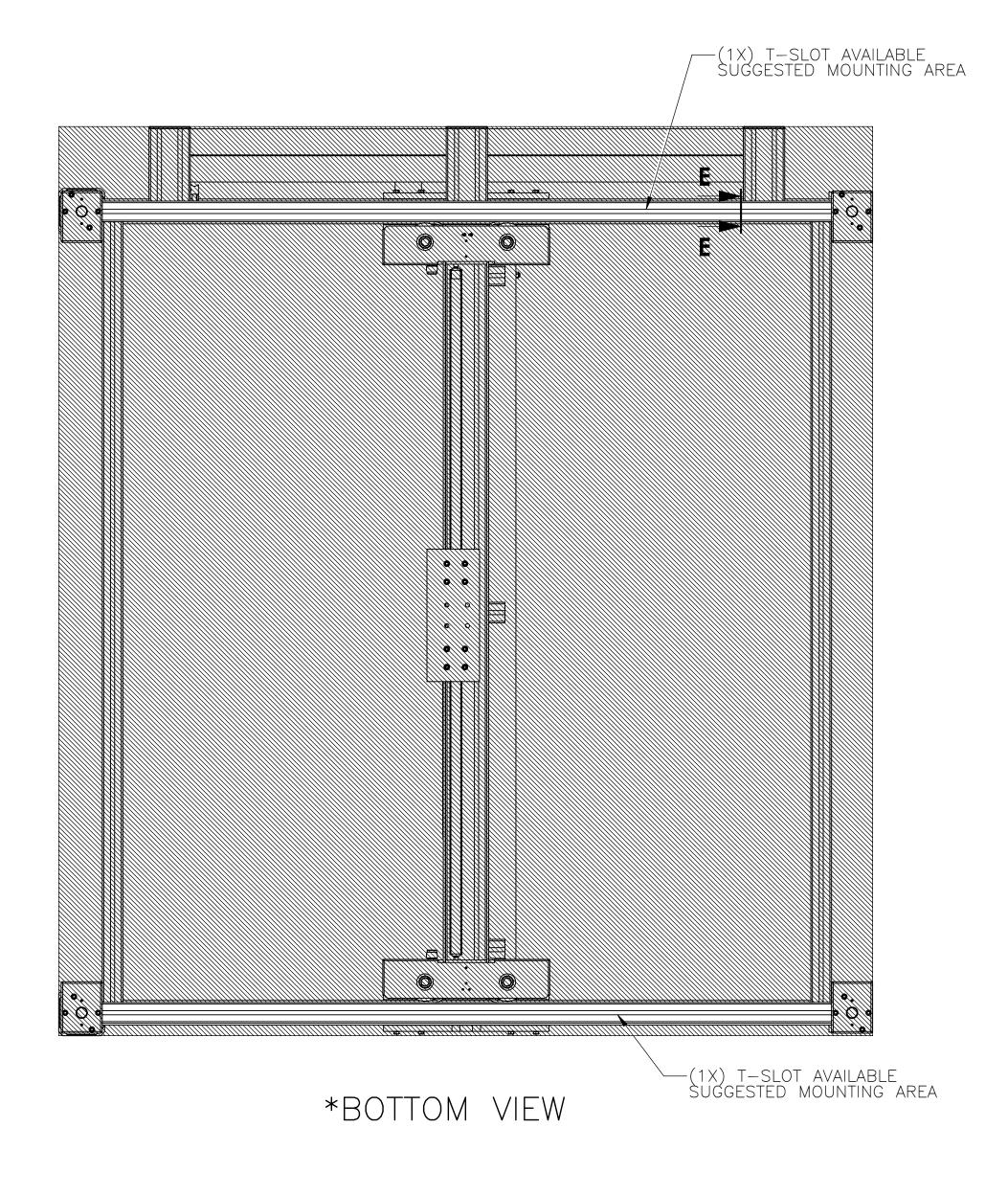
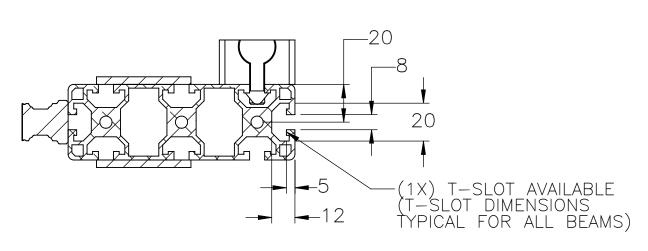
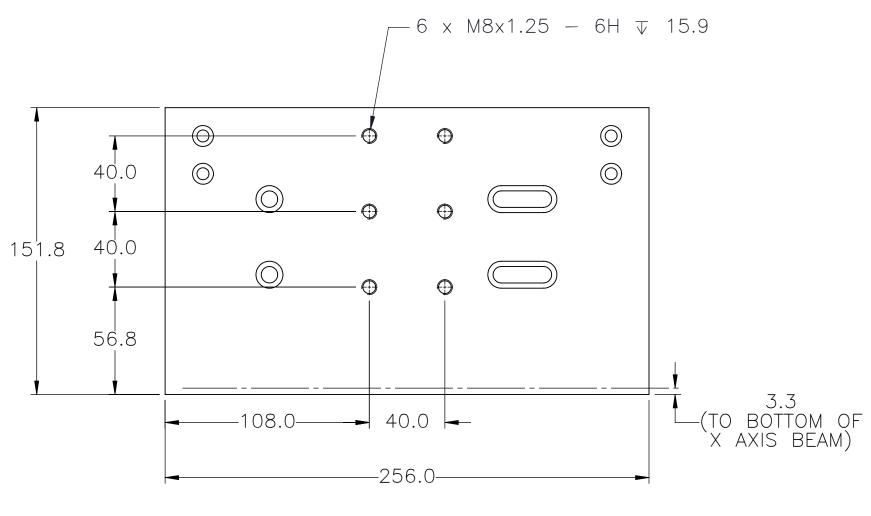


GANTRY MOUNTING FEATURES





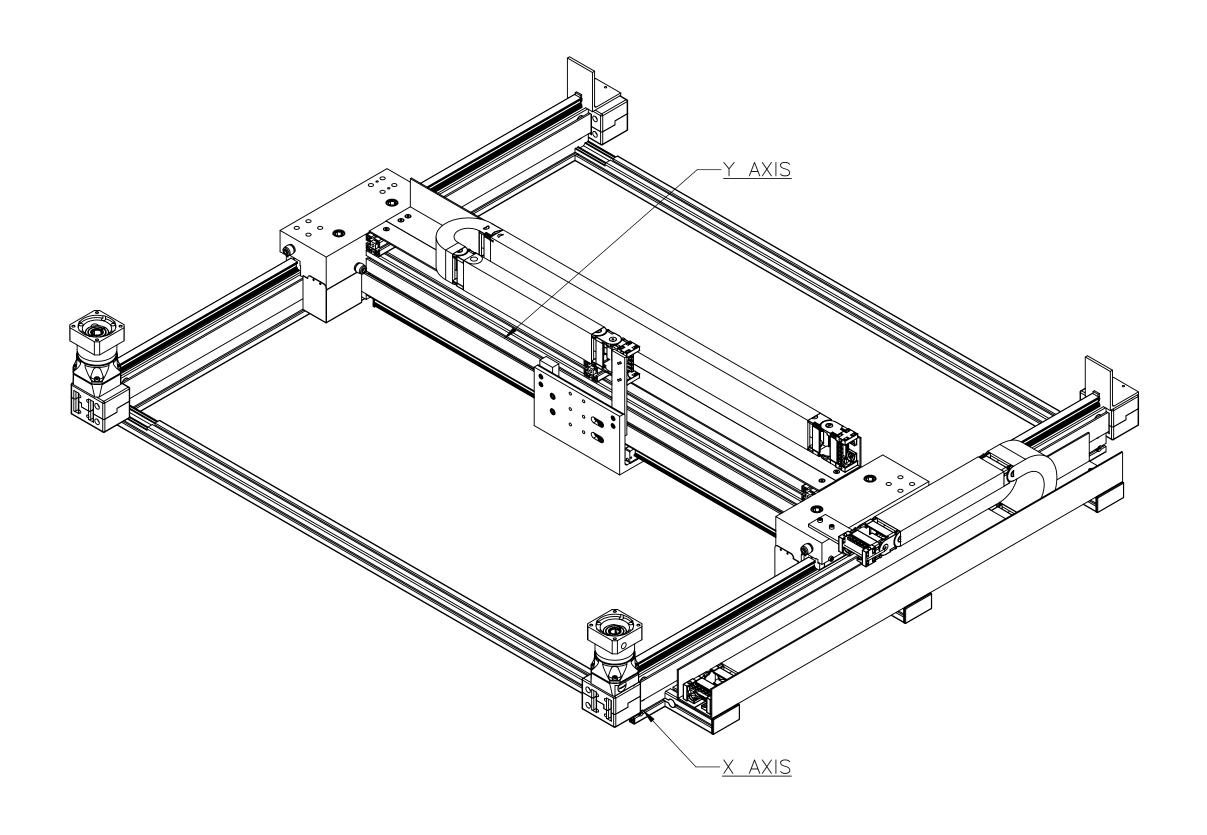
SECTION E-E



CART MOUNTING FEATURES

<u> </u>	DRAWN BY: TB	DATE: 1/2/2019	MATERIAL:	TITLE:
	CHECKED BY:	DATE: DD/MM/YYYY		
	LAST SAVED BY: TH	DATE: 10/12/2022		
MACRON	UNLESS OTHERWISE SPECI	.X ± .762	FINISH:	
MACRON DYNAMICS INC	DIMENSIONS ARE IN MILLIME TOLERANCES UNLESS NO OTHERWISE:	EIER.		
THIS DRAWING IS THE PROPERTY OF MACRON DYNAMICS	SURFACE FIN	IISH 63/	CHEET DADT NUMBER	SCALE 1:1 SHEET SIZE C
ANY REPRODUCTIONS SHALL BE FOR QUOTATION, MANUFACTURING, OR PURCHASING PURPOSES ONLY. RELEASE OF DRAWINGS TO OTHER CONCERNS DOES NOT CONSTITUTE LICENSING IN ANY WAY. INFORMATION	DIMENSIONAL LIMITS A	SHARP EDGES APPLY AFTER FINISHING	SHEET PART NUMBER 3 OF 6 MGS—	HBG-50-X-X-X
CONTAINED HEREIN IS PROPRIETARY AND CONFIDENTIAL	THIRD ANGLE	PROJECTION		

MOTOR SIZING WORKSHEET



PROPERTY	VALUE			
PULLEY PITCH Ø	47.75mm (1.88")			
PULLEY WIDTH	54.0mm (2.124")			
PULLEY MATERIAL	STEEL			
TRAVEL PER REV	150mm			
BELT WIDTH	50mm (1.97")			
ULTIMATE TENSILE STRENGTH OF BELT	4600 LBS (204470 N)			
RECOMMENDED BELT RUNNING LOAD	1150 LBS (5118 N)			

 $X-TRAVEL = \underline{mm}$ $Y-TRAVEL = \underline{mm}$

NOTE: ALL SUPPLIED MASSES DO NOT INCLUDE CUSTOMER COMPONENTS (MOTORS, CABLES, ETC)

CEADDOV	MPG-084	2.3kg
GEARBOX MASS (ADD	MPG-114	5.8kg
TO SYŜTEM MASSES)	MRG-084	5.6kg
	MRG-114	15.0kg

TOTAL BELT MASS	(X TRAVEL x .00136) + (Y TRAVEL x .00068) + 1.05 = kg	
TOTAL MOVING MASS	(X TRAVEL x .001) + (Y TRAVEL x .011) + 44.48 = kg	
TOTAL SYSTEM MASS	(X TRAVEL x .0171) + (Y TRAVEL x .0263) + 63.43 = kg	
	DRAWN BY: TR DATE: 1/2/2019 MATERIAL: TITLE:	

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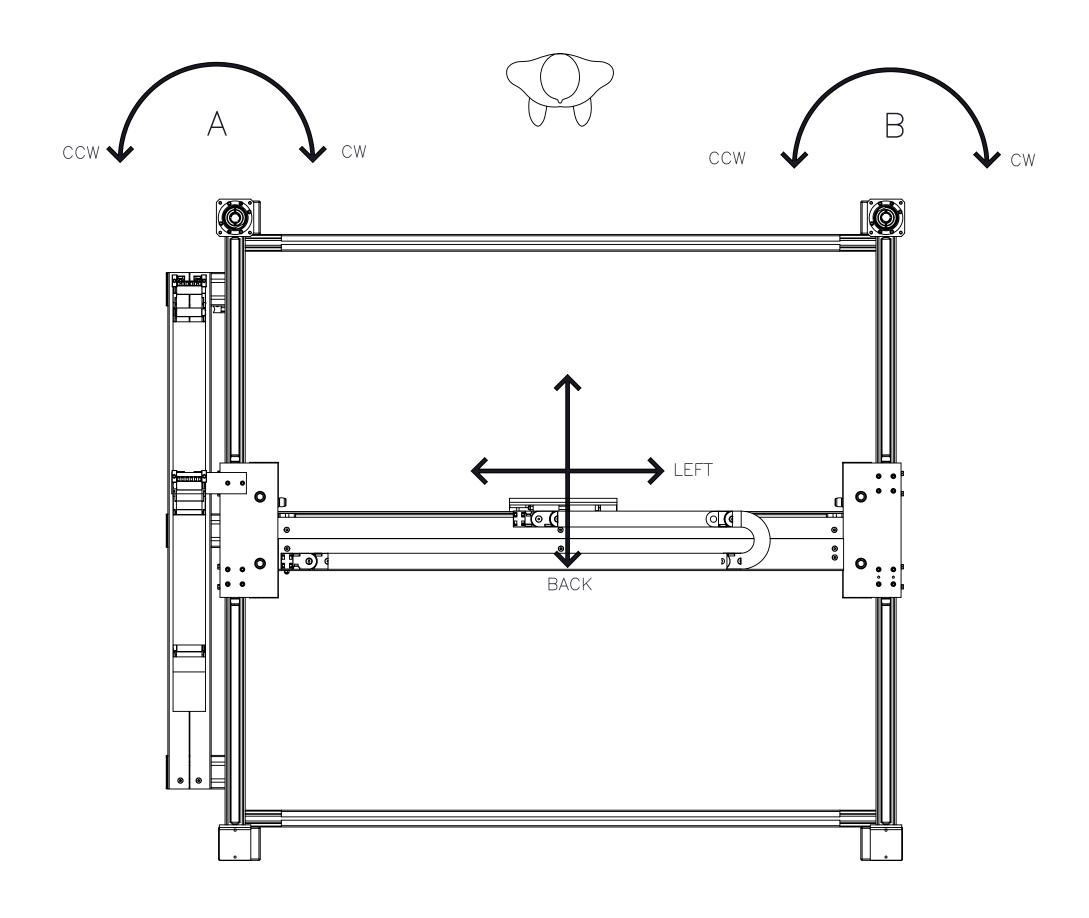
SCALE 1:1 SHEET SIZE C

SHEET PART NUMBER REV

HING 4 OF 6 MGS-HBG-50-X-X-X OC

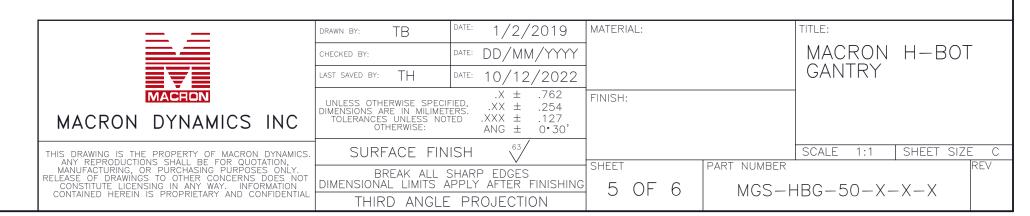
MOTOR DYNAMICS

(ASSUMES MOTORS ARE ROTATING AT SAME ANGULAR VELOCITY)



ROTATIONAL	Y-AXIS CART MOVEMENT	
PULLEY A	PULLEY B	
CW	CW	LEFT
CW	CCW	BACK
CCW	CW	FRONT
CCW	CCW	RIGHT

PULLEY ROTATION AND Y-AXIS CART MOVEMENT ARE WITH RESPECT TO THIS GANTRY VIEW



SPECIFICATIONS

Sensor Type	Inductive			
Concor Ciza	Fits all 8mm			
Sensor Size	wide T-Slots			
Operating Voltage	10-30 VDC			
Voltage Drop Across Conducting Sensor	≤1.8 V at 100 mA			
Number of Conductors (AWG)	3x26 AWG			
Temperature Range	-40°C to 105°C			

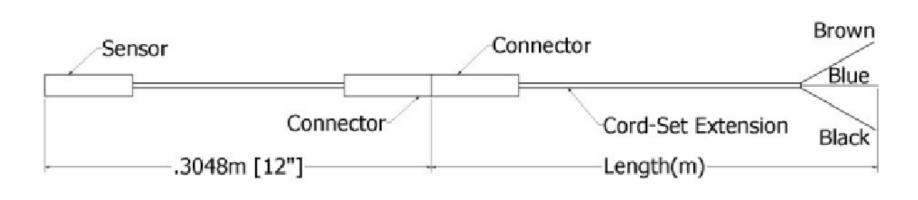
Part Number Configuration

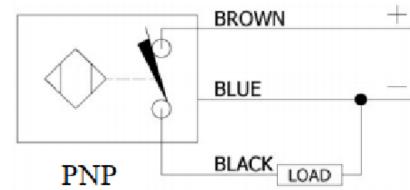
244-_ _ -_ _

PNP or NPN	NC or NO	02	Meters
PNP or NPN	NC or NO	06	Meters
PNP or NPN	NC or NO	12	Meters

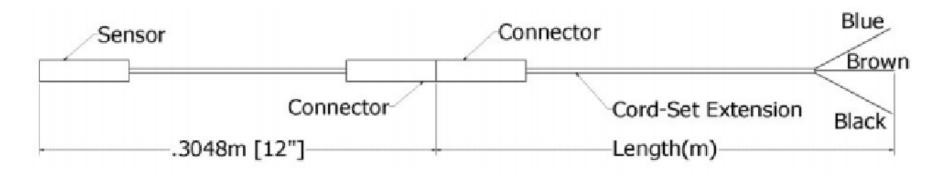
Example: PNP, normally closed, cord-set extension length 6 meters = 244-PNP-NC-06

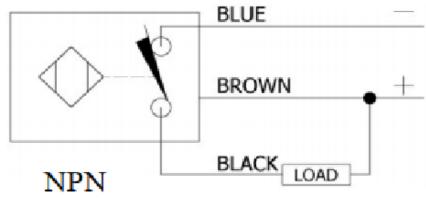
PNP Diagrams

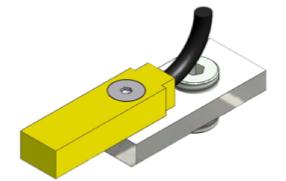


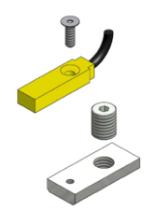


NPN Diagrams









KIT INCLUDES - SENSOR, CORDSET EXTENSION, AND MOUNTING HARDWARE

<u> </u>	DRAWN BY: JA	DATE: 1/2/2019	MATERIAL:		TITLE:	
	CHECKED BY:	DATE: DD/MM/YYYY			T-SLOT	SENSOR
	LAST SAVED BY: TH	DATE: 10/12/2022			KIT	
MACRON DYNAMICS INC	UNLESS OTHERWISE SPEC DIMENSIONS ARE IN MILLIME TOLERANCES UNLESS NO OTHERWISE:	TERS^^234	FINISH:			
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MANUFACTURING, OR PURCHASING PURPOSES ONLY. RELEASE OF DRAWINGS TO OTHER CONCERNS DOES NOT CONSTITUTE LICENSING IN ANY WAY. INFORMATION CONTAINED HEREIN IS PROPRIETARY AND CONFIDENTIAL	BREAK ALL S DIMENSIONAL LIMITS A THIRD ANGLE		6 OF 6	PART NUMBER SENS	SOR CALL—C)UT