

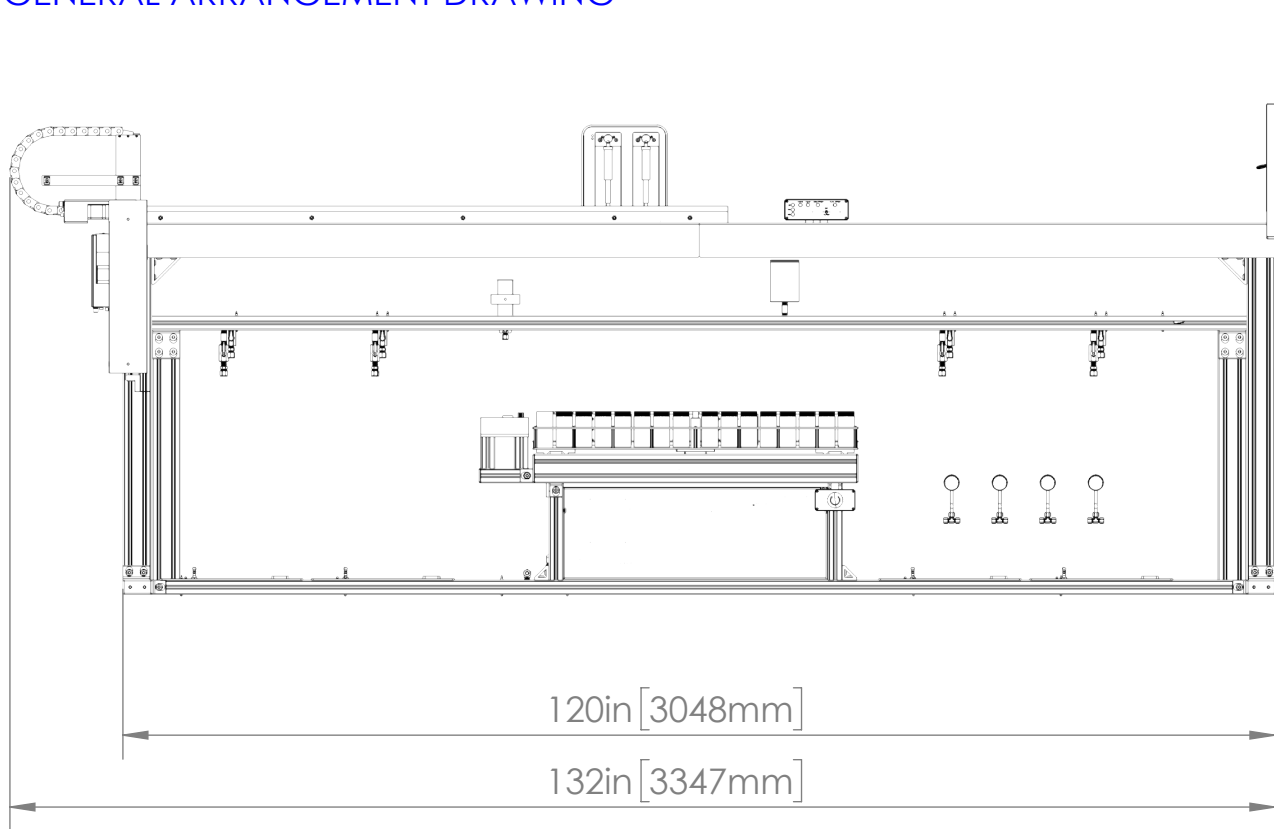
HOUILLON VISCOMETER AUTOMATION SYSTEM - HVA-4
GENERAL ARRANGEMENT DRAWING

D

C

B

A



FRONT VIEW

APPROX. INSTRUMENT WEIGHT: 500 lbs
(WEIGHT DOES NOT INCLUDE VISCOMETER BATHS)



HVA-1 - SHIPMENT NOTES*

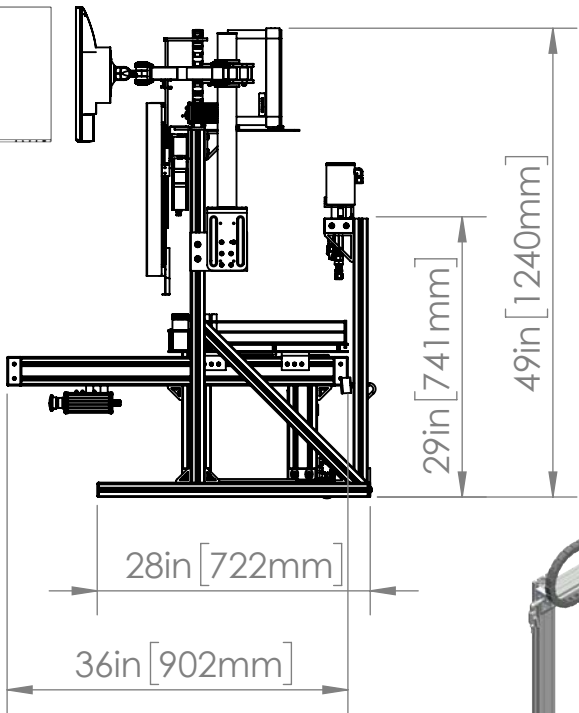
PACKAGED DIMENSION: 34" W X 132" L X 52" H

PACKAGED WEIGHT: 788 lbs (approx)

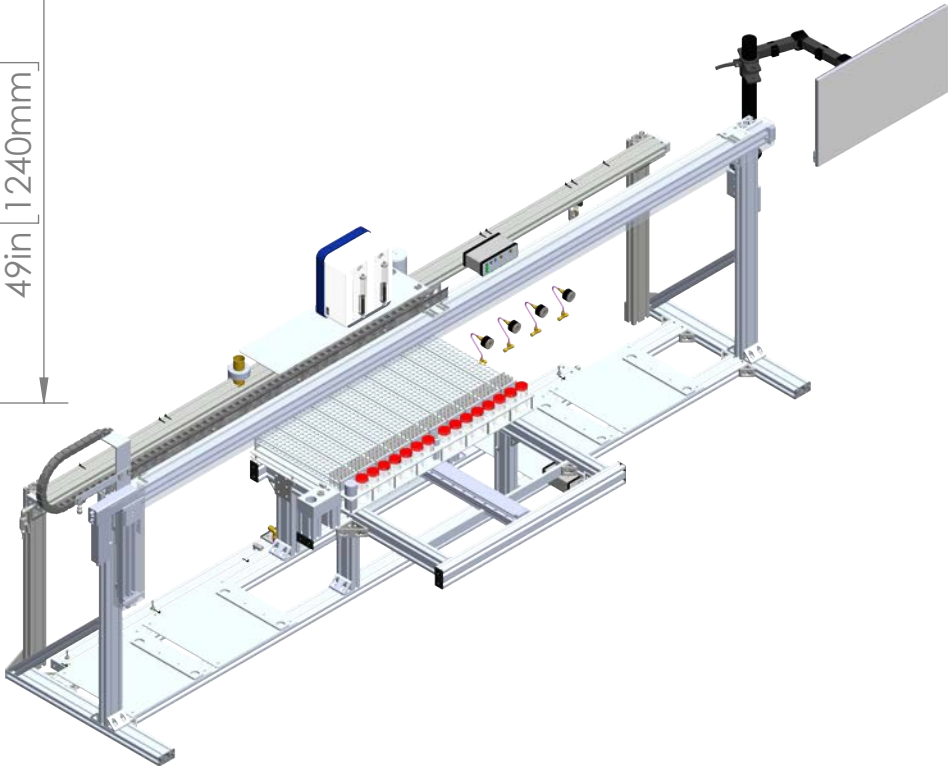
ACCESS: REMOVABLE TOP COVER & FRONT WALL
CONSTRUCTION: HEAT TREATED WOOD

* ACTUAL CRATE/PACKAGING DETAILS MAY VARY.
SHOWN FOR ILLUSTRATION & INFORMATION PURPOSES ONLY

28" MONITOR



SIDE VIEW



HVA-4 - INFORMATION

INPUT POWER: 48VDC - 4A

- FOLLOWING ARE SHIPPED WITH THE INSTRUMENT:
- QTY 1: 110/240VAC TO 48VDC EXTERNAL POWER ADAPTER
 - QTY 4, 200 POSITION SAMPLE TRAY
 - QTY 1, PROCESS CONTROL STANDARD TRAY
 - QA/QC TEST DOCUMENTATION

TASK	NAME	DATE	TASK	NAME	DATE	TASK		DATE
DRAWN	KANNAN	15-FEB-2025	REVISED			PUNCH		
CHECKED						BENT		
BEND DEDUCTION:			DWG NO.			HVA-1-GA-01		
MATERIAL			SIZE			DESCRIPTION:		
FINISH			COMMENTS:			GENERAL ARRANGEMENT		
DO NOT SCALE DRAWING			SCALE:			1:48		
			WEIGHT:			SHEET: 1 of 3		


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REV
A

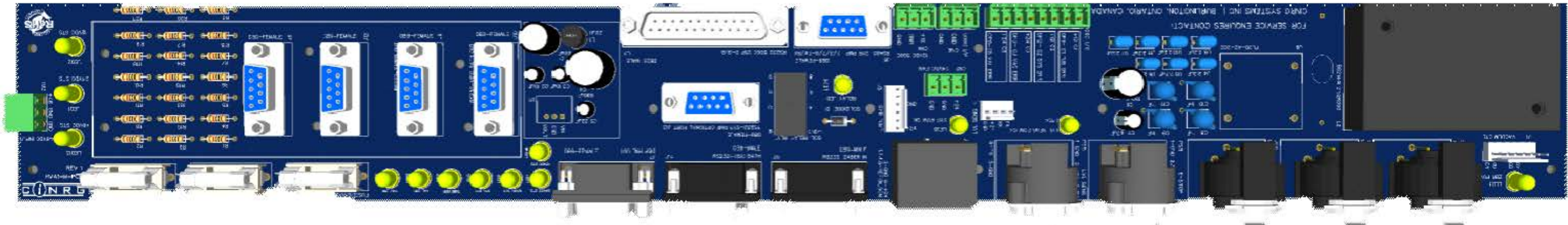
SYSTEM ARCHITECTURE DETAIL



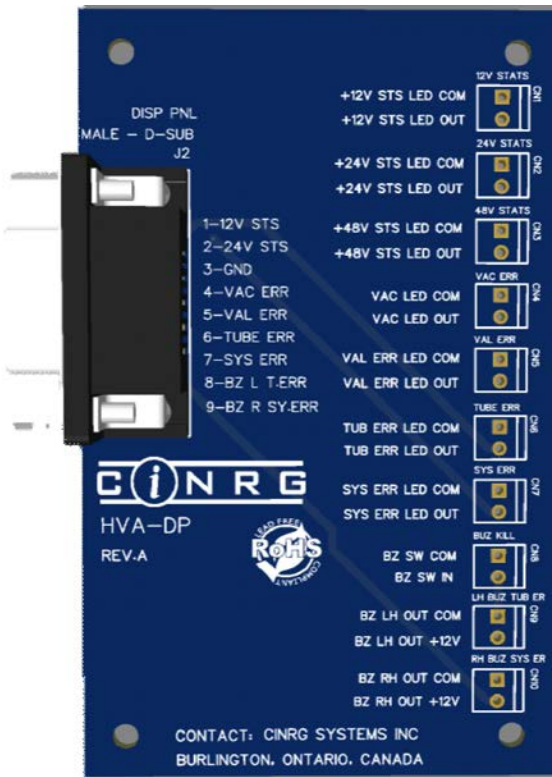
JOB #: CSI-HVA	TASK	NAME	DATE	TASK	NAME	DATE	TASK		DATE	
	DRAWN	KANNAN	15-FEB-2025	REVISED			PUNCH			
	CHECKED						BENT			
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	MATERIAL					SIZE B	DESCRIPTION: SYSTEM ARCHITECTURE			
	FINISH			COMMENTS:		SCALE: 1:15 WEIGHT: SHEET: 2 of 3				
	DO NOT SCALE DRAWING									

HOULLON VISCOMETER AUTOMATION SYSTEM (HVA-2 AND HVA-4)
PCB DETAIL

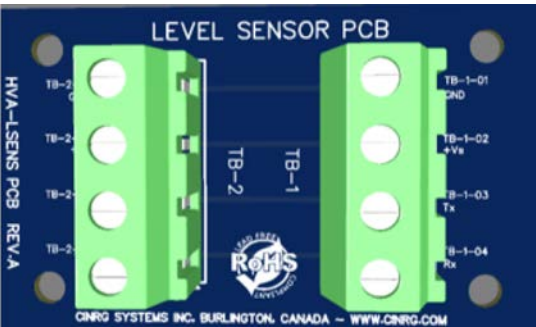
PCB 1: HVA-M-PCB REV A LOCATION: E-CABINET





PCB 2: HVA-DP-PCB REV A LOCATION: DISPLAY PANEL



PCB 3: HVA-LSSENS-PCB REV A LOCATION: Z-AXIS ARM



JOB #:	CS-HVA	TASK	NAME	DATE	TASK	NAME	DATE	TASK		DATE		
		DRAWN	KANNAN	15-FEB-2025	REVISED			PUNCH				
		CHECKED						BENT				
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		MATERIAL						SIZE B	DESCRIPTION: PCB DETAILS			
		FINISH			COMMENTS:							
		DO NOT SCALE DRAWING			SCALE: 1:15		WEIGHT:		SHEET: 3 of 3			