

# ITCM

## Isolated Tension Cell Modules

### Standard Features

- Capacities (per module): 100 lb-20,000 lb (45.4 kg-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 (9,071.9 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
- 1 JB4SS NEMA Type 4X stainless steel signal trim junction box
- 25ft of our hostile environment EL147HE SURVIVOR® load cell cable

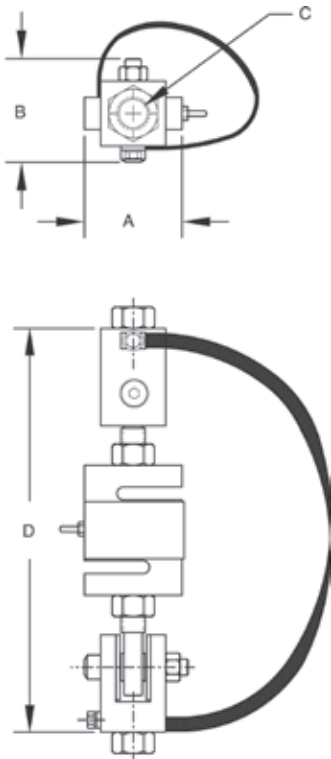
### Load Cell Certifications



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"

## 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	\$475.00	18003	\$1,650.00	18027	\$2,125.00	
100 lb	(45.4 kg)	2.00	(50.8)	1.81	(46.0)	1/2-13 NC	7.00 (ref)	(177.8)	17831	475.00	18004	1,650.00	18028	2,125.00	
150 lb	(68.0 kg)	2.00	(50.8)	1.81	(46.0)	3/8-16 NC	7.00 (ref)	(177.8)	30337	475.00	30357	1,650.00	30359	2,125.00	
150 lb	(68.0 kg)	2.00	(50.8)	1.81	(46.0)	1/2-13 NC	7.00 (ref)	(177.8)	30336	475.00	30358	1,650.00	30360	2,125.00	
200 lb	(90.7 kg)	2.00	(50.8)	1.81	(46.0)	3/8-16 NC	7.00 (ref)	(177.8)	30335	475.00	30361	1,650.00	30363	2,125.00	
200 lb	(90.7 kg)	2.00	(50.8)	1.81	(46.0)	1/2-13 NC	7.00 (ref)	(177.8)	30338	475.00	30362	1,650.00	30364	2,125.00	
250 lb	(113.4 kg)	2.00	(50.8)	1.81	(46.0)	3/8-16 NC	7.00 (ref)	(177.8)	17852	475.00	18005	1,650.00	18029	2,125.00	
250 lb	(113.4 kg)	2.00	(50.8)	1.81	(46.0)	1/2-13 NC	7.00 (ref)	(177.8)	17832	475.00	18006	1,650.00	18030	2,125.00	
500 lb	(226.8 kg)	2.68	(68.1)	2.68	(68.1)	1/2-13 NC	9.50 (ref)	(241.3)	17853	525.00	18007	1,775.00	18031	2,295.00	
500 lb	(226.8 kg)	2.68	(68.1)	2.68	(68.1)	5/8-11 NC	9.50 (ref)	(241.3)	17858	525.00	18008	1,775.00	18032	2,295.00	
500 lb	(226.8 kg)	2.68	(68.1)	2.68	(68.1)	3/4-10 NC	9.50 (ref)	(241.3)	17833	525.00	18009	1,775.00	18033	2,295.00	
750 lb	(340.2 kg)	2.68	(68.1)	2.68	(68.1)	1/2-13 NC	9.50 (ref)	(241.3)	17854	525.00	18010	1,775.00	18034	2,295.00	
750 lb	(340.2 kg)	2.68	(68.1)	2.68	(68.1)	5/8-11 NC	9.50 (ref)	(241.3)	17859	525.00	18011	1,775.00	18035	2,295.00	
750 lb	(340.2 kg)	2.68	(68.1)	2.68	(68.1)	3/4-10 NC	9.50 (ref)	(241.3)	17834	525.00	18012	1,775.00	18036	2,295.00	
1,000 lb	(453.6 kg)	2.68	(68.1)	2.68	(68.1)	1/2-13 NC	9.50 (ref)	(241.3)	17855	525.00	18013	1,775.00	18037	2,295.00	
1,000 lb	(453.6 kg)	2.68	(68.1)	2.68	(68.1)	5/8-11 NC	9.50 (ref)	(241.3)	17860	525.00	18014	1,775.00	18038	2,295.00	
1,000 lb	(453.6 kg)	2.68	(68.1)	2.68	(68.1)	3/4-10 NC	9.50 (ref)	(241.3)	17835	525.00	18015	1,775.00	18039	2,295.00	
1,500 lb	(680.4 kg)	2.68	(68.1)	2.68	(68.1)	1/2-13 NC	9.50 (ref)	(241.3)	17856	525.00	18016	1,775.00	18040	2,295.00	
1,500 lb	(680.4 kg)	2.68	(68.1)	2.68	(68.1)	5/8-11 NC	9.50 (ref)	(241.3)	17861	525.00	18017	1,775.00	18041	2,295.00	
1,500 lb	(680.4 kg)	2.68	(68.1)	2.68	(68.1)	3/4-10 NC	9.50 (ref)	(241.3)	17836	525.00	18018	1,775.00	18042	2,295.00	
2,000 lb	(907.2 kg)	2.68	(68.1)	2.68	(68.1)	1/2-13 NC	9.50 (ref)	(241.3)	17857	525.00	18019	1,775.00	18043	2,295.00	
2,000 lb	(907.2 kg)	2.68	(68.1)	2.68	(68.1)	5/8-11 NC	9.50 (ref)	(241.3)	17862	525.00	18020	1,775.00	18044	2,295.00	
2,000 lb	(907.2 kg)	2.68	(68.1)	2.68	(68.1)	3/4-10 NC	9.50 (ref)	(241.3)	17837	525.00	18021	1,775.00	18045	2,295.00	
2,500 lb	(1,134.0 kg)	2.68	(68.1)	2.68	(68.1)	5/8-11 NC	9.50 (ref)	(241.3)	17863	525.00	18022	1,775.00	18046	2,295.00	
2,500 lb	(1,134.0 kg)	2.68	(68.1)	2.68	(68.1)	3/4-10 NC	9.50 (ref)	(241.3)	17838	525.00	18023	1,775.00	18047	2,295.00	
3,000 lb	(1,360.8 kg)	3.37	(85.6)	3.37	(85.6)	3/4-10 NC	10.50 (ref)	(266.7)	30339	550.00	30365	1,885.00	30366	2,395.00	
5,000 lb	(2,268.0 kg)	3.37	(85.6)	3.37	(85.6)	1-8 NC	12.25 (ref)	(311.2)	17864	725.00	18024	2,375.00	18048	3,095.00	
5,000 lb	(2,268.0 kg)	3.37	(85.6)	3.37	(85.6)	1-8 NC	12.25 (ref)	(311.2)	17839	725.00	18025	2,375.00	18049	3,095.00	
10,000 lb	(4,535.9 kg)	3.37	(85.6)	3.37	(85.6)	1-8 NC	12.25 (ref)	(311.2)	17840	725.00	18026	2,375.00	18050	3,095.00	
15,000 lb	(6,803.9 kg)	4.00	(101.6)	4.12	(104.6)	1 1/4-7 NC	18.00 (ref)	(457.2)	17960	1,525.00	30353	4,795.00	30354	6,295.00	
20,000 lb	(9,071.9 kg)	5.00	(127.0)	4.12	(104.6)	1 1/2-6 UNC	20.00 (ref)	(508.0)	17961	1,800.00	30355	5,595.00	30356	7,395.00	

\*Load rating is per module