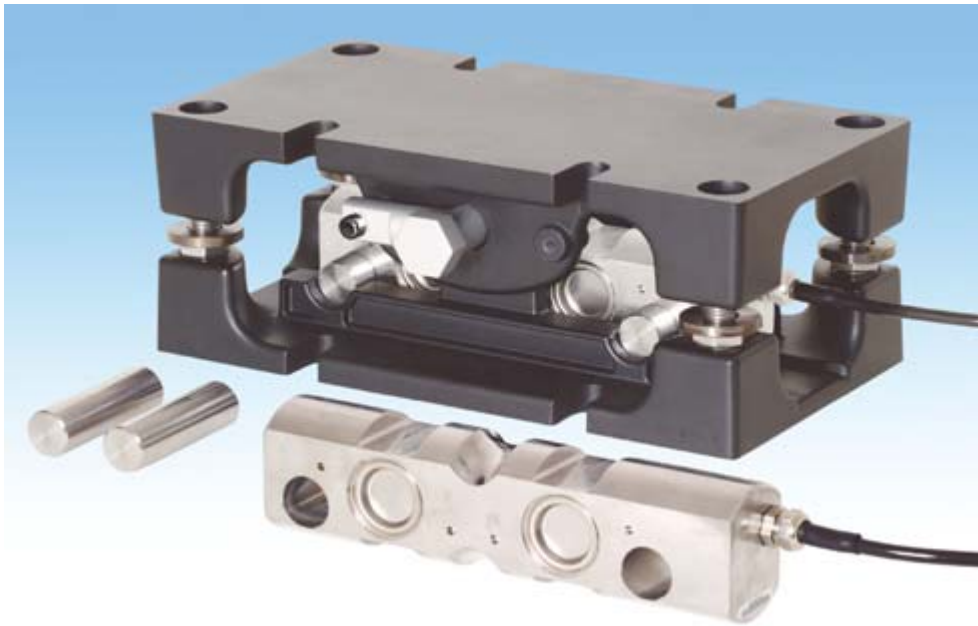


MasterMount®

Unique, patented load cell assembly for silo, tank and vessel weighing

capacities 5te to 20te



Load cell installation/removal under full load without jacks or dummies

Major savings on installation time and cost

Substantial lift off prevention

Allows vessel expansion and contraction

Low profile, stable design

Stainless steel load cell, available in ATEX approved versions

5 year warranty

Fully welded load cell construction to IP68

Resistant to off-axis loading

Auto-phoretic coated toughened mount surface

Vessel weighing problems solved simply and cost effectively. The MasterMount® is the latest addition to an innovative range of patented weighing assemblies which are designed with safety and ease of installation in mind.

Thames Side - Maywood

...your specialist load cell partner



MasterMount® - Innovation from Thames Side-Maywood

Thames Side-Maywood's **MasterMount®** is the latest in a range of unique patented load cell and mount combinations which include the **LeverMount®** and **LeverMount Lite®** and extends the range of capacities up to 20 tonnes.

The **MasterMount®** has primarily been designed for easy, safe, simple installation and removal of the load cell without the aid of specialist tools, jacks or other equipment.

The special design also avoids the need to use Dummy cells whilst any welding or other work is being undertaken on the vessel. The high specification double ended stainless steel shear beam load cell incorporated in the **MasterMount®** is the same model used in Thames Side-Maywood's popular VC3500 'traditional' mount arrangement.

The load cell can also be specified with ATEX dust and gas certification for use in intrinsically safe areas.

A patented lever and cam mechanism enables the top plate of the loading assembly to be raised and lowered with a 180 degree turn, which can be accomplished easily, even at the maximum 20 tonne capacity, with just an M30 socket spanner and T-bar. The stainless steel load cell is retained within the assembly by simple captivated pins, thus avoiding the use of fiddly retaining clips. Lift off protection is provided through the mount itself, rather than the traditional design of through the load cell, which protects the load cell from reverse shock loading. The **MasterMount®** assembly is manufactured from high strength cast steel and has an 'autophoretic' corrosion resistant paint finish.

Once the **MasterMount®** loading assembly has been fitted under the vessel, installation and removal of the load cell can be accomplished in minutes, resulting in large savings in installation costs.

The **MasterMount®** is just one product in an extensive range of innovative Thames Side load cell and mount arrangements with capacities from 20kg up to 600 tonnes designed specifically for Process Weighing and Materials Storage applications.



MasterMount® - Innovation from Thames Side-Maywood

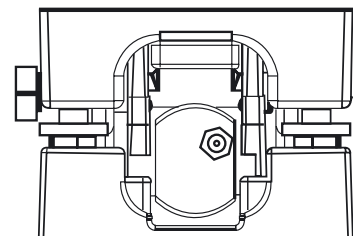
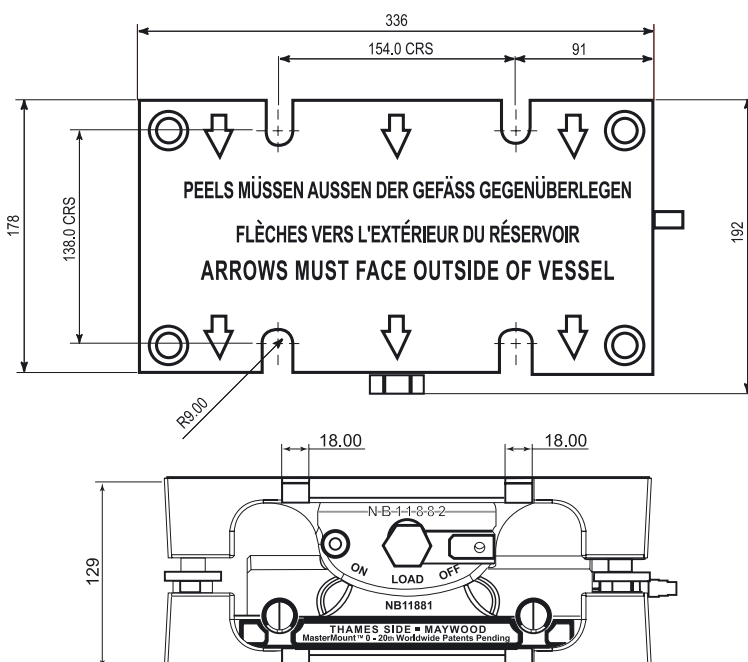
FEATURES

- Purpose designed cast steel mount and stainless steel load cell
- Simple, robust two part casting supplied locked in position via transit bolts
- Stainless steel, IP68, fully welded double ended shear beam load cell
- Special cam design raises and lowers the top plate and vessel
- Vessel can be raised and lowered under load
- No jacking screws or support pillars
- Substantial anti-lift facility through mount, not load cell
- Minimal difference between the raised and lowered height of 3 mm
- One design covers the range from 5,000kg to 20,000kg
- Load cell can be safely removed from under fully loaded vessel

BENEFITS

- Ideal for process weighing applications that require an accurate, safe and cost effective solution
- Aesthetically pleasing design.
- Suitable for use in the harshest of industrial environments
- No need for alternative lifting devices such as pad jacks
- Easier, quicker and safer than alternative mount arrangements
- No stripped threads or top plate interference
- Increased safety, eliminating potential damage to the load cell
- Reduces the need to adjust for pipe work without flexible connections
- Covers the majority of process weighing applications
- Much less down time and reduced cost when compared to conventional mounts

INSTALLATION DETAILS



technical specification sheet **MasterMount®**

Standard Load Ranges	5,10,15,20	units
Full Load Output	2.0(+/- 0.25%)	tonnes
Excitation Recommended	10	mV/V
Excitation Maximum	18	V
Safe Service Load	150	V
Ultimate Load	300	%
Side Load without accuracy degradation	30	%
Maximum Operating Side Load	100	%
Combined Error	<+/-0.05	%
Repeatability	<+/- 0.02	%
Output at Zero Load	<+/-2.0	%
Input Resistance	785 +/- 20	ohms
Output Resistance	700 +/- 5	ohms
Operational Temperature Range	-25 to +80	C
Compensated Temperature Range	-10 to +40	C
Temperature Coefficient on Zero	<+/-0.005	%/C
Temperature Coefficient on Span	<+/- 0.003	%/C
Environmental Protection	IP68	
Insulation	>500 at 100Vdc	M-ohms

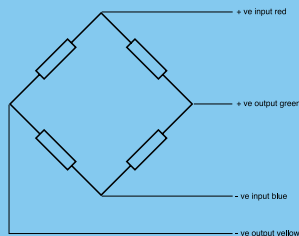
All percentages are related to Full Rated Load

Construction

Sensor element High strength stainless steel type 17 - 4PH
Mounting assembly Alloy steel, auto-phoretic toughened surface
 Stainless steel is available as an option
Shafts Corrosion resisting steel, Type 431 S29

Electrical Connections

4 Core 16 / 0.2 mm, screened polyurethane cable.
 Cable length 10m up to 15,000 kg
 Cable length 20m for 20,000kg.



Screen not connected to Load Cell body.

In the interests of continued product development, Thames Side-Maywood Ltd reserves the right to alter product specifications without prior notice.

Distributed by

Thames Side - Maywood

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