

ITCM

Isolated Tension Cell Modules



Available in configurations with three or four mounting assemblies.
Picture is a representation of actual product.

The ITCM Series utilizes several Rice Lake Weighing Systems components to provide an unmatched level of performance in tank and hopper weighing applications and mechanical scale conversions. The ITCM incorporates clevis and unique rod-end ball joint assemblies to reduce the overall length to less than half of the traditional tension cell mounts, while providing correct load alignment. In addition, the load cell is completely electrically isolated from stray currents, which are a major cause of load cell failure. To complete the design, a grounding strap connects the two clevis assemblies to further provide safety to your load cells.



Module with RL20000 s-beam load cell.

Important: Read "Load Cell Mounting Hardware Safety Guidelines"

Complete Kit Includes

- Three or four ITCM assemblies with RL20000 NTEP Certified s-beam load cells
- One JB4SS NEMA Type 4X stainless steel signal trim junction box
- 25 ft of our hostile environment EL147HE SURVIVOR® load cell cable

Standard Features

- Capacities (per module): 100-20,000 lb (45.4-9,071.1 kg)
- Clevis mounts with nylon insulating washers
- PTFE-lined rod-end ball joints
- Load cell is completely isolated from stray currents*
- Grounding strap provides alternative path to ground
- Complete package for ease of installation
- Provides correct load cell loading even in difficult installations
- Lower overall height compared to other isolated tension assemblies
- Zinc-plated clevis assemblies
- Excluding 20,000 lb (9071.9 kg) capacity

Applications

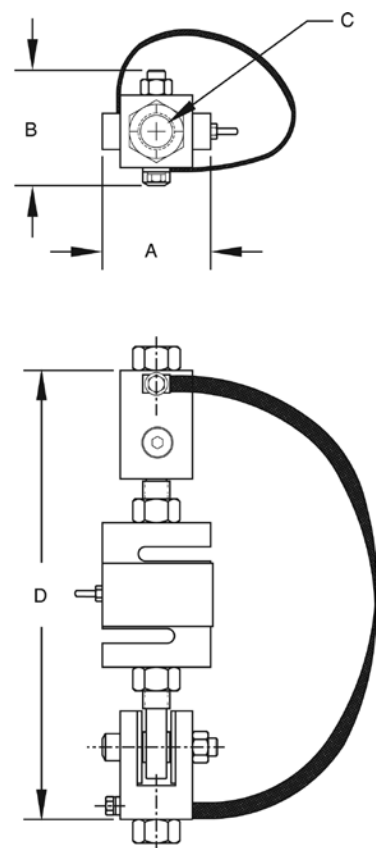
- Suspended hoppers and tanks
- Mechanical scale conversions
- Use as a single module or in multiples

Load Cell Certifications

Load Rating Dimensions - Inches (mm)*

Load Cell Capacity lb/in	A	B	C	D
100	2.00	1.81	3/8-16 UNC 1/2-13 UNC	7.00 (ref)
150	2.00	1.81	3/8-16 UNC 1/2-13 UNC	7.00 (ref)
200	2.00	1.81	3/8-16 UNC 1/2-13 UNC	7.00 (ref)
250	2.00	1.81	3/8-16 UNC 1/2-13 UNC	7.00 (ref)
500	2.68	2.68	1/2-13 UNC 5/8-11 UNC 3/4-10 UNC	9.50 (ref)
750	2.68	2.68	1/2-13 UNC 5/8-11 UNC 3/4-10 UNC	9.50 (ref)
1,000	2.68	2.68	1/2-13 UNC 5/8-11 UNC 3/4-10 UNC	9.50 (ref)
1,500	2.68	2.68	1/2-13 UNC 5/8-11 UNC 3/4-10 UNC	9.50 (ref)
2,000	2.68	2.68	1/2-13 UNC 5/8-11 UNC 3/4-10 UNC	9.50 (ref)
2,500	2.68	2.68	5/8-11 UNC 3/4-10 UNC	9.50 (ref)
3,000	3.37	3.37	3/4-10 UNC	10.50 (ref)
5,000	3.37	3.37	3/4-10 UNC 1-8 UNC	12.25 (ref)
10,000	3.37	3.37	1-8 UNC	12.25 (ref)
15,000	4.00	4.12	1 1/4-7 UNC	18.00 (ref)
20,000	5.00	4.12	1 1/2-6 UNC	20.00 (ref)
kg/mm				
45.4	50.8	46.0	3/8-16 UNC 1/2-13 UNC	177.8
68.0	50.8	46.0	3/8-16 UNC 1/2-13 UNC	177.8
90.7	50.8	46.0	3/8-16 UNC 1/2-13 UNC	177.8
113.4	50.8	46.0	3/8-16 UNC 1/2-13 UNC	177.8
226.8	68.1	68.1	1/2-13 UNC 5/8-11 UNC 3/4-10 UNC	241.3
340.2	68.1	68.1	1/2-13 UNC 5/8-11 UNC 3/4-10 UNC	241.3
453.6	68.1	68.1	1/2-13 UNC 5/8-11 UNC 3/4-10 UNC	241.3
680.4	68.1	68.1	1/2-13 UNC 5/8-11 UNC 3/4-10 UNC	241.3
907.2	68.1	68.1	1/2-13 UNC 5/8-11 UNC 3/4-10 UNC	241.3
1,134.0	68.1	68.1	5/8-11 UNC 3/4-10 UNC	241.3
1,360.8	85.6	85.6	3/4-10 UNC	266.7
2,268.0	85.6	85.6	3/4-10 UNC 1-8 UNC	311.2
4,535.9	85.6	85.6	1-8 UNC	311.2
6,803.9	101.6	104.6	1 1/4-7 UNC	457.2
9,071.9	127.0	104.6	1 1/2-6 UNC	508.0

* Load rating is per module



Order Information

Single Module		Part # (C)	Price
100 lb	45.4 kg	17851 (3/8-16 UNC) 17831 (1/2-13 UNC)	Consult Consult
150 lb	68.0 kg	30337 (3/8-16 UNC) 30336 (1/2-13 UNC)	Consult Consult
200 lb	90.7 kg	30335 (3/8-16 UNC) 30338 (1/2-13 UNC)	Consult Consult
250 lb	113.4 kg	17852 (3/8-16 UNC) 17832 (1/2-13 UNC)	Consult Consult
500 lb	226.8 kg	17853 (1/2-13 UNC) 17858 (5/8-11 UNC) 17833 (3/4-10 UNC)	Consult Consult Consult
750 lb	340.2 kg	17854 (1/2-13 UNC) 17859 (5/8-11 UNC) 17834 (3/4-10 UNC)	Consult Consult Consult
1,000 lb	453.6 kg	17855 (1/2-13 UNC) 17860 (5/8-11 UNC) 17835 (3/4-10 UNC)	Consult Consult Consult
1,500 lb	680.4 kg	17856 (1/2-13 UNC) 17861 (5/8-11 UNC) 17836 (3/4-10 UNC)	Consult Consult Consult
2,000 lb	907.2 kg	17857 (1/2-13 UNC) 17862 (5/8-11 UNC) 17837 (3/4-10 UNC)	Consult Consult Consult
2,500 lb	1,134.0 kg	17863 (5/8-11 UNC) 17838 (3/4-10 UNC)	Consult Consult
3,000 lb	1,360.8 kg	30339 (3/4-10 UNC)	Consult
5,000 lb	2,268.0 kg	17864 (3/4-10 UNC) 17839 (1-8 UNC)	Consult Consult
10,000 lb	4,535.9 kg	17840 (1-8 UNC)	Consult
15,000 lb	6,803.9 kg	17960 (1 1/4-7 UNC)	Consult
20,000 lb	9,071.9 kg	17961 (1 1/2-6 UNC)	Consult
3-Module Kit		Part # (C)	Price
100 lb	45.4 kg	18003 (3/8-16 UNC) 18004 (1/2-13 UNC)	Consult Consult
150 lb	68.0 kg	30357 (3/8-16 UNC) 30358 (1/2-13 UNC)	Consult Consult
200 lb	90.7 kg	30361 (3/8-16 UNC) 30362 (1/2-13 UNC)	Consult Consult
250 lb	113.4 kg	18005 (3/8-16 UNC) 18006 (1/2-13 UNC)	Consult Consult
500 lb	226.8 kg	18007 (1/2-13 UNC) 18008 (5/8-11 UNC) 18009 (3/4-10 UNC)	Consult Consult Consult
750 lb	340.2 kg	18010 (1/2-13 UNC) 18011 (5/8-11 UNC) 18012 (3/4-10 UNC)	Consult Consult Consult
1,000 lb	453.6 kg	18013 (1/2-13 UNC) 18014 (5/8-11 UNC) 18015 (3/4-10 UNC)	Consult Consult Consult
1,500 lb	680.4 kg	18016 (1/2-13 UNC) 18017 (5/8-11 UNC) 18018 (3/4-10 UNC)	Consult Consult Consult
2,000 lb	907.2 kg	18019 (1/2-13 UNC) 18020 (5/8-11 UNC) 18021 (3/4-10 UNC)	Consult Consult Consult
2,500 lb	1,134.0 kg	18022 (5/8-11 UNC) 18023 (3/4-10 UNC)	Consult Consult
3,000 lb	1,360.8 kg	30365 (3/4-10 UNC)	Consult
5,000 lb	2,268.0 kg	18024 (3/4-10 UNC) 18025 (1-8 UNC)	Consult Consult
10,000 lb	4,535.9 kg	18026 (1-8 UNC)	Consult
15,000 lb	6,803.9 kg	30353 (1 1/4-7 UNC)	Consult
20,000 lb	9,071.9 kg	30355 (1 1/2-6 UNC)	Consult

4-Module Kit		Part # (C)	Price
100 lb	45.4 kg	18027 (3/8-16 UNC) 18028 (1/2-13 UNC)	Consult Consult
150 lb	68.0 kg	30359 (3/8-16 UNC) 30360 (1/2-13 UNC)	Consult Consult
200 lb	90.7 kg	30363 (3/8-16 UNC) 30364 (1/2-13 UNC)	Consult Consult
250 lb	113.4 kg	18029 (3/8-16 UNC) 18030 (1/2-13 UNC)	Consult Consult
500 lb	226.8 kg	18031 (1/2-13 UNC) 18032 (5/8-11 UNC) 18033 (3/4-10 UNC)	Consult Consult Consult
750 lb	340.2 kg	18034 (1/2-13 UNC) 18035 (5/8-11 UNC) 18036 (3/4-10 UNC)	Consult Consult Consult
1,000 lb	453.6 kg	18037 (1/2-13 UNC) 18038 (5/8-11 UNC) 18039 (3/4-10 UNC)	Consult Consult Consult
1,500 lb	680.4 kg	18040 (1/2-13 UNC) 18041 (5/8-11 UNC) 18042 (3/4-10 UNC)	Consult Consult Consult
2,000 lb	907.2 kg	18043 (1/2-13 UNC) 18044 (5/8-11 UNC) 18045 (3/4-10 UNC)	Consult Consult Consult
2,500 lb	1,134.0 kg	18046 (5/8-11 UNC) 18047 (3/4-10 UNC)	Consult Consult
3,000 lb	1,360.8 kg	30366 (3/4-10 UNC)	Consult
5,000 lb	2,268.0 kg	18048 (3/4-10 UNC) 18049 (1-8 UNC)	Consult Consult
10,000 lb	4,535.9 kg	18050 (1-8 UNC)	Consult
15,000 lb	6,803.9 kg	30354 (1 1/4-7 UNC)	Consult
20,000 lb	9,071.9 kg	30356 (1 1/2-6 UNC)	Consult