

Scales that Carry **The Load of Accuracy.**

RELIABLE | RUGGED | READY FOR TOMORROW



ACCURATE
WEIGHING



ROBUST
CONSTRUCTION



CUSTOMISED
SOLUTIONS



END-TO-END
SUPPORT



INDUSTRY
IN MOTION.
WEIGHED RIGHT.

ABOUT

H&T TECHNOVATION

Engineering Reliable Solutions for a Stronger Tomorrow

H&T Technovation is a trusted name in weighbridges and PEB structures, delivering high-quality, durable and customised solutions for diverse industries. With a focus on precision, performance and customer satisfaction, we build more than structures – we build long-term partnerships.

BUILT
TO WEIGH
WHAT
MATTERS



EXPERIENCE
YOU CAN TRUST



QUALITY
AT EVERY STEP



**CUSTOMISED
SOLUTIONS**
BUILT AROUND YOU



**LONG-TERM
PARTNERSHIP**
FOR A STRONGER
TOMORROW

TYPES OF **WEIGHBRIDGE**

Two reliable configurations.
One accurate performance.

H&T
TECHNOVATION

BUILT
TO WEIGH
WHAT
MATTERS



PIT TYPE WEIGHBRIDGE

Flush with ground. Seamless movement.



- ▶ Flush with road level
- ▶ Ideal for high traffic areas
- ▶ Designed for access from both sides
- ▶ Rugged & durable

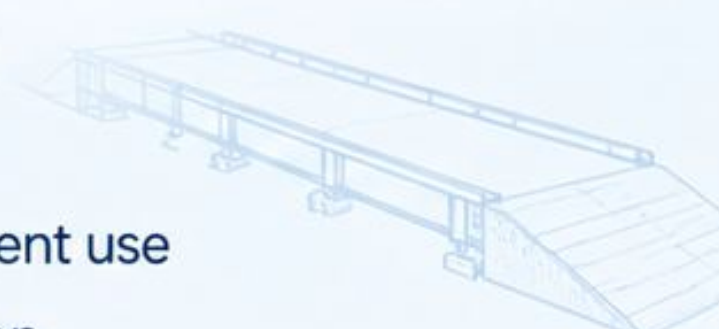


PITLESS TYPE WEIGHBRIDGE

Above ground. Flexible installation.



- ▶ No civil pit construction required
- ▶ Faster installation
- ▶ Suitable for temporary or permanent use
- ▶ Easier maintenance and relocation



ACCURACY
IN EVERY MEASUREMENT



DURABILITY
IN TOUGH ENVIRONMENTS



FLEXIBILITY
FOR YOUR OPERATIONS



RELIABILITY
FOR A STRONGER TOMORROW

WHICH WEIGHBRIDGE DO YOU NEED?

The right solution starts with understanding your site and operations.

BUILT
TO WEIGH
WHAT
MATTERS

ACCURATE
DURABLE
RELIABLE
FUTURE-READY



Site Space & Layout

Available space, entry/exit
and site constraints



Vehicle Type & Traffic Volume

Type of vehicles, daily traffic
and turning radius



Civil Feasibility

Ground conditions,
foundation requirements
and site readiness



Required Capacity

Axle load, gross weight
and future growth plans



Operational Needs

Permanent or temporary
use, automation, integration
and reporting



Long-Term Plans

Possibility of expansion
or relocation



YOUR REQUIREMENTS

You tell us your needs



H&T SITE ASSESSMENT

We analyse, evaluate
and recommend



THE RIGHT WEIGHBRIDGE

A solution that fits
your today and tomorrow

We don't recommend a type first.
We understand the requirement first.

FROM CONSULTATION TO COMMISSIONING

A smooth, transparent process. A reliable result.

BUILT
TO WEIGH
WHAT
MATTERS



Understand Your Needs

We discuss your operations, site conditions and future plans.



Site Analysis

Our team evaluates space, civil feasibility, traffic flow and technical requirements.



Recommend the Right Solution

We suggest the most suitable weighbridge configuration for your application.



Custom Design & Planning

Detailed design, drawings and project planning as per site requirements.



Installation & Integration

Professional installation with seamless integration to your systems (if required).



Testing & Commissioning

Complete testing, calibration and handover with ongoing support.



Expert Guidance

At every step



Reliable Execution

Built for your site



Long-Term Support

Beyond installation



A Partner for Growth

Today and tomorrow



MORE THAN
A WEIGHBRIDGE.
A PARTNER
THROUGH THE JOURNEY.

OPTIONAL READY-MADE FOUNDATION SOLUTION

Factory-made. Site-ready. Faster installation.

BUILT
TO WEIGH
WHAT
MATTERS



1 PRECAST FOUNDATION
ELEMENTS



2 READY AT FACTORY
Quality-controlled production



3 FAST INSTALLATION
Delivered. Placed. Ready to Weigh.



**Reduced
Installation Time**

Get operational faster



**Consistent
Quality**

Manufactured under
controlled conditions



**Cost-Effective
Solution**

Optimised construction
and labour costs



Flexible & Reliable

Suitable for various
site conditions

**SAME STRENGTH.
LESS ON-SITE WORK.
A SMARTER WAY
TO GET WEIGHING.**

HOW DOES A WEIGHBRIDGE LOAD CELL WORK?

From force to accurate weight, in a few simple steps.

BUILT
TO WEIGH
WHAT
MATTERS

1

VEHICLE LOAD

A vehicle drives onto the weighbridge.

2

LOAD TRANSFER

The vehicle's weight is transferred through the platform to the load cells beneath.

3

LOAD CELL DEFORMS

The load cell slightly deforms (compresses) under the weight.

4

STRAIN GAUGES RESPOND

Strain gauges inside the load cell change their electrical resistance when it deforms.

5

ELECTRICAL SIGNAL

These resistance changes create a small electrical signal (in millivolts) proportional to the weight.

6

WEIGHT DISPLAYED

The signal is processed, converted into a weight value and shown on the indicator.



Load Cell



Very small deformation
(not visible to the naked eye)



Change in resistance
due to deformation



Excitation
Voltage
(from indicator)

Wheatstone Bridge

Small
mV Signal
(proportional
to load)

Signals from all load cells
are combined in a junction box.



Junction Box



Digital Weight Indicator

Accurate Weight
You Can Trust



PRECISION
IN EVERY LOAD



TECHNOLOGY
THAT DELIVERS



A STRONGER
TOMORROW

WEIGHING
PROGRESS
ACROSS
INDUSTRIES.

LOAD CELL TYPES & TECHNOLOGY

BUILT
TO WEIGH
WHAT
MATTERS

Load cells are broadly available in two technology categories: Analog and Digital.
Both Analog and Digital load cells are available in two physical types: Cup Ball Type and Compression Column.



ANALOG



CUP BALL TYPE



COMPRESSION COLUMN



DIGITAL



CUP BALL TYPE



COMPRESSION COLUMN



Requires manual calibration
of the load cells after installation.



Does not require manual
load-cell calibration after installation.



ACCURACY
IN EVERY MEASUREMENT



ENGINEERING
A STRONGER TOMORROW



PARTNERSHIPS
THAT CREATE VALUE

WEIGHING
PROGRESS
ACROSS
INDUSTRIES.



BUILT WITH THE RIGHT MATERIALS

Quality components for strength, safety and long-term performance.

BUILT
TO WEIGH
WHAT
MATTERS



TATA STEEL

High-grade steel for superior strength and durability.



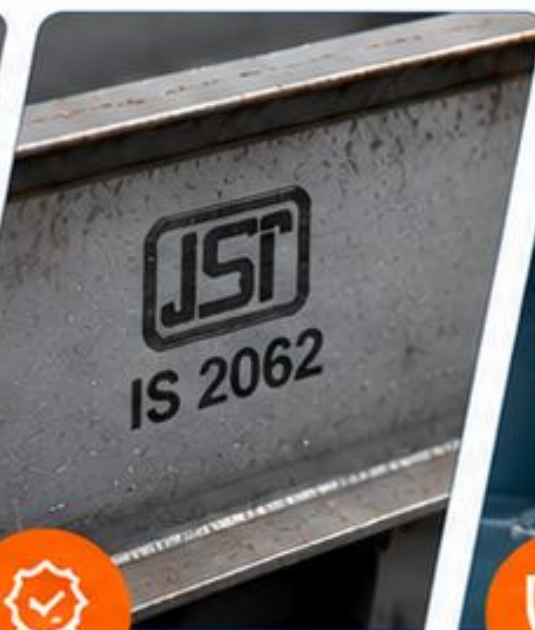
HEAVY-DUTY GIRDERS

Engineered for maximum load-bearing capacity.



ZINC NUTS & BOLTS

Corrosion-resistant for longer life even in harsh environments.



ISI GRADE MATERIAL

Manufactured as per Indian Standards for assured quality and safety.



PROTECTIVE COATING

Premium paint finish for enhanced weather resistance and long service life.



STRONGER STRUCTURE

Handles heavy loads with confidence.



LOWER MAINTENANCE

Durable materials reduce downtime.



SAFE & RELIABLE

Built to meet industry standards.



BETTER ROI

A long-lasting investment for your business.

QUALITY
IN EVERY DETAIL.
STRENGTH
IN EVERY WEIGH.

INSTALLATION DONE RIGHT

BUILT
TO WEIGH
WHAT
MATTERS



Correct installation
and functioning of
all load cells.



Proper junction-box
connectivity.



Protected wiring and
piping up to the IT /
control room.



Protection of wiring
from rats, insects and
physical damage.



Proper earthing.



Waterproof load cells
and protected / waterproof
junction arrangements.



Digital weight indicator
and system connectivity
checks.



Because accurate weighing starts with a proper installation.

PRECISION
IN EVERY STEP.
PERFORMANCE
FOR TOMORROW.



TESTING, CALIBRATION & HANDOVER

BUILT
TO WEIGH
WHAT
MATTERS



01 Testing of the complete weighbridge system.



02 Calibration using standard test weights.



03 Checking accuracy across the platform.



04 Corner / load-cell performance checks.



05 Verification of the weight indicator and system readings.



06 Final adjustments wherever required.



07 Trial weighing / operational verification.



08 Final handover to the client.



TESTED FOR ACCURACY. HANDED OVER FOR CONFIDENCE.

FROM
INSTALLATION
TO OPERATION
WE STAND WITH YOU.

UNMANNED WEIGHBRIDGE SYSTEM

Automated. Accurate. Efficient.

BUILT
TO WEIGH
WHAT
MATTERS



CCTV Camera

Monitors and records every transaction.



Traffic Signal

Shows red when the vehicle is stopped.



RFID Reader

Identifies the vehicle for automated entry.



Boom Barrier

Opens automatically after valid vehicle identification.



Display Indicator

Shows real-time weighing data inside the control room.



Minimal manual intervention



Faster and smoother operations



Accurate and reliable data



Improved security and control



A smarter way to **weigh**.
For a more efficient tomorrow.

TECHNOLOGY
THAT KEEPS
YOUR BUSINESS
MOVING.

CUSTOMIZED MEANS CUSTOMIZED.

Solutions designed for your unique requirement.

BUILT
TO WEIGH
WHAT
MATTERS



Light / Standard
Requirement



Appropriate capacity
and configuration.



Heavy-Duty
Requirement



Heavy-duty configuration.



Space Constraint



Suitable pit / pitless planning.



Lower Civil
Construction Requirement



Ready-made foundation
option where suitable.



Automation
Requirement



Unmanned weighbridge system.



Different Load
Requirement



Suitable load-cell configuration.



Right Capacity. **Right** Configuration. **Right** Investment.

ENGINEERED
AROUND YOUR
BUSINESS.
BUILT FOR WHAT'S
NEXT.

SUPPORT THAT CONTINUES AFTER INSTALLATION

Long-term support beyond handover.

BUILT
TO WEIGH
WHAT
MATTERS

ACCURATE WEIGHING
STRONGER BUSINESSES



1-YEAR FREE WARRANTY

Overall offering includes a one-year free warranty as communicated by H&T.



AFFORDABLE AMC SERVICES

Annual Maintenance Contract options help clients maintain the weighbridge after installation.



MAINTENANCE & TECHNICAL SUPPORT

Support for system upkeep and technical requirements after handover.



ALWAYS BY YOUR SIDE.
Today. Tomorrow. Always.

MORE THAN
A SUPPLIER.
A LONG-TERM
PARTNER.

TRUSTED ACROSS KEY INDUSTRIES

Reliable weighing solutions for diverse business needs.

BUILT
TO WEIGH
WHAT
MATTERS



Cement & Building
Materials



Mining & Minerals



Steel & Metal



Ports & Logistics



Agriculture & Agri
Commodities



Chemical & Fertilizer



Waste Management
& Recycling



Other Industries



DIFFERENT INDUSTRIES.
A STRONGER TOMORROW.

WEIGHING
PROGRESS
ACROSS
INDUSTRIES.

CLIENT PORTFOLIO

OUR VALUED CLIENTS

Proud to partner with renowned organisations across industries who rely on our weighing solutions for accuracy, reliability and performance.



DUKE
PUMPING SOLUTIONS



VIMAL
FOODS & BEVERAGES



BAPS
SPIRITUAL & SOCIAL ORGANISATION

Different industries.
A common trust.



ACCURACY
IN EVERY MEASUREMENT



TRUSTED
ACROSS INDUSTRIES



BUILT FOR
A STRONGER TOMORROW

WEIGHING
PROGRESS
ACROSS
INDUSTRIES.

THANK YOU

We look forward to partnering with you for reliable, accurate and future-ready weighing solutions.



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