor Solution Source \\ Load \cdot Torque \cdot Pressure \cdot Multi Axis \cdot Calibration \cdot Instruments \cdot Software \\ \end{tabular}$

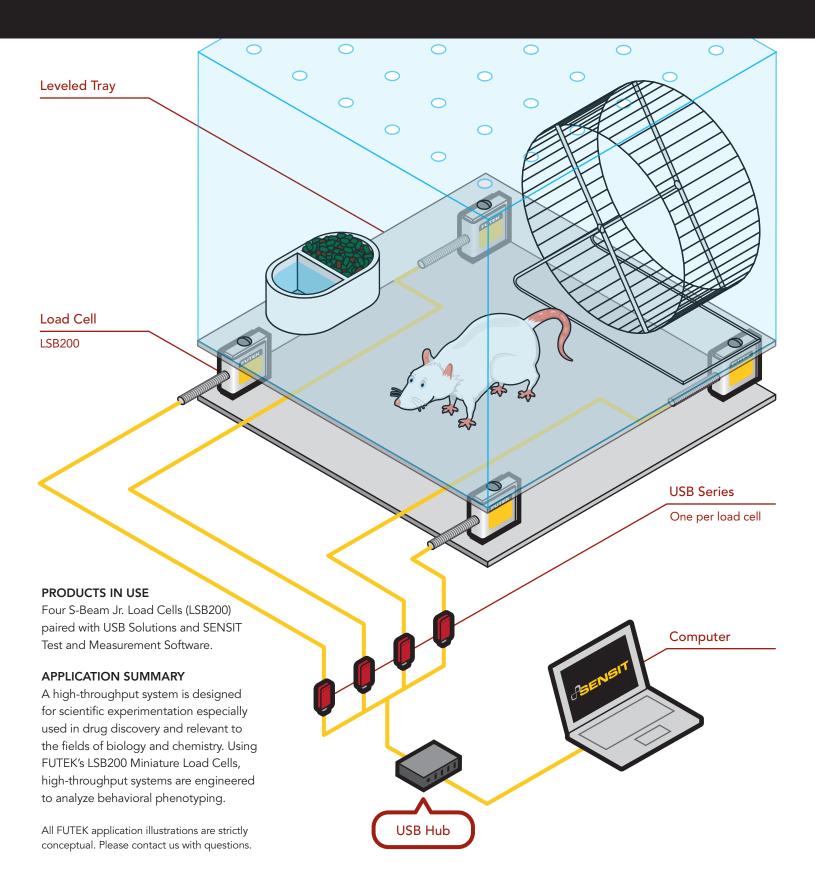












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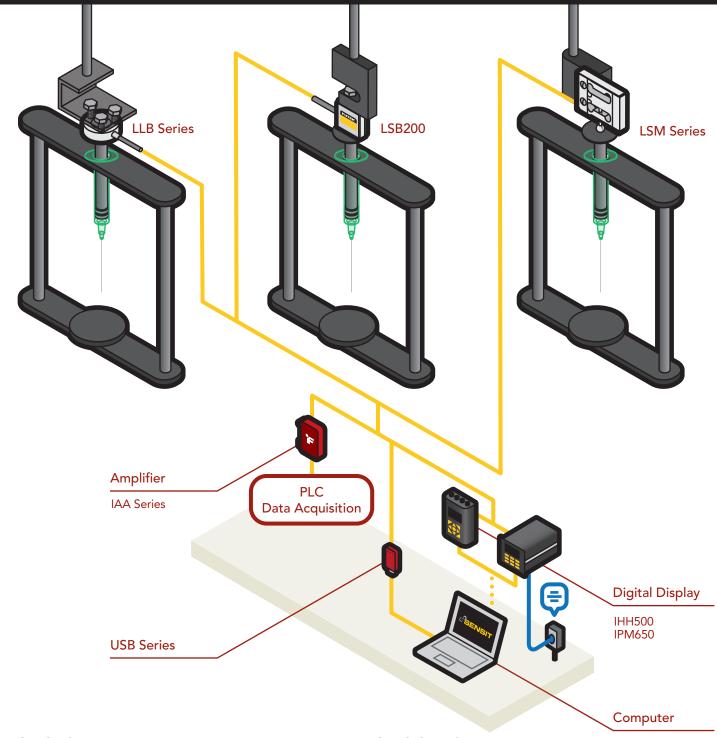












Utilizing OEM load cells to audit syringes (infusion pumps) provides medical quality inspectors with assurance that these apparatuses will perform up to code.

PRODUCTS IN USE

One S-Beam Jr. Load Cell (LSB200), Side-Mount Series Load Cell (LSM Series), or Load Button Load Cell (LLB Series) paired with Instrumentation (IAA analog amplifier, IPM650, IHH500, or USB Solutions) and SENSITTM Test and Measurement Software.

Sensor Solution Source



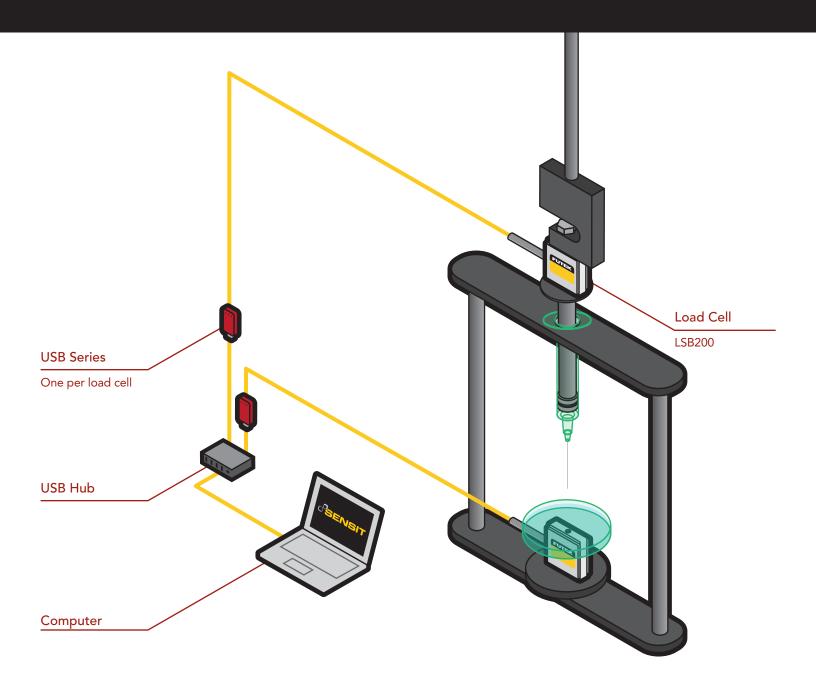












All FUTEK application illustrations are strictly conceptual. Please contact us with questions.

APPLICATION SUMMARY

Medical equipment requires precise testing. Utilizing FUTEK's LSB200 Miniature S-Beam Jr. provides quality inspectors with measurements down to the micro-gram on delicate applications, such as this syringe test stand (infusion pump).

PRODUCTS IN USE

Two S-Beam Jr. Load Cells (LSB200) paired with USB Solutions and SENSIT Test and Measurement Software.

DSPM Industria*

sensori & trasduttori

 $\begin{tabular}{ll} Sensor Solution Source \\ Load \cdot Torque \cdot Pressure \cdot Multi Axis \cdot Calibration \cdot Instruments \cdot Software \\ \end{tabular}$



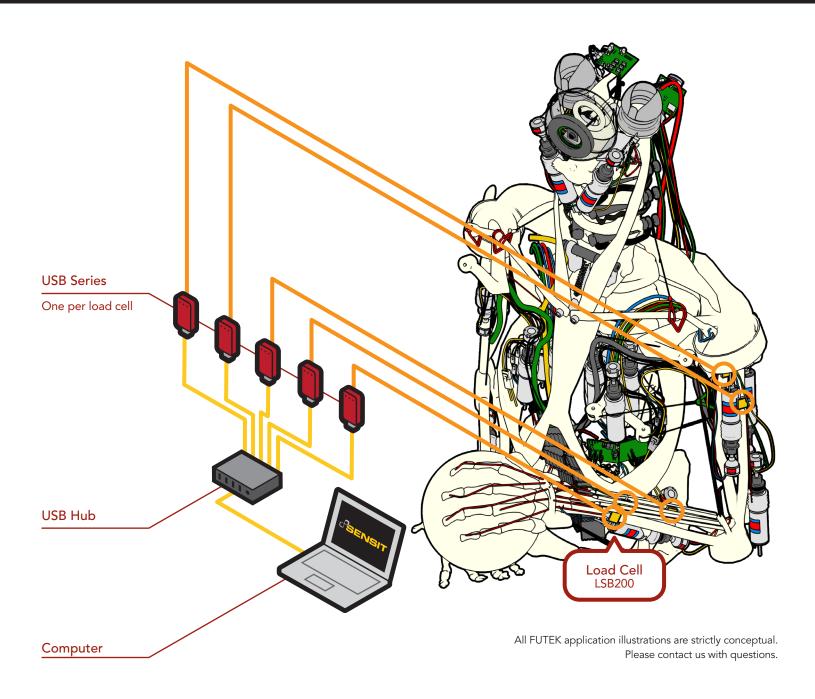












PRODUCTS IN USE

60+ Miniature S-Beam Jr. Load Cells (LSB200) with USB Solutions and SENSIT™ Test and Measurement Software.

APPLICATION SUMMARY

FUTEK partnered with The Robot Studio, a specialist in biometric robotic hardware, to construct a fully functional humanoid robot. Over 60 of FUTEK's LSB200 Miniature S-Beam Jr. Load Cells are in operation to monitor the robot's movements.

Sensor Solution Source





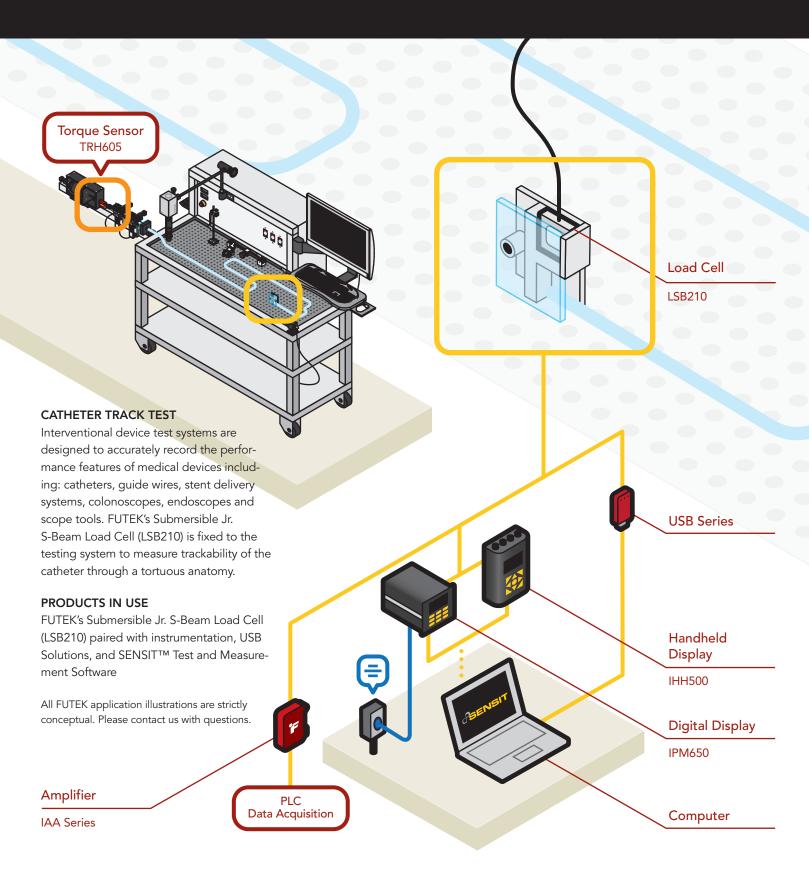












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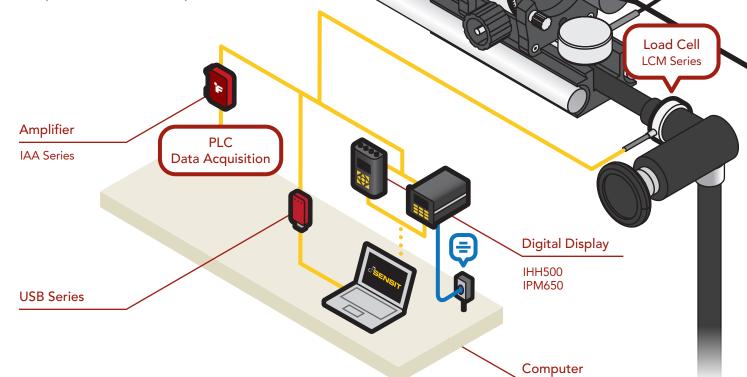


Biopsies for the removal and study of suspect tissue require the simultaneous use and monitoring of real-time ultrasound, x-ray, CT, or MRI imaging while inserting and controlling the biopsy needle. Simplification and automating the biopsy process has the ability the reduce operator error and improve patient care, especially during the emotionally difficult time of cancer screening. To automate the biopsy process, a sub-miniature load cell is placed in-line with the biopsy syringe and control arm to monitor insertion forces.

PRODUCTS IN USE

FUTEK's Sub-Miniature Tension and Compression Load Cell (LCM Series) coupled with instrumentation (IAA Series).

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Sensor Solution Source





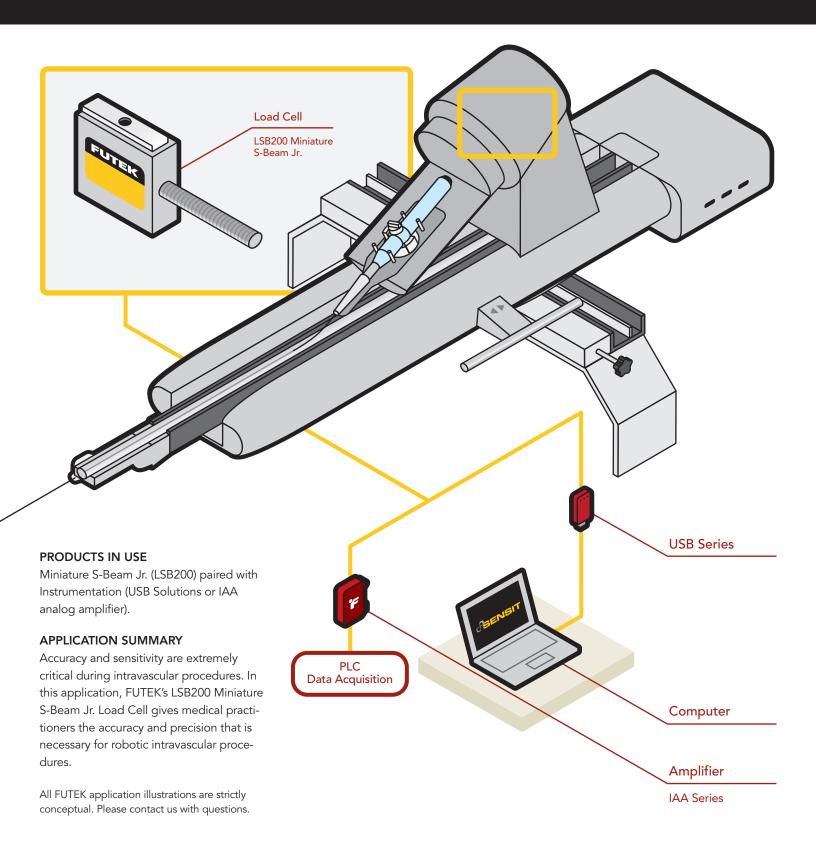














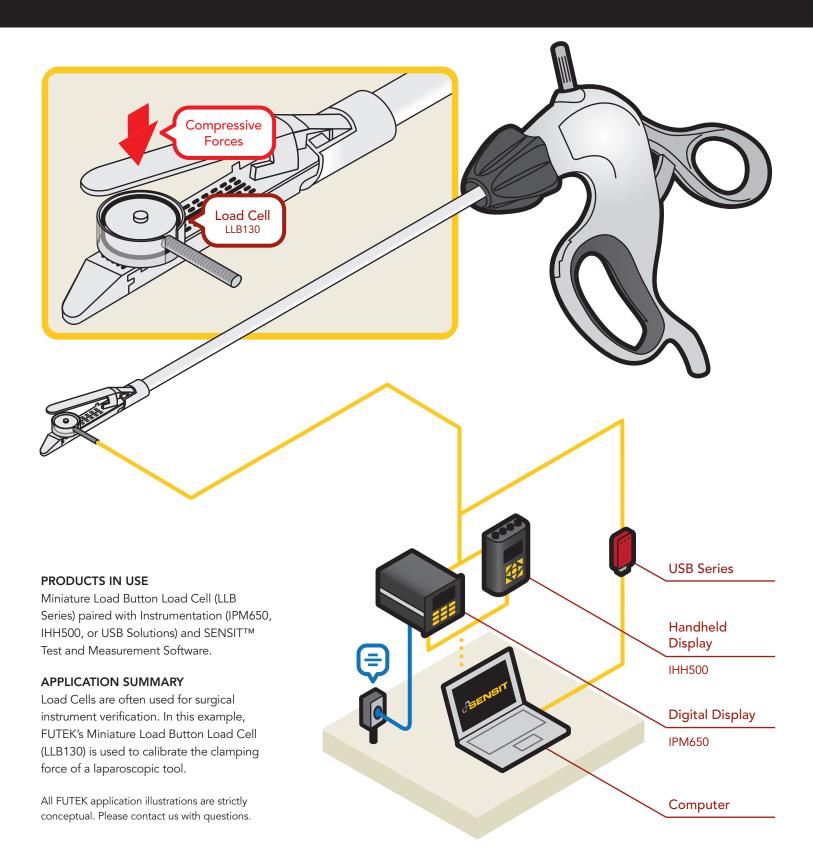












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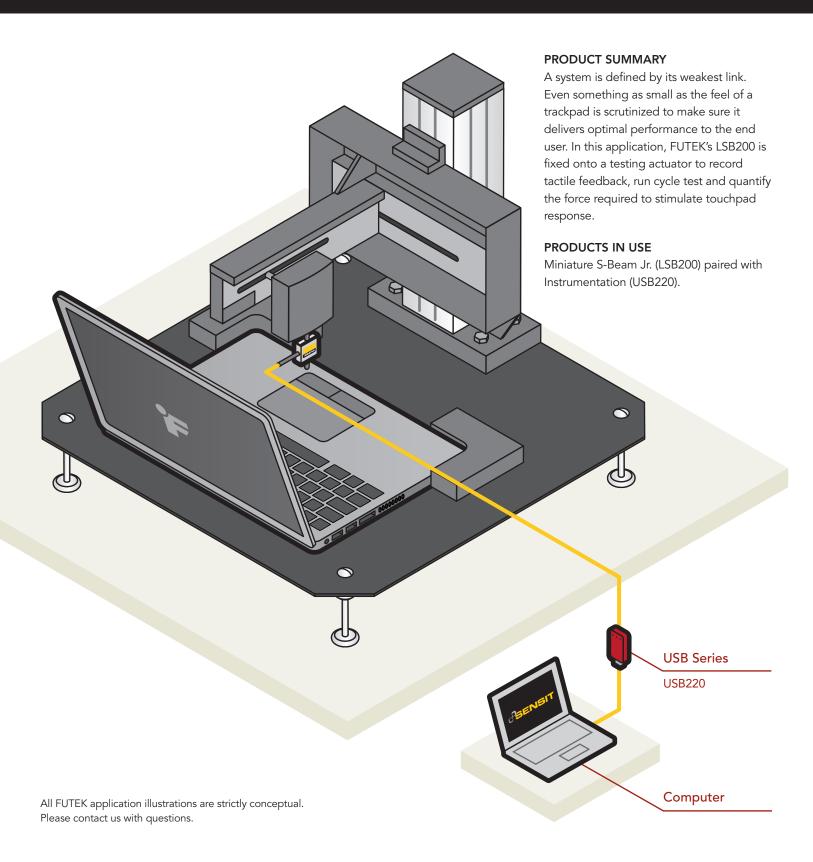












 $\begin{tabular}{ll} Sensor Solution Source \\ Load \cdot Torque \cdot Pressure \cdot Multi Axis \cdot Calibration \cdot Instruments \cdot Software \\ \end{tabular}$



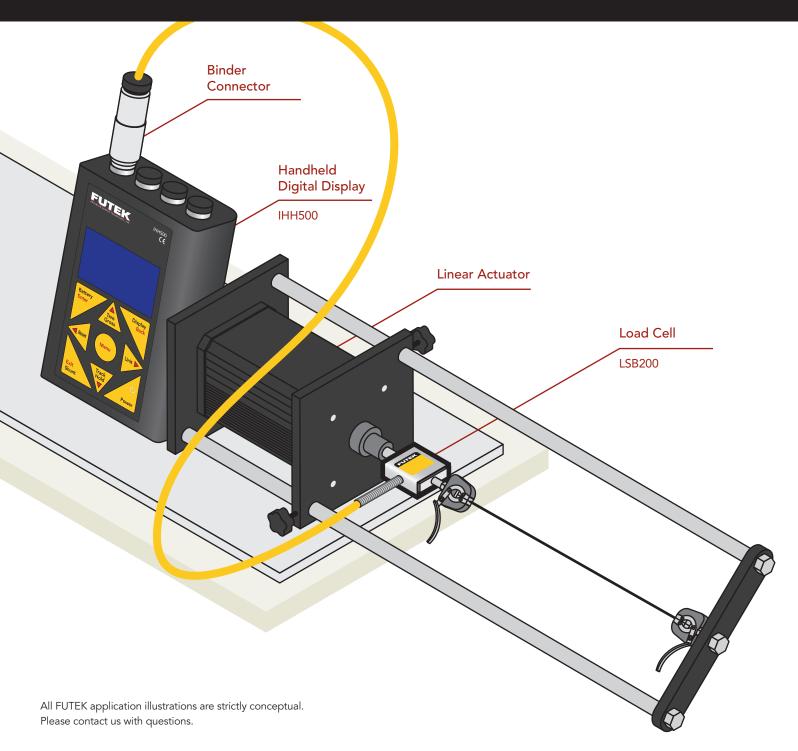












In the medical industry, guidewire testing can provide a means of evaluating material quality, and core wire consistency and reliability. In this automated guidewire testing system FUTEK's LSB200 Miniature S-Beam Load Cell is integrated to the wire clamp, guided by an actuator, to record the peak force or breaking force of the guidewire under test.

PRODUCTS IN USE

Miniature S-Beam Jr. (LSB200) paired with Instrumentation (IHH500 or USB Solutions).

Sensor Solution Source



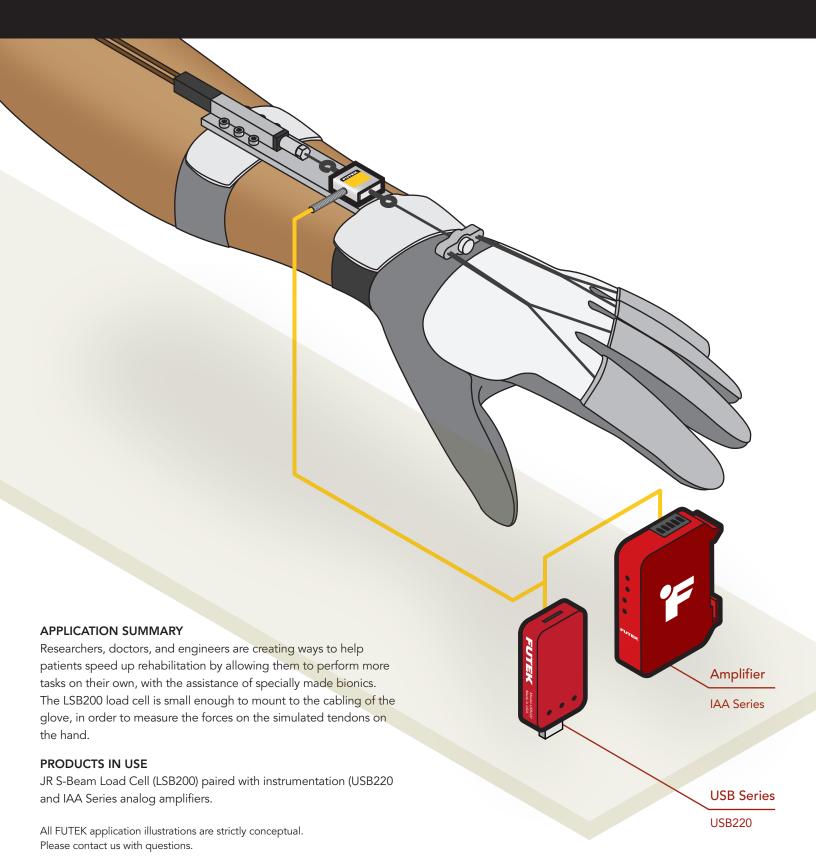












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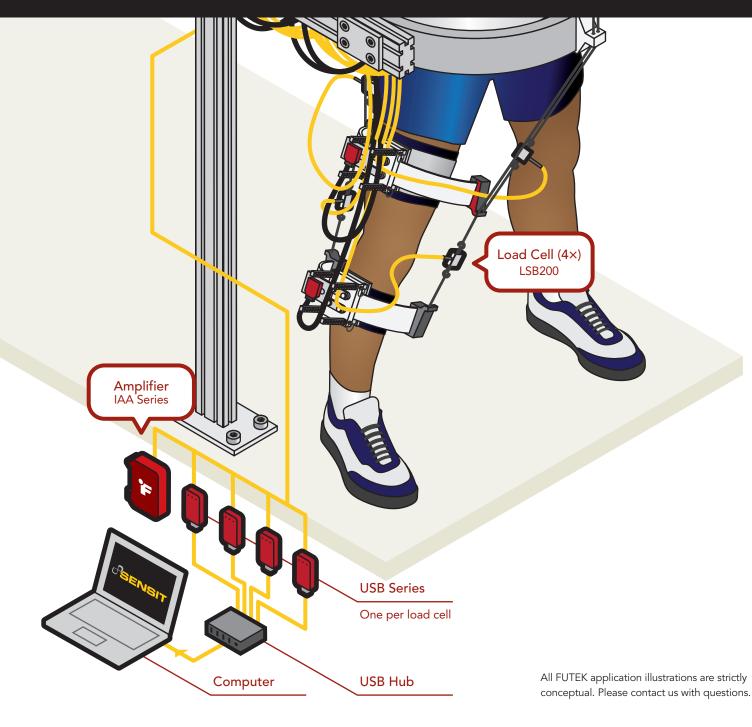












Gait training and rehabilitation are not modern concepts, but through modern technologies, engineers and researchers are working on developing exoskeletons to help rehabilitate a patient at a more accelerated pace. Critical measurements are gathered during development of motor-assisted exoskeletons to ensure that proper assistance is given at different stages of treatment.

PRODUCTS IN USE

JR S-Beam Load Cell (LSB200) paired with instrumentation (USB220 and IAA Series analog amplifiers).

Sensor Solution Source





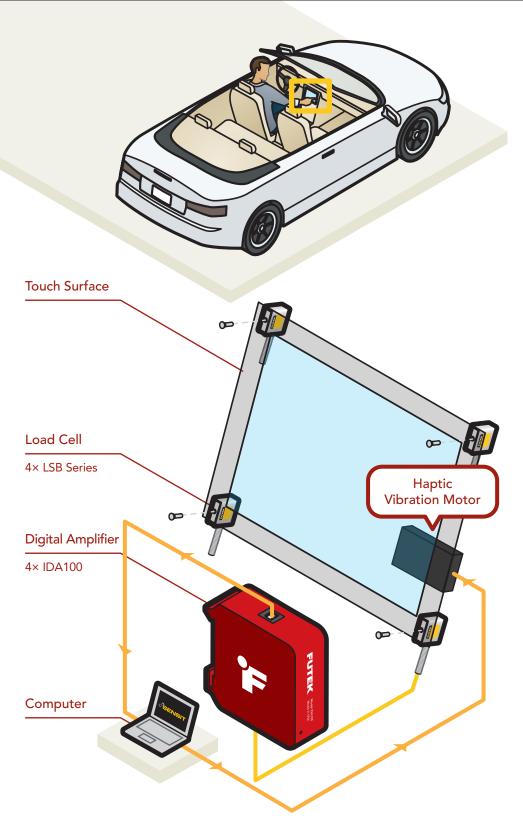












As automotive entertainment UIs become more sophisticated, it's become harder to control them hands free without looking directly at the screen. The lack of tactile feedback results in the user's brain wanting to look at the screen to confirm input selection. By incorporating load cells to measure contact force, the on-board computer can confirm correct and incorrect inputs using varying vibrations, ensuring the driver that their input was correctly registered.

PRODUCTS IN USE

4 LSB200 In-line Tension and Compression S-Beam Load Cells each paired with an IDA100 Digital and Analog Amplifier

All FUTEK application illustrations are strictly conceptual. Please contact us with questions.

Sensor Solution Source



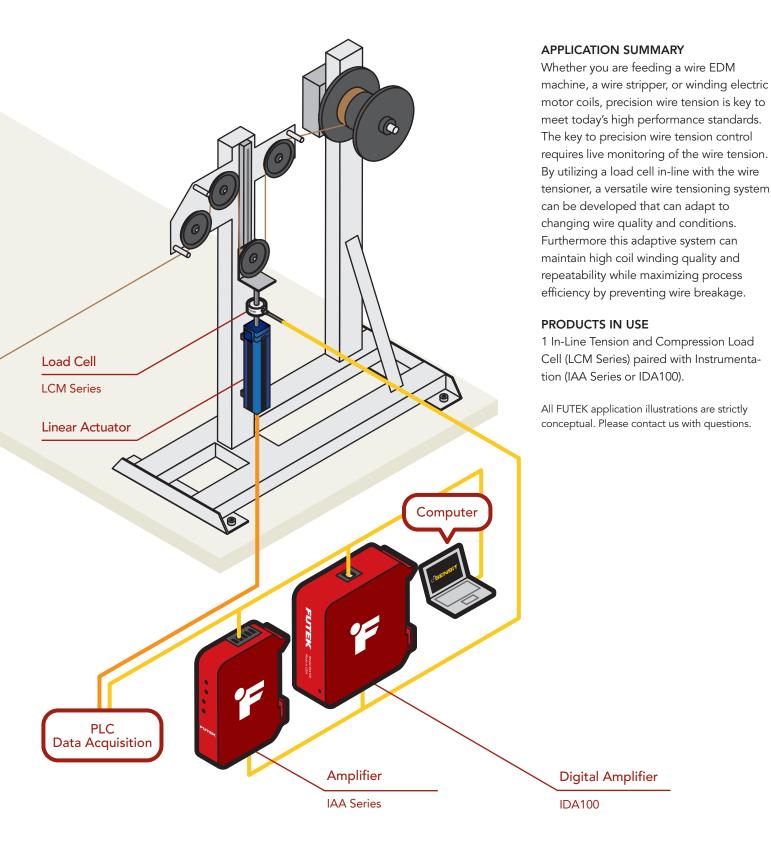












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Sensor Solution Source

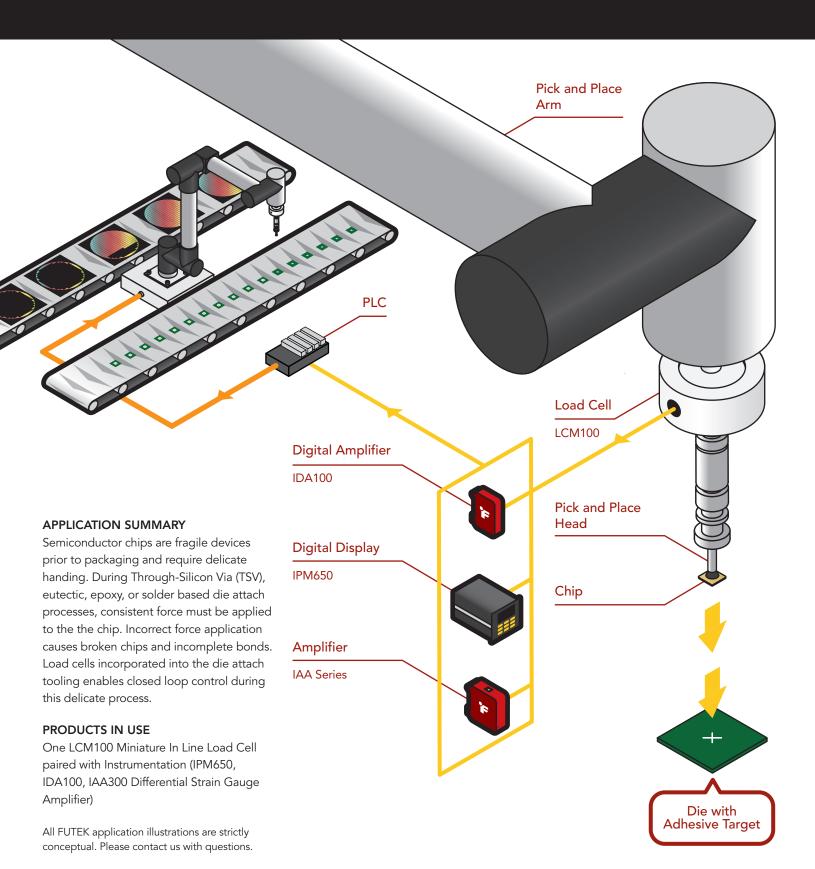












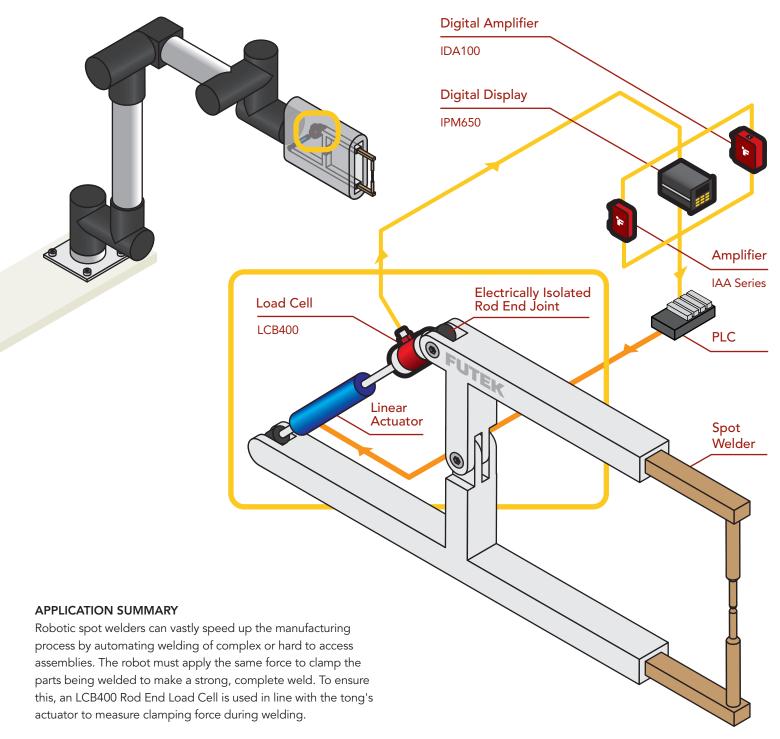












PRODUCTS IN USE

One LCB400 Rod End Load Cell paired with Instrumentation (IAA Series or IDA100)

All FUTEK application illustrations are strictly conceptual. Please contact us with questions.

Sensor Solution Source

Load · Torque · Pressure · Multi Axis · Calibration · Instruments · Software



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