

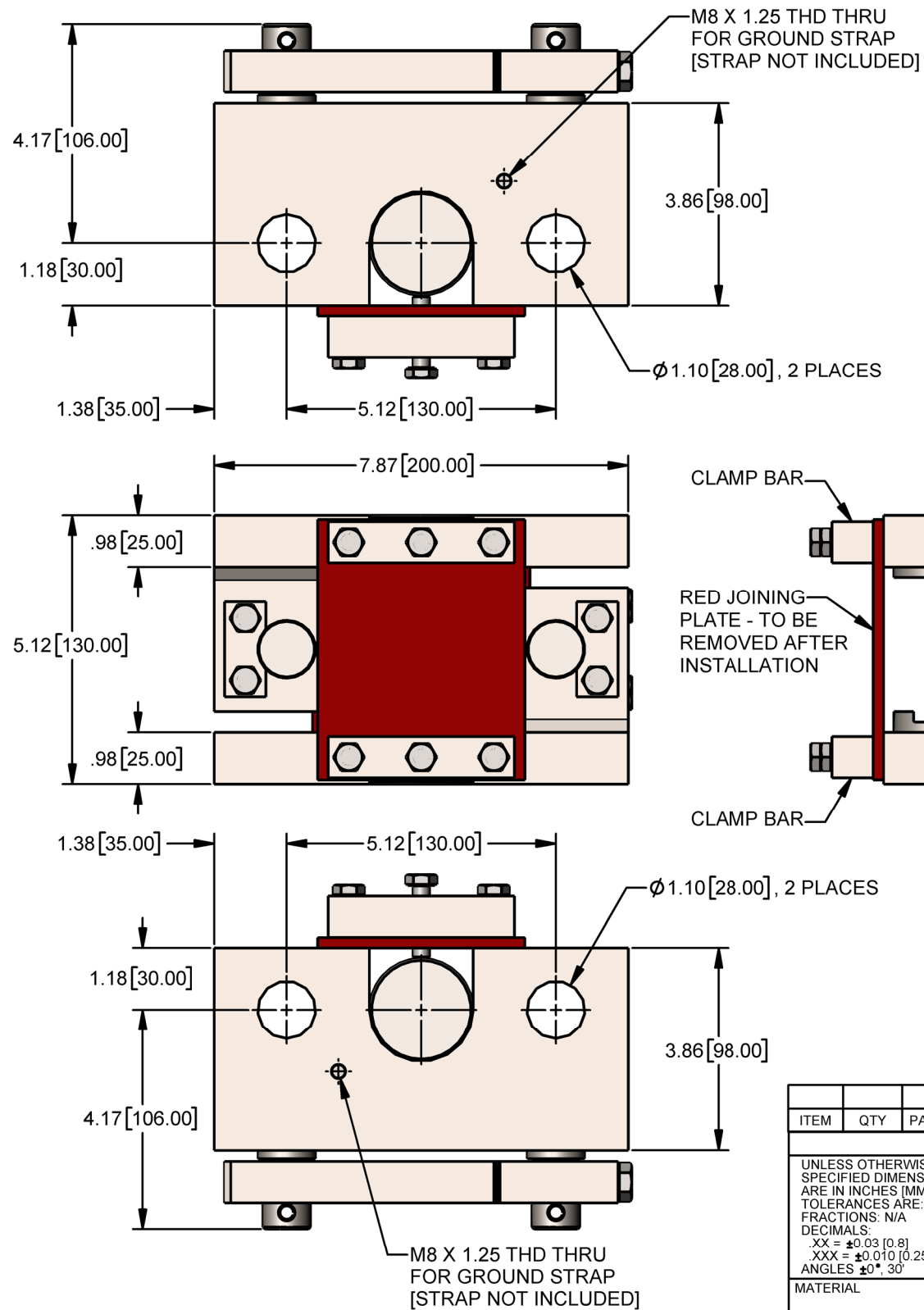
**LOAD CELL MOUNT MODEL NUMBERS**

CAPACITY LBS [MT]	APPLICABLE LOAD SENSORS [LOAD SENSOR NOT INCLUDED]	MOUNT MODEL NUMBER PLATED ALLOY STEEL	MOUNT MODEL NUMBER STAINLESS STEEL	MAXIMUM LIFT-OFF FORCE	MAXIMUM CHECK LINK SIDE FORCE
16.5KLB [7.5MT]	HIRCH04-16.5K	HIRDCM-AS-16.5KLB-50KLB	HIRDCM-SS-16.5KLB-50KLB	22.48KLB [100KN]	15.74KLB [70KN]
33KLB [15.0MT]	HIRCH04-33K				
50KLB [22.5MT]	HIRCH04-50K				

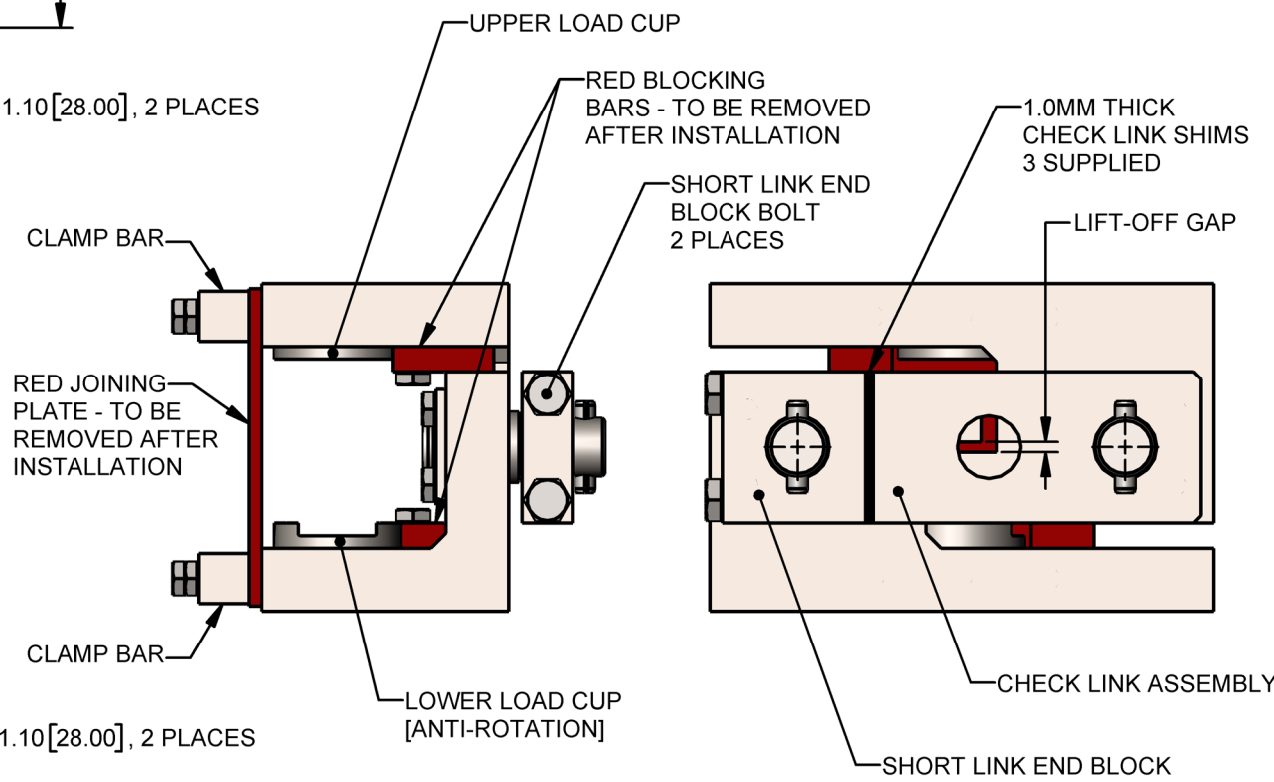
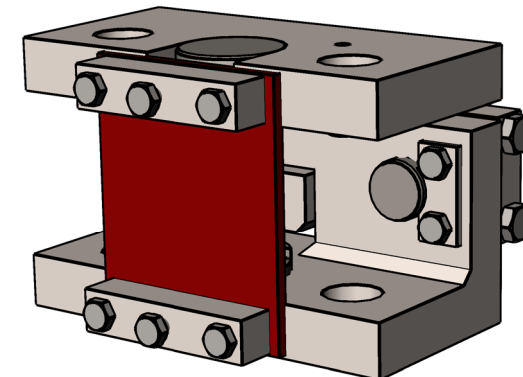
REV.	ECO/DDC	DESCRIPTION	DATE	DRAFT	CHECK	APVD
A	---	RELEASED.	08-29-23	V.J.C.	J.I.	V.J.C.

**NOTES: UNLESS OTHERWISE SPECIFIED**

- SEE HARDY PROCESS SOLUTIONS WEB SITE FOR ADDITIONAL INFORMATION.
- THIS DRAWING IS SUBJECT TO CHANGE WITHOUT NOTICE.
- WELDING THE LOAD CELL MOUNTING HARDWARE TO THE LOAD CARRIER AND FOUNDATION IS THE RECOMMENDED INSTALLATION METHOD. THIS ELIMINATES ANY MOUNTING HOLE ALIGNMENT ISSUES BETWEEN THE LOAD CARRIER AND FOUNDATION. DO NOT APPLY WELDS TO THE LOAD SENSOR CLAMP BAR SIDE OF THE MOUNT.
- SEE DRAWING VIEWS FOR SUGGESTED WELD LOCATIONS AND SIZES.
- BOLT-ON LOAD CELL MOUNT INSTALLATION INSTRUCTIONS:**
  - POSITION THE PREASSEMBLED LOAD CELL MOUNTS ON THE FOUNDATION PLATES OR EQUIVALENT.
  - REMOVE THE UPPER AND LOWER LOAD CUPS.
  - FASTEN THE LOAD CELL MOUNTS TO THE FOUNDATION USING TWO 3/4-10 UNC X 2.25IN LONG [M20 X 55MM LONG] MINIMUM, TYPE GRADE 8 BOLTS AND TWO FLAT WASHERS CENTERED IN THE LARGE CLEARANCE HOLES, BUT DO NOT TORQUE. [SUGGESTED MOUNTING BOLTS AND WASHERS ARE NOT SUPPLIED]
  - LOWER THE LOAD CARRIER ONTO THE LOAD CELL MOUNTS AND CENTER THE CARRIER HOLES WITH THE LOAD CELL MOUNT HOLES. CHECK THAT ALL UPPER BOLTS CAN BE INSERTED. DUE TO THE LARGE BOLT CLEARANCE HOLES ON THE LOAD CELL MOUNTS, THE LOAD CARRIER CAN BE RELIATED TO ALLOW SLIGHT REPOSITIONING OF THE LOAD CELL MOUNTS AS NECESSARY.
  - TORQUE ALL LOAD CARRIER BOLTS TO 295 LB-FT [400 NM] AND REMOVE THE RED JOINING PLATES ON ALL LOAD CELL MOUNTS.
  - AT EACH LOAD CELL MOUNT POSITION, SUFFICIENTLY LIFT THE LOAD CARRIER WITH A JACK TO ALLOW REMOVAL OF THE UPPER AND LOWER RED BLOCKING BARS AND BOLTS.
  - INSTALL THE UPPER AND LOWER LOAD CUPS ONTO THE END PINS OF THE LOAD SENSOR.
  - SLIDE THE ASSEMBLED LOAD SENSOR INTO UPPER AND LOWER MOUNT SEAT POCKETS AND SECURE WITH THE TWO CLAMP BARS AND SIX BOLTS. TIGHTEN THE UPPER CLAMP BAR BOLTS ONLY SLIGHTLY SO THAT THE LOAD CUP STILL CAN SLIDE AXIALLY. THEN LOWER AND REMOVE THE JACK. THEN, TORQUE ALL UPPER AND LOWER CLAMP BAR BOLTS TO 18 LB-FT [25NM].



**HIRCDM LOAD CELL MOUNT SHOWN IN SHIPPING STATE**

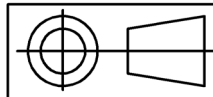


**NOTE A:**  
 IN THE EVENT THE UPPER AND LOWER LOAD CELL MOUNTING BOLT HOLE PATTERNS ARE MISALIGNED TO THE POINT WHERE IT IS IMPOSSIBLE TO PROPERLY INSERT ALL OF THE MOUNTING BOLTS INTO THEIR HOLES, IT IS RECOMMENDED THAT THE LOAD CARRIER SIDE OF THE LOAD CELL MOUNT BE BOLTED AND THAT THE FOUNDATION SIDE OF THE LOAD CELL MOUNT BE WELDED. AFTER WELDING, PROPERLY CLEAN ALL WELDS. APPLY AN ANTI-CORROSION COATING TO THE WELDS AS NECESSARY.

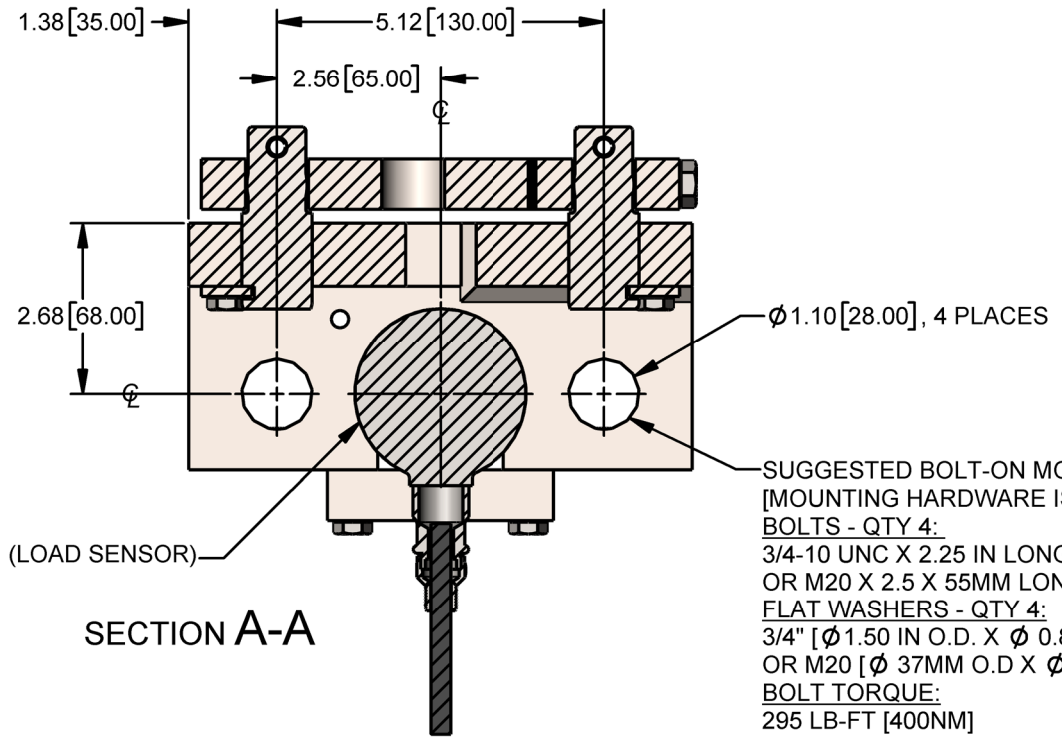
**NOTE B:**  
 FOR OPTIMUM PERFORMANCE, THE STATIC FORCES IN THE CHECK LINKS CAUSED BY NON-HORIZONTAL TANK FEET AND/OR NON-HORIZONTAL FOUNDATION PLATES CAN BE REDUCED BY ADJUSTING THE LINK LENGTHS TO BE WITHIN +/- 3MM. TO DO THIS, ALL THREE LINK SHIMS SHOULD BE REMOVED SO THAT ALL LOAD SENSORS CAN FIND THEIR COMMON STABLE POSITION. TAKE CARE NOT TO SUBJECT THE TANK TO EXCESSIVE SIDE FORCES BECAUSE WHEN THE LINKS ARE NOT CONNECTED, THE LOAD SENSORS MIGHT FALL OVER. LINKS CAN BE SHORTENED BY REMOVING SHIMS AS NECESSARY. LINKS CAN BE LENGTHENED BY REMOVING SHORT LINK END BLOCK AND ROTATING IT 180° AND THEN BY RE-INSERTING THE REQUIRED NUMBER OF SHIMS. AFTER DESIRED LINK LENGTH IS ACHIEVED, TIGHTEN THE TWO SHORT LINK END BLOCK BOLTS TO 37 LB-FT [50 NM].

**PROPRIETARY NOTICE**  
 ALL DATA AND INFORMATION CONTAINED IN OR DISCLOSED BY THIS DOCUMENT IS CONFIDENTIAL AND PROPRIETARY INFORMATION OF HARDY PROCESS SOLUTIONS AND ALL RIGHTS THEREIN ARE EXPRESSLY RESERVED. BY ACCEPTING THIS MATERIAL THE RECIPIENT AGREES THAT THIS MATERIAL AND THE INFORMATION CONTAINED THEREIN IS HELD IN CONFIDENCE AND IN TRUST AND SHALL NOT BE USED, COPIED, REPRODUCED IN WHOLE OR IN PART, NOR ITS CONTENTS REVEALED IN ANY MANNER TO OTHERS, EXCEPT TO MEET THE SPECIFIC PURPOSE FOR WHICH IT WAS DELIVERED.

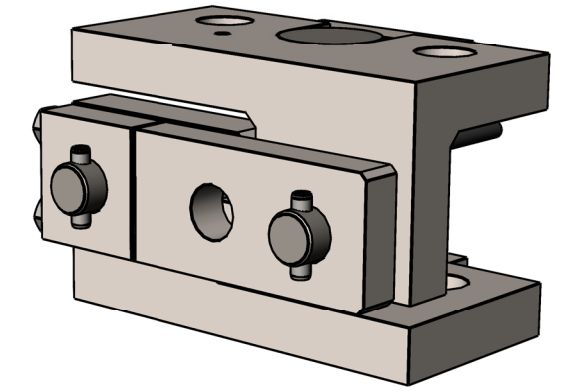
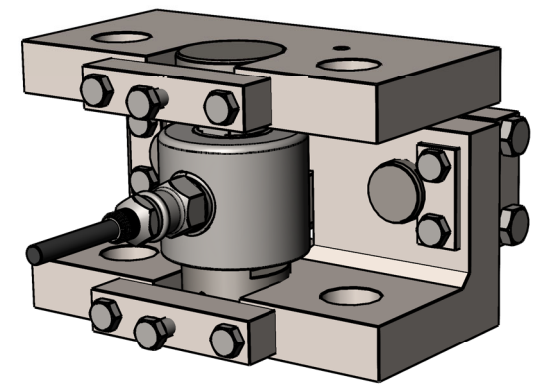
ITEM	QTY	PART NUMBER	DESCRIPTION	COMMENTS
0588-0223 OUTLINE DRAWING, LOAD CELL MOUNT, HIRCDM SERIES, 16.5KLB-50KLB CAPACITY SEE NOTES				
PARTS LIST				
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES (MM) TOLERANCES ARE:		CONTRACT NO.		
FRACTIONS: N/A		APPROVALS		
DECIMALS:		DRAWN V. CHULA DATE 08-29-23		
.XX = ±0.03 [0.8]		CHECKED J. MOEN DATE 08-29-23		
.XXX = ±0.010 [0.25]		APPROVED V. CHULA DATE 08-29-23		
ANGLES ±0°. 30°		ISSUED V. CHULA DATE 08-29-23		
MATERIAL		PRODUCTION DATE		
FINISH		DO NOT SCALE DRAWING		
TITLE		OUTLINE DRAWING, LOAD CELL MOUNT, HIRCDM SERIES, 16.5KLB-50KLB CAPACITY		
SIZE	FSCM	DRAWING NO.	REV.	
D	21316	0588-0223	A	
FILE NAME: 0588-0223A1.SLDDRW		SCALE: NONE	SHEET 1 OF 2	



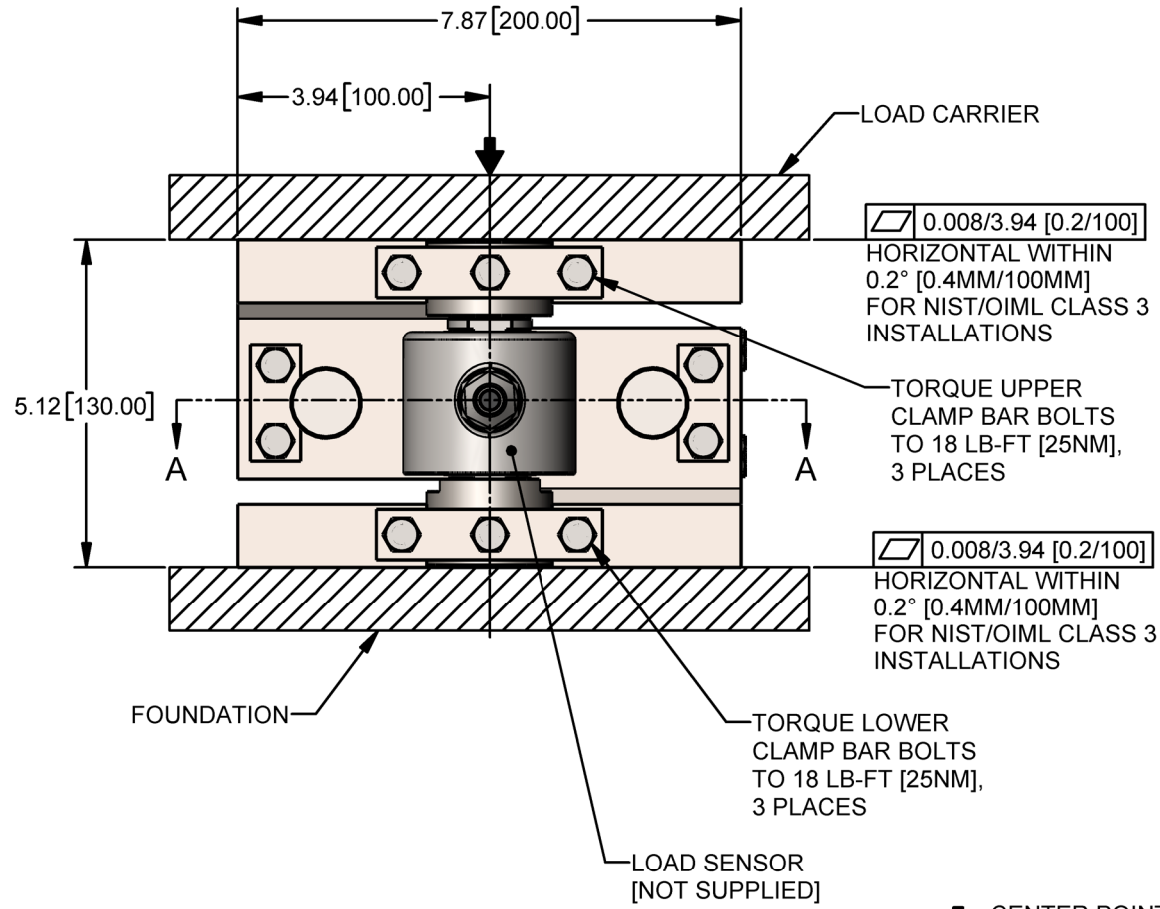
HIRCDM LOAD CELL MOUNT- SHOWN IN INSTALLATION STATE



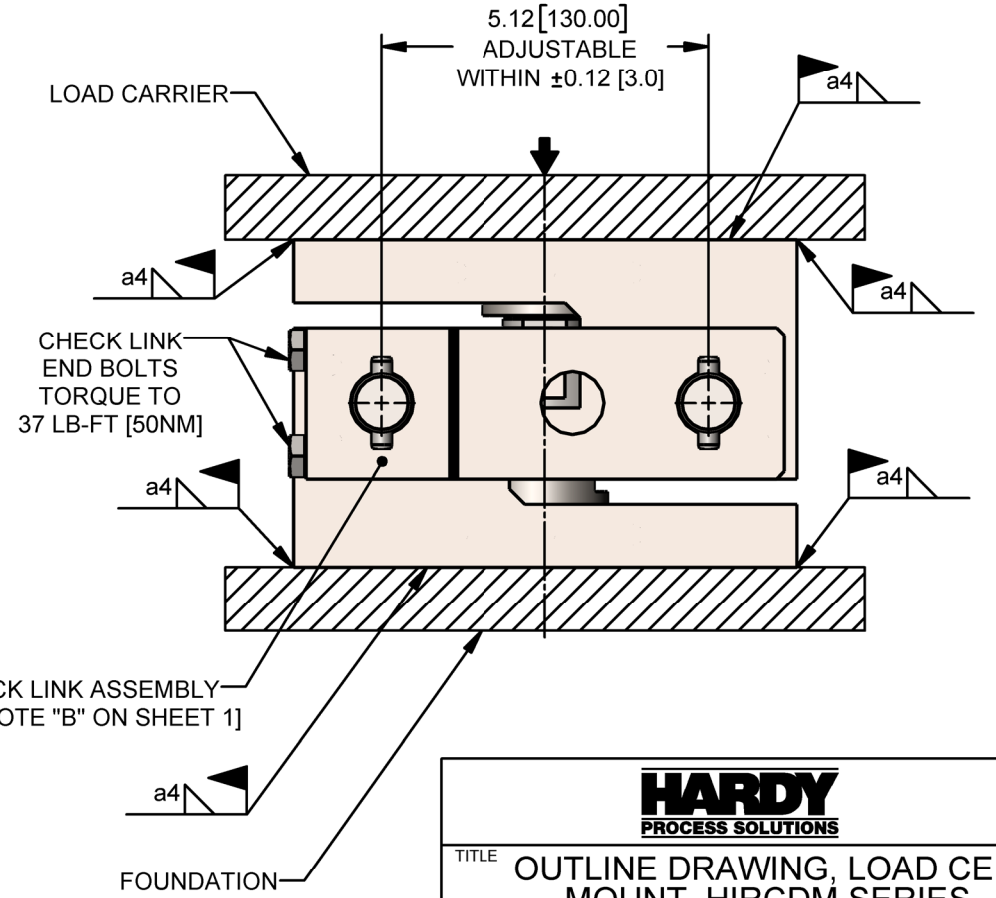
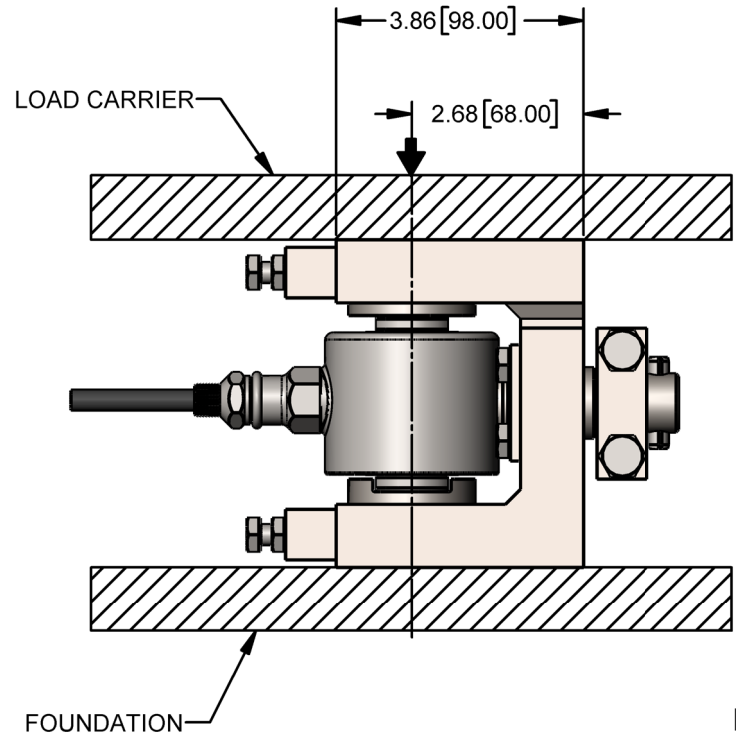
SUGGESTED BOLT-ON MOUNTING HARDWARE:  
 [MOUNTING HARDWARE IS NOT SUPPLIED]  
 BOLTS - QTY 4:  
 3/4-10 UNC X 2.25 IN LONG MIN, GRADE 8  
 OR M20 X 2.5 X 55MM LONG MIN, TYPE 8.8  
 FLAT WASHERS - QTY 4:  
 3/4" [ $\phi$  1.50 IN O.D. X  $\phi$  0.81 IN I.D. X 0.11- 0.16 IN THICK]  
 OR M20 [ $\phi$  37MM O.D X  $\phi$  21MM I.D. X 3MM THICK]  
 BOLT TORQUE:  
 295 LB-FT [400NM]



OPTIONAL WELD LOCATIONS SHOWN  
 APPLIED ONLY TO 3 EDGES SHOWN ON  
 LOAD CARRIER SIDE AND FOUNDATION



↓ CENTER POINT - THE CENTER POINT OF THE UPPER LOAD CUP SHOULD BE CENTERED ON THE LOAD CARRIER PLATE



<b>HARDY</b> PROCESS SOLUTIONS			
TITLE OUTLINE DRAWING, LOAD CELL MOUNT, HIRCDM SERIES, 16.5KLB-50KLB CAPACITY			
SIZE	FSCM	DRAWING NO.	REV.
D	21316	0588-0223	A
FILE NAME: 0588-0223A1.SLDDRW		SCALE: NONE	SHEET 2 OF 2

