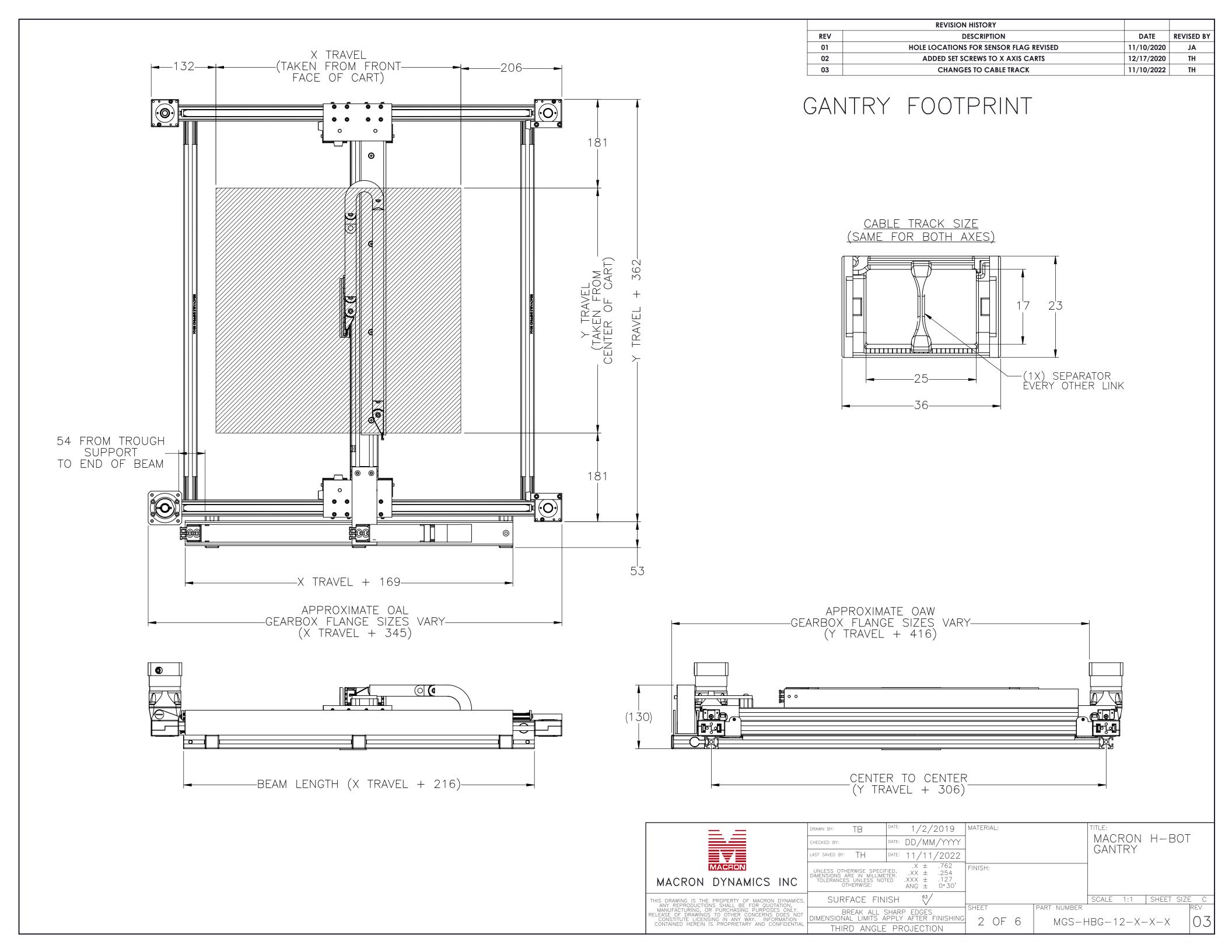
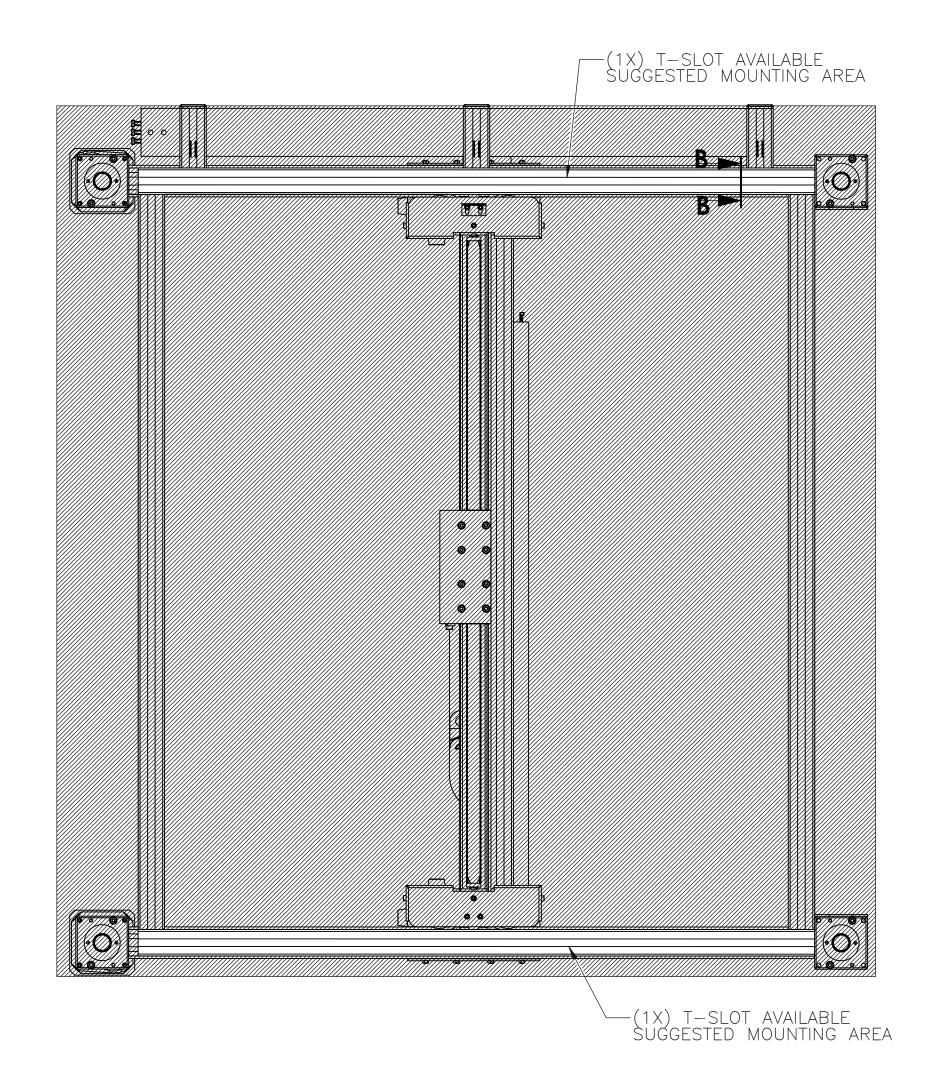
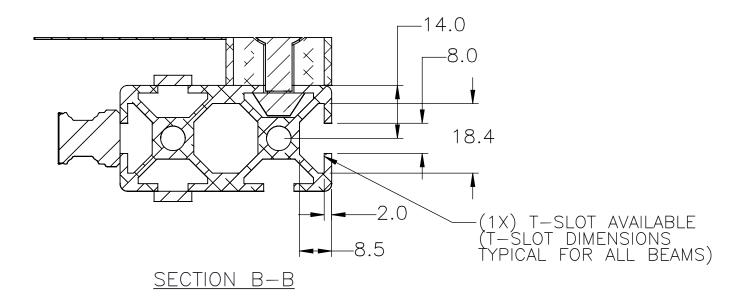
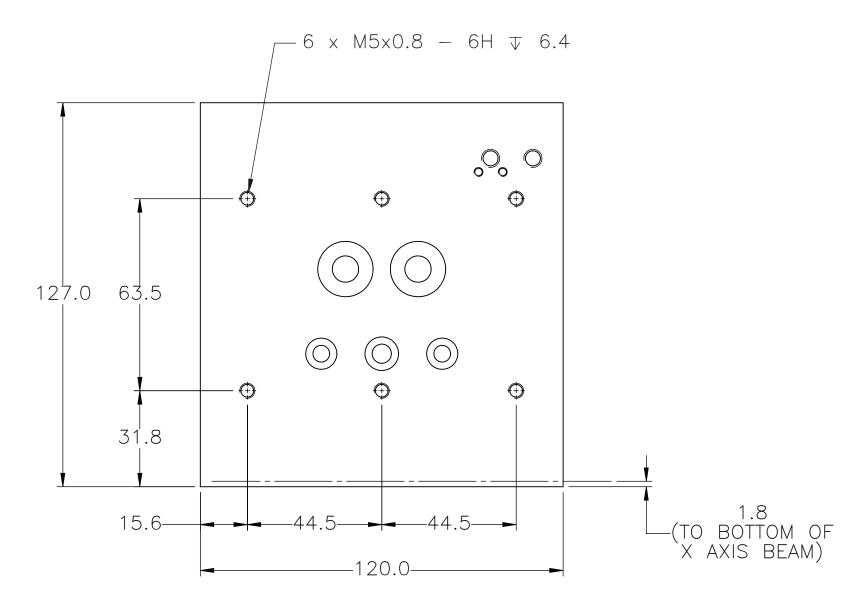
MGS-HBG-12-	X
GEARBOX MODEL MPG-062 MRG-062 RATIO:	ENTER Y-AXIS TRAVEL TRAVEL IN INCREMENTS OF 250mm TRAVEL LIMITS: 250mm-1000mm ENTER X-AXIS TRAVEL
FOR DIRECT—DRIVE OPTION WITH MMKS (NO GEARBOXES) CHECK HERE:	TRAVEL IN INCREMENTS OF 250mm OUTSIDE LIMITS TRAVEL LIMITS: 250mm-2000mm LISTED ABOVE, CONTACT MACRON*
MOTOR INFORMATION MANUFACTURER: MODEL:	
SENSOR INFORMATION X-AXIS: HOME-QTY 244 EOT-QTY 244 28mm MIN BEND RA	X' AXIS— ADIUS—
SENSOR INFORMATION Y-AXIS: HOME-QTY 244 EOT-QTY 244 12mm Belt Width—	—REMOVABLE CROSSBEAM
(SEE T-SLOT SENSOR KIT SHEET FOR PART NUMBER CONFIGURATION)	
MPG-062 GEARBOX	
	—X AXIS
REMOVABLE CROSSBEAM-	—38mm MIN BEND RADIUS
MPG-	-062 GEARBOX—
APPROVED:	DRAWN BY: TB DATE: 1/2/2019 MATERIAL: TITLE:
SIGN & PRINT DATE:	CHECKED BY: DATE: DD/MM/YYYY LAST SAVED BY: TH DATE: 11/11/2022 MACRON H-BOT GANTRY
PO:REFERENCE#:	MACRON DYNAMICS INC DIMENSIONS ARE IN MILLIMETER: .XX ± .254
	THIS DRAWING IS THE PROPERTY OF MACRON DYNAMICS. 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 CONTAINED HEREIN IS PROPRIETARY AND CONFIDENTIAL THIRD ANGLE PROJECTION SURFACE FINISH BREAK ALL SHARP EDGES DIMENSIONAL LIMITS APPLY AFTER FINISHING THIRD ANGLE PROJECTION SCALE 1:1 SHEET SIZE C SHEET PART NUMBER MGS-HBG-12-X-X-X O3



GANTRY MOUNTING FEATURES



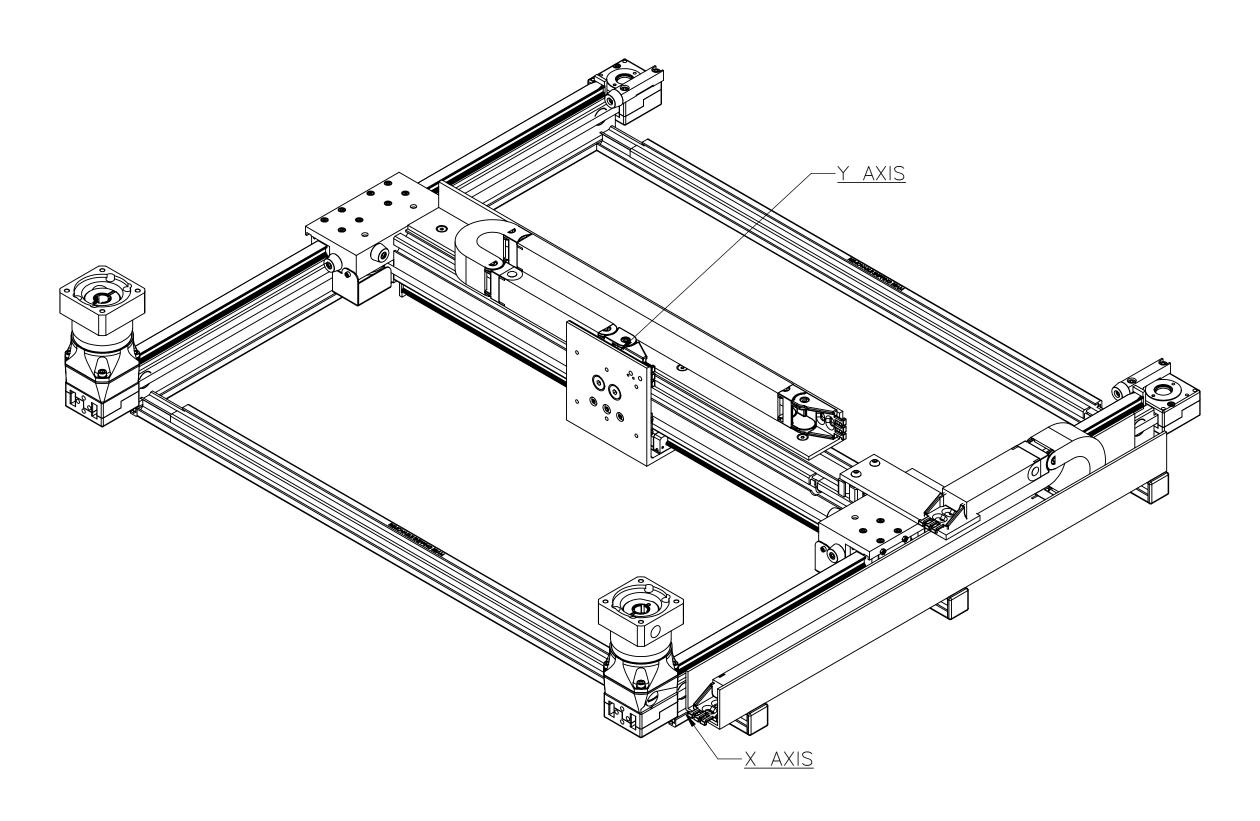




CART MOUNTING FEATURES

	DRAWN BY: TB	DATE: 1/2/2019	MATERIAL:	TITLE:
	CHECKED BY:	DATE: DD/MM/YYYY		MACRON H-BOT
	LAST SAVED BY: TH	DATE: 11/11/2022		GANTRY
MACRON DYNAMICS INC	UNLESS OTHERWISE SPECIF DIMENSIONS ARE IN MILLIME TOLERANCES UNLESS NOT OTHERWISE:	TER^^234	FINISH:	
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CONTAINED HEREIN IS PROPRIETARY AND CONFIDENTIAL	THIRD ANGLE	PROJECTION		WOS TIBO 12 X X X

MOTOR SIZING WORKSHEET



PROPERTY	VALUE
PULLEY PITCH Ø	33.42mm (1.316")
PULLEY WIDTH	16.3mm (.642")
PULLEY MATERIAL	STEEL
TRAVEL PER REV	105mm
BELT WIDTH	12mm (.472")
ULTIMATE TENSILE STRENGTH OF BELT	800 LBS (3559 N)
RECOMMENDED BELT RUNNING LOAD	200 LBS (889 N)

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

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

GEARBOX MASS (ADD	MPG-062	1.0kg	
TO SYSTEM MASSES)	MRG-062	3.0kg	

TOTAL BELT MASS	(X TRAVEL x .00016) + (Y TRAVEL + .00008) + .07 = kg
TOTAL MOVING MASS	$(X TRAVEL \times .0004) + (Y TRAVEL \times .0040) + 4.12 = kg$
TOTAL SYSTEM MASS	(X TRAVEL x .0072) + (Y TRAVEL x .0063) + 7.68 = kg

	= <i>=</i>	
	MACRON	
MACRON	DYNAMICS	INC

DRAWN BY:	TB	DATE:	1/2/	2019	MATERIAL:
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DIMENSIONS A TOLERANCE	ERWISE SPECIF RE IN MILIMET S UNLESS NOT THERWISE:	ERS.	.X ± .XX ± .XXX ± ANG ±	.762 .254 .127 0°30'	FINISH:
CLIDI	EVCE EIVI	ICU	,63/		

MACRON H-BOT GANTRY

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CONTAINED HEREIN IS PROPRIETARY AND CONFIDENTIAL

SURFACE FINISH 53 SCALE 1:1 SHEET SIZE C

BREAK ALL SHARP EDGES
DIMENSIONAL LIMITS APPLY AFTER FINISHING
THIRD ANGLE PROJECTION

SCALE 1:1 SHEET SIZE C

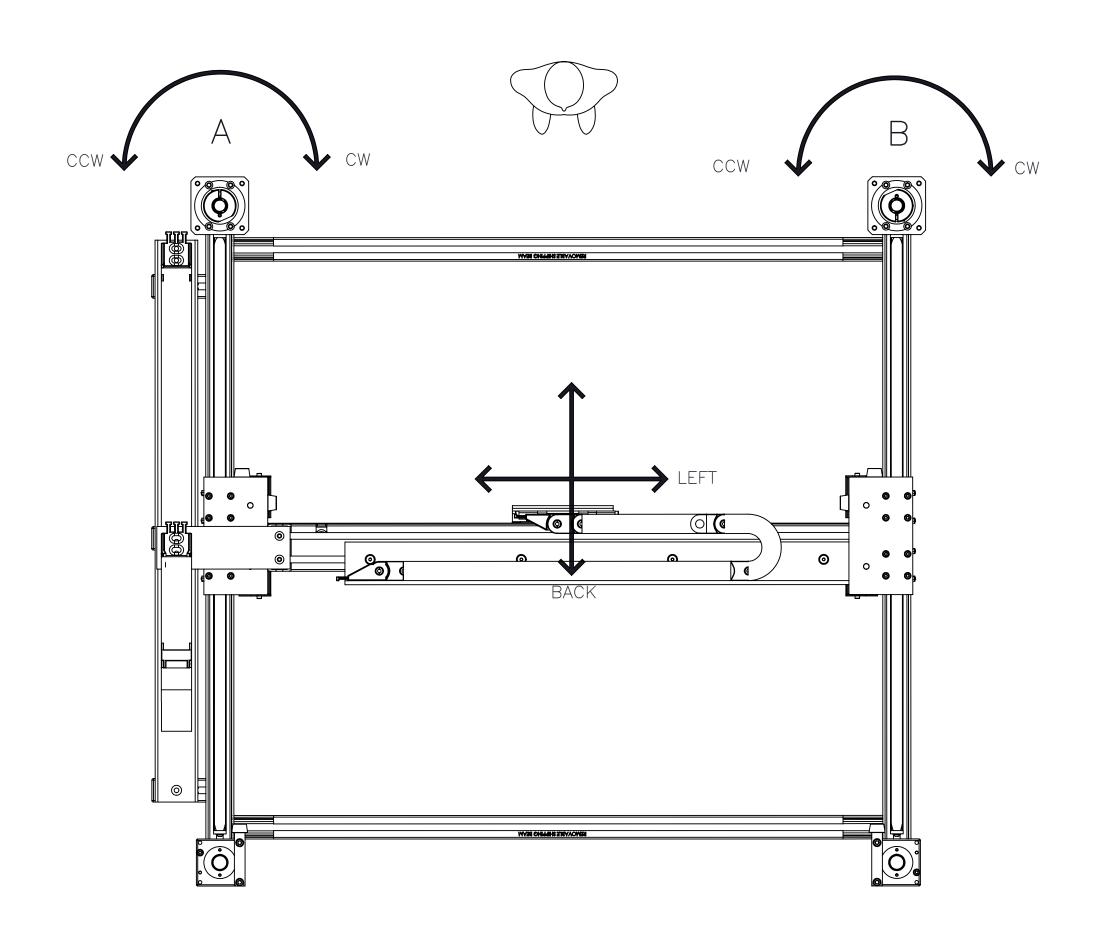
SHEET

MGS-HBG-12-X-X-X

O 3

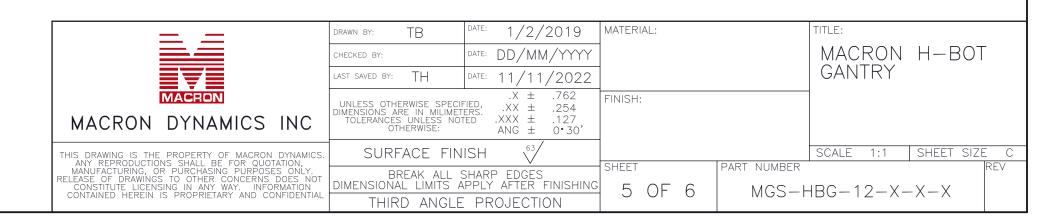
MOTOR DYNAMICS

(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		
Sensor Size	Fits all 8mm		
Selisul 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		

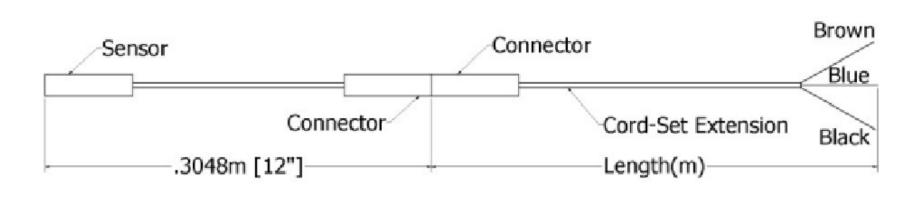
Part Number Configuration

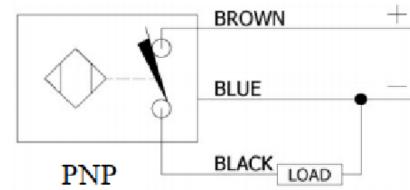
244-_ _ -_ _

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

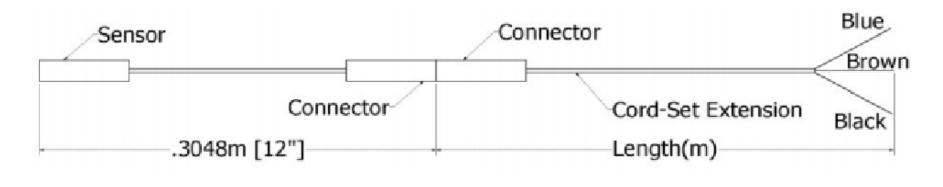
Example: PNP, normally closed, cord-set extension length 6 meters = 244-PNP-NC-06

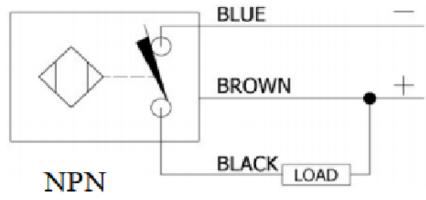
PNP Diagrams

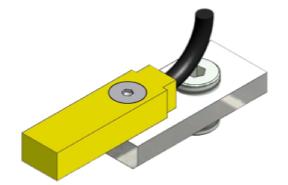


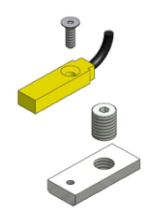


NPN Diagrams









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: JA	DATE: 11/11/2022				KIT	
MACRON DYNAMICS INC	UNLESS OTHERWISE SPEC DIMENSIONS ARE IN MILLIME TOLERANCES UNLESS NO OTHERWISE:	.X ± .762 IFIED, .XX ± .254 TTED .XXX ± .127 ANG ± .0•30'	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	DIMENSIONAL LIMITS A	SHARP EDGES PPLY AFTER FINISHING PROJECTION	6 OF	6	PART NUMBER SENS	SOR CALL—C	OUT REV