



# **NUWEIGH RIDGE SERIES TRUCK SCALE DATA SHEET**





## Truck Scale Description

The NUWEIGH “Ridge Series” Truck Scale has been manufactured to the highest standards and will provide you with a long term solution, the truck scale has been designed and verified by suitably qualified weighing and structural engineers and we believe this is the very best truck scale solution available in the Australian market today.

Nuweigh Australia are the Australian agents and Manufacturers for NUWEIGH Weighing Equipment, which allows our authorised agents throughout Australia to offer you a direct competitive pricing structure on this truck scale and associated equipment.

We guarantee the quality and accuracy of all our NUWEIGH “Ridge Series” Truck Scales and I can guarantee this truck scale will give you long-term reliability. We can also offer you software management systems to work in conjunction with your truck scale, all our software is developed and designed in-house by our Information Technology Division.

The Ridge Series truck scale has been designed with innovative unique ideas always keeping in mind that the Truck Scale could be used in heavy industrial applications, this heavy-duty design ensures that the Ridge Series Truck Scale will provide long-term accurate results.

To ensure the long term reliability and accuracy of the NUWEIGH Truck Scales, regular maintenance and service inspections are recommended to be carried out by authorised Nuweigh technicians. We recommend two (2) inspections per annum on all NUWEIGH Ridge Series Truck Scales.

The NUWEIGH Ridge Series truck scale can be supplied in 2 different designs:

- ✓ **SINGLE DECK** Truck Scale is the conventional type used for standard Gross weights.
- ✓ **MULTI DECK MODULE** Design for weighing different truck axle groups with minimum truck repositioning on the truck scale and depending on the truck configuration this can be done in a single weigh operation.





## Single Deck Truck Scale

The single deck design is the normal single deck truck scale that has been supplied to the Australian market for more than 50 years to give a total gross weight of the vehicle being weighed. With these types of Truck Scales it is very difficult to obtain different axle group loadings accurately in a single weigh operation or multiple truck movements. In the past customers have used a method called SPLIT weighing to obtain the different axle groups on single deck truck scales, this method relies on part of the truck being on level ground before or after the truck scale. The Split weighing method is very unreliable and does not give accurate results.

The single Deck Truck Scale is the most common cost effective solution and if your application is mainly for single gross loads this type of Truck Scale may be suitable, please discuss your requirements with our technical representative and ask for a free site inspection for us to offer you the right truck scale for your application.





## Multi Deck Module

The NUWEIGH Multi Deck Module truck scale has been designed to give the customer a two in one truck scale by showing the weights of the different axle groups as well as displaying the total gross weight in one single weigh operation or with minimal truck repositioning on the truck scale depending on the truck configuration. This style of truck scale brings tremendous advantages to both the truck scale owner and the truck being weighed, with the Multi Deck Design we take away the costly expense to the truck scale owner in having a separate Dead Weight Truck available on calibrations or Government certifications. We can test and calibrate each Multi Deck as a separate unit, this brings economical savings in re calibration and certification checks. Additional to this the truck being weighed can accurately see each axle group and the total gross weight without having to move the truck in some instances or with minimal truck repositioning on the truck scale depending on your truck configurations.

We can supply our standard Multi Deck Module truck scale or the NUWEIGH Ridge Series Multi Deck Truck Scales can be designed to suit most truck configurations with as many modules as required, and we recommend you discuss your requirements with our technical representatives to ensure you obtain the correct design for your intended trucks to be weighed.



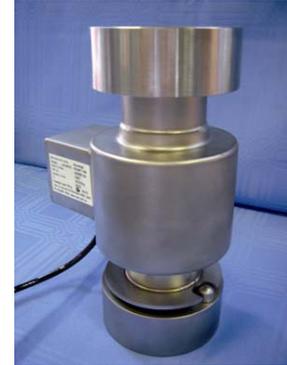
## AXLE GROUP WEIGHTS





## Load Cells

The Nuweigh JAC 9000 Load Cell brings an advanced technology to weighbridge load cells. Unlike the standard analogue load cell, the JAC 9000 load cell has an in-built 10 kV lightning suppression protection. This ensures the load cell has the very best protection available for electrical surges that can occur on truck scale installations. The load cell is hermetically sealed and of stainless steel construction with a protection rating of IP68 this ensures continued accuracy in hostile and corrosive industrial environments.



This load cell design not only provides superior performance and better resilience to power surges but is also more economical to manufacture using our efficient NUWEIGH manufacturing systems. This results in a significant saving in the cost of replacement parts and spare parts holdings.

The JAC 9000 load cell comes with (2) Two fully stainless steel hardened receiver cups, the bottom receiver cup has a special anti rotation device to prevent damage to the load cell from vibration and movement which is a common cause of problems in many Truck Scale installations. The load cell has a 300% ultimate overload protection and a safe overload of 150%.

## Load Cell Cabling

All NUWEIGH Ridge Series Truck Scales include load cell cabling that will be housed in conduit for extra protection, all conduit is held in place by permanently fixed conduit straps that have been designed as part of the Truck Scale for a permanent solution.





## Digital Weighing Indicator

The NUWEIGH JAC 320 digital indicator is the heart of the system. It receives all the data transmitted from the load cells and converts this information, which is displayed on a 6 digit 7 segment 25mm high LCD display. The weighing indicator incorporates a superior list of advanced features, with a full stainless steel design and IP 66 protection rating will provide you with confidence in all your weighing results.

The JAC 320 digital weighing indicator has a battery back up option for times when power is not available, it can be connected to a computer or printer using the standard dual serial ports, ticket formats are totally configurable using the optional label / ticket software feature. The 10 key numeric keypad gives the operator an easy way to navigate through the advanced features of this state of the art electronic weighing indicator.



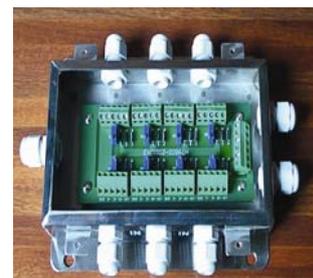
The JAC 320 has a NET /GROSS direct push key that will enable the operator to toggle between the Net Weight and the Gross weight if a Truck has been tared on the Truck Scale.

## Lightning Protection

Lightning damage is one of the most common and expensive causes of truck scale failure. Through the use of the JAC 9000 load cell with the 10kv built in protection, NUWEIGH have eliminated much of the risk of failure due to lightning damage. This claim is backed and supported by an optional lightning guarantee package, which gives 100 % parts warranty for a one year period against damage incurred from lightning.

## Summation Box

The NUWIGH CHR131 summation box is manufactured in a full stainless steel housing and dedicated gland entry points are located on the Junction Box to suit each Load Cell and home run Digital Indication Cable.





# Truck Scale Options

## Single Deck Truck Scale

### SINGLE DECK TRUCK SCALES

<b>Maximum Axle Loading</b>	Single axle	10 tonne
	Tandem drive axle	20 tonne
	Tri drive axle	25 tonne
<b>Designed Axle Spacing</b>	1.3 metre	
<b>Standard Capacities</b>	10t - 30t - 60t - 80t - 100t - others upon request	
<b>Accuracy</b>	+/- 20kg or +/-50kg	
<b>Standard Sizes</b>	4.5m - 6m - 9m - 10m - 20m - 27m - all 3.5m wide	
<b>Truck Scale Design</b>	Fully electronic, above ground pitless type	
<b>Construction</b>	Steel fully galvanised	
<b>Deck construction</b>	Concrete	
<b>Load Cell Model</b>	NUWEIGH JAC 9000 Suppression Protect Type	
<b>Load Cell Capacity each</b>	30 tonne or 50 tonne	
<b>Load Cell Protection Type</b>	IP68	
<b>Design Load Cells</b>	Low Profile 100% Stainless Steel Hermetically sealed	
<b>Load Cell Cabling</b>	Housed in conduit	
<b>Digital Indicator</b>	NUWEIGH JAC 320 Stainless Steel digital indicator	
<b>NMI Approval No</b>	6/10B/80	
<b>Design Loading</b>	Designed for legal road RTA axle load limits.	
<b>Ground Adequacy</b>	100 kPa required please see Item 7 in this proposal	





## Multi Deck Module

### MULTI DECK TRUCK SCALES

#### For Axle Group Weights

<b>Maximum Axle Loading</b>	Single axle	10 tonne
	Tandem drive axle	20 tonne
	Tri drive axle	25 tonne
<b>Modules &amp; Axle Weights</b>	We can offer a Multi Deck Truck Scale to your exact truck configurations that will enable the truck to obtain the weights of different axle groups with minimal truck re positioning on the truck scale.	
<b>Designed Axle Spacing</b>	1.3 metre	
<b>Standard Capacities</b>	30t - 60t - 80t - 100t - 120t - others upon request	
<b>Accuracy</b>	+/- 20kg or +/-50kg	
<b>Standard Sizes</b>	From 10m to 54m - all 3.5m wide	
<b>Truck Scale Design</b>	Fully electronic, above ground pitless type	
<b>Construction</b>	Steel fully galvanised	
<b>Deck construction</b>	Concrete	
<b>Load Cell Model</b>	NUWEIGH JAC 9000 Suppression Protect Type	
<b>Load Cell Capacity each</b>	30 tonne or 50 tonne	
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## Ground Adequacy

The NUWEIGH Ridge Series Truck scale requires a ground bearing pressure of 100 kPa in the area that the Truck scale is to be installed. If there is any doubt we recommend that a Geo Technical Investigation be carried out to report on the adequacy of the ground,





## Australian Government Approvals

The NUWEIGH Ridge Series Truck Scale has been pattern approved and certified by the National Measurement Institute of Australia. Weighing Equipment that has been Trade Approved is tested and issued a certificate of approval by the National Measurement Institute (Australian Government).

To obtain this approval from the authorities the equipment must meet strict performance criteria and the manufacturer must demonstrate that it is capable of manufacturing Truck Scales to meet the required Australian Standards.

By purchasing a Trade Approved scale it is your guarantee that the scale and weighing components are of the highest quality and when installed can be certified for trade use within Australia.

Our successful NMI Certificate number is:

**6-10B-80**

### Spare Parts

NUWEIGH Australia carries a full range of spare parts for the NUWEIGH Ridge Series Truck Scales and associated equipment including driver control stations. The following spare parts for the proposed Truck Scale are always held in stock at Newcastle Head Office:

Parent Component	Spare Part
Truck Scale	30 and 50 tonne load cells
Truck Scale	Load cell cables, connectors etc
Digital Indicator	Main circuit board
Digital Indicator	Complete digital indicator
Truck Scale	Complete junction box
Truck Scale	Bottom and top receiver cups
Truck Scale	Bottom and top receiver pads
Truck Scale	Integral bumper stop arrangement
Truck Scale	Bumper packing plates
Truck Scale	Load cell mount plates





## Truck Scale Software

NUWEIGH Australia can also offer management software to suit any application we have a dedicated Information Technology Division who develop and design all software at our Newcastle (Australia) head office. NUWEIGH Australia has been supplying truck scale software and systems since 1980 and has extensive experience in design, supply and commissioning of truck scale software management systems, please ask your representative for further information packages or a free survey and demonstration for your application.

Weighbridge transactions are processed at a weighbridge office location via the weighbridge front screen application.



Field	Value
Vehicle	ABC123
Job	80001
Product	GBF004 (BEDDING SAND (SCREENED))
Carrier	CL006 (CLEARY BROS)
Customer	AFF001 (AFFECTIVE SERVICES PTY LTD)
Destination	TRUCK STOP
Remaining	-55.00 t
Target	0.00 t
Progress	55.00 t
Gross	7.30 t
Tare	0.00 t
Net	0.00 t

### Vehicle Identification

Vehicles can be identified automatically via proximity card readers (using hand held or vehicle mounted tags) or manually entered at the weighbridge module. The vehicle prompt screens can be configured to suit the method of vehicle identification utilised at the site.





Transaction List

File Tools

List Chart

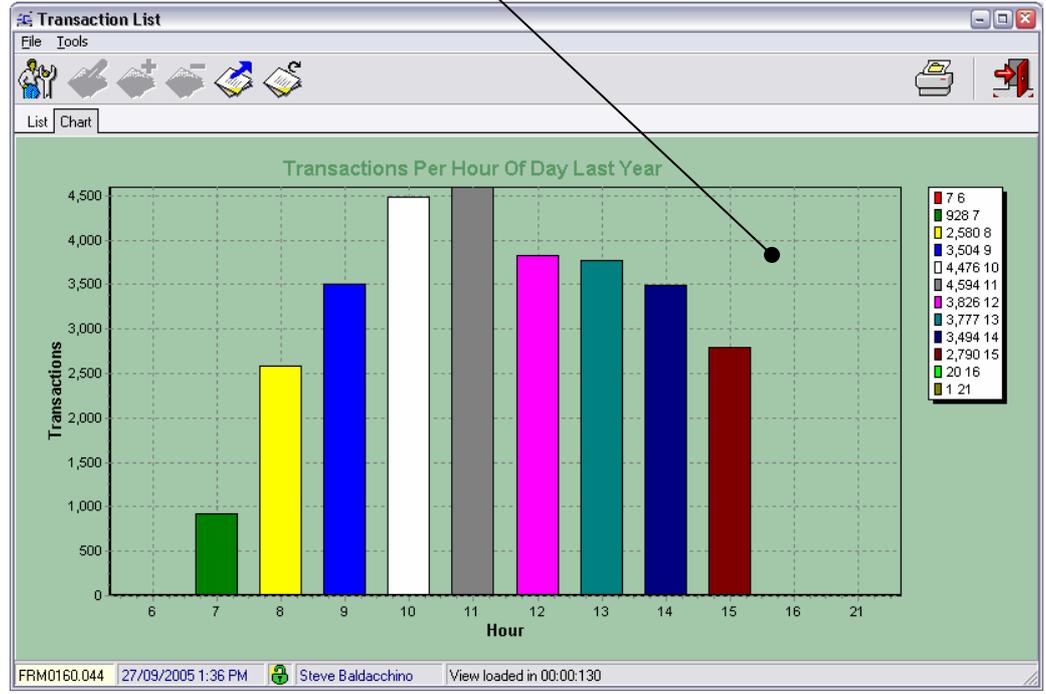
Transactions Per Hour Of Day Last Year

Hour	Hour Of Day	Transactions
1	6	7
2	7	928
3	8	2580
4	9	3504
5	10	4476
6	11	4594
7	12	3826
8	13	3777
9	14	3494
10	15	2790
11	16	20
12	21	1

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View data in a grid

View data in a chart





## Conclusion

NUWEIGH Australia has been a leader in the supply and installation of industrial weighing equipment and truck scale management systems since 1976. Our product is backed up by an experienced service division, a large stock of spare parts. We believe that our vast experience in truck scale installations and systems, our ability to back-up the product and the superior quality of the Nuweigh Truck Scale gives you the Guarantee of a quality product.

