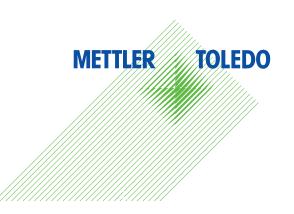


Convert Any Tank, Hopper or Vessel Into a Scale



When Your Container Needs to Be a Scale

☐ Self contained...no check rods or flexures □ NTEP/OIML/Hazardous area approvals meet global requirements ☐ Fixed, semi- and full-floating pin modules allow for thermal expansion ☐ Anti-lift device restrains tank from tipping ☐ Jacking bolt ensures easy load cell replacement/less downtime

vessels or containers.

Moreover, the completely

is ideal for most weighing

applications that use tanks,

blenders, bins and hoppers

self-contained weigh module

A load cell is not a weigh module. Weigh modules operate as the mechanical suspension system for load cells, directing the tank weight onto the load cell. Our FLEXMOUNT Weigh Modules comprise the entire suspension system for a tank scale.

> We reduce the risk of problems occurring by giving you an anti-lift/ jacking bolt, which protects your vessel from tipping plus allows for easy serviceability.

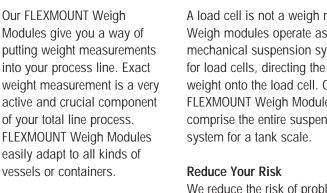
ANTI-LIFT/JACKING BOLT

UNIQUE TOP PLATE

expand and contract.

Floating, semi-floating and fixed top plate design provides system checking while allowing the structure to

Prevents vessel from tipping over, also provides convenient method of lifting empty vessel for servicing.



BLIND HOLE DESIGN

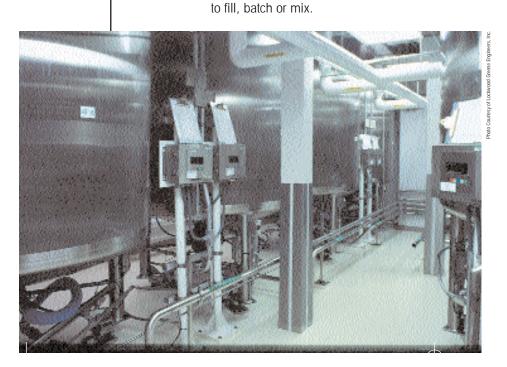
Controls weight application by concentrating all the vertical load at one point on the load cell.

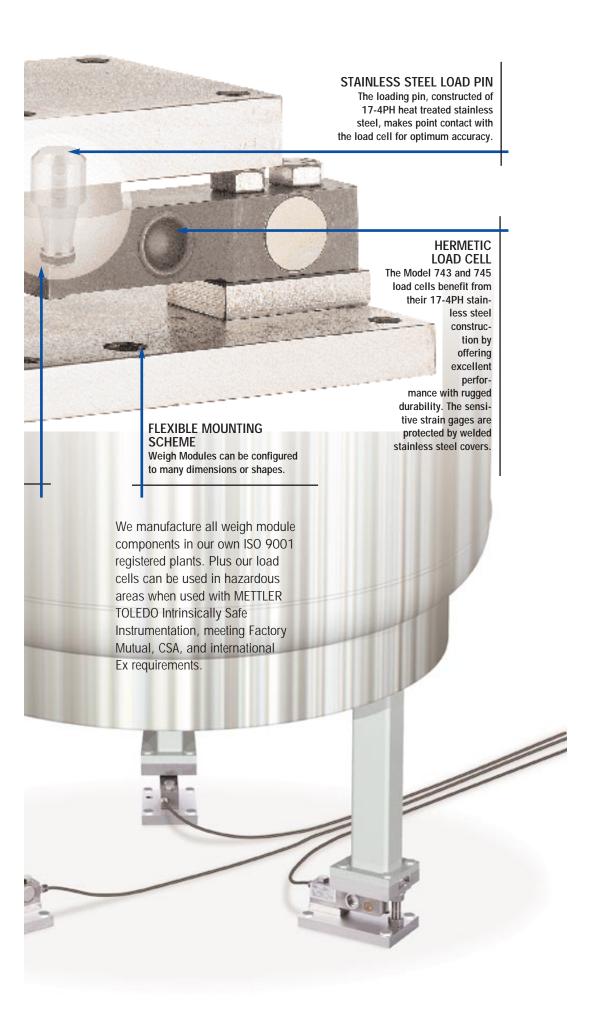
There is no need for additional hardware with FLEXMOUNT Weigh Modules...each one is fully selfchecking and always provides dependable accuracy and reliability.

Performs Beyond **Accuracy Requirements**

Why take the risk of letting weight measurement, which is a fraction of the total process cost, jeopardize your entire line? Our METTLER TOLEDO load cells, contained within our weigh modules, meet or exceed accuracy requirements of U.S., Canadian, and international regulatory agencies. A blind hole design increases accuracy by concentrating the vertical load at one point on the load cell.



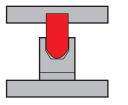




FLEXMOUNT Mounting System

Each FLEXMOUNT System consists of three different module types...a Fixed-Pin Module, a Semi-Floating Module and a Full-Floating Module. The combination of these three top plate configurations delivers a weighing system which is fully self-checked and controls the load application point while allowing thermal expansion and contraction.

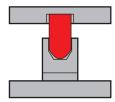
Fixed-Pin Module





Anchors the system by providing a fixed point with no horizontal movement. For best accuracy, attach piping and electrical connections to the scale at this point.

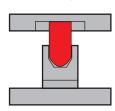
Semi-Floating Module





Keeps the scale from rotating around the fixed pin. Scale floats enough to allow vessel to expand and contract without introducing an error-causing bind in the weigh system.

Full-Floating Module(s)





Supports load only. Suspension unaffected by expansion/contraction.



Approvals	
NTEP	500 lb through 45,000 lb load cells meet or exceed NIST Handbook 44 accuracy requirements for legal-for-trade application and have been issued an NTEP Certificate of Conformance
OIML	220 kg through 20,412 kg load cells meet or exceed OIML C3 R60 requirements
CE	FLEXMOUNT load cells meet European Standards and have been issued a CE Declaration of Conformance.
FM	FLEXMOUNT load cells are Factory Mutual Approved when used with METTLER TOLEDO Intrinsically safe instrumentation in hazardous areas.
EX	Model 743, 744 and 745 FLEXMOUNT load cells (through 45,000 lb/20,412 kg) have European Approval for use in Hazardous Areas when used with METTLER TOLEDO Intrinsically safe instrumentation.



FLEXMOUNT



CENTERLIGN



TENSION

METTLER TOLEDO Weigh Modules

Call or write your authorized METTLER TOLEDO distributor for a copy of the "Do-It-Yourself Guide to Building Tank Scales" and the "Weigh Module Systems Handbook." You'll become acquainted with the full line of METTLER TOLEDO Weigh Modules for all your static, dynamic and tension weighing applications.

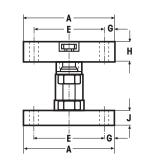


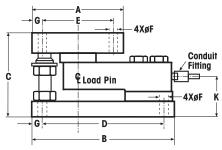


	I	NIST H44 U.S. STANDARD MOD	ULES (lb)		OIML STANDARI	MODULES (kg)	
Load cell capacity	250	500 1250 2500 5000 10,000	20,000 30,000	45,000	220 550 1100 2200 4400	9072 13,608	20,412
Model number	744	745	743	743	745	743	743
Excit. volt. (VDC or VAC rms)	15	15	15	15	15	15	15
Rated output (mV/V)	2.0 ±0.002	2.0 ±0.002	2.0 ±0.005	2.0 ±0.005	1.94 ±0.002	2.0 ±0.005	2.0 ±0.005
Input resistance (Ohms)	385 min	385 min	380 ±20	2200 ±100	385 min	380 ±20	2200 ±100
Output resistance (Ohms)	350 ±2	350 ±2	350 ±2	2000 ±20	350 ±2	350 ±2	2200 ± 20
Zero balance (mV/V)	±0.02	±0.02	±0.02	±0.02	±0.02	±0.02	±0.02
Combined error (% FSO)	< 0.03	< 0.03	<0.02	<0.02	<0.017	<0.02	<0.02
Non-repeatability (% FSO)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Creep in 20 min. (% FSO)	< 0.03	< 0.03	<0.02	<0.02	<0.025	<0.02	<0.02
Temp. comp. range	-10 to +40°C	-10 to +40°C	-10 to +40°C	-10 to +40°C	-10 to +40°C	-10 to +40°C	-10 to +40°C
Safe operating range	-15 to +85°C	-15 to +85°C	-15 to +85°C	-15 to +85°C	-15 to +85°C	-15 to +85°C	-15 to +85°C
Temp. effect – zero balance	0.10%/100°F	0.10%/100°F	0.11%/100°F	0.16%/100°F	0.057%/40°C	0.093%/40°C	0.093%/40°C
Deflection @rated capacity	0.01"	0.01" 0.01" 0.01" 0.012" 0.012"	0.036"	0.065"	0.254 mm	0.91 mm	1.65 mm
Standard cable length	15'	15' 30'	30'	30'	4.57 m 9.14 m	9.14 m	9.14 m
Material	17-4 PH SS	17-4 PH SS	17-4 PH SS	17-4 PH SS	17-4 PH SS	17-4 PH SS	17-4 PH SS
Wiring & gage cavity seal type	Environmentally protected	Hermetically sealed	Herme sea	,	Hermetically sealed	Hermetically sealed	/
Integral conduit fitting	1/4-18NPT	1/4-18NPT	1/4-18NPT	1/4-18NPT	1/4-18NPT	1/4-18NPT	1/4-18NPT
Certificate number	Pending	92-108	88-008	88-008	TC2154	TC2977	TC2977
Accuracy class	NA	III	III	III OR IIIL	C3 R60	C3 R60	C3 R60
Nmax single load cell	NA	3000d			3000d	3000d	3000d
Nmax multiple load cell	NA	5000d	5000	5000d III 10000d IIIL			
Vmin	NA	0.07 0.175 0.35 0.70 1.40	2.80 4.20	6.40	0.022 0.056 0.113 0.226 0.440	1.5 2.27	3.4
Min. dead load	0	0	200	200	0	50 75	100
Safe overload (% FSO)	150	150	150	150	150	150	150
Ultimate overload (% FSO)	300	300	300	300	300	300	300
Safe side load (% FSO)	100	100	100	100	100	100	100

Specifications subject to change without notice.

FLEXMOUNT Dimensions





	NIST H44 U.S. STANDARD MODULES (Ib)			OIML STANDARD MODULES (kg)				
Capacity	250-5000	10,000	20,000 30,000	45,000	550-2200	4400	9072 13,608	20,412
Unit of Measure	in	in	in	in	mm	mm	mm	mm
Α	4.5	6	8	9	114	152	203	229
В	7	9.25	14	16	178	235	356	406
С	4.125	5.375	7.5	9	105	137	191	229
D	6	7.25	12	13.5	152	184	305	343
E	3.5	4	6	6.5	88.9	102	152	165
F	0.4375	0.6875	0.8125	1.125	11.1	17.5	20.6	28.6
G	0.5	1	1	1.125	12.7	25.4	25.4	28.6
Н	1	1.25	1.75	2	25.4	31.8	44.5	50.8
J	0.75	1	1.75	2	19.1	25.4	44.5	50.8
К	2	2.5625	3.8125	4.5	50.8	65.1	96.8	114

Specifications subject to change without notice.

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