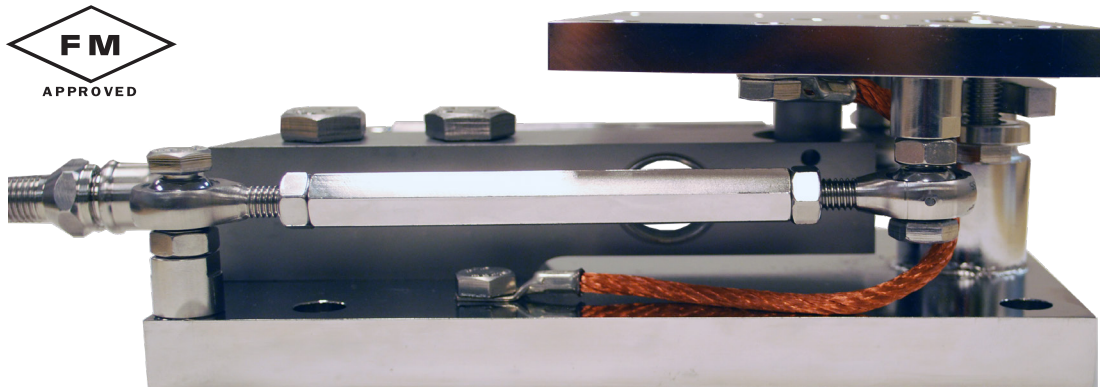


OneMount™ Advantage® Lite Shear Beam Load Points

OneMount HI ONELP Load Points with HI SB05 Shear Beam Sensors



Technology Partner

A ROCKWELL AUTOMATION PARTNER

The Hardy OneMount™ with Advantage® Lite shear beams are specifically built to save customers time and money during installation, calibration, and maintenance. Each load point provides extraordinary flexibility and durability in most industrial environments. Each feature of the load point was intentionally designed based on nearly 100 years of process weighing experience, delivering a best-in-class measurement system for tank, vessel, and hopper weighing applications.

Accuracy

- Self-centering rocker design maintains alignment under considerable shear forces
- Precision sensor (combined error 0.02% rated output) from 1,125 lbs – 22,500 lbs
- Optional Dynamic Stabilization Rods can be purchased to reduce vibration noise on the sensor for better resolution

Safety

- Liftoff and side force ratings are confirmed by third party destructive testing
- Potted sensors provide economical options for installations that only require IP67 ingress protection
- C2® electronic calibration reduces the risk of accidents or contamination from test weights

Easy Installation

- Integral spacers can carry the full rated capacity without the load cell installed, eliminating the need for expensive dummy load cells or welding fixtures.
- Once mounts are installed, the load cells slide into place. With minimal tank jacking (1/8"), the spacers are removed for a live load point.
- 360° checking mechanism means load points can be installed in any direction
- C2® electronic calibration for fast startup in high capacity installations

Easy Maintenance

- Replace load cells with minimal tank jacking (1/8").
- Matched mV/V/ohm load cells are easy to replace without recalibration

User Benefits

- OEE improvement from consistent, accurate performance, and reduced installation and maintenance time.
- Reduced capital investment and labor typically associated with dummy load cells and welding fixtures.
- Reduced complexity of system selection and installation from a single, universal design

All information and drawings on these pages are subject to change without notice. Consult website for latest specifications.

www.hardysolutions.com

HI SB05 ADVANTAGE® Load Sensor

SPECIFICATIONS	Units	HI SB05	HI SB05
Maximum Capacity (E _{max})	klbs	1.125k / 2.25k / 4.5k / 11.25 klbs	22.5 klbs
Max number verification intervals	n _{max}	3000	N/A
Min load cell verification interval	v _{min}	E _{max} / 11000	N/A
Combined Error	%RO	± 0.0200	± 0.0500
Non-Linearity	%RO	± 0.0166	± 0.0400
Hysteresis	%RO	± 0.0166	± 0.0400
Creep error (30 Minutes) / DR	%RO	± 0.0166	± 0.0600
Temperature effect on min dead load output	%RO/10°C	± 0.0127	± 0.0400
Temperature effect on sensitivity	%RO/10°C	± 0.0100	± 0.0200
Non-Repeatability	%RO	Not Specified	Not Specified
Rated Output (RO)	mV/V	2 ± 0.1%	2 ± 0.1%
Calibration in mV/V/Ω		Matched	Matched
Zero Balance	%RO	± 5	± 5
Excitation Voltage	V	5-15	5-15
Input Resistance	Ω	1100 ± 50	1100 ± 50
Output Resistance	Ω	1000 ± 2	1000 ± 2
Insulation resistance (100VDC)	MΩ	≥ 5000	≥ 5000
Load Cell Safe Load Limit	%E _{max}	200	200
Load Cell Ultimate Load Limit	%E _{max}	300	300
Load Cell Safe Side Load	%E _{max}	100	100
Maximum Platform Size	N/A	N/A	N/A
Compensated Temperature Range	°C	-10 ... ± 40	-10 ... ± 40
Operating Temperature Range	°C	-20 ... ± 65	-20 ... ± 65
Load Cell Material		Stainless Steel 17-4PH (1.4548)	Stainless Steel 17-4PH (1.4548)
Sealing		Potted	Potted
Protection according to EN 60 529		IP67	IP67
Cable Length	ft	20 ft	20 ft
Hazardous Certification		IS Class 1,2,3 Div 1	IS Class 1,2,3 Div 1
Legal For Trade		N/A	N/A

HI ONEMT OneMount™

SPECIFICATIONS	Units	HI ONEMT		
Capacity	lb	1125lb - 4500lb	11250lb	22500lb
Rated Liftoff Force	lb	2250	5625	11250
Rated Overload	lb	6750	16875	33750
Rated Side Force	lb	4500	11250	22500
Weight Excluding Load Cell	lb	9	24	43
Material	Metallurgy	304SS Electropolished / 304SS Stainless Steel / Zinc Plated Steel		
Levelling Required		0.4/100 (legal for trade), 0.8/100 (general applications)		

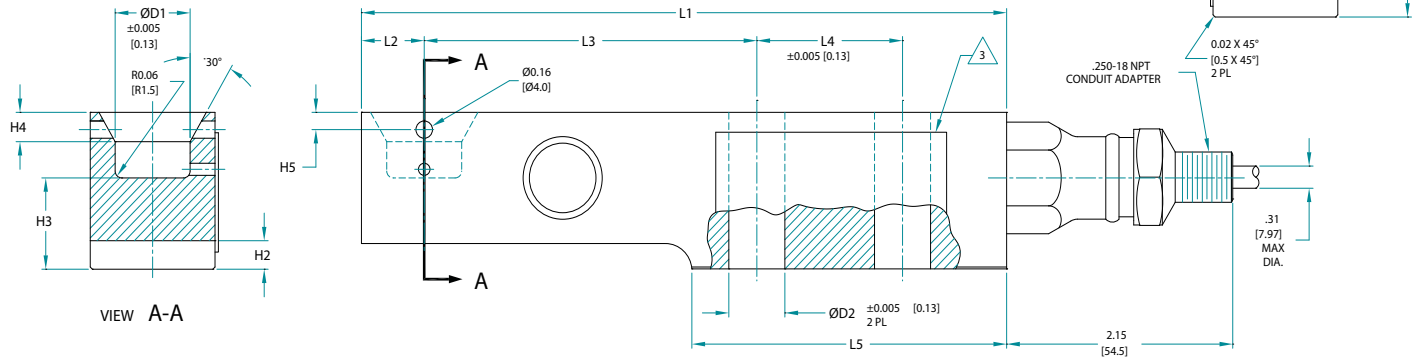
C2 WIRE COLOR CODE FLAG LABEL IS FOUND APPROX. 10 IN. FROM END OF SENSOR'S CABLE

EXCITATION +	RED
EXCITATION -	BLACK
SIGNAL +	GREEN
SIGNAL -	WHITE
C2 +	GRAY
C2 -	VIOLET
SHIELD	YELLOW

WARNING: NEVER cut a load sensor cable

DIMENSIONS- INCHES & [mm]

CAPACITY LBS [kN]	L1	L2	L3	L4	L5	L6	H1	H2	H3	H4	H5	H6	W1	ØD1	ØD2	BOLT 	TORQUE
1125 [5] 2.25K [10] 4.5K [20]	6.10 [155.0]	0.59 [15.0]	3.15 [80.0]	1.38 [35.0]	2.98 [75.7]	0.59 [15.0]	1.42 [36.0]	0.23 [5.8]	0.83 [21.0]	0.27 [6.9]	0.16 [4.1]	0.59 [15.0]	1.181±0.003 [30.0±0.08]	0.709 [18.0]	0.53 [13.5]	.500-20 UNC GRADE 5 [M12 8.8]	65 FT LBS [90Nm]
11.25K [50]	7.48 [190.0]	0.83 [21.0]	4.13 [105.0]	1.57 [40.0]	3.66 [93.0]	0.67 [17.0]	1.93 [49.0]	0.31 [8.0]	1.12 [28.5]	0.24 [6.0]	0.31 [8.0]	0.89 [22.5]	1.693±0.003 [43.0±0.08]	0.984 [25.0]	0.83 [21.0]	.750-10 UNC GRADE 5 [M20 8.8]	295 FT LBS [400Nm]
22.5K [100]	9.65 [245.0]	1.18 [30.0]	5.31 [135.0]	1.97 [50.0]	4.72 [120.0]	0.73 [18.5]	2.87 [73.0]	0.49 [12.5]	1.65 [42.0]	0.39 [10.0]	N/A	1.22 [31.0]	2.362±0.005 [60.0±0.13]	1.181 [30.0]	1.06 [27.0]	1.000-8 UNC GRADE 5 [M24 8.8]	515 FT LBS [700Nm]

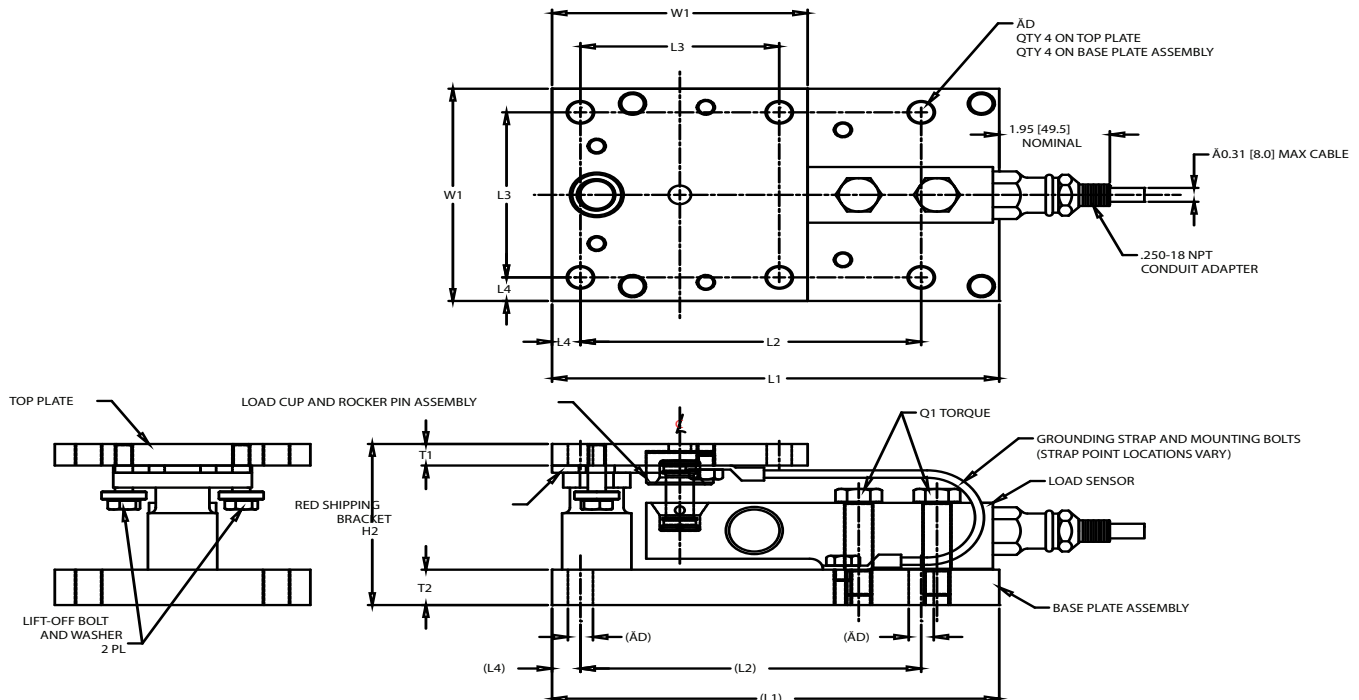


HI ONEMT Mounts

DIMENSIONS- INCHES & [mm]

TOLERANCES: ±0.015 [0.38] UNLESS OTHERWISE STATED

CAPACITY LBS [kN]	L1	L2	L3	L4	W1	T1	T2	H1	H2	ØD	MOUNT SCREW	WELD X	WELD Y	MAX LIFT- OFF FORCE	Q1 TORQUE LB-FT [NM]	Q2 TORQUE LB-FT [NM]
1125 LB [5kN]	7.87 [200.0]	6.000 [152.40]	3.500 [88.90]	0.50 [12.7]	4.50 [114.3]	0.46 [11.6]	0.75 [19.0]	3.42 [86.8]	3.51 [89.2]	0.441 [11.20]	3/8-16 OR M10 DIN 8.8	0.2 [5.0]	0.2 [5.0]	5.05 T [45kN]	66 LB-FT [90NM]	65 LB-FT [43NM]
2.25 KLB [10kN]																
4.5 KLB [20kN]																
11.25 KLB [50kN]	10.08 [256.0]	7.250 [184.15]	4.000 [101.60]	0.91 [23.2]	5.83 [148.0]	0.71 [18.0]	0.94 [24.0]	4.35 [110.6]	4.53 [115.0]	0.689 [17.50]	5/8-11 OR M16 DIN 8.8	0.2 [5.0]	0.2 [5.0]	8.43 T [75kN]	295 LB-FT [400NM]	133 LB-FT [180NM]
22.5 KLB [100kN]	13.98 [355.0]	10.630 [270.00]	5.118 [130.00]	0.94 [24.0]	7.01 [178.0]	0.94 [24.0]	1.14 [29.0]	6.06 [154.0]	6.20 [157.6]	0.866 [22.00]	3/4-10 OR M20 DIN 8.8	0.3 [8.0]	0.3 [8.0]	11.8 T [105kN]	516 LB-FT [700NM]	273 LB-FT [370NM]



OneMount™ and Advantage® Lite Shear Beam Ordering Information



Load Point Assembly (Stainless Steel IP67 Sensor and Stainless Steel Mount)					
Capacity Klbs	Capacity kN	Load Point Part #	Load Point Shipping Weight	Sensor Part #	Sensor Shipping Weight
1.125	5	HIONELP-1125-SS	12 lb	HISB05-1125	3.6 lb
2.25	10	HIONELP-2.25K-SS	12 lb	HISB05-2.25K	3.6 lb
4.5	20	HIONELP-4.5K-SS	12 lb	HISB05-4.5K	3.6 lb
11.25	50	HIONELP-11.25K-SS	30 lb	HISB05-11.25K	6.65 lb
22.5	100	HIONELP-22.5K-SS	60 lb	HISB05-22.5K	17 lb

Load Point Assembly (Stainless Steel IP67 Sensor and Alloy Steel Mount)					
Capacity Klbs	Capacity kN	Load Point Part #	Load Point Shipping Weight	Sensor Part #	Sensor Shipping Weight
1.125	5	HIONELP-1125-AS	12 lb	HISB05-1125	3.6 lb
2.25	10	HIONELP-2.25K-AS	12 lb	HISB05-2.25K	3.6 lb
4.5	20	HIONELP-4.5K-AS	12 lb	HISB05-4.5K	3.6 lb
11.25	50	HIONELP-11.25K-AS	30 lb	HISB05-11.25K	6.65 lb
22.5	100	HIONELP-22.5K-AS	60 lb	HISB05-22.5K	17 lb

Load Point Assembly (Stainless IP67 Sensor and Electropolished Stainless Steel Mount)					
Capacity Klbs	Capacity kN	Load Point Part #	Load Point Shipping Weight	Sensor Part #	Sensor Shipping Weight
1.125	5	HIONELP-1125-ES	12 lb	HISB05-1125	3.6 lb
2.25	10	HIONELP-2.25K-ES	12 lb	HISB05-2.25K	3.6 lb
4.5	20	HIONELP-4.5K-ES	12 lb	HISB05-4.5K	3.6 lb
11.25	50	HIONELP-11.25K-ES	30 lb	HISB05-11.25K	6.65 lb
22.5	100	HIONELP-22.5K-ES	60 lb	HISB05-22.5K	17 lb

Mount Ordering Information					
Sensor Capacity Klbs	Capacity kN	Mount Part # Stainless Steel	Mount Part # Alloy Steel	Mount Part # Electropolished Steel	Sensor Part #
1.125	5	HIONEMT-4.5KLB-SS	HIONEMT-4.5KLB-AS	HIONEMT-4.5KLB-ES	HISB05-1125
2.25	10				HISB05-2.25K
4.5	20				HISB05-4.5K
11.25	50	HIONEMT-11.25KLB-SS	HIONEMT-11.25KLB-AS	HIONEMT-11.25KLB-ES	HISB05-11.25K
22.5	100	HIONEMT-22.5KLB-SS	HIONEMT-22.5KLB-AS	HIONEMT-22.5KLB-ES	HISB05-22.5K

Optional Dynamic Stabilization Rods		
	Stainless Steel	Alloy Steel
4.5	5504-0074-SS-4.5KLB	5504-0074-AS-4.5KLB
11.25	5504-0074-SS-11.25KLB	5504-0074-AS-11.25KLB
22.5	5504-0074-SS-22.5KLB	5504-0074-AS-22.5KLB

Easy Installation Process

1. Align and level the mounts under the vessel without the load cells installed. A 360° checking mechanism ensures accuracy and safety in any orientation.
2. Lower the vessel onto the mounts and weld or bolt the mounts to the foundation and the vessel.
3. Perform any peripheral pipe welding or add any required attachments.
4. Slide the load cell into place and fasten to the bottom plate.
5. Jack the vessel up 1/8" to remove the shipping/installation bracket.
6. Lower the vessel onto the live load point and calibrate using Hardy's C2® weightless calibration.

Hardy Process Solutions

10075 Mesa Rim Road
San Diego, CA 92121
tel. +1-858-278-2900
tel. 800-821-5831

www.hardysolutions.com
hardyinfo@hardysolutions.com



Technology Partner

A ROCKWELL AUTOMATION PARTNER

All information within is subject to change without notice. Visit our website for the latest specifications. OneMount is a trademark of Hardy Process Solutions. WEAVERSAVER, C2, IT, ADVANTAGE and ANY-WEIGH are registered trademarks of Hardy Process Solutions. Silver Technology Partner is a trademark of Rockwell Automation. All other trademarks or registered trademarks are the property of their respective owners.