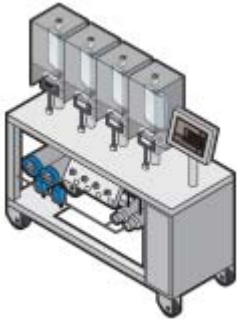
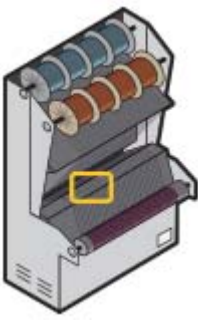
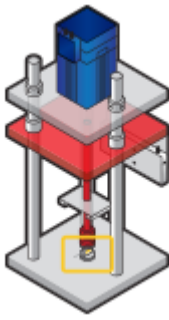
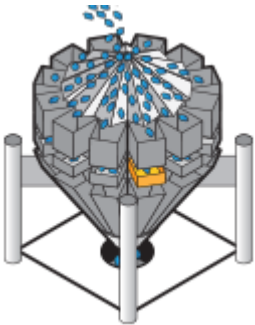
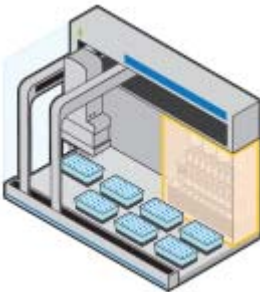
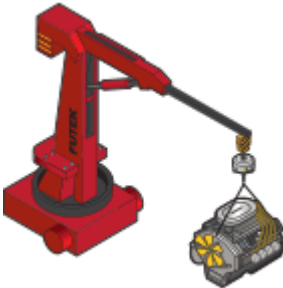
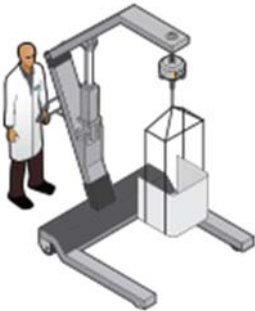
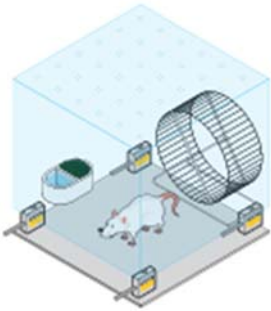



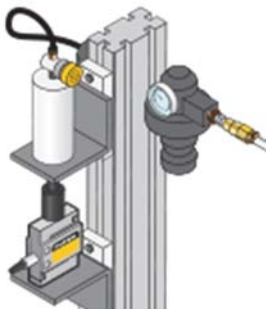




Applicazione Celle di carico miniatura a "S"

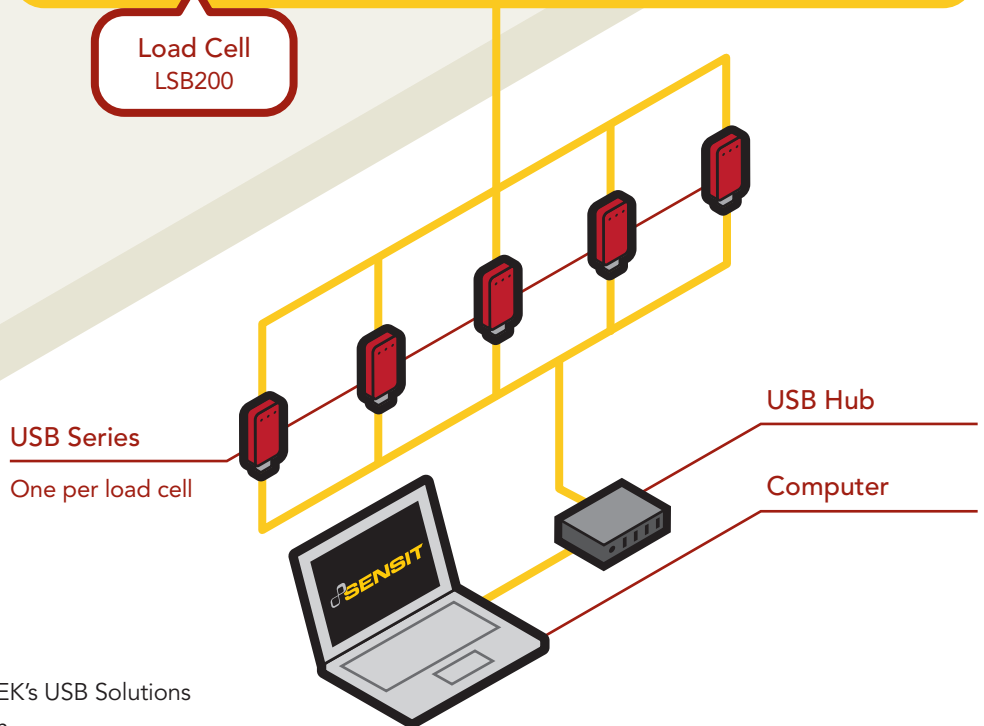
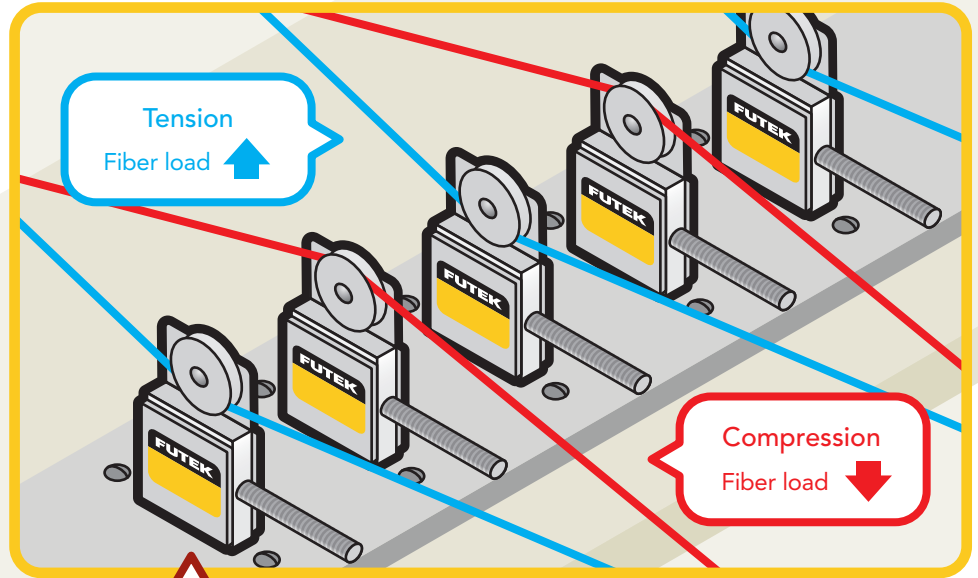
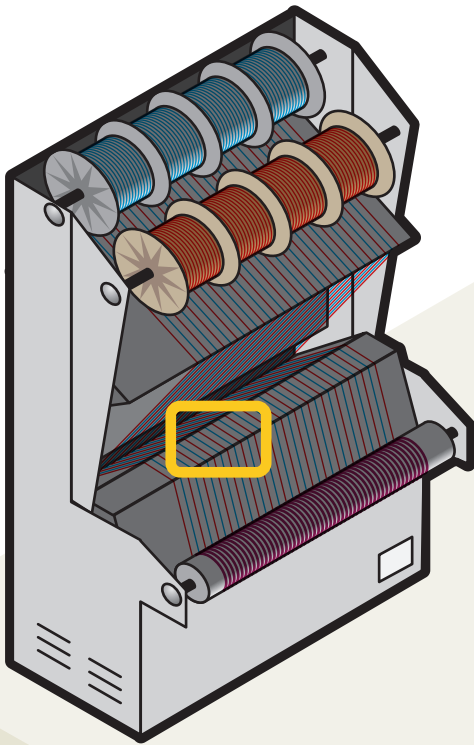
La semplicità di integrazione di una cella di carico all'interno di un sistema di misura è fondamentale per la sua efficacia. Le celle di carico FUTEK modello LSB200 hanno dimostrato, in migliaia d'installazioni e applicazioni che vanno dalla sacca medica con il controllo del peso, al controllo tensionale del trefolo nell'avvolgimento. La cella LSB200 a "S" è diventata uno dei sensori più innovativi e di perfetta affidabilità all'interno del settore di test e misura, grazie alla sicurezza del blocco meccanico al fondo scala e la sua miniaturizzazione.

Medical Bag Weighing (Application 101)	Wire Tension Measurement (Application 104)	Linear Test Stand (Application 109)
		
Multihead Weigher (Application 111)	DNA Synthesis (Application 112)	Portable Crane Weighing (Application 122)
		
Medical Patient Lift (Application 123)	Medical Behavioral Research (Application 129)	OEM Syringe Test Stand (Application 130)
		

Syringe Test Stand (Application 131)	Humanoid Robot Load Cell (Application 132)	Reliability Test Stand (Application 142)
		
TAVR Fatigue Testing (Application 163)	Fluid Flow Rate Measurement (Application 174)	
		



U.S. Manufacture



PRODUCTS IN USE

Miniature S-Beam Jr. (LSB200) paired with FUTEK's USB Solutions for monitoring tension force and data collection.

APPLICATION SUMMARY

Wire tension measurement is an integral part for manufacturers of fibers, cables, and even textile fabrics. This method of measurement allows manufactures to ensure their products fit their requirements.

Sensor Solution Source

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

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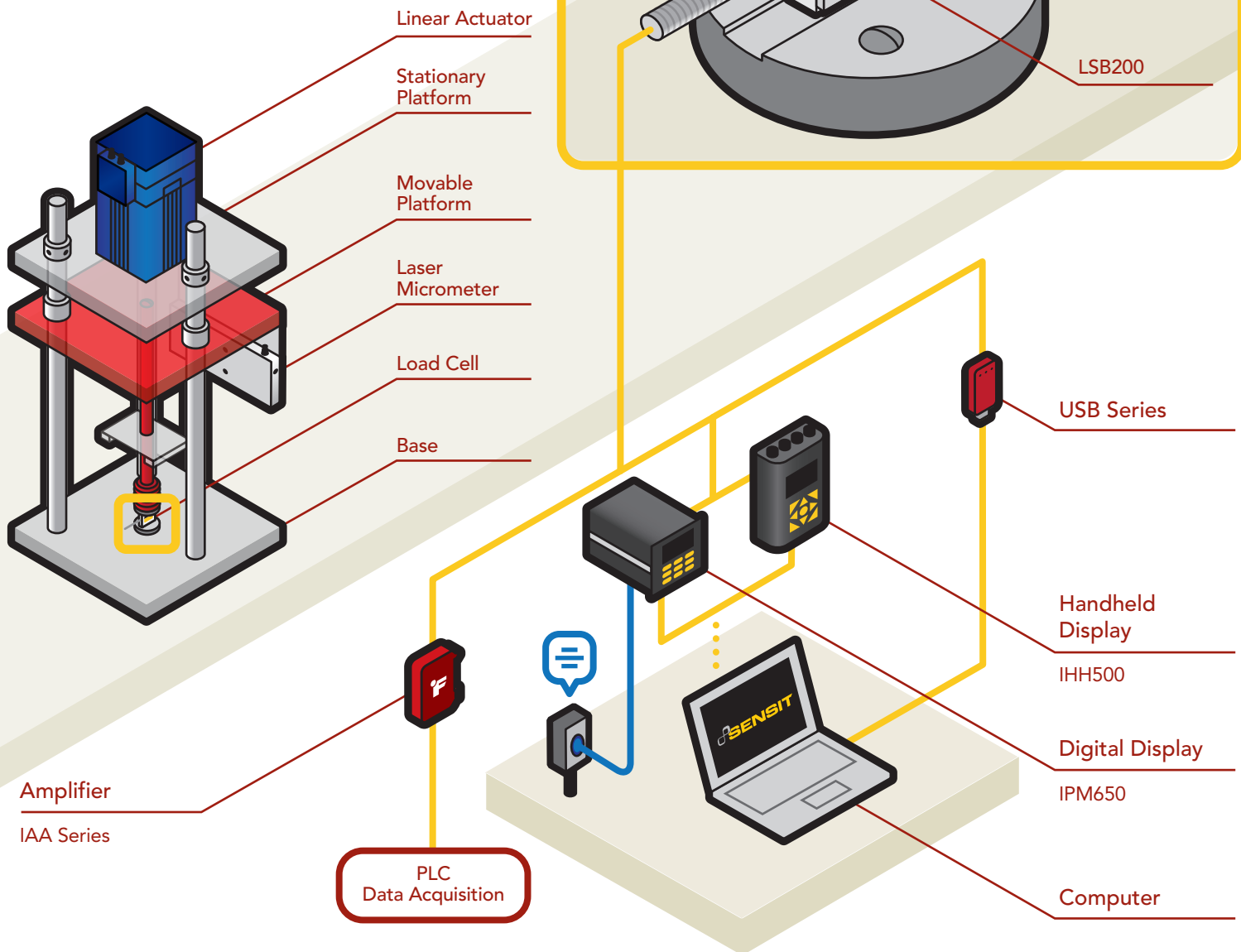


PRODUCTS IN USE

Miniature S-Beam Jr. (LSB200) paired with Instrumentation (IPM650, IHH500, USB Solutions, or IAA analog amplifier).

APPLICATION SUMMARY

Many industries use test fixtures to measure their presses or impact stands. FUTEK's LSB200 Load Cell is suitable for applications needing precise lower capacity impact test measurements.



Sensor Solution Source

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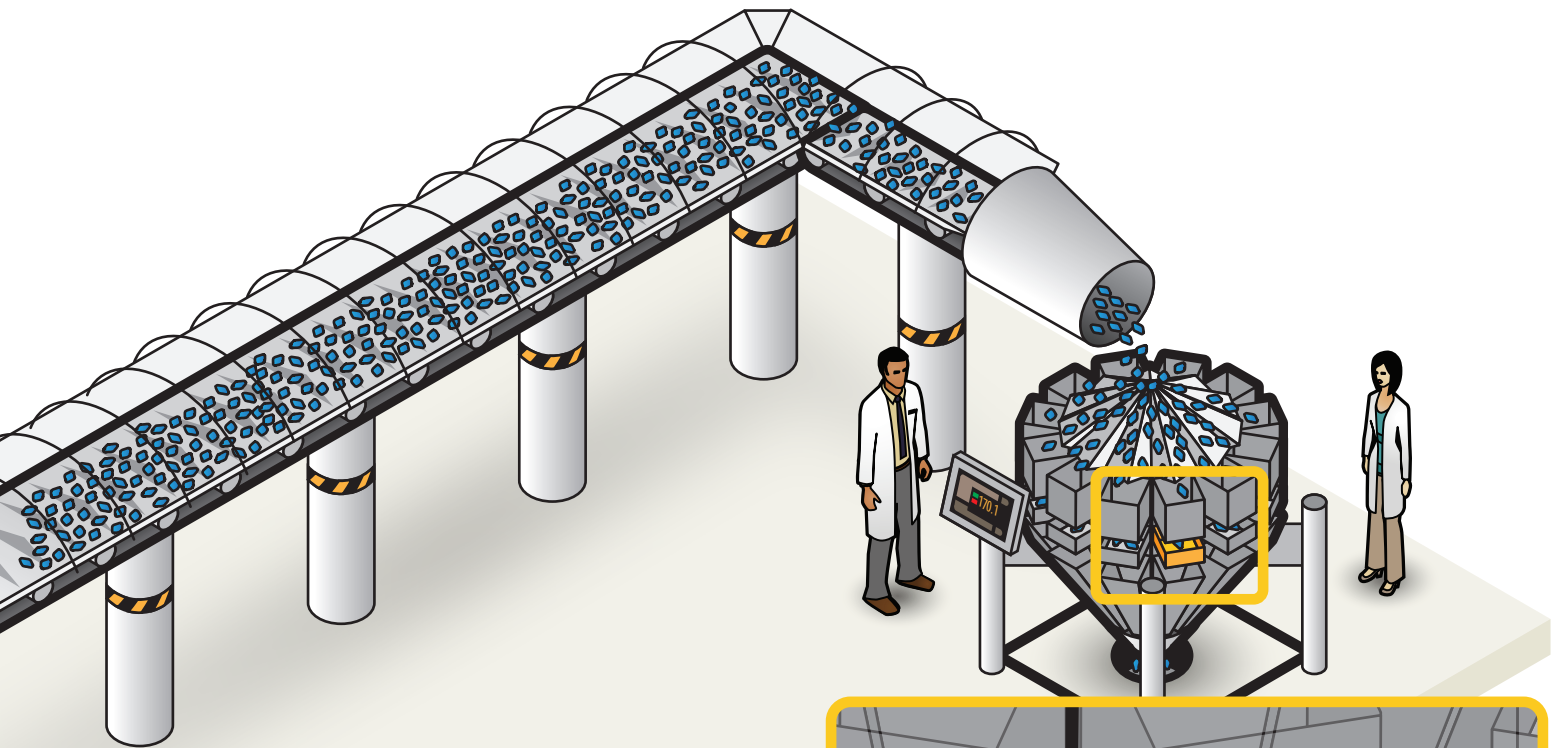
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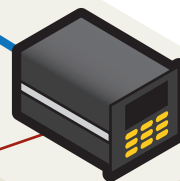
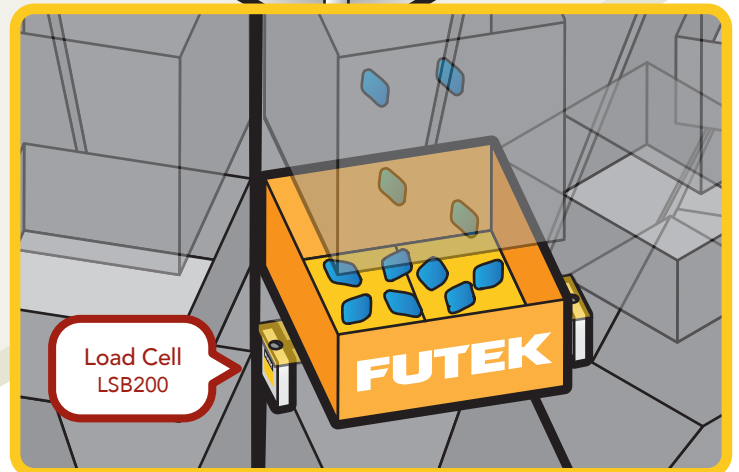
PRODUCTS IN USE

Miniature S-Beam Jr. (LSB200) paired with Instrumentation (CSG110 or IPM650).

APPLICATION SUMMARY

Load Cells and Force Sensors are commonly used to automate production lines. By using these sensors, production engineers are able to control the automation process and improve their overall quality.

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



Amplifier
CSG110

PLC
Data Acquisition

Digital Display
IPM650

Sensor Solution Source

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

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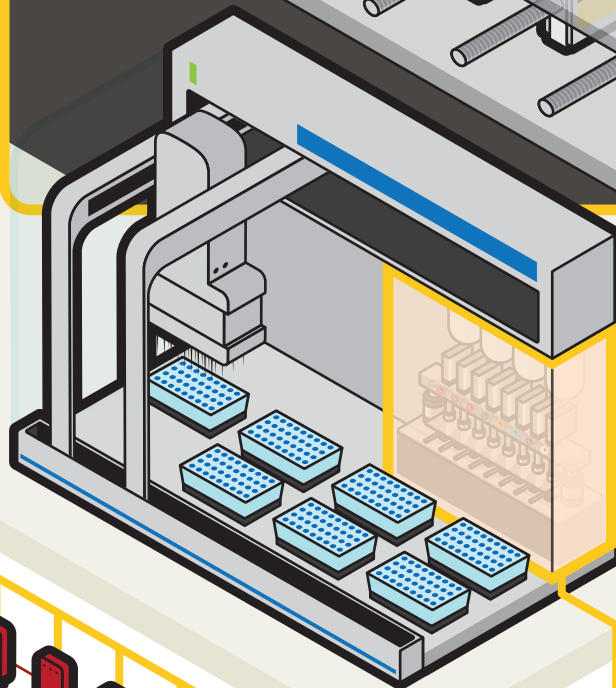
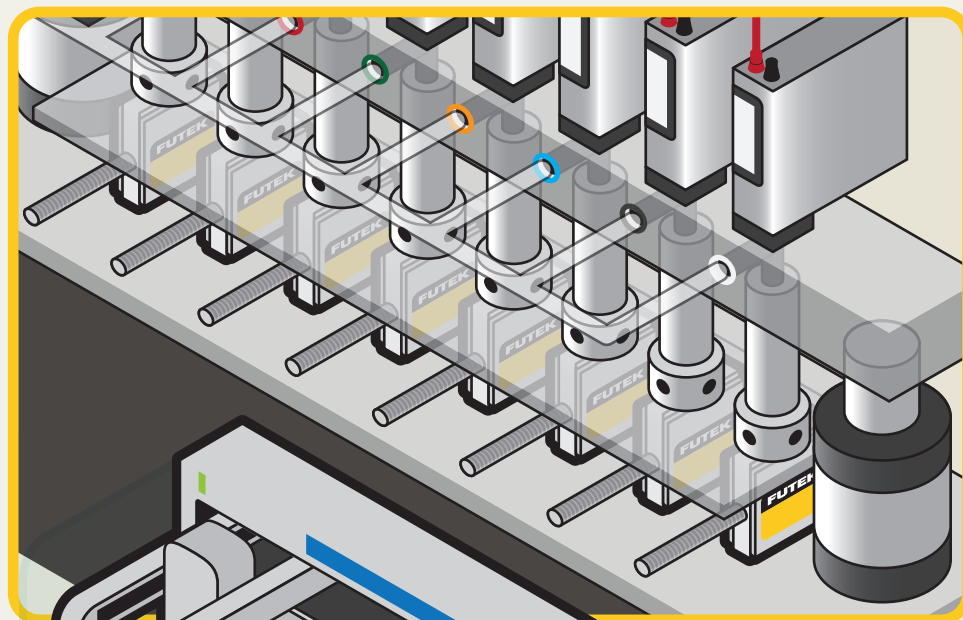


PRODUCTS IN USE

Miniature S-Beam Jr. (LSB200) paired with Instrumentation (USB Solutions or IAA analog amplifier).

APPLICATION SUMMARY

Integration of sensors in Bio-medical applications require high-accuracy, small size and accuracy (in micrograms). In DNA synthesis, bio-medical engineers can utilize FUTEK's LSB200 for its precision and sensitive capacity range.



Amplifier

IAA Series

Data Acquisition

USB Hub

USB Series

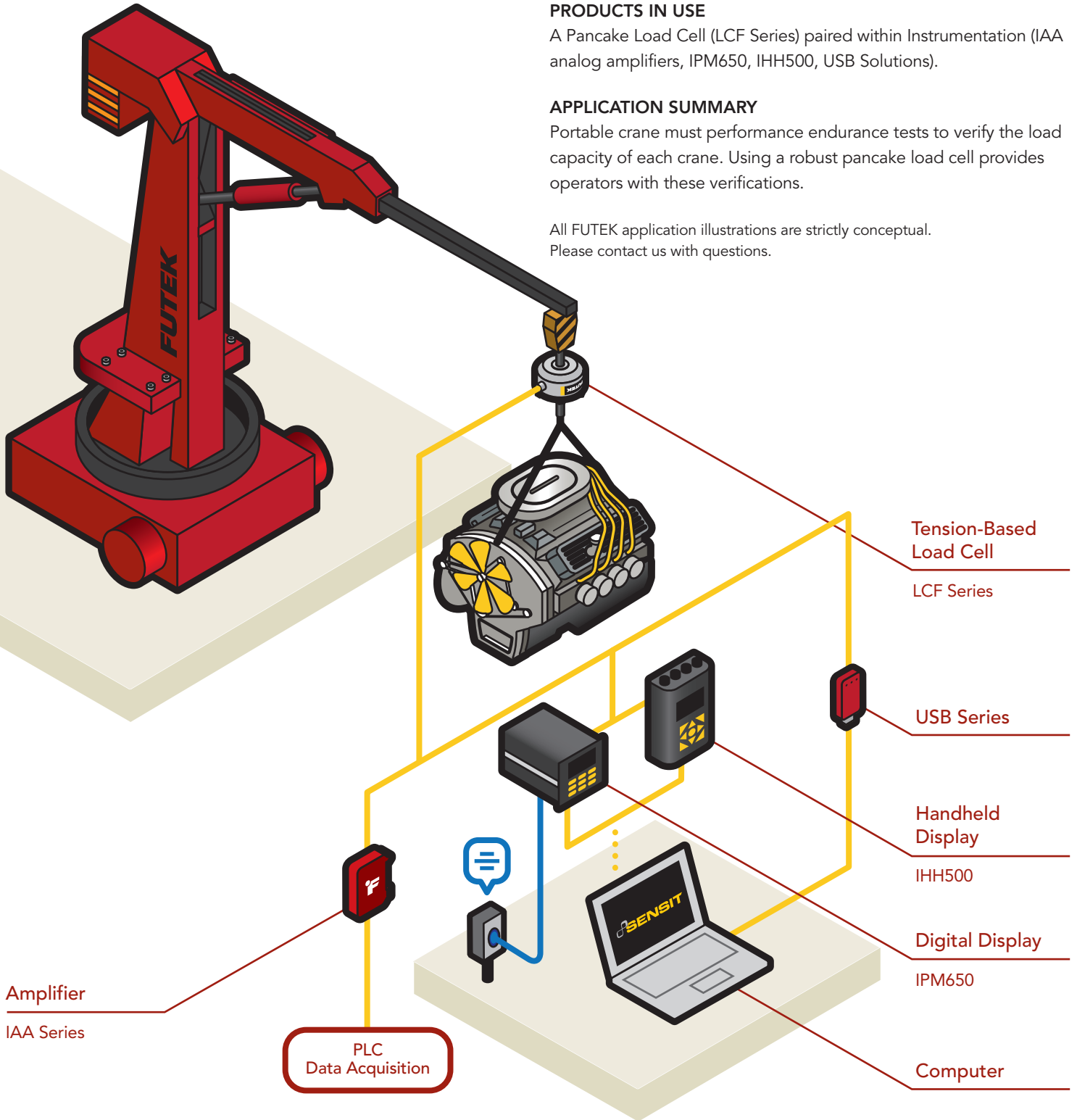
One per load cell

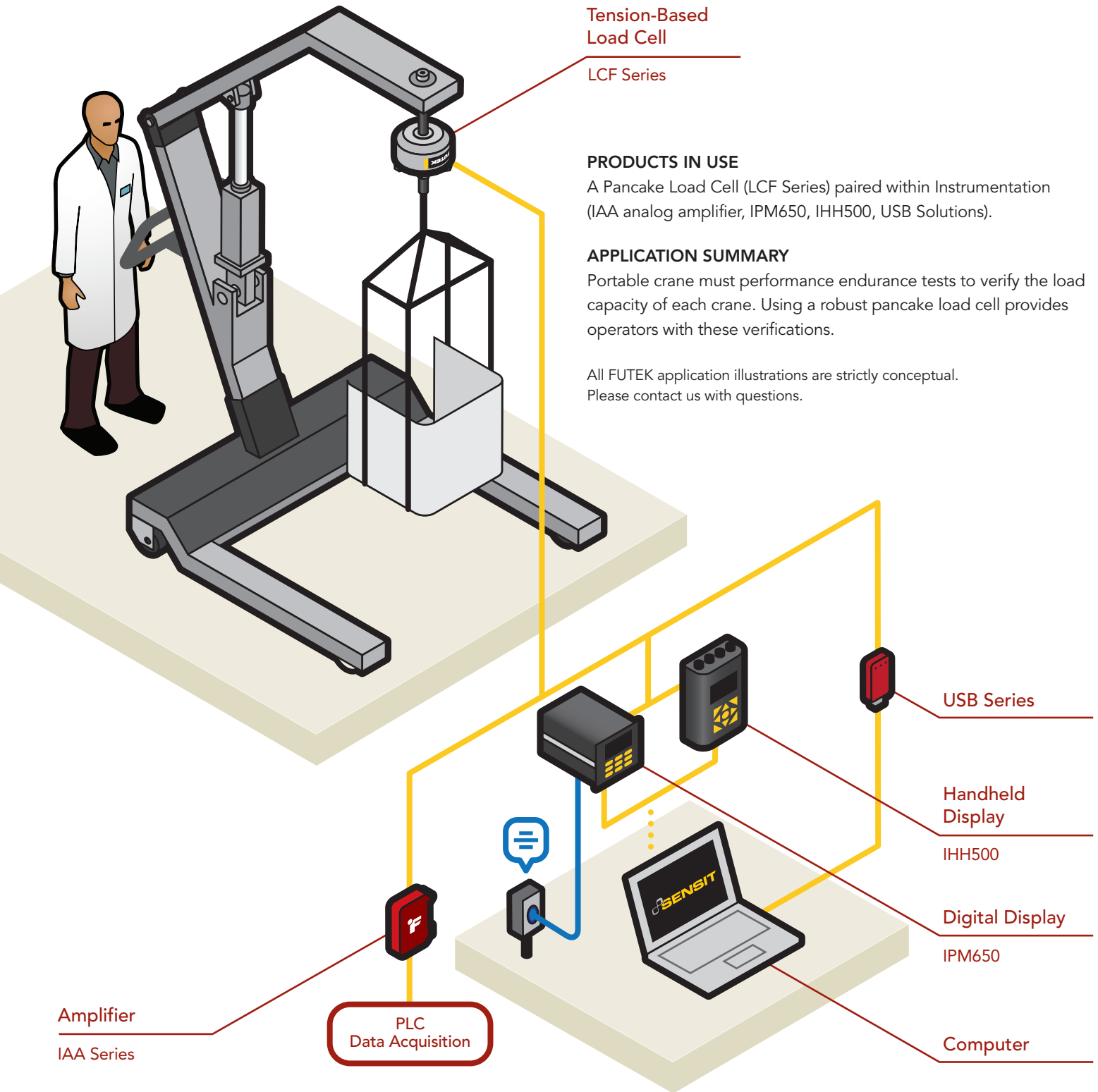
Computer

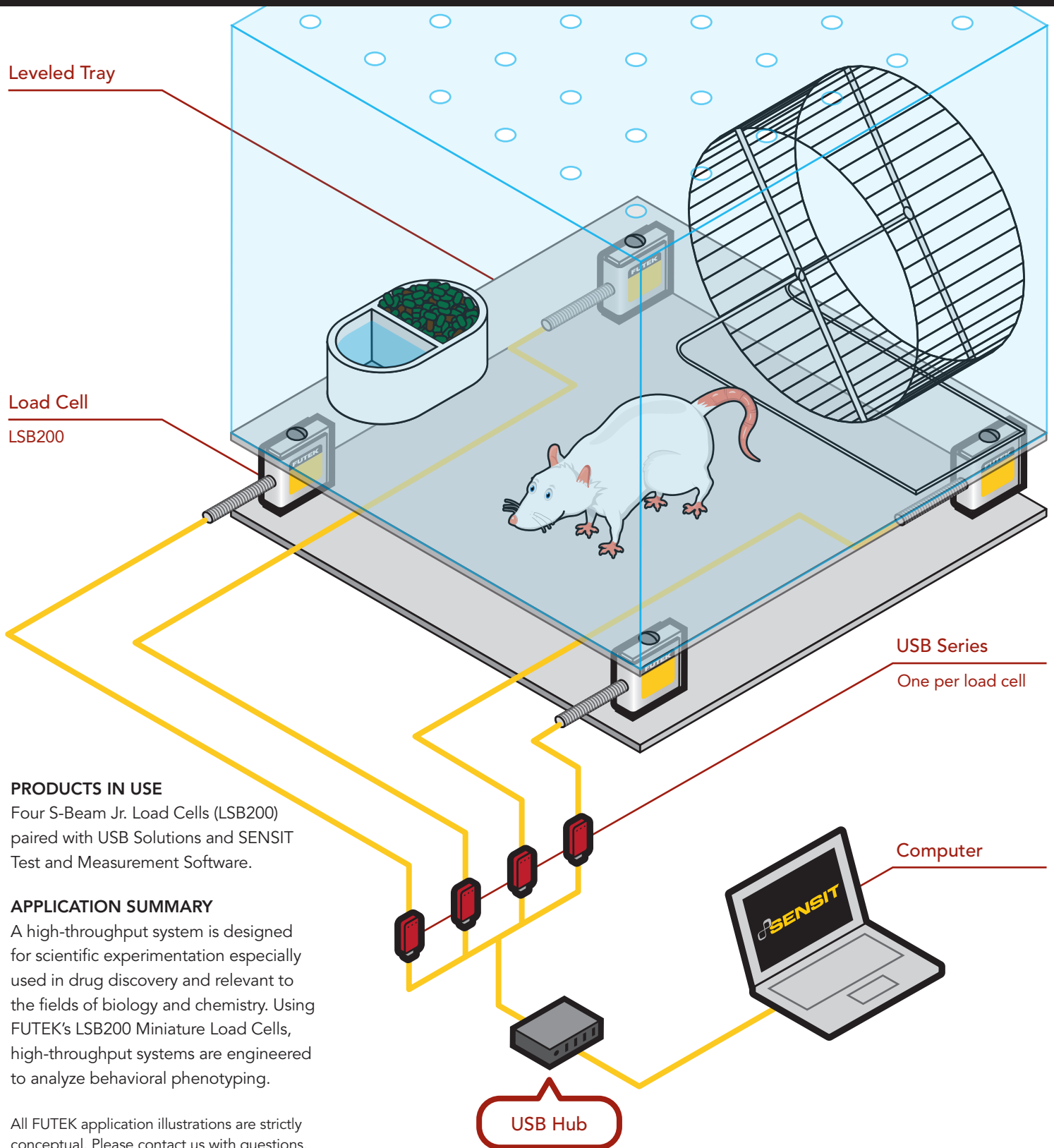
Sensor Solution Source

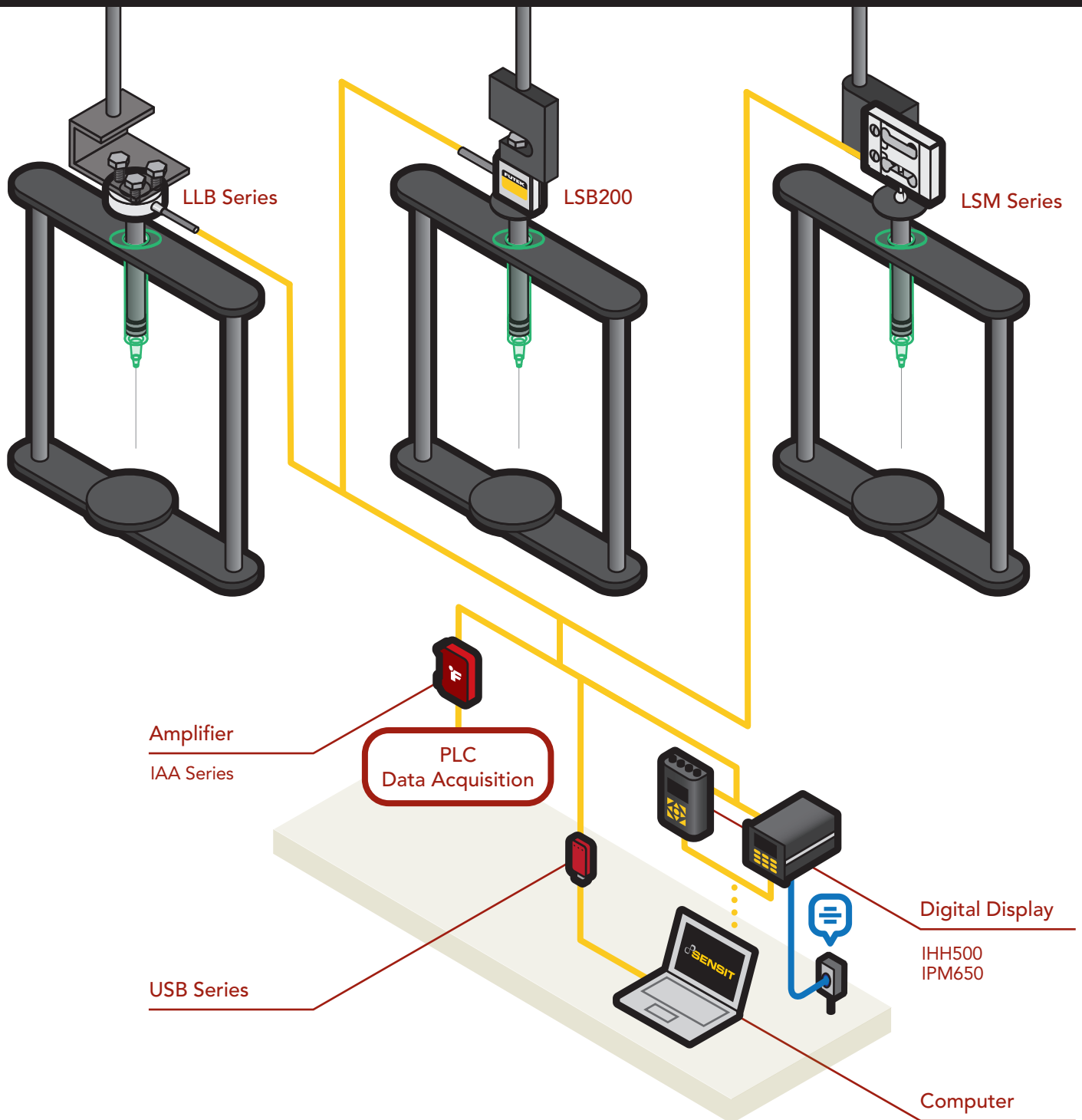
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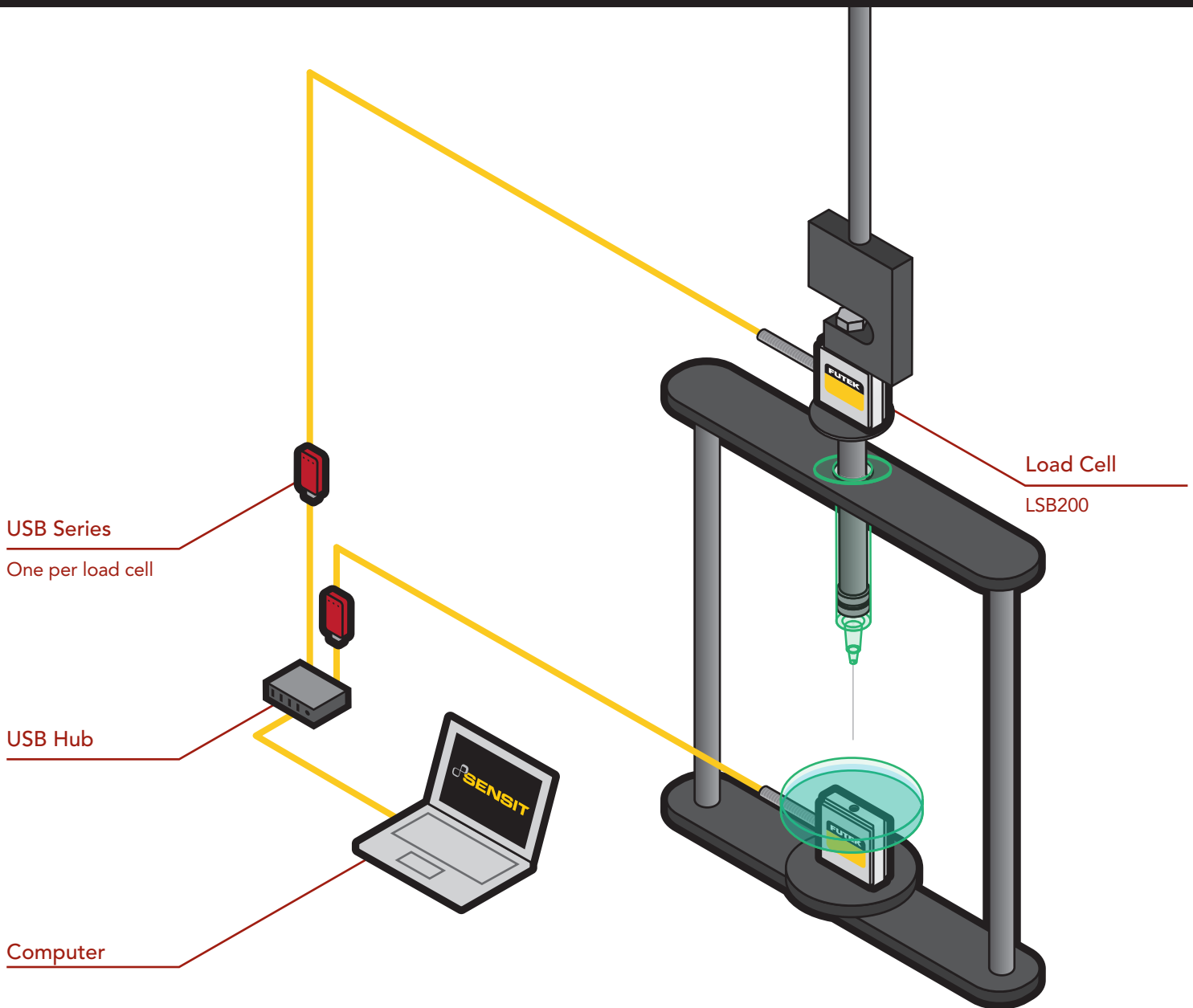


APPLICATION SUMMARY

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 SENSIT™ Test and Measurement Software.



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).

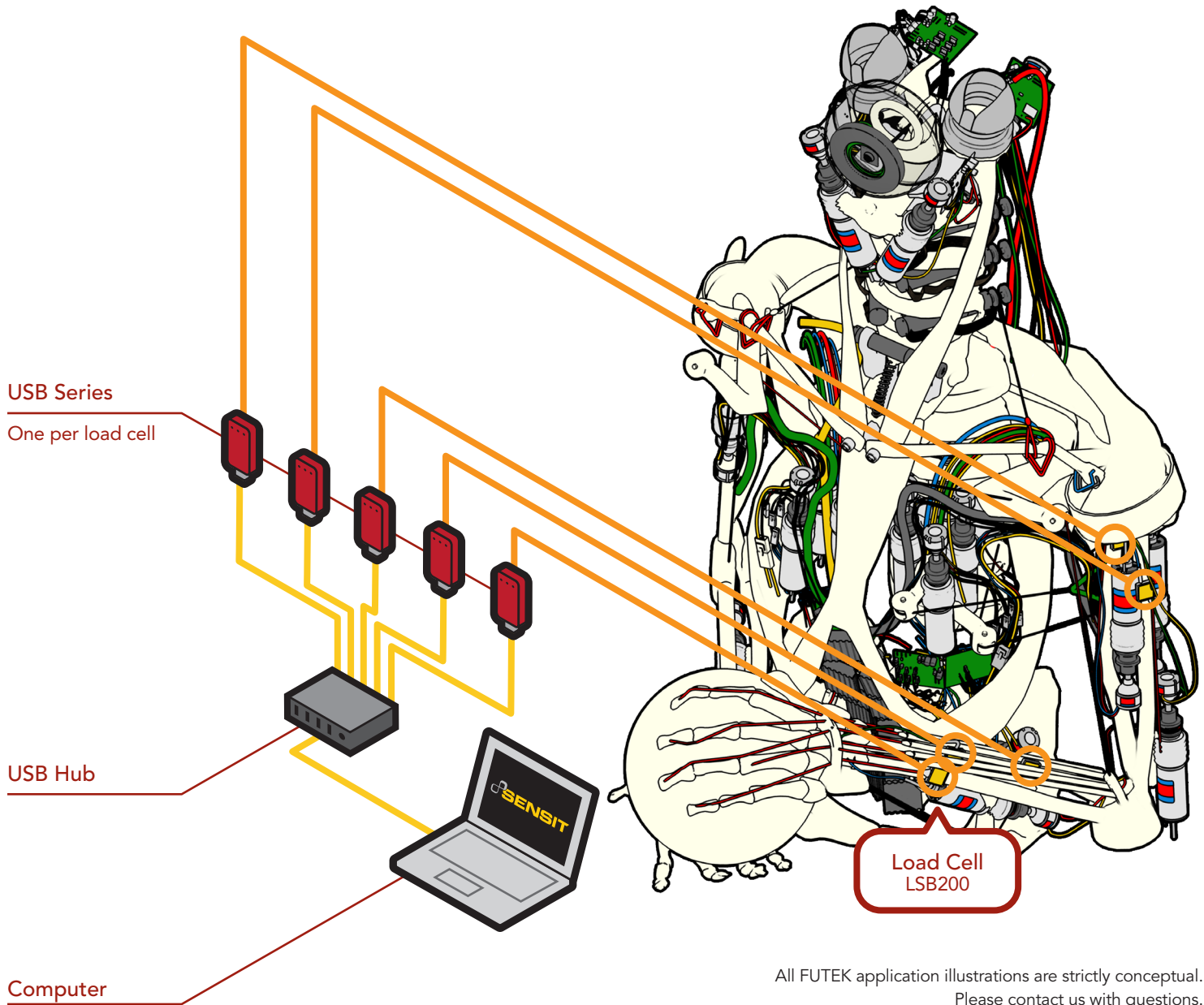
PRODUCTS IN USE

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

Sensor Solution Source

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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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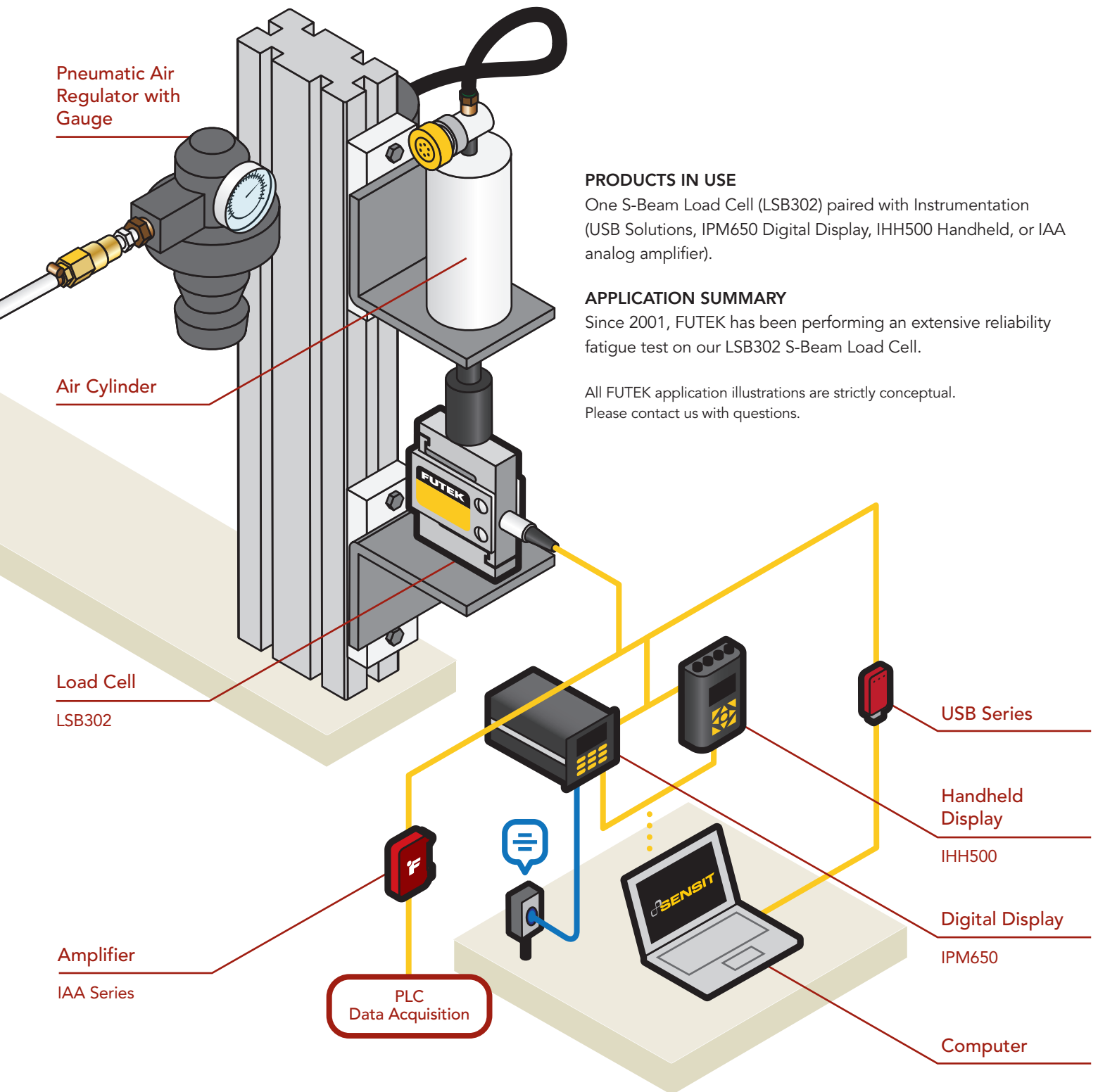
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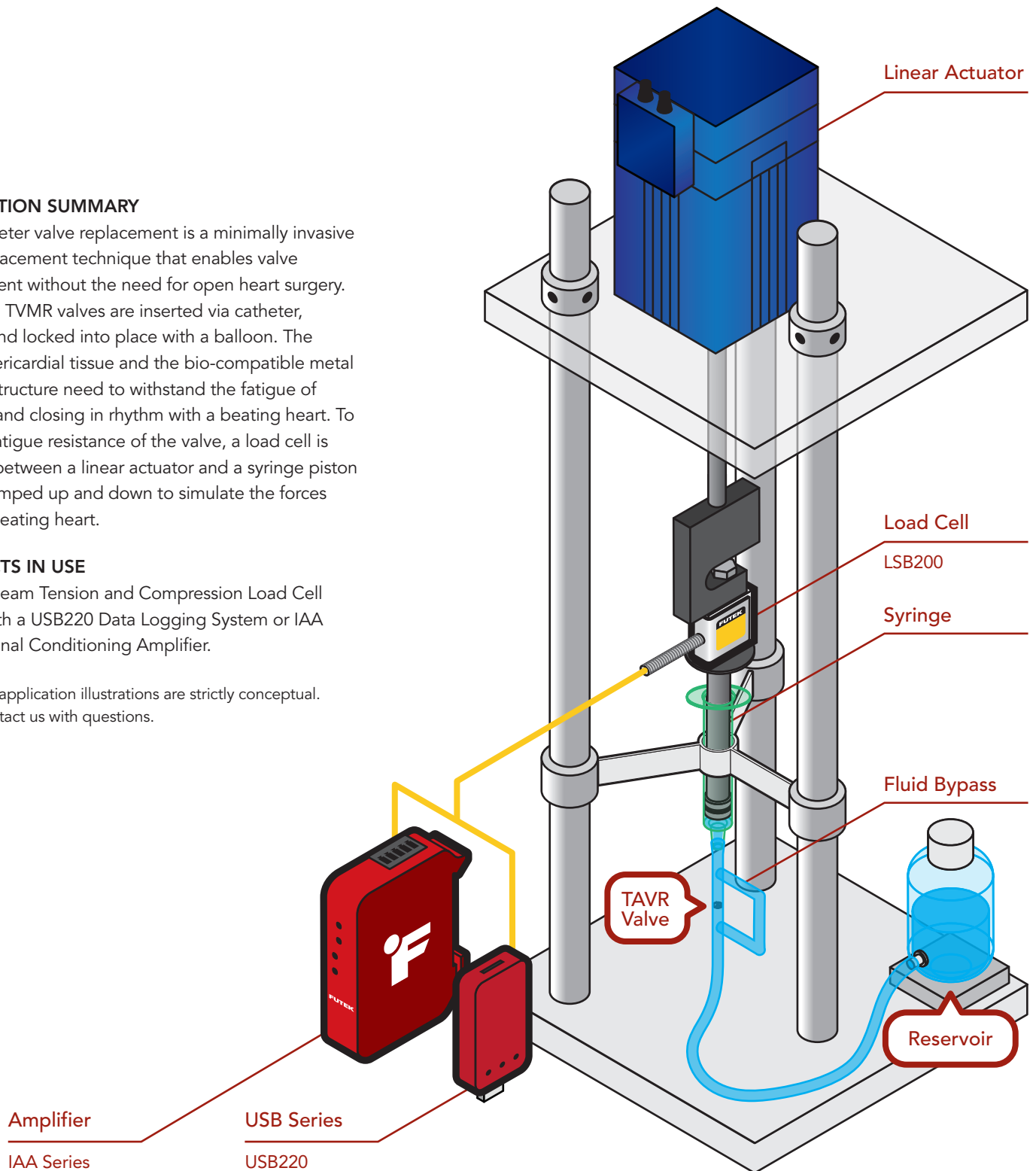
APPLICATION SUMMARY

Transcatheter valve replacement is a minimally invasive valve replacement technique that enables valve replacement without the need for open heart surgery. TAVR and TVMR valves are inserted via catheter, inflated and locked into place with a balloon. The bovine pericardial tissue and the bio-compatible metal support structure need to withstand the fatigue of opening and closing in rhythm with a beating heart. To test the fatigue resistance of the valve, a load cell is coupled between a linear actuator and a syringe piston that is pumped up and down to simulate the forces inside a beating heart.

PRODUCTS IN USE

1 LSB S-Beam Tension and Compression Load Cell paired with a USB220 Data Logging System or IAA Series Signal Conditioning Amplifier.

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U.S. Manufacturer



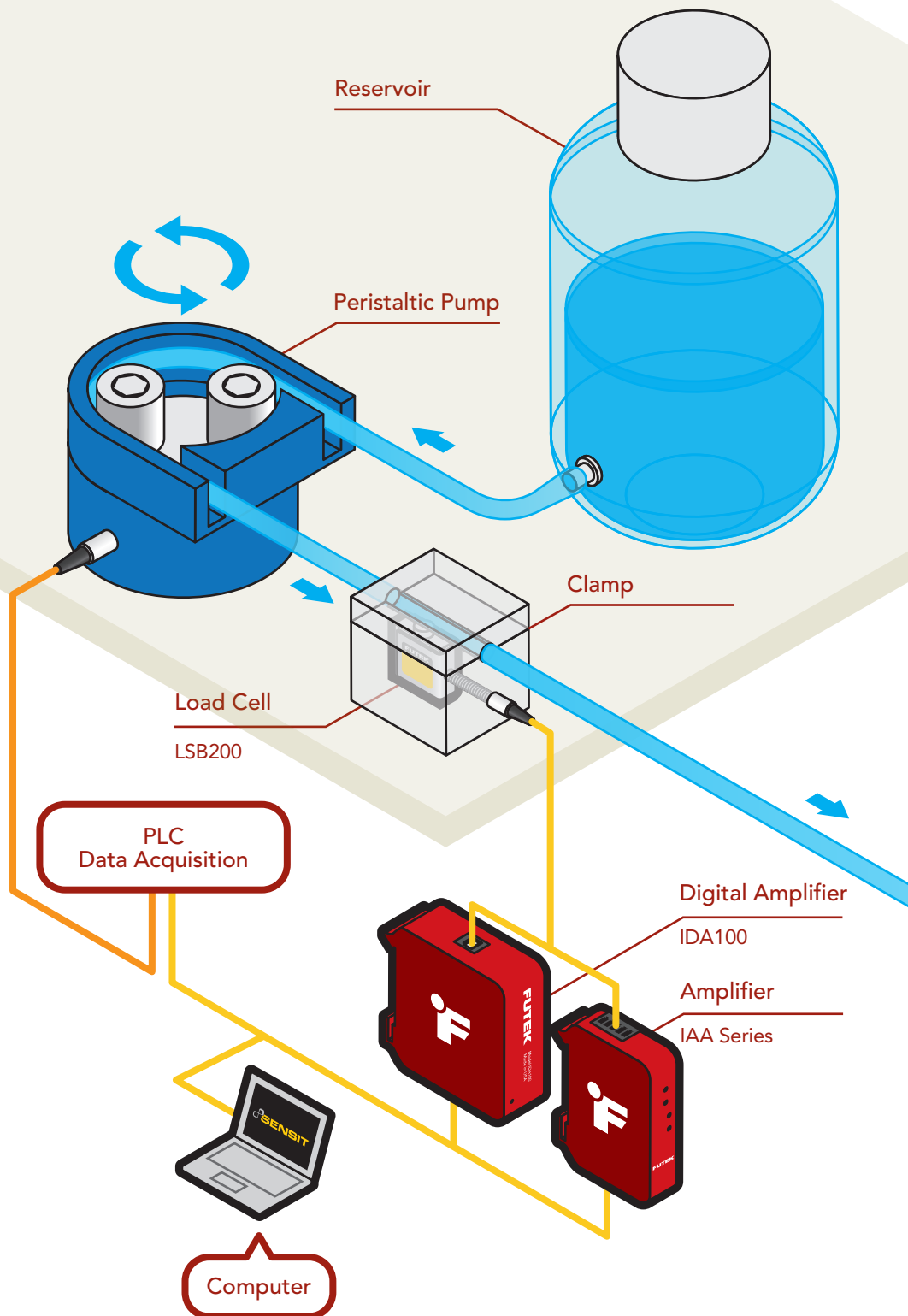
APPLICATION SUMMARY

Measuring fluid flow rate in food production, blood infusions, catheterization, and chemical compounding requires sanitary and sterile processes. Non-contact measurement solutions such as using an occlusion provide one type of flow measurement solution. Additionally, this technique allows for bubble and blockage detection. To measure the force exerted by the fluid on the occlusion, a load cell is incorporated into the clamping mechanism.

PRODUCTS IN USE

1 LSB200 Jr. Miniature S-Beam Load Cell paired with Instrumentation (IAA, IDA100)

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