

**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 115 for load cell specifications.


**STANDARD FEATURES**

- Capacities (per module): 100-20,000 lb (45.4-9071.1 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**

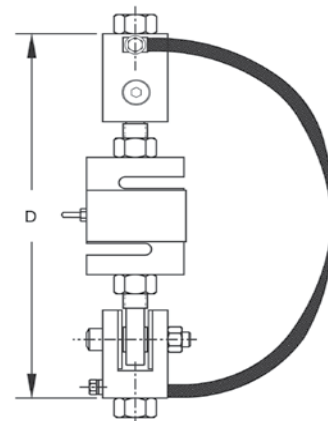
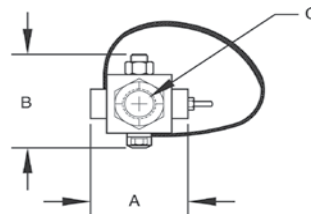
- Suspended hoppers and tanks
- Mechanical scale conversions
- Use as a single module or in multiples

**COMPLETE KIT INCLUDES**

- 3 or 4 ITCM assemblies with RL20000 NTEP Certified S-Beam load cells (see page 115)
- 1 JB4SS NEMA 4X stainless steel signal trim junction box
- 25 ft 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) ORDER INFORMATION**

LOAD CELL CAPACITY		A		B		C		D		SINGLE MODULE		3-MODULE KIT		4-MODULE KIT	
										Part #	Price	Part #	Price	Part #	Price
100 lb	(45.4 kg)	2.00	(50.8)	1.81	(46.0)	3/8-16 NC	7.00 (ref)	(177.8)		17851	Consult	18003	Consult	18027	Consult
100 lb	(45.4 kg)	2.00	(50.8)	1.81	(46.0)	1/2-13 NC	7.00 (ref)	(177.8)		17831	Consult	18004	Consult	18028	Consult
150 lb	(68.0 kg)	2.00	(50.8)	1.81	(46.0)	3/8-16 NC	7.00 (ref)	(177.8)		30337	Consult	30357	Consult	30359	Consult
150 lb	(68.0 kg)	2.00	(50.8)	1.81	(46.0)	1/2-13 NC	7.00 (ref)	(177.8)		30336	Consult	30358	Consult	30360	Consult
200 lb	(90.7 kg)	2.00	(50.8)	1.81	(46.0)	3/8-16 NC	7.00 (ref)	(177.8)		30335	Consult	30361	Consult	30363	Consult
200 lb	(90.7 kg)	2.00	(50.8)	1.81	(46.0)	1/2-13 NC	7.00 (ref)	(177.8)		30338	Consult	30362	Consult	30364	Consult
250 lb	(113.4 kg)	2.00	(50.8)	1.81	(46.0)	3/8-16 NC	7.00 (ref)	(177.8)		17852	Consult	18005	Consult	18029	Consult
250 lb	(113.4 kg)	2.00	(50.8)	1.81	(46.0)	1/2-13 NC	7.00 (ref)	(177.8)		17832	Consult	18006	Consult	18030	Consult
500 lb	(226.8 kg)	2.68	(68.1)	2.68	(68.1)	1/2-13 NC	9.50 (ref)	(241.3)		17853	Consult	18007	Consult	18031	Consult
500 lb	(226.8 kg)	2.68	(68.1)	2.68	(68.1)	5/8-11 NC	9.50 (ref)	(241.3)		17858	Consult	18008	Consult	18032	Consult
500 lb	(226.8 kg)	2.68	(68.1)	2.68	(68.1)	3/4-10 NC	9.50 (ref)	(241.3)		17833	Consult	18009	Consult	18033	Consult
750 lb	(340.2 kg)	2.68	(68.1)	2.68	(68.1)	1/2-13 NC	9.50 (ref)	(241.3)		17854	Consult	18010	Consult	18034	Consult
750 lb	(340.2 kg)	2.68	(68.1)	2.68	(68.1)	5/8-11 NC	9.50 (ref)	(241.3)		17859	Consult	18011	Consult	18035	Consult
750 lb	(340.2 kg)	2.68	(68.1)	2.68	(68.1)	3/4-10 NC	9.50 (ref)	(241.3)		17834	Consult	18012	Consult	18036	Consult
1000 lb	(453.6 kg)	2.68	(68.1)	2.68	(68.1)	1/2-13 NC	9.50 (ref)	(241.3)		17855	Consult	18013	Consult	18037	Consult
1000 lb	(453.6 kg)	2.68	(68.1)	2.68	(68.1)	5/8-11 NC	9.50 (ref)	(241.3)		17860	Consult	18014	Consult	18038	Consult
1000 lb	(453.6 kg)	2.68	(68.1)	2.68	(68.1)	3/4-10 NC	9.50 (ref)	(241.3)		17835	Consult	18015	Consult	18039	Consult
1500 lb	(680.4 kg)	2.68	(68.1)	2.68	(68.1)	1/2-13 NC	9.50 (ref)	(241.3)		17856	Consult	18016	Consult	18040	Consult
1500 lb	(680.4 kg)	2.68	(68.1)	2.68	(68.1)	5/8-11 NC	9.50 (ref)	(241.3)		17861	Consult	18017	Consult	18041	Consult
1500 lb	(680.4 kg)	2.68	(68.1)	2.68	(68.1)	3/4-10 NC	9.50 (ref)	(241.3)		17836	Consult	18018	Consult	18042	Consult
2000 lb	(907.2 kg)	2.68	(68.1)	2.68	(68.1)	1/2-13 NC	9.50 (ref)	(241.3)		17857	Consult	18019	Consult	18043	Consult
2000 lb	(907.2 kg)	2.68	(68.1)	2.68	(68.1)	5/8-11 NC	9.50 (ref)	(241.3)		17862	Consult	18020	Consult	18044	Consult
2000 lb	(907.2 kg)	2.68	(68.1)	2.68	(68.1)	3/4-10 NC	9.50 (ref)	(241.3)		17837	Consult	18021	Consult	18045	Consult
2500 lb	(1134.0 kg)	2.68	(68.1)	2.68	(68.1)	5/8-11 NC	9.50 (ref)	(241.3)		17863	Consult	18022	Consult	18046	Consult
2500 lb	(1134.0 kg)	2.68	(68.1)	2.68	(68.1)	3/4-10 NC	9.50 (ref)	(241.3)		17838	Consult	18023	Consult	18047	Consult
3000 lb	(1360.8 kg)	3.37	(85.6)	3.37	(85.6)	3/4-10 NC	10.50 (ref)	(266.7)		30339	Consult	30365	Consult	30366	Consult
5000 lb	(2268.0 kg)	3.37	(85.6)	3.37	(85.6)	3/4-10 NC	12.25 (ref)	(311.2)		17864	Consult	18024	Consult	18048	Consult
5000 lb	(2268.0 kg)	3.37	(85.6)	3.37	(85.6)	1-8 NC	12.25 (ref)	(311.2)		17839	Consult	18025	Consult	18049	Consult
10,000 lb	(4535.9 kg)	3.37	(85.6)	3.37	(85.6)	1-8 NC	12.25 (ref)	(311.2)		17840	Consult	18026	Consult	18050	Consult
15,000 lb	(6803.9 kg)	4.00	(101.6)	4.12	(104.6)	1 1/4-7 NC	18.00 (ref)	(457.2)		17960	Consult	30353	Consult	30354	Consult
20,000 lb	(9071.9 kg)	5.00	(127.0)	4.12	(104.6)	1 1/2-6 UNC	20.00 (ref)	(508.0)		17961	Consult	30355	Consult	30356	Consult

\* Load Rating is per module

WEIGH MODULES

