Topcon Weighing Technology

Load Cells for Agriculture Machines

Precise, reliable and customizable load cells
for any agricultural application.

Learn more at **topconpositioning.com**

TOPCON

Engineered for Accuracy.
Built to Last.

Continuing Digi-Star's legacy of excellence, Topcon develops load cells renowned for robust design and high precision. While offering a wide range of standard options, we also stand as a dedicated partner for OEMs: if a standard product doesn't fit your specific needs, our experienced engineers will work with you to develop a customized sensor solution tailored to your application.

Engineered for the harshest environments, our sensors are double-sealed with polyurethane rubber, protecting them against the elements while ensuring maximum dependability and long life. Our load cells are developed with a safety factor of up to 250% of weighing capacity, offering superior protection against extreme mobile weighing shocks and overloading. These durable solutions ensure maximum uptime with pre-calibrated designs for easy field replacement and universal compatibility with all Topcon / Digi-Star indicators.

» High-precision load cell technology

» Robust protection including impact-resistant enclosures and special safety protocols

» Wide range of form factors including customization

» Universal display compatibility with Topcon / Digi-Star indicators and convertors

Long-Term Durability

Reduces warranty claims and protects your brand reputation for quality. Double-sealed electronics with specialized polyurethane rubber and corrosion-resistant coating ensure the components survive the product lifecycle.

Production Efficiency

Eliminates complex setup steps on your assembly line, saving time and labor. All load cells are pre-calibrated during manufacturing, allowing for "plug-and-play" installation without line-end calibration.

Data Integrity

Ensures your machines perform accurately in high-interference environments (near other electronics or storms). Robust shielding provides maximum protection against RFI (radio interference), EMI (electromagnetic interference), and lightning.

Impact Resilience

Prevents sensor failure during shipping or rough handling/operation by the end-user. Engineered with a safety factor handling shock loads up to 250% of capacity.

Inventory Flexibility

Simplifies supply chain management; you don't need to stock different sensors for different displays.

Risk Mitigation

Ensures you are integrating a proven, validated component into your expensive machinery. Backed by a 3-year warranty and rigorous load testing during the manufacturing process.

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What's right for your machines?

Topcon offers a comprehensive portfolio of sensing technologies designed to satisfy virtually any agricultural weighing need. From robust load cells for mobile and stationary applications to precision flow sensors, our diverse range ensures the perfect fit for your specific machine configuration.

Differential and Shear Weigh Beams (DB and SB)

Capacity: 700 kg to 23 t
Accuracy: 99.5%
Primary Applications: Frames and axles.
Notes: Optional temperature compensated load cells are available for applications requiring accurate inventory over varying temperatures.

Differential and Shear Weigh Axles (DA and SA)

Capacity: Up to 23 t
Accuracy: 99.5%
Primary Applications: Weighing in axle constructions.
Notes: Variants available for use with brakes or without brakes.

Shear Beams (SB)

Capacity: 250 kg to 14 t
Accuracy: 99.9%
Primary Applications: Compact installations, such as animal weighing, platform weighing and (bio) mixer applications.
Notes: Designed for limited space.

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Weigh Beams

Capacity: 1250 kg (per beam)

Accuracy: 99.9% | ±1%

Primary Applications: Do-it-yourself mounting under platforms and animal weighing cages.

Notes: Available in 99 cm, 145 cm and 190 cm lengths | 16 in, 24 in, 33.5 in, and 44 in lengths. Self leveling for uneven surfaces.

Compression Transducers (CT)

Capacity: Up to 23 t

Accuracy: 99.75% - 99.9%

Primary Applications: Stationary or mobile applications with high capacity, such as feed mixers, grain carts, (bio) mixers, silos and weighbridges.

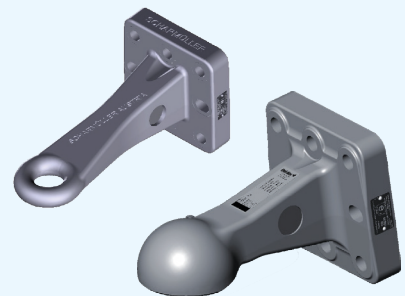**Notes:** Special mounts available for stationary or mobile applications.

K80 Coupling

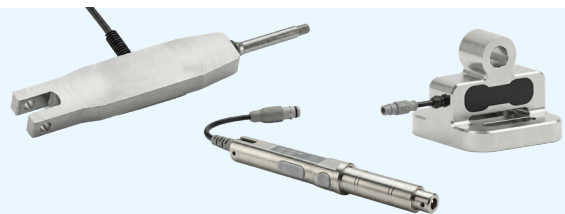**Capacity:** Up to 4 t

Accuracy: 99.5%

Primary Applications: Feed mixers, grain carts, forage wagons, spreaders and other trailed equipment.

Notes: Tüv-certified solution (for European markets). Available in different sizes. Designed to complement a complete weighing solution and improve performance.

Specialty Sensors

Notes: Can be designed and developed for customer specific applications.

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