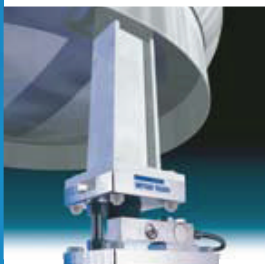


Accurate, Reliable Weighing for Static Tank Weighing



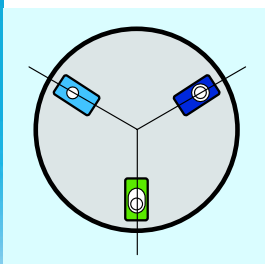
Tank Weighing

Flexmount weigh modules offer rugged construction and many features needed for accurate and reliable tank weighing. Available in capacities from 110kg to 20t, they are designed for easy and economical system integration.



Load Cells

Model 0745 and 0743 beam load cells provide stainless steel design, hermetic sealing and IP68 protection. Thus they are ideal for harsh industrial environments such as food or pharmaceutical production processes. The "blind" load-introduction hole provides optimum loading conditions for best performance.



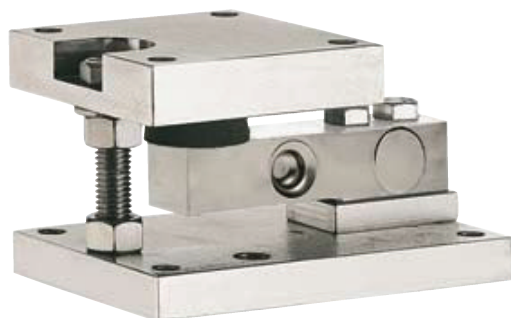
Self checking

Each Flexmount System consists of three different module types ... a Fixed-Pin Module, a Semi-Floating Module and some number of Full-Floating Modules. The combination is self checking while allowing a large range of thermal expansion/contraction. Many arrangements are possible to suit tanks with 3 or more legs in circular, square or rectangular patterns.



Anti-Uplift/Jacking bolt

The Anti-Uplift bolt restrains the tank from tipping over and can also be used to jack empty tanks for service. Thus Flexmount provides additional safety against wind loads when your system is installed outside. The anti-uptift bolt also has a centering washer which locates the top plate correctly for installation.



0958 Flexmount Weigh Module

Flexmount weigh modules enable you to convert a tank, silo or hopper into a weighing scale. The 0958 Flexmount can be adapted to a wide range of applications, including tanks for filling, batching and inventory management. Regardless of the application, these easy-to-install weigh modules deliver accurate and reliable performance. The self-checking function allows for economical system integration. Flexmount weigh module features are as follows:

- Capacity range 110kg - 20.4t
- Self checking for economic system integration
- Hermetically sealed stainless steel IP68 load cell (not 0744)
- Top plate rigidly located for easy installation
- Uplift protection
- Large range of thermal expansion/contraction possible
- Painted or stainless steel mounting hardware
- Global approvals standard on every load cell

0958 Flexmount Specifications

WEIGH MODULE		unit of measure	Specification								
Model No.			0958 Flexmount								
Rated Capacity		kg (lb)	113 (250)	220 (500)	550 (1250)	1100 (2500)	2200 (5000)	4400 (10000)	9072 (20000)	13608 (30000)	20412 (45000)
Load Limit, safe ⁹⁾	carbon steel	kN (lb)	1.7 (375)	3.3 (750)	8.3 (1875)	16.7 (3750)	29.8 (6700)	59.2 (13300)	133 (30000)	175 (39500)	213 (47800)
	stainless steel	kN (lb)	1.7 (375)	3.3 (750)	8.3 (1875)	16.7 (3750)	23 (5160)	52 (11700)	133 (30000)	200 (45000)	300 (67500)
Restoring Force ⁵⁾		%A.L./mm (.../in) ³⁾	0 (0)								
Max. horizontal force, carbon steel	transverse ⁶⁾	kN (lb)	1.1 (250)	2.2 (500)	5.6 (1250)	7.6 (1700)	7.6 (1700)	20.7 (4660)	35.8 (8050)		62.6 (14070)
	longitudinal ⁷⁾	kN (lb)	1.1 (250)	2.2 (500)	5.6 (1250)	11.1 (2500)	22.2 (5000)	44.5 (10000)	89 (20000)	133 (30000)	200 (45000)
Max. horizontal force, stainless steel	transverse ⁶⁾	kN (lb)	1.1 (250)	2.2 (500)	4.1 (920)	4.1 (920)	4.1 (920)	10.1 (2260)	58.9 (13230)		93.8 (21090)
	longitudinal ⁷⁾	kN (lb)	1.1 (250)	2.2 (500)	5.6 (1250)	11.1 (2500)	22.2 (5000)	44.5 (10000)	89 (20000)	133 (30000)	200 (45000)
Max. top plate travel ¹⁰⁾	transverse	mm (in)	± 3.0 (0.12)					± 4.6 (0.18)	± 6.4 (0.25)		
	longitudinal	mm (in)	± 3.0 (0.12)					± 4.6 (0.18)	± 6.4 (0.25)		
Max. Uplift Force ⁸⁾		kN (lb)	22.2 (5000)					44.5 (10000)	133 (30000)		200 (45000)
Weight (including load cell), nominal		kg (lb)	7 (15.5)				7.5 (16.5)	16 (35)	49 (108)		71 (157)
Material			carbon steel & 304 stainless steel								

LOAD CELL		unit of measure	Specification								
Model No.			0744	0745A					0743		
Rated Capacity (R.C.)		kg (lb)	113 (250)	220 (500)	550 (1250)	1100 (2500)	2200 (5000)	4400 (10000)	9072 (20000)	13608 (30000)	20412 (45000)
Rated Output		mV/V @R.C.-kg	2 ± 0.002	1.940 ± 0.002					2 ± 0.005		
		mV/V @R.C.-lb	2 ± 0.002	2.000 ± 0.002					2 ± 0.005		
Combined Error ¹⁾		%R.C.	≤ 0.03	≤ 0.018 ²⁾							
Temperature Effect			see separate Load Cell data sheet								
OIML / European Approval ⁴⁾	Class		-	C3					C3		
	nmax		-	3000					3000		
	Vmin	kg (lb)	-	0.032 (0.070)	0.079 (0.175)	0.159 (0.35)	0.317 (0.70)	0.635 (1.40)	1.5 (3.3)	2.3 (5.0)	3.4 (7.5)
NTEP Approval ⁴⁾	Class		-	III M					III M		
	nmax		-	5000					5000		
	Vmin	kg (lb)	-	0.032 (0.070)	0.079 (0.175)	0.159 (0.35)	0.317 (0.70)	0.635 (1.40)	1.3 (2.8)	1.9 (4.2)	2.9 (6.4)
ATEX Approval ⁴⁾	Rating		-	II 2 GD EEx ia IIC T4 T175°C							
		-	II 3 GD EEx nL IIC T4 T135°C								
		-	II 3 GD EEx nA T4 T135°C IP65								
Factory Mutual Approval ⁴⁾	Rating		IS / I,II,III / 1 / ABCDEFG /T4								
			NI / I / 2 / ABCD / T6								
			S / II,III / 2 / FG / T6								
Excitation Voltage	Recommended	V AC/DC	5 ~ 15								
	Max.	V AC/DC	20								
Terminal Resistance	Excitation	Ω	≥ 385						380 ± 20		2200 ± 100
	Output	Ω	350 ± 2						350 ± 2		2000 ± 20
Material	Spring Element		Stainless steel								
Protection	Type		Potted	welded							
	IP Rating		IP67	IP 68							
	NEMA Rating		NEMA 6/6P								
Load Limit	Safe	%R.C.	150								
	Ultimate	%R.C.	300								

¹⁾ Error due to the combined effect of non-linearity and hysteresis

²⁾ Typical values only. The sum of errors due to Combined Error and Temperature Effect on Sensitivity comply with the requirements of OIML R60 and NIST HB44.

³⁾ A.L. = Applied Load

⁴⁾ See certificate for complete information.

⁵⁾ % of Applied Load (A.L.) per mm (in) displacement of the top plate (transverse & longitudinal).

⁶⁾ Maximum horizontal force that can be applied to top plate in a direction transverse to the longitudinal axis of the load cell. Applies only to Fixed Pin module and Semi Float module assembled in standard (radial mounting) position.

⁷⁾ Maximum horizontal force that can be applied to top plate in a direction parallel to the longitudinal axis of the load cell. Applies only to Fixed Pin module and Semi Float module assembled in non-standard (tangential mounting) position.

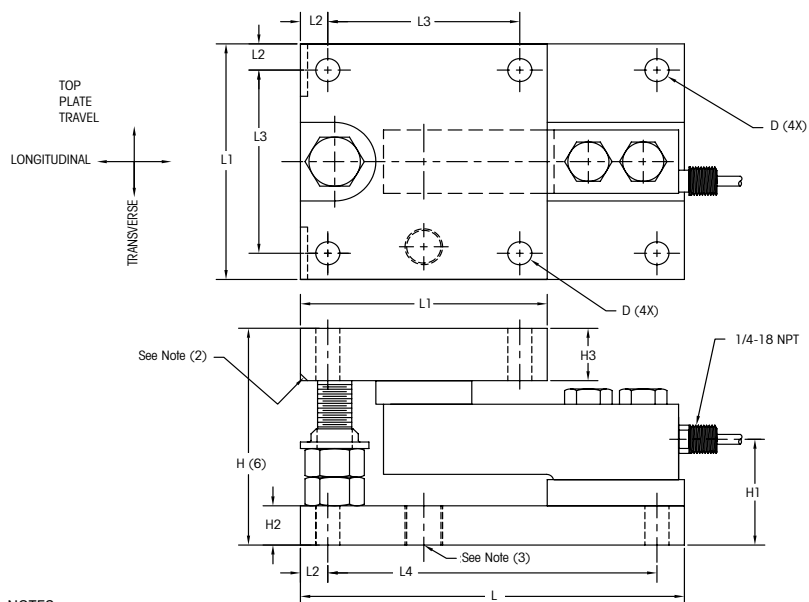
⁸⁾ Maximum vertical uplift force that can be applied to the top plate.

⁹⁾ Maximum vertical downward force that can be applied to the top plate.

¹⁰⁾ See drawing for more detail.



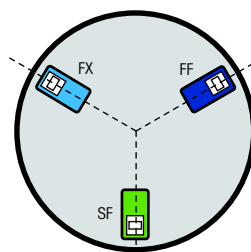
0958 Flexmount Dimensional Drawings mm [inch]



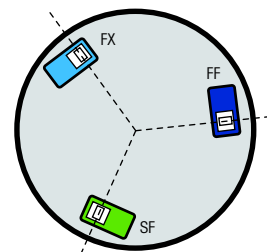
NOTES:

- ¹⁾ Dimensions are in mm [inches]
- ²⁾ Mount identification (SEMI-FLOAT shown):
 FULL-FLOAT: has no chamfer
 SEMI-FLOAT: has two 25-mm [1] chamfers
 FIXED-PIN: has chamfer all the way across
- ³⁾ WM's are shipped as drawn. This alternate location for hold-down screw allows top plates to be rotated 90 DEG for tangential mounting.
- ⁴⁾ Does not apply to fixed-pin module, which prevents top plate travel in both directions.
- ⁵⁾ Semi-float module allows travel in one direction only – longitudinal direction as shipped. Its top plate may be rotated 90 DEG to provide transverse travel instead.
- ⁶⁾ Shipping (jacked) height is 1.5 [0.06] higher for 110-4400kg [250-10,000lb] and 3.0 [0.12] higher for 9072-20412kg [20,000-45,000lb].

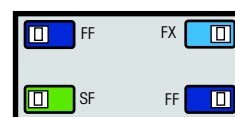
Mounting Arrangements



RADIAL MOUNTING



TANGENTIAL MOUNTING



RECTANGULAR MOUNTING

FX = Fixed
 SF = Semi Float
 FF = Full Float

Capacity	D	H ⁶⁾	H1	H2	H3	L	L1	L2	L3	L4
110 - 1100kg [250 - 2500lb]	11.2 [0.44]	104.4 [4.11]	47.7 [1.88]	19.0 [0.75]	25.4 [1.00]	177.8 [7.00]	114.3 [4.50]	12.7 [0.50]	88.9 [3.50]	152.4 [6.00]
2200kg [5000lb]	11.2 [0.44]	105.2 [4.14]	51.3 [2.02]	19.0 [0.75]	25.4 [1.00]	177.8 [7.00]	114.3 [4.5]	12.7 [0.5]	88.9 [3.5]	152.4 [6.00]
4400kg [10000lb]	17.5 [0.69]	136.6 [5.38]	67.1 [2.64]	25.4 [1.00]	31.8 [1.25]	235.4 [9.25]	152.4 [6.00]	25.4 [1.00]	101.6 [4.00]	184.1 [7.25]
9072 - 13608kg [20000 - 30000lb]	20.5 [0.81]	7.50 [190.5]	96.8 [3.81]	44.5 [1.75]	44.4 [1.75]	355.6 [14.00]	203.2 [8.00]	25.4 [1.00]	152.4 [6.00]	304.8 [12.00]
20412kg [45000lb]	28.5 [1.12]	228.6 [9.00]	114.3 [4.50]	50.8 [2.00]	50.8 [2.00]	406.4 [16.00]	228.6 [9.00]	31.8 [1.25]	165.1 [6.50]	342.9 [13.50]

Top Plate Travel ⁴⁾

Capacity	Full-Float		Semi-Float ⁵⁾	
	Longitudinal	Transverse	Longitudinal	Transverse
110 - 1100kg [250 - 2500lb]	+/- 3.0 [+/- 0.12]	+/- 3.0 [+/- 0.12]	+/- 3.0 [+/- 0.12]	0 [0]
2200kg [5000lb]	+/- 3.0 [+/- 0.12]	+/- 3.0 [+/- 0.12]	+/- 3.0 [+/- 0.12]	0 [0]
4400kg [10000lb]	+/- 4.6 [+/- 0.18]	+/- 4.6 [+/- 0.18]	+/- 4.6 [+/- 0.18]	0 [0]
9072 - 13608kg [20000 - 30000lb]	+/- 6.4 [+/- 0.25]	+/- 6.4 [+/- 0.25]	+/- 6.4 [+/- 0.25]	0 [0]
20412kg [45000lb]	+/- 6.4 [+/- 0.25]	+/- 6.4 [+/- 0.25]	+/- 6.4 [+/- 0.25]	0 [0]