

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. Refer to page 112 for load cell specifications.
Important: Read "Load Cell Mounting Hardware Safety Guidelines" on page 356



STANDARD FEATURES

- Capacities (per module): 100-20,000 lb (45.4-9071.1 kg)
 - Clevis mounts with nylon insulating washers
 - Teflon®-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

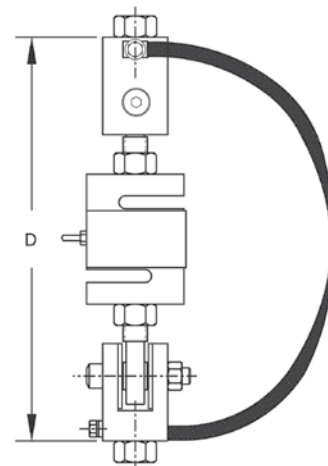
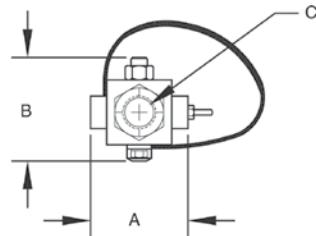
COMPLETE KIT INCLUDES

- 3 or 4 ITCM assemblies with RL20000 NTEP Certified S-Beam load cells (see page 112)
- 1 JB4SS NEMA 4X stainless steel signal trim junction box
- 25' of our Hostile Environment EL147HE SURVIVOR® load cell cable

LOAD CELL CERTIFICATIONS



NOTE: Check with your local weights & measure officials for suitability in Legal-For-Trade applications.



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***LOAD RATING DIMENSIONS - INCHES (MM)**

LOAD CELL CAPACITY		A		B		C		D	
100 lb	(45.4 kg)	2.00	(50.8)	1.81	(46.0)	3/8-16 NC	7.00 (ref)	(177.8)	
100 lb	(45.4 kg)	2.00	(50.8)	1.81	(46.0)	1/2-13 NC	7.00 (ref)	(177.8)	
150 lb	(68.0 kg)	2.00	(50.8)	1.81	(46.0)	3/8-16 NC	7.00 (ref)	(177.8)	
150 lb	(68.0 kg)	2.00	(50.8)	1.81	(46.0)	1/2-13 NC	7.00 (ref)	(177.8)	
200 lb	(90.7 kg)	2.00	(50.8)	1.81	(46.0)	3/8-16 NC	7.00 (ref)	(177.8)	
200 lb	(90.7 kg)	2.00	(50.8)	1.81	(46.0)	1/2-13 NC	7.00 (ref)	(177.8)	
250 lb	(113.4 kg)	2.00	(50.8)	1.81	(46.0)	3/8-16 NC	7.00 (ref)	(177.8)	
250 lb	(113.4 kg)	2.00	(50.8)	1.81	(46.0)	1/2-13 NC	7.00 (ref)	(177.8)	
500 lb	(226.8 kg)	2.68	(68.1)	2.68	(68.1)	1/2-13 NC	9.50 (ref)	(241.3)	
500 lb	(226.8 kg)	2.68	(68.1)	2.68	(68.1)	5/8-11 NC	9.50 (ref)	(241.3)	
500 lb	(226.8 kg)	2.68	(68.1)	2.68	(68.1)	3/4-10 NC	9.50 (ref)	(241.3)	
750 lb	(340.2 kg)	2.68	(68.1)	2.68	(68.1)	1/2-13 NC	9.50 (ref)	(241.3)	
750 lb	(340.2 kg)	2.68	(68.1)	2.68	(68.1)	5/8-11 NC	9.50 (ref)	(241.3)	
750 lb	(340.2 kg)	2.68	(68.1)	2.68	(68.1)	3/4-10 NC	9.50 (ref)	(241.3)	
1000 lb	(453.6 kg)	2.68	(68.1)	2.68	(68.1)	1/2-13 NC	9.50 (ref)	(241.3)	
1000 lb	(453.6 kg)	2.68	(68.1)	2.68	(68.1)	5/8-11 NC	9.50 (ref)	(241.3)	
1000 lb	(453.6 kg)	2.68	(68.1)	2.68	(68.1)	3/4-10 NC	9.50 (ref)	(241.3)	
1500 lb	(680.4 kg)	2.68	(68.1)	2.68	(68.1)	1/2-13 NC	9.50 (ref)	(241.3)	
1500 lb	(680.4 kg)	2.68	(68.1)	2.68	(68.1)	5/8-11 NC	9.50 (ref)	(241.3)	
1500 lb	(680.4 kg)	2.68	(68.1)	2.68	(68.1)	3/4-10 NC	9.50 (ref)	(241.3)	
2000 lb	(907.2 kg)	2.68	(68.1)	2.68	(68.1)	1/2-13 NC	9.50 (ref)	(241.3)	
2000 lb	(907.2 kg)	2.68	(68.1)	2.68	(68.1)	5/8-11 NC	9.50 (ref)	(241.3)	
2000 lb	(907.2 kg)	2.68	(68.1)	2.68	(68.1)	3/4-10 NC	9.50 (ref)	(241.3)	
2500 lb	(1134.0 kg)	2.68	(68.1)	2.68	(68.1)	5/8-11 NC	9.50 (ref)	(241.3)	
2500 lb	(1134.0 kg)	2.68	(68.1)	2.68	(68.1)	3/4-10 NC	9.50 (ref)	(241.3)	
3000 lb	(1360.8 kg)	3.37	(85.6)	3.37	(85.6)	3/4-10 NC	10.50 (ref)	(266.7)	
5000 lb	(2268.0 kg)	3.37	(85.6)	3.37	(85.6)	3/4-10 NC	12.25 (ref)	(311.2)	
5000 lb	(2268.0 kg)	3.37	(85.6)	3.37	(85.6)	1-8 NC	12.25 (ref)	(311.2)	
10,000 lb	(4535.9 kg)	3.37	(85.6)	3.37	(85.6)	1-8 NC	12.25 (ref)	(311.2)	
15,000 lb	(6803.9 kg)	4.00	(101.6)	4.12	(104.6)	1 1/4-7 NC	18.00 (ref)	(457.2)	
20,000 lb	(9071.9 kg)	5.00	(127.0)	4.12	(104.6)	1 1/2-6 UNC	20.00 (ref)	(508.0)	

* Load Rating is per module

ORDER INFORMATION

SINGLE MODULE		3-MODULE KIT		4-MODULE KIT	
Part #	Price	Part #	Price	Part #	Price
17851	Consult	18003	Consult	18027	Consult
17831	Consult	18004	Consult	18028	Consult
30337	Consult	30357	Consult	30359	Consult
30336	Consult	30358	Consult	30360	Consult
30335	Consult	30361	Consult	30363	Consult
30338	Consult	30362	Consult	30364	Consult
17852	Consult	18005	Consult	18029	Consult
17832	Consult	18006	Consult	18030	Consult
17853	Consult	18007	Consult	18031	Consult
17858	Consult	18008	Consult	18032	Consult
17833	Consult	18009	Consult	18033	Consult
17854	Consult	18010	Consult	18034	Consult
17859	Consult	18011	Consult	18035	Consult
17834	Consult	18012	Consult	18036	Consult
17855	Consult	18013	Consult	18037	Consult
17860	Consult	18014	Consult	18038	Consult
17835	Consult	18015	Consult	18039	Consult

ORDER INFORMATION

SINGLE MODULE		3-MODULE KIT		4-MODULE KIT	
Part #	Price	Part #	Price	Part #	Price
17856	Consult	18016	Consult	18040	Consult
17861	Consult	18017	Consult	18041	Consult
17836	Consult	18018	Consult	18042	Consult
17857	Consult	18019	Consult	18043	Consult
17862	Consult	18020	Consult	18044	Consult
17837	Consult	18021	Consult	18045	Consult
17863	Consult	18022	Consult	18046	Consult
17838	Consult	18023	Consult	18047	Consult
30339	Consult	30365	Consult	30366	Consult
17864	Consult	18024	Consult	18048	Consult
17839	Consult	18025	Consult	18049	Consult
17840	Consult	18026	Consult	18050	Consult
17960	Consult	30353	Consult	30354	Consult
17961	Consult	30355	Consult	30356	Consult

WEIGH MODULES