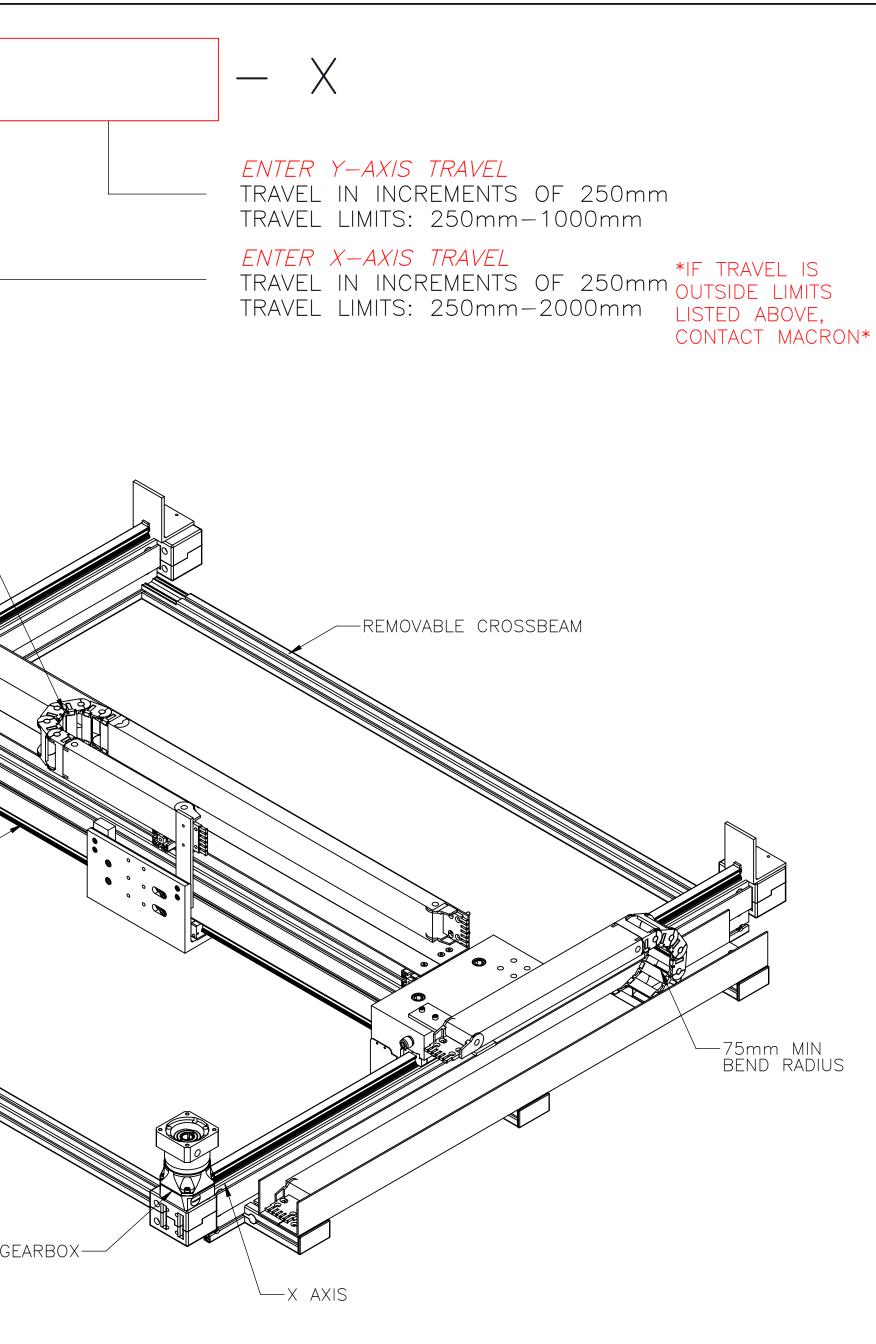
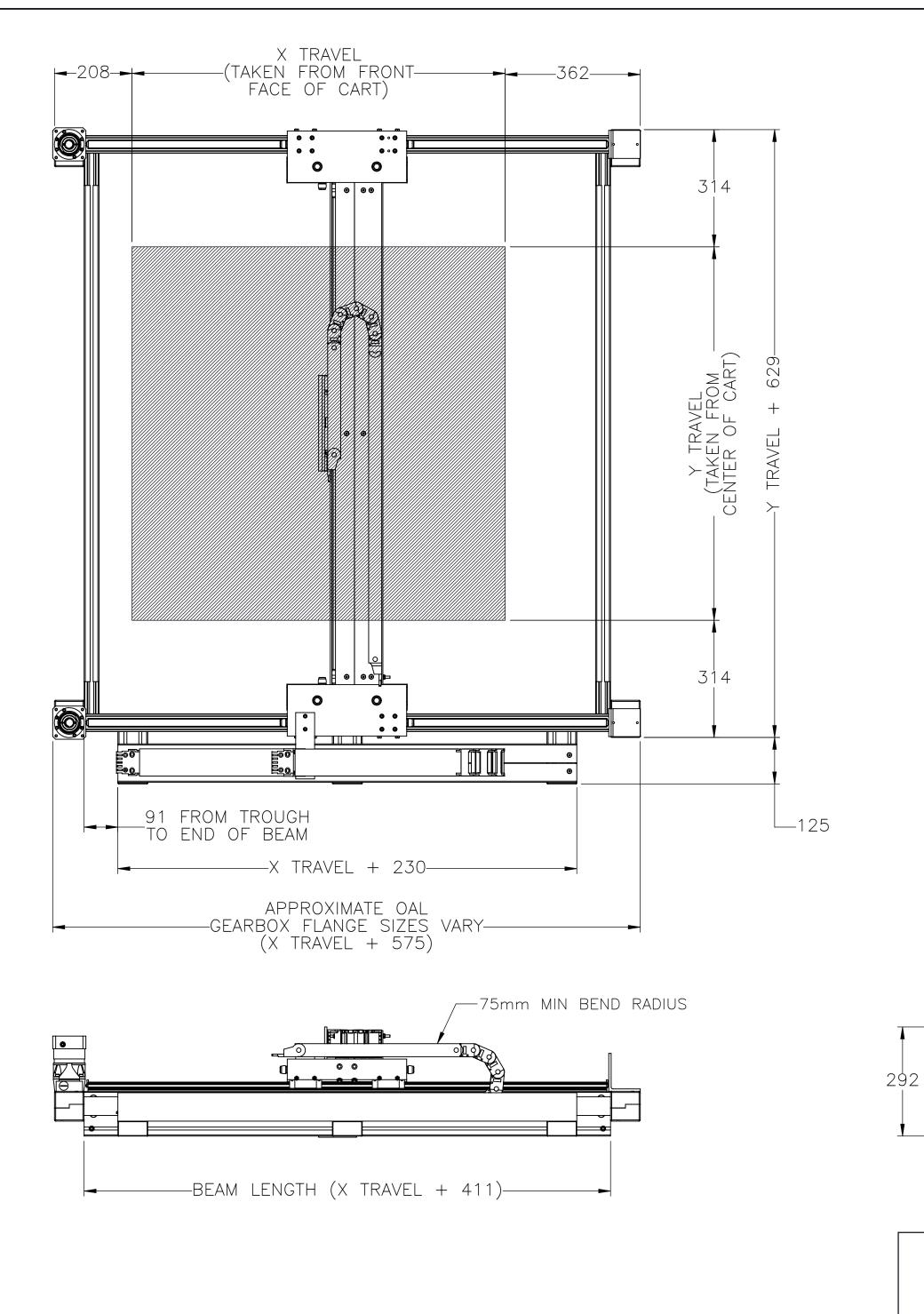
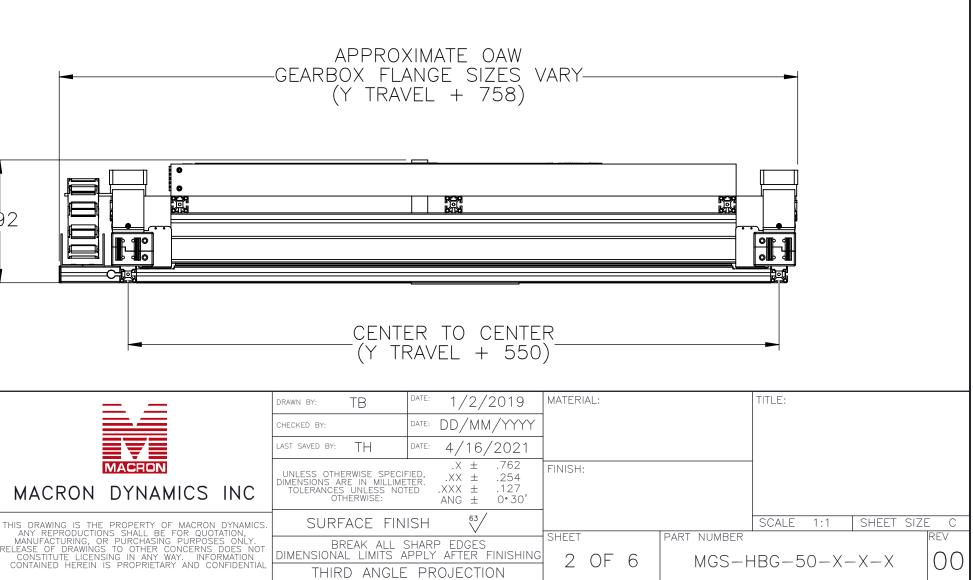
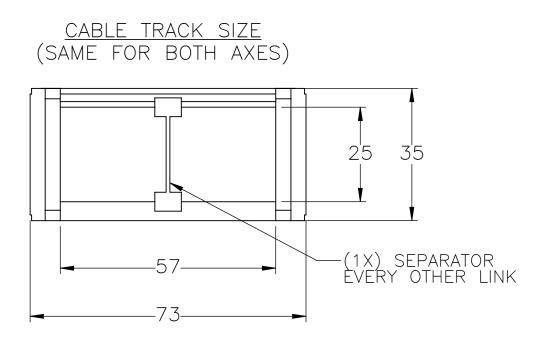
MGS-HBG-5 GEARBOX MODEL MPG-084MPG-114 MRG-084MRG-114	0 – X <i>ENTER Y-AXIS TRAVEL</i> TRAVEL IN INCREMENTS OF 250mm
RATIO: FOR DIRECT-DRIVE OPTION WITH MMKs (NO GEARBOXES) CHECK HERE: MOTOR INFORMATION	TRAVEL LIMITS: 250mm-1000mm <i>ENTER X-AXIS TRAVEL</i> TRAVEL IN INCREMENTS OF 250mm OUTSIDE LIMITS TRAVEL LIMITS: 250mm-2000mm LISTED ABOVE, CONTACT MACRON*
MANUFACTURER: MODEL: SENSOR INFORMATION X-AXIS: HOME-QTY244 EOT-QTY244	55mm MIN BEND RADIUS
SENSOR INFORMATION Y-AXIS: HOME-QTY244EOT-QTY244 (SEE T-SLOT SENSOR KIT SHEET FOR PART NUMBER CONFIGURATION)	-X' AXIS
MPG-084 GEARBOX	Y AXIS
REMOVABLE	CROSSBEAM
APPROVED:	DRAWN BY: TB DATE: 1/2/2019 MATERIAL: TITLE:   CHECKED BY: DATE: DD/MM/YYYY DATE: 4/16/2021 TITLE:
PO:REFERENCE#:	MACHON   X ± .762   FINISH:     MACRON DYNAMICS INC   UNLESS OTHERWISE SPECIFIED, .XX ± .254   FINISH:     UNLESS OTHERWISES NOTED   .XX ± .127     OTHERWISE:   ANG ± 0.30'     THIS DRAWING IS THE PROPERTY OF MACRON DYNAMICS. ANY REPRODUCTIONS SHALL BE FOR QUOTATION, MANUFACTURING, OR PURCHASING POR QUOTATION, CONSTITUTE LICENSING IN ANY WAY. INFORMATION CONSTITUTE LICENSING IN ANY WAY. INFORMATION   SURFACE FINISH   SHEET   PART NUMBER   REV MGS-HBG-50-X-X-X   POO



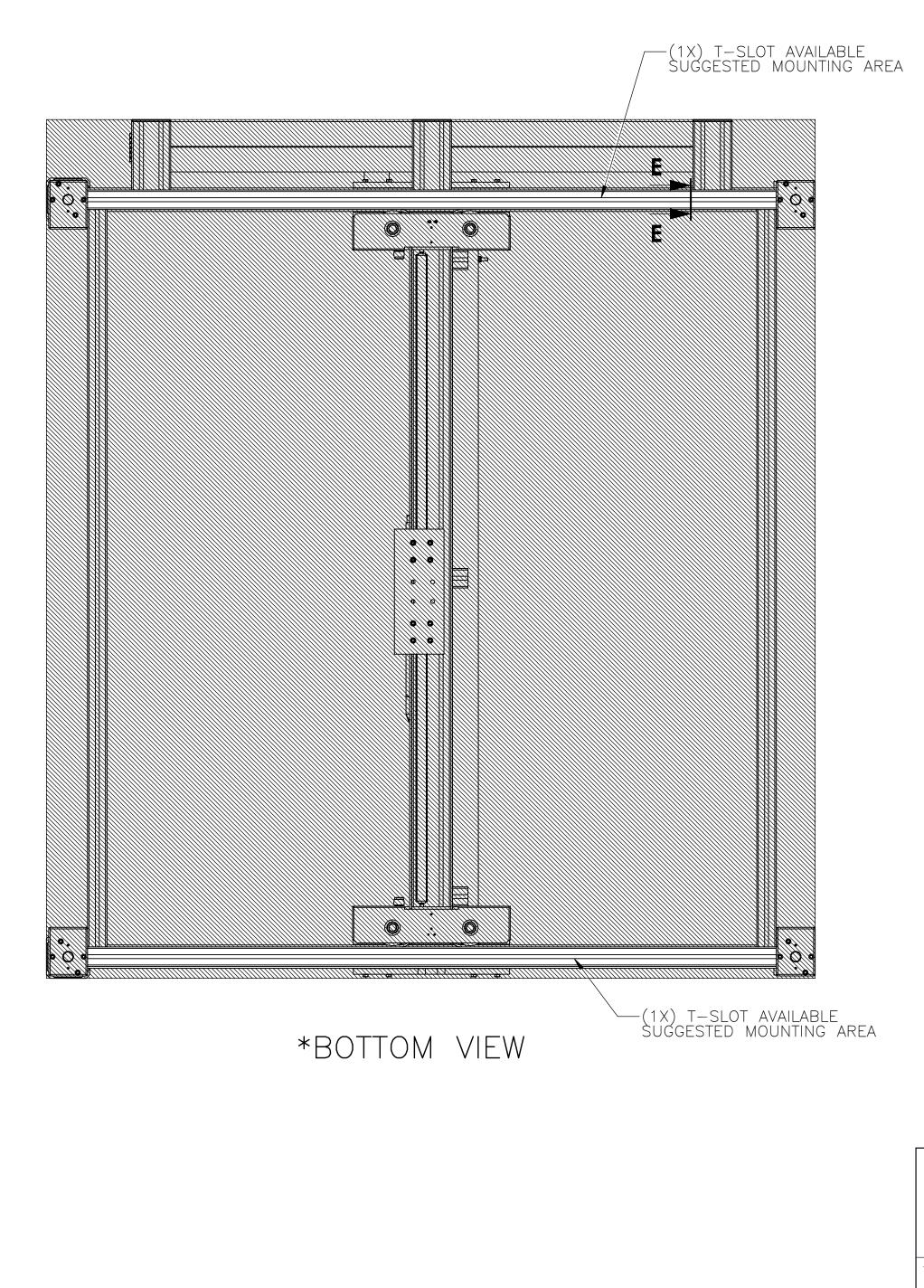


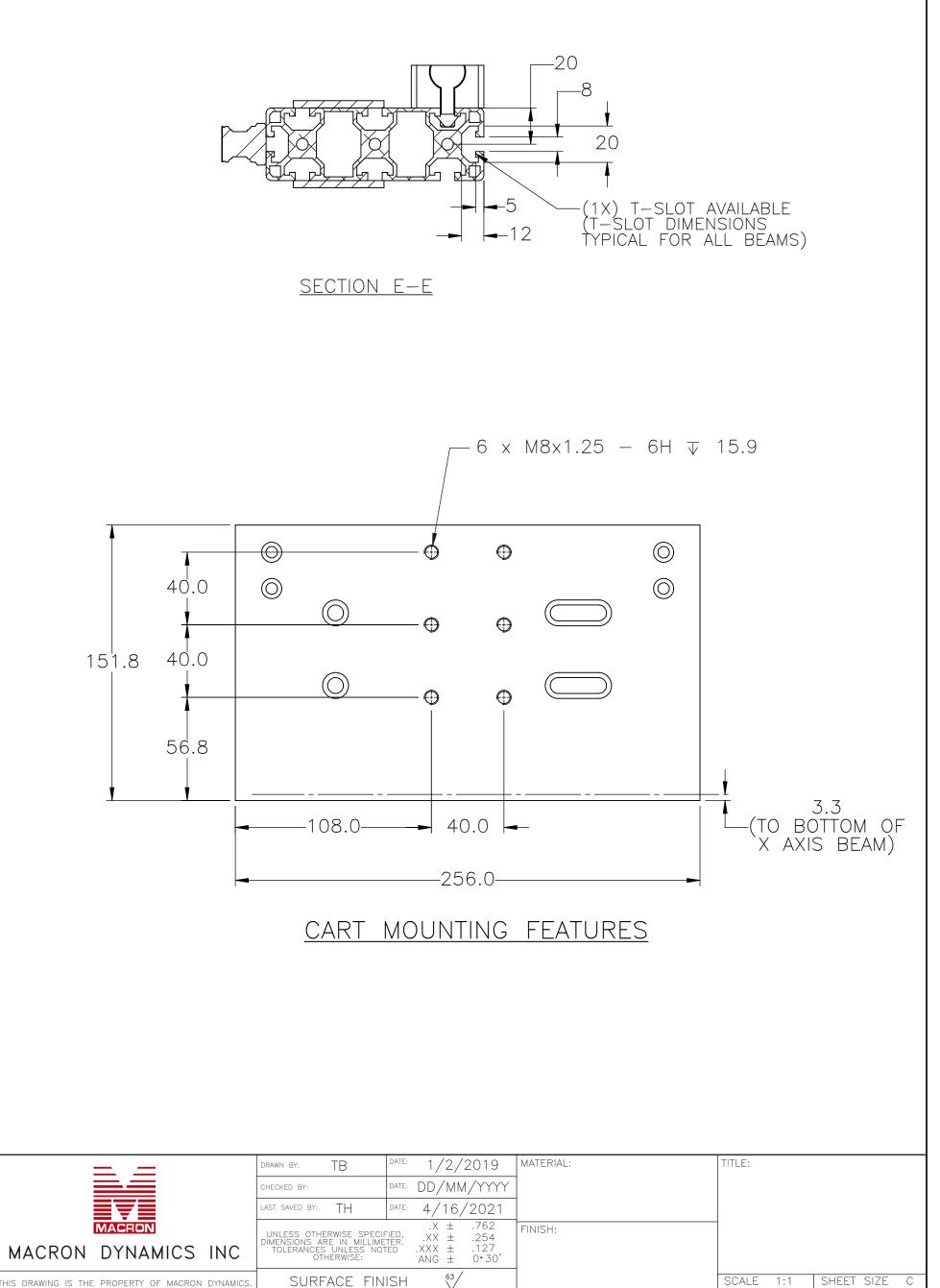


## GANTRY FOOTPRINT



## GANTRY MOUNTING FEATURES





THIS DRAWING IS THE PROPERTY OF MACRON DYNAMICS.	SURFACE FINISH	63					SCALE	1:1	SHEET
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	BREAK ALL SHARP		SHEET	ET		PART NUMBER	ER		
	DIMENSIONAL LIMITS APPLY		3	OF	6	MGS-H	HBG-5	,0-X-	-X-X

REV 00

# MOTOR SIZING WORKSHEET

### (INCREMENTAL ADDERS REFER TO MASS PER TRAVEL LENGTH)

<u>BASE TRAVELS USED:</u> <u>X TRAVEL</u> = 250mm <u>Y TRAVEL</u> = 250mm

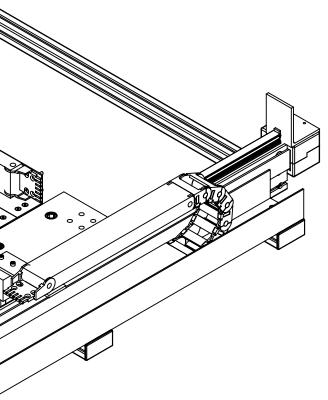
	<u>X AXIS</u> —
PROPERTY	BASE VALUE (T=250mm)
*MOVING MASS	2.296kg(+.023kg/25mm)
PULLEY PITCH Ø	47.75mm (1.88")
PULLEY WIDTH	28.9mm (1.14")
PULLEY MATERIAL	STEEL
TRAVEL PER REV	150mm

\*BELT MASS & Y-AXIS SYSTEM MASS NEEDS TO BE ADDED TO THIS

X-TRAV	EL =	mm						
					MPG-084	2.3kg		
Y–TRAV	LL =	mm		GEARBOX MASS (ADD	MPG-114	5.8kg		
	L SUPPLIED MAS			TO SYSTEM MASSES)	MRG-084	5.6kg		
CUSIOME	R COMPONENTS	(MOTORS, C	ABLES, EIC)		MRG-114	15.0kg		
TOTAL BELT MASS	(X TR	AVEL x .001	36) + (Y TRAVI	EL x .00068) +	1.05 = kg			
TOTAL SYSTEM MASS	(X TRAVEL x .0171) + (Y TRAVEL x .0263) + 63.43 = kg							
		drawn by: TB	DATE: 1/2/2019 MA	TERIAL:	TITLE:			
		CHECKED BY:	DATE: DD/MM/YYYY					
		last saved by: TH	DATE: 4/16/2021					
MACRON	DYNAMICS INC	UNLESS OTHERWISE SPEC DIMENSIONS ARE IN MILIME TOLERANCES UNLESS NO OTHERWISE:	TERSXX ± .254	ISH:				
THIS DRAWING IS TH	E PROPERTY OF MACRON DYNAMICS. ONS SHALL BE FOR QUOTATION,	SURFACE FIN				EET SIZE C		
MANUFACTURING, O RELEASE OF DRAWING CONSTITUTE LICEN	OR PURCHASING PURPOSES ONLY. IS TO OTHER CONCERNS DOES NOT ISING IN ANY WAY. INFORMATION IS PROPRIETARY AND CONFIDENTIAL	DIMENSIONAL LIMITS /	SHARP EDGES APPLY AFTER FINISHING E PROJECTION		-HBG-50-X-X-	-X		

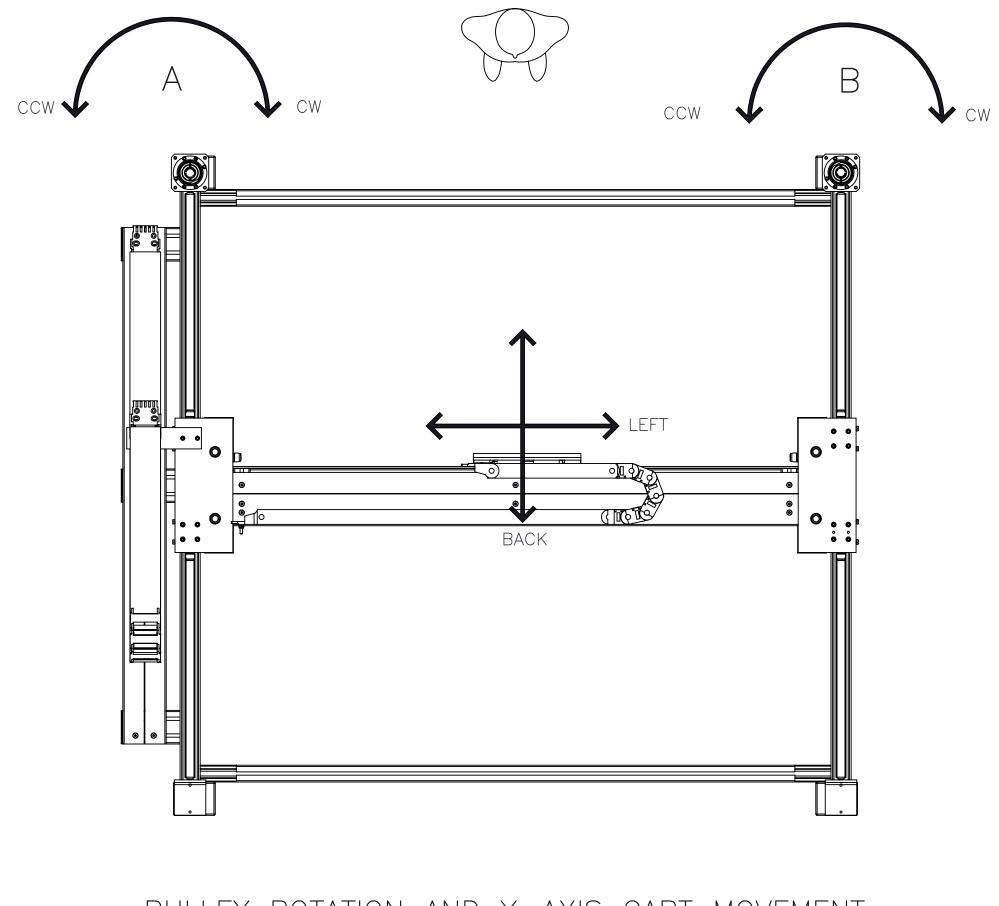
 Y	AXIS

PROPERTY	BASE VALUE (T=250mm)
MOVING MASS	9.887kg(+.023kg/25mm)
SYSTEM MASS	45.101kg(+.271kg/25mm)



# MOTOR DYNAMICS

### (ASSUMES MOTORS ARE ROTATING AT SAME ANGULAR VELOCITY)



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



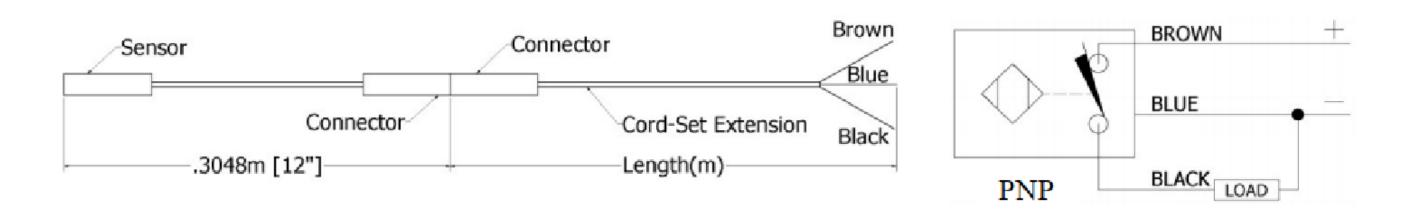
ROTATIONAL	DIRECTION	Y-AXIS CART MOVEMENT
PULLEY A	PULLEY B	
CW	CW	LEFT
CW	CCW	BACK
CCW	CW	FRONT
CCW	CCW	RIGHT

	drawn by: TB	DATE: 1/2/2019	MATERIAL:		TITLE:	
	CHECKED BY:	DATE: DD/MM/YYY	Y		MACRON	H-BOT
	last saved by: TH	DATE: 4/16/2027			GANTRY	
MACRON	UNLESS OTHERWISE SPECIF		FINISH:			
DYNAMICS INC	DIMENSIONS ARE IN MILIMET TOLERANCES UNLESS NOT OTHERWISE:	ERS.				
HE PROPERTY OF MACRON DYNAMICS. IONS SHALL BE FOR QUOTATION,	SURFACE FIN	ISH 53		1	SCALE 1:1	SHEET SIZE C
OR PURCHASING PURPOSES ONLY. IGS TO OTHER CONCERNS DOES NOT NSING IN ANY WAY. INFORMATION	BREAK ALL S DIMENSIONAL LIMITS A	SHARP EDGES Apply After Finishi		PART NUMBER		REV
NSING IN ANT WAT. INFORMATION N IS PROPRIETARY AND CONFIDENTIAL		PROJECTION	5 OF 6	MGS-F	IBG-50-X-	-X-X

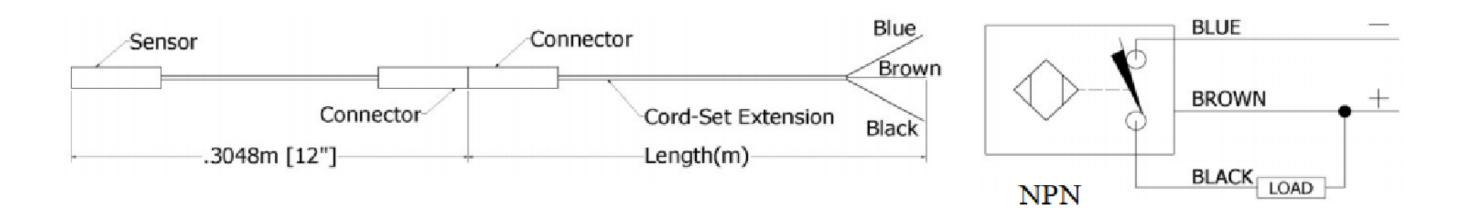
## SPECIFICATIONS

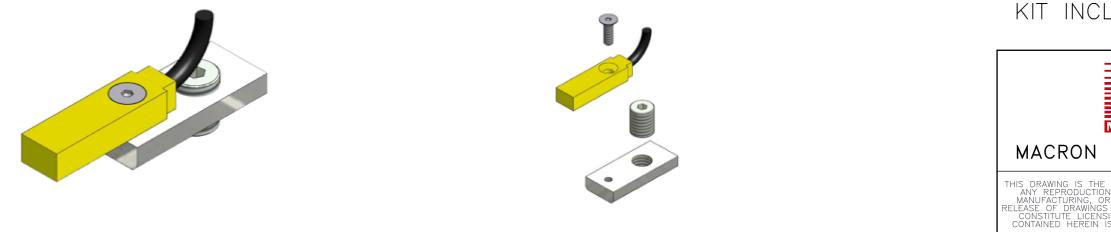
Sensor Type	Inductive
Sensor Size	Fits all 8mm
	wide T-Slots
Operating Voltage	10-30 VDC
Voltage Drop Across Conducting Sensor	≤1.8 V at 100 mA
Number of Conductors (AWG)	3x26 AWG
Temperature Range	-40°C to 105°C

#### **PNP Diagrams**



#### NPN Diagrams





## 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

KIT INCLUDES - SENSOR, CORDSET EXTENSION, AND MOUNTING HARDWARE

	drawn by: JA	DATE: 1/2/2019	MATERIAL:		TITLE:	
	CHECKED BY:	DATE: DD/MM/YYYY			T-SLOT SENS	DR
	last saved by: TH	DATE: 4/16/2021			KIT	
MACRON	UNLESS OTHERWISE SPEC	JIFIED, VV + OFA	FINISH:			
N DYNAMICS INC	DIMENSIONS ARE IN MILLIME TOLERANCES UNLESS NO OTHERWISE:	EIERS.				
S THE PROPERTY OF MACRON DYNAMICS. UCTIONS SHALL BE FOR QUOTATION,	SURFACE FIN	ISH 53			SCALE 1:1 SHEET SIZ	
NG, OR PURCHASING PURPOSES ONLY. WINGS TO OTHER CONCERNS DOES NOT LICENSING IN ANY WAY. INFORMATION		SHARP EDGES APPLY AFTER FINISHING	sheet 6 OF 6	PART NUMBER	SOR CALL-OUT	REV
REIN IS PROPRIETARY AND CONFIDENTIAL	THIRD ANGLE	PROJECTION			STR SALE OUT	