

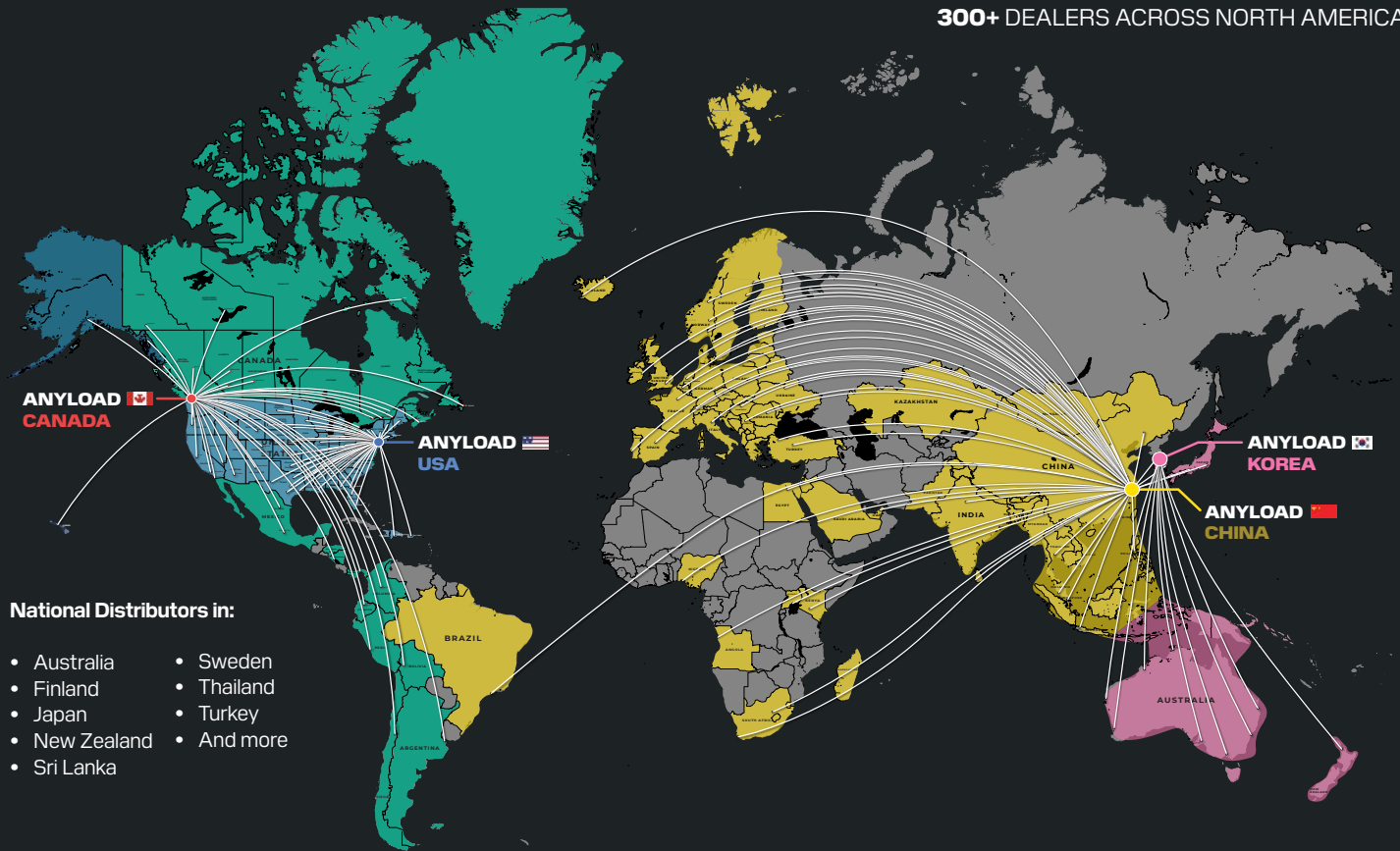


ORCA TRUCK SCALE

Simple Installation • Heavy Duty • Built to Last

ANYLOAD[®]

1-855-269-5623
www.anyload.com



ABOUT ANYLOAD



ANYLOAD has over 30 years of experience in the weighing industry, designing and manufacturing load cells, force sensors, truck scales, and complete weighing solutions for a wide range of industries worldwide. Our cross-disciplinary background in fields such as aerospace, construction, and logistics gives us unique insight into precision, strength, and long-term reliability.

Headquartered in Vancouver, ANYLOAD equipment is trusted across Canada, the United States, Australia, and other demanding markets where harsh climates, long service turnaround times, geographic remoteness, and zero tolerance for downtime make reliability essential. That same standard of performance defines the ORCA™ truck scale.

VERTICAL INTEGRATION

We are a vertically integrated manufacturer with in-house CNC machining, dedicated R&D and testing laboratories, and a broad set of international certifications including ISO 9001 and VCAP accreditation. Full control over every process ensures consistent quality, traceability, and continuous improvement in all products we build.



ORCA™ Truck Scale

Uncompromising ORCA™ Truck Scale Strength

The ORCA™ Series Weighbridge is engineered for demanding North American industries, delivering exceptional durability, precision, and efficiency.



EXCEPTIONAL DURABILITY

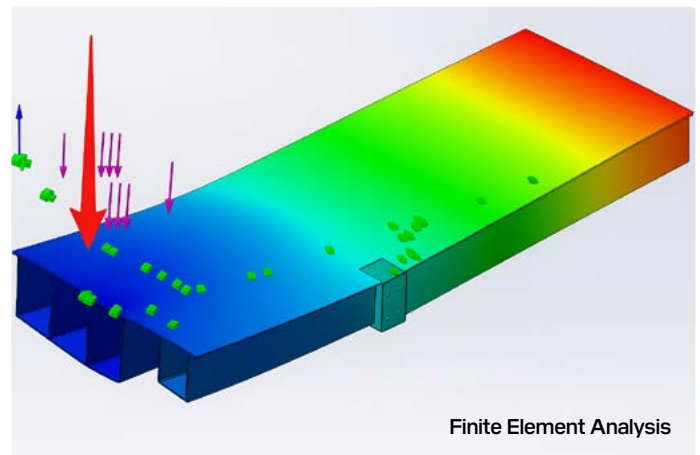
The ORCA™ truck scale is the premium choice for operators who demand strength, serviceability, and long service life. Its orthotropic U-channel deck is an efficient structure designed to spread loads evenly and resist fatigue. Fabricated with advanced precision processes, every module is built to exact tolerances for reliable performance year after year. The ORCA™ is engineered to be both durable in the field and practical to service, keeping downtime low and operations running.

Like the apex predator of the seas, the ORCA™ combines power with intelligence and endurance. Its cambered spine holds shape under heavy loads, its sealed structure resists corrosion, and its design gives it an edge in the harshest climates from tropical heat to northern ice. The ORCA™ is recognized by professionals who value proven design features that keep them working without compromise. Many scales can do the job. The ORCA™ is built to do it better.

DESIGNED TO OUTLAST

The ORCA™ scale was developed and refined with direct field feedback over the course of 10 years to make the scale easier to install, simpler to service, and longer lasting in demanding operations.

- **User-oriented Design:** Simple to install, manufactured to last, less prone to failures, and easy to service
- **Advanced Engineering:** Validate lasting structural integrity and optimize performance through finite element analysis and experimentation.
- **Automated Fabrication:** Ensures consistently high quality and precision in every component.
- **Vertical Integration:** We take full responsibility of our products from the load cell to the scale to the electronics.



Finite Element Analysis



Installed Scale

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Features



Painted Inner Channels

Interiors of all U-channel beams are painted for additional long term protection against corrosion.

Steel Guardrails

Powder coated steel side railings to enhance operational safety. Different railing options available for configuration.

Continuous Welds

Robotic welding creates fully sealed, low-oxygen, moisture-free chambers that significantly arrests rate of any corrosion.

Heavy Duty Top Deck

Diamond pattern checker plate thicker than competitor models, with options of 1/2in, 3/8in, and 1in. Cambered for further metal deflection and fatigue resistance.

Accessible Service Pockets

- Bolt-free covers, no seizing or lost hardware
- Secure in service, quick to remove
- Lightweight (~30 kg), one-person handling
- Interchangeable plates for faster service & assembly

Dual Bracing

Two lateral reinforcement crossmembers where other designs might only have one or none.

Welded Bottom Plate

Reduces longitudinal deflection and fatiguing by nearly 50%.

Portable Frame (Option)

Distributes weight and serves as a mobile scale foundation for portable weighbridges. Powder coated for greater durability.

Deep U-Channel Design

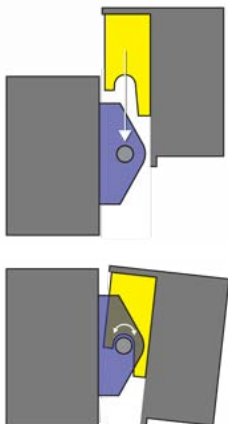
- Improved load distribution & safety factor
- Higher strength-to-weight ratio than I-beam
- Greater resistance to deflection & fatigue

Cable Armour

Flex cable armour connects directly to channel conduits to protect against rodent and other physical damage.

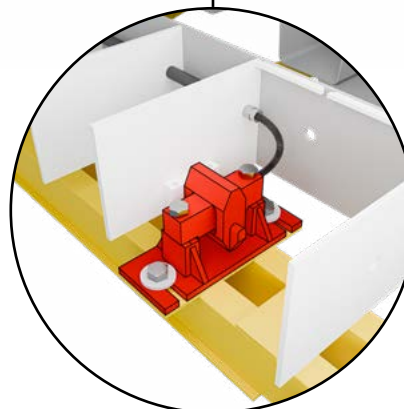
Drop-In H-Bracket

ORCA scale sections easily connect with drop-in H-brackets. This boltless design keeps sections securely connected while allowing for natural flexing with temperature changes. Installation and relocation is also simplified by avoiding the need to align and bolt two sections together.



M1 Load Cell Mount

Self-aligning single-link weigh mount maintains true vertical load application for stable alignment and long-term accuracy. The design prevents rotation and overturning of the load cell while also removing the need for check rods and bumper bolts.



Design Advantages

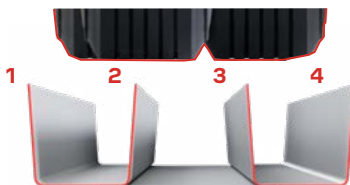
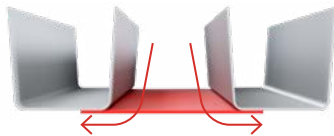
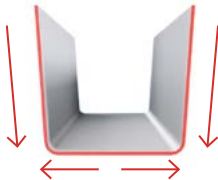


✓ Pre-Cambering:

Precisely formed longitudinal arch created with CNC hydraulic presses counter long-term sagging and distribute stress evenly across the deck. This controlled curvature ensures the platform settles flat under load, improving fatigue resistance and preserving calibration accuracy over time.

✓ Superior Load Distribution:

Deep U-channels create a continuous orthotropic deck structure that transfers loads through multiple vertical webs instead of a few primary beams. When a wheel applies force from above, that load is dispersed laterally and longitudinally across the interconnected U-channels, reducing peak stresses and deflection. This integrated load path resists twisting and fatigue far more effectively than I-beam designs, delivering higher rigidity and long-term accuracy under heavy, repetitive service.



✓ Bottom Plating:

Welded interconnector plates span between adjacent U-channels along the wheel load paths, locking the channels together into a single structural unit. This creates a closed torsion box effect that greatly increases bending and shear resistance across the deck. By eliminating independent flex between channels, the bottom plating raises overall stiffness by up to 50 % and minimizes deflection under repeated axle loads, extending fatigue life and preserving long-term deck flatness.

✓ More Vertical Reinforcements:

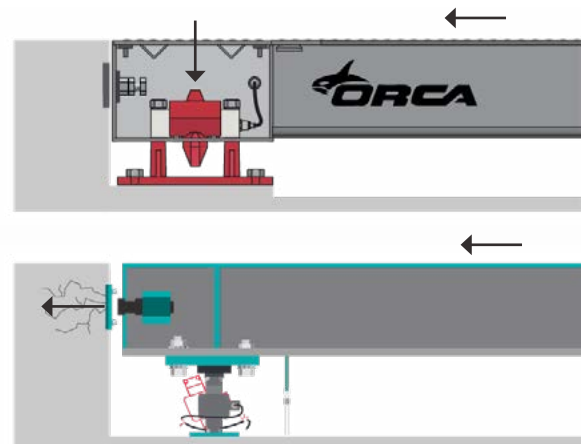
Closely spaced vertical U-channel webs are positioned directly beneath each wheel path, creating multiple continuous load paths through the deck to deliver higher strength, reduced deflection, and superior durability compared to conventional I-beam scales.

MAXIMIZING LIFESPAN

Experienced scale operators know that load cells and related loading components are the most vulnerable parts of a weighbridge. Investing in a scale designed to minimize costly aftersales servicing delivers long term savings.

ANYLOAD's M1 weigh module system with its centre-pivoted self-aligning suspension link system is superior to rocker column designs by offering greater safety, reliability, and performance with fewer components required.

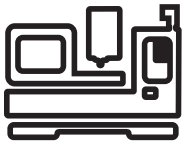
- Self-aligning without check rods or bumper bolts
- Open loading area keeps free of debris
- Built-in resistance to shock & side loading
- Larger movement & inclination tolerance (>15°)



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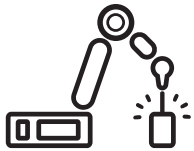
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MANUFACTURING Process



Precision Cutting & Forming

All structural components are produced using automated CNC laser cutting and hydraulic folding, achieving fabrication tolerances < 0.5 mm to ensure precise fit and assembly.



Structural Welding & Assembly

Key seams are precision-fixtured and joined using multi-head robotic welding systems, producing continuous deep-penetration welds > 4 m in length.



CNC Plate Folding

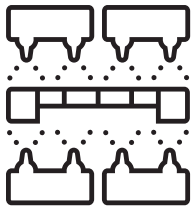


CNC Laser Cutting



Hydraulic Pre-Cambering

Each scale section is hydraulically pre-cambered with an upward bend to reduce mid-span deflection and improve long-term fatigue resistance.



Surface Preparation

Before painting, scale sections undergo automated 12-nozzle omni-directional shot blasting to ISO 8501 (Sa 2.5) surface prep standards. This creates a clean, uniformly etched surface for maximum coating adhesion and long-term corrosion protection.



Continuous Multi-head Welding



Extensive Automation

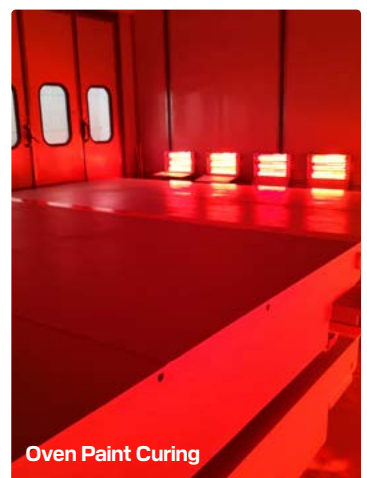


Painting & Curing

Scales are finished with a two-layer resin epoxy automotive paint, applied and cured in a sealed, clean room-controlled environment. Strict regulation of dust, humidity, and temperature ensures optimal paint bond, UV resistance, and coating longevity even in extreme climates.



Automated Shot-blasting

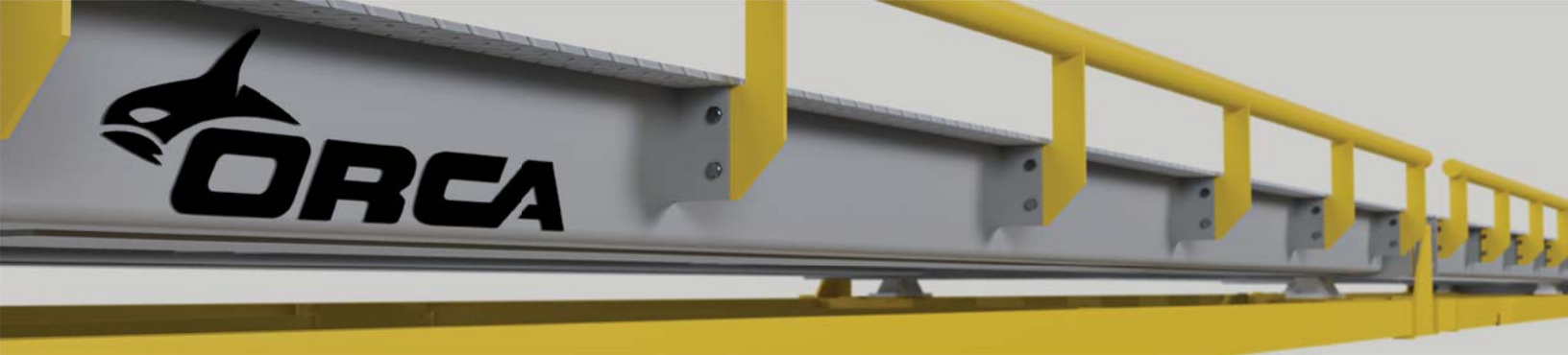


Oven Paint Curing



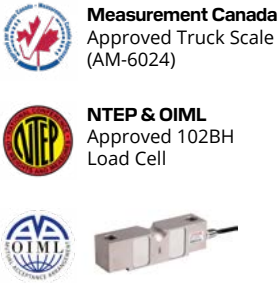
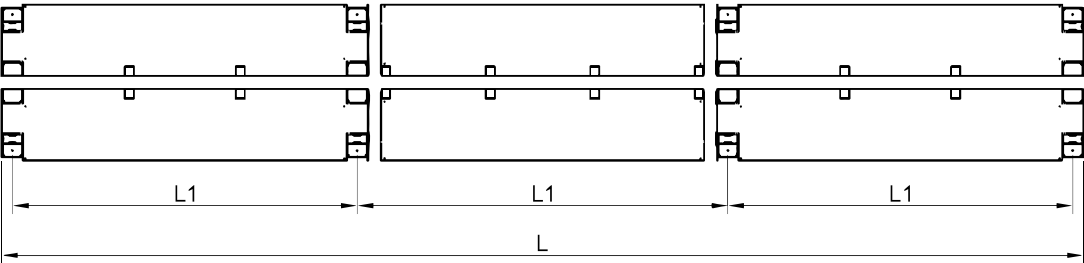
Automation Consistency

Key manufacturing stages are driven by automated systems and robotic equipment to maintain consistent tolerances, repeatable weld quality, and precision assembly.



STANDARD PLATFORM LAYOUT

60ft, 70ft, 80ft, 90ft Truck Scales



STANDARD DECK DIMENSIONS

Additional dimensions and specifications are detailed in the ORCA-series technical datasheet and product webpage. Custom dimensions to fit existing foundations and special designs/configurations built to meet special applicational requirements can be provided.

Imperial				Metric SI				Number of Scale Sections	Load Cells & Mounts
Total Length (L)	Section Length (L1)	Full Scale Capacity	CLC Rating	Total Length (L)	Section Length (L1)	Full Scale Capacity	CLC Rating		
60ft	19ft 5½ in	175,000 lbs	110,000 lbs	18287 mm	5929 mm	80t	50t	3	8
70ft	22ft 9½ in	175,000 lbs	110,000 lbs	21335 mm	6945 mm	80t	50t	3	8
80ft	26ft 1½ in	220,000 lbs	110,000 lbs	24383 mm	7961 mm	100t	50t	3	8
90ft	29ft 5¾ in	220,000 lbs	110,000 lbs	27431 mm	8977 mm	100t	50t	3	8
100ft	18ft 4¾ in	220,000 lbs	110,000 lbs	30480 mm	5596 mm	100t	50t	5	12
120ft	23ft 8 in	280,000 lbs	110,000 lbs	36576 mm	7215 mm	100t	50t	5	12

*All dimensions are rounded to the closest 1/8 in or mm

OPTIONS



- LED Remote Displays
- Stainless steel load cells
- Hot dip galvanized mounts
- Stainless steel suspension hardware
- Truck scale indicators
- Lightning arrestors & surge protection
- Rubber T-grips
- Steel ramps
- Rub rails
- Rodent protection cable or conduits
- Intrinsically safe/explosion proof (FM) load cells & junction boxes

Sales & Technical Assistance:



ANYLOAD®



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