

Vehicle Scales



VTS202/302

VTS202 for 28t CLC

VTS302 for 40t CLC

Extra strong design

Punishing environments

Accurate – Analog or
POWERCELL® technology

Service – Low long-term
cost of ownership

Standard and Extreme Duty Steel Weighbridges

Orthotropic design for long life

METTLER TOLEDO

Beyond a typical weighbridge

Long life through efficient design

The cost of a weighbridge is a critical issue for today's customer. The VTS202 is designed to optimize the state of the art orthotropic design to fulfill two important goals; to accurately weigh on-the-road trucks under medium to heavy traffic conditions and to reduce your long-term service and maintenance costs. The VTS302 is designed for weighing trucks that are using private roads where they may exceed the legal road limits.



Designed for long life. The VTS202/302 Cycle Duty weighbridge is designed based on METTLER TOLEDO's experience as a world leader in the weighbridge market. Our VTS202/302 design is proven in one of our unique "Module Tester" simulating 20 years of use by passing 250 fully loaded trucks per day across the scale. That's 3.1 million cycles running a 28t (VTS202) and 40t (VTS302) on a typical Dual Tandem Axle – this test ensures that your scale will last.



VTS302 is designed to weigh heavy trucks (where typical on-the-road trucks may be traveling on private roads). Directive 96/53/EEC and many local laws specify the maximum concentrated load to be less than 22t. The VTS202 is well suited for these on-the-road trucks.



VTS202/302 are produced in the World's newest vehicle scale production facility



VTS202/302 are machine welded to obtain the best weld quality and long life



The steel in each VTS202/302 is shot blasted to create a fantastic painting surface



Each VTS202/302 is acrylic polyurethane painted and temperature cured to eliminate corrosion

Efficient steel use for long life – every kilogram of steel is efficiently used. The VTS202/302 uses the same orthotropic construction methods as employed in famous bridges such as the Golden Gate (us), Akashi-Kaikyo (jp), Great Belt (dk) or Humber (uk) bridges – your bridge is designed and manufactured to last.

Epoxy painted – baked on acrylic polyurethane coating is standard and is far more durable than primer or enamel finishes common in the industry, moreover, the finish complies with the RoHS Directive 2002/95/EC.

Higher-Strength modules – increase the tandem axle weight from 28t (VTS202) to 40t (VTS302).

Checking system designed for heavy trucks – the mechanical restraints "checking" are in the foundation, not in the load cells – this eliminates extra wear and tear that can degrade a scale's accuracy.

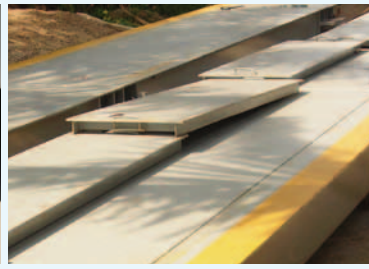
VTS202/302 Containerized™ scale can be shipped in a standard closed shipping container or can easily fit on the back of a standard flat-bed truck to reduce your shipping cost – no extra costs for wide-load shipments.



Optional side rails – assist drivers and ensures that the truck is properly positioned



Optional risers elevate the scale for more bottom clearance and easier cleaning when snow or material accumulate below the scale



Easily removable access plates make maintenance easy



The VTS fits easily into a standard sea container or on a flat bed truck to reduce transportation costs – no wide loads!

Automatically welded – the ribs of the VTS202/302 are robotically arc welded in a continuous seam – to provide exceptional strength, torsional rigidity and structural integrity. The designers have eliminated welds in high stress areas.

Excellent driving surface – the driving surface of the VTS202/302 is smooth steel, as an optional non-slip steel can be added for increased safety. The centre is closed and the driving surface is extra-wide to reduce accidents – load cell access through lateral gap covers.



Medium height – allows easy above ground mounting.

SimpleModularity – the VTS202/302 scale can be configured in many sizes up to 48 meters (157 ft) using standard components.

No "I" beams – Orthotropic ribs provide a superior structure and eliminate the potential multi-axis weaknesses of I-beam steel weighbridges.

Certified Accurate In Three Steps

A successful vehicle scale project doesn't end with selection of the best scale for your needs. Success is also defined by services that ensure a quality installation, effective integration, productive operations, accurate and certified weights, and dependable performance.



Installation, Configuration, and Integration

Our project managers coordinate all the tasks, equipment, and contractors for an on-time, in-specification vehicle scale installation. Our service representatives make certain that your scale system is ready for production in a cost-effective and timely fashion.

Your Benefits:

- Scale foundation that withstands traffic and the environment
- Properly installed and precision-tuned vehicle scale
- Information technology that dependably meets requirements
- Trained operators for effective vehicle processing
- Reliable communications to peripherals and networks
- Knowledge of user maintenance procedures



Proactive Scale Maintenance

A vehicle scale is a significant capital investment and its dependability is critical to maintaining productivity. METTLER TOLEDO ensures the operational readiness of your scale with cost-effective, factory-specified scale maintenance.

Your Benefits:

- Prevention of weighing errors due to buildup of dirt and debris
- Proper adjustment and mechanical integrity of scale components
- Assurance of vehicle and operator safety
- Stable operation with proper grounding and lightning protection
- Higher return on investment through increased scale life and productivity
- Recertification of your scale in accordance with local regulations



Our service representatives are there at the right time, with the right parts, the right tools and the right skills to meet your needs.

VTS202/302

- Economically shipped anywhere
- Easy to clean and maintain
- Quick/Efficient load cell access
- Corrosion resistant components
- Load cells report weighing errors
- Integrated suspension system
- Unparalleled accuracy
- Long service life

Feature	Specification
Weighbridge type	Multi-Module
Standard module sizes	4, 5 and 5.8 meters (13, 16.4, 19.7 ft)
Construction	Orthotropic steel – continuous welded ribs
Deck Thickness	48 cm (19.4 in)
Deck Type	Steelplate
Protection	Baked, Acrylic Polyurethane RAL7038
Scale Width (Standard)	3.0 m (10 ft), 3.4 m (11 ft) optional
Scale Width for shipping	2.10 m (6.9 ft)
Scale Length	4 to 48 m (13 to 157.5 ft)
Scale Weight (18m length)	11.5 t (VTS202), 14 t (VTS302)
Material Type	ST 37.2 (ASTM A36)
Lightning Protection (tested)	Lightning technologies tested – 100 000V, 10 000A (POWERCELL® MTX), 80 000A (POWERCELL® PDX®)
Weighing components	17-4 Stainless
Load cells	Analog 0782 loadcell or POWERCELL® MTX or PDX®
Load cell protection class	IP68 (NEMA6p), IP69k (POWERCELL)
Approval EC/94/EEC	Certificate T2206
Capacity 16/18/24m	50/60/80 t (100 k, 130 k, 170 k lb)
nMax	3000, 4000 or 6000e
Rated axle load (VTS202)	28 t dual tandem axle (DTA) (60 k lb)
Rated axle load (VTS302)	40 t dual tandem axle (DTA) (80 k lb)
Minimum axle spacing	1.2 m for 28 t or 1.2 m for 40 t DTA
Foundation types	Above ground, shallow or deep pit
Operating temperature	-50° to +50° (-76° to 122° F)
Temperature EC/94/EEC	-10° to +40° (4° F to 104° F)

Standard features and Options

	Standard	Option
Treadplate driving surface	–	×
Top access to cells	–	–
POWERCELL® MTX or PDX®	–	×
Lightning protection	×	–
Longitudinal and lateral checking	×	–
Man-hole covers	×	–
POWERCELL terminal	–	×
Risers to raise scale	–	×
Side rails	–	×
Extended warranty	–	×
Ramps	–	×

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