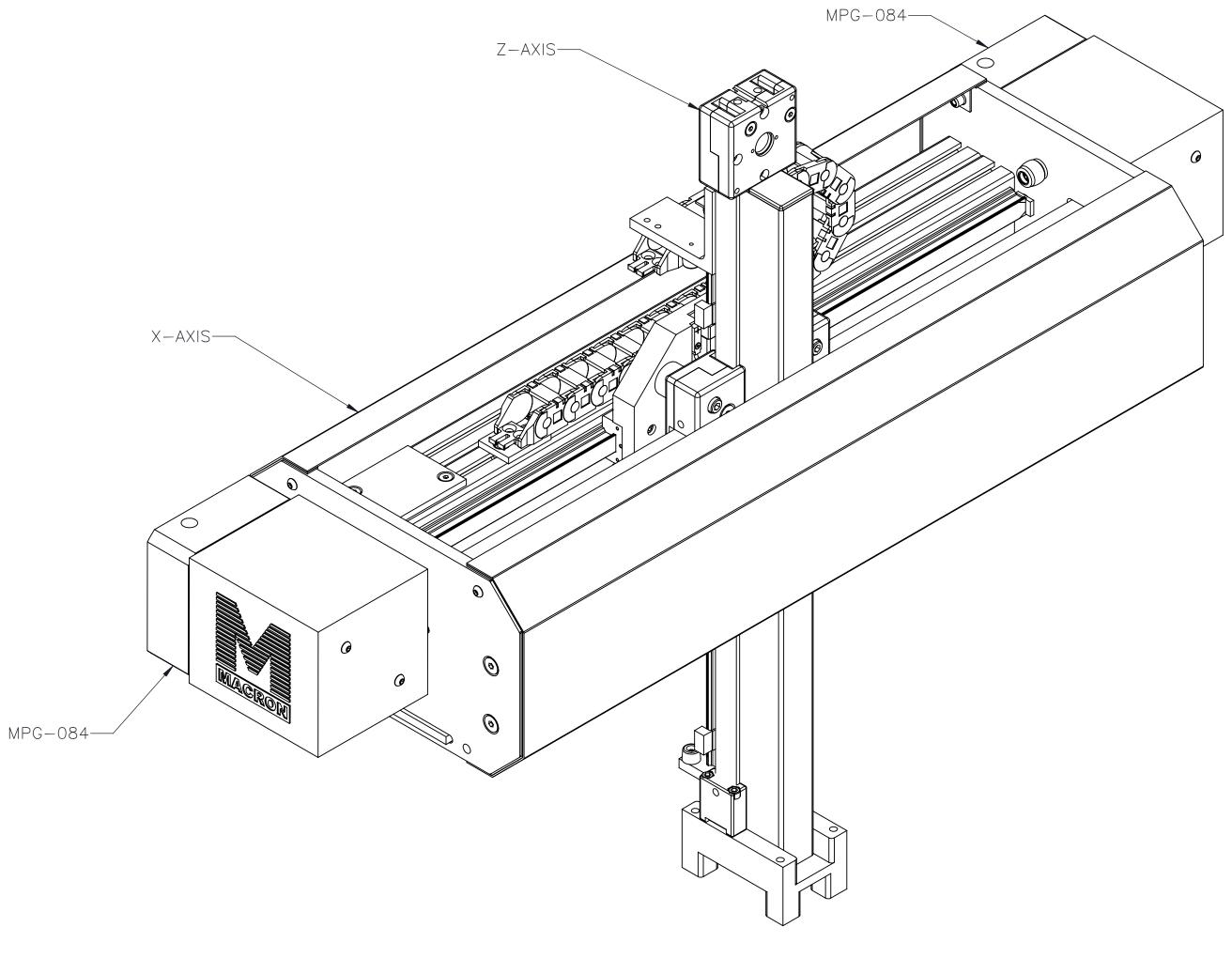
MGS-TBG-25-MPG-084-Z-AXIS-

ENTER Z-AXIS TRAVEL
TRAVEL IN INCREMENTS OF 250mm
TRAVEL LIMITS: 250mm-750mm

ENTER X-AXIS TRAVEL
TRAVEL IN INCREMENTS OF 500mm
TRAVEL LIMITS: 500mm-2000mm

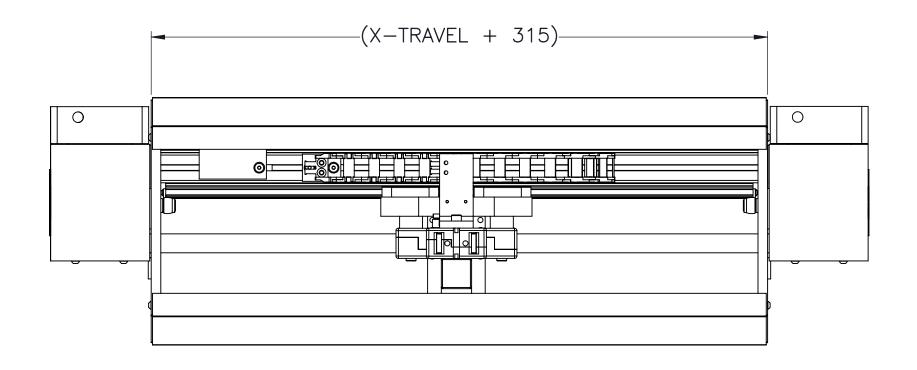


	MACRO	N		
MACRON	DYNA	MI	CS	INC
THIS DRAWING IS THE	PROPERTY	OF M	ACRON	DYNAMIC

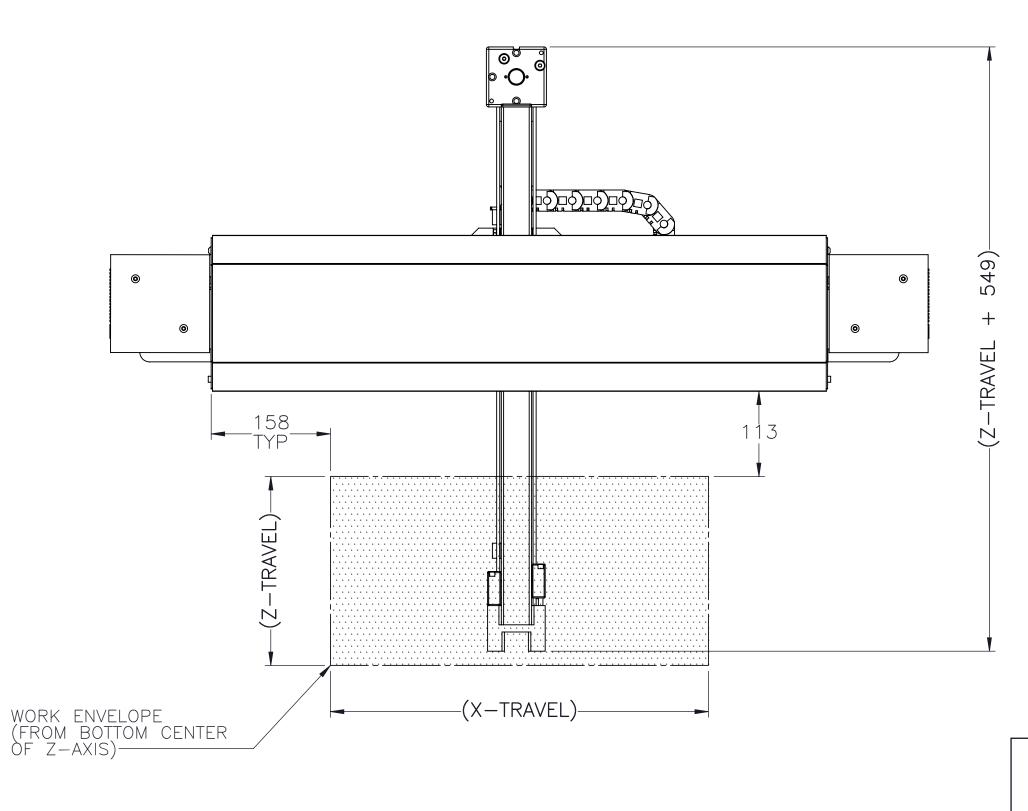
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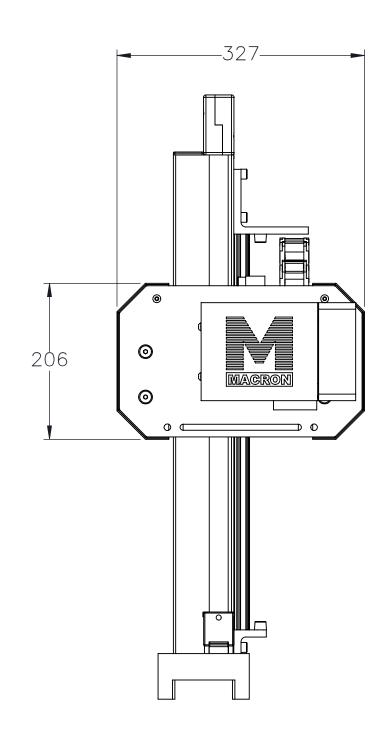
WN BY: JB DATE: 2/10	0/2016	MATERI	AL:		TITLE:		TDO	0.5	
TOKKED BY: $$ DATE: $2/1$	1/2016				l l	CRON NTRY	IBG	25	
r saved By:Blutinger   DATE: 2/10	6/2016				GAI	N I IT I			
INLESS OTHERWISE SPECIFIED, .XX ± MENSIONS ARE IN MILLIMETERSXX ± TOLERANCES UNLESS NOTED .XXX ± OTHERWISE: ANG ±	.254	FINISH:	:						
SURFACE FINISH \( \sigma^{63} \)	5/				SCALE	1:1	SHEET		С
BREAK ALL SHARP EDGE MENSIONAL LIMITS APPLY AFTER		SHEET 1	OF 5	PART NUMBE	ER —TBG—	25-X-	-X-X	RE	:∨ ``

THIRD ANGLE PROJECTION

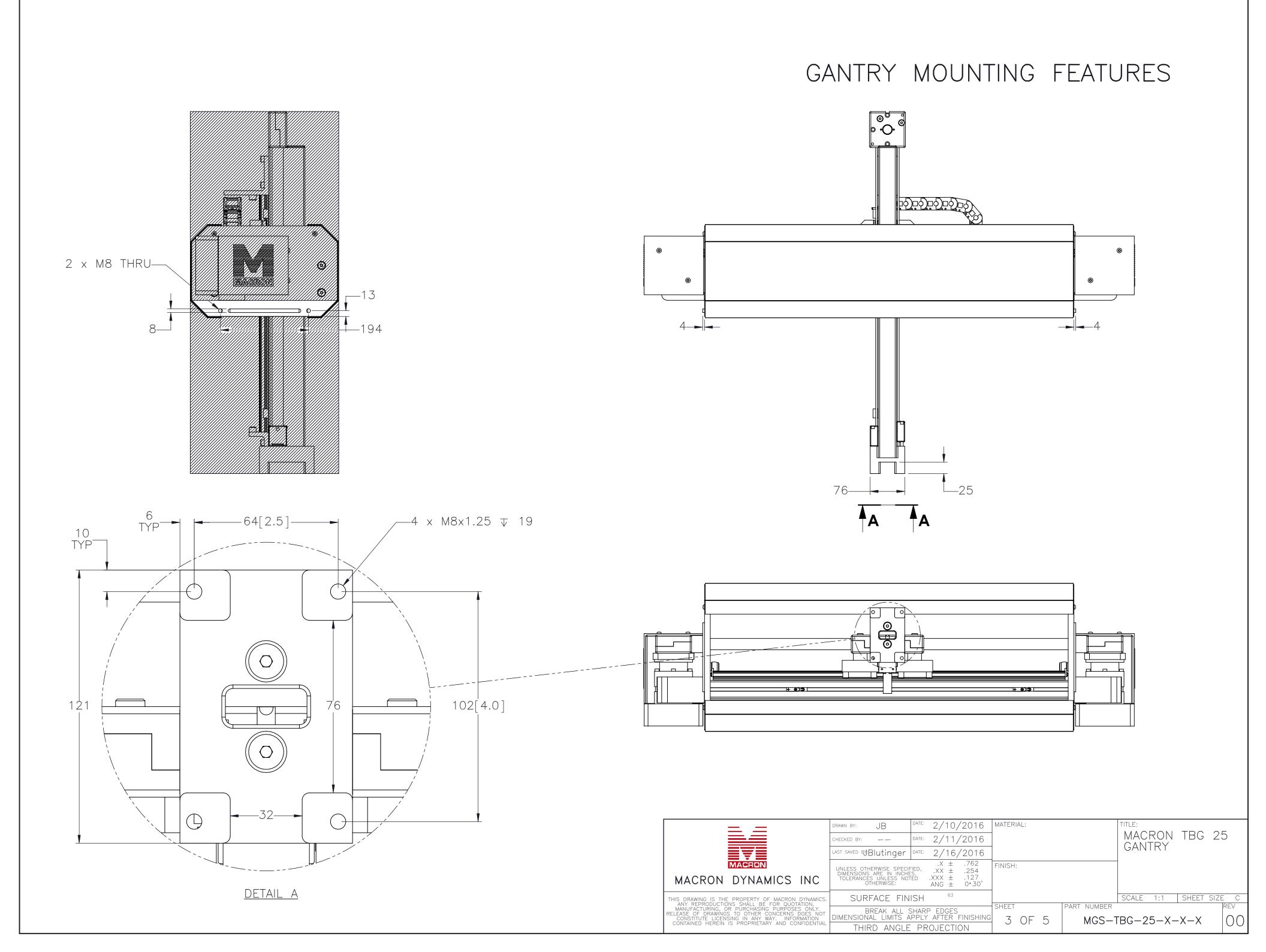


## GANTRY FOOTPRINT



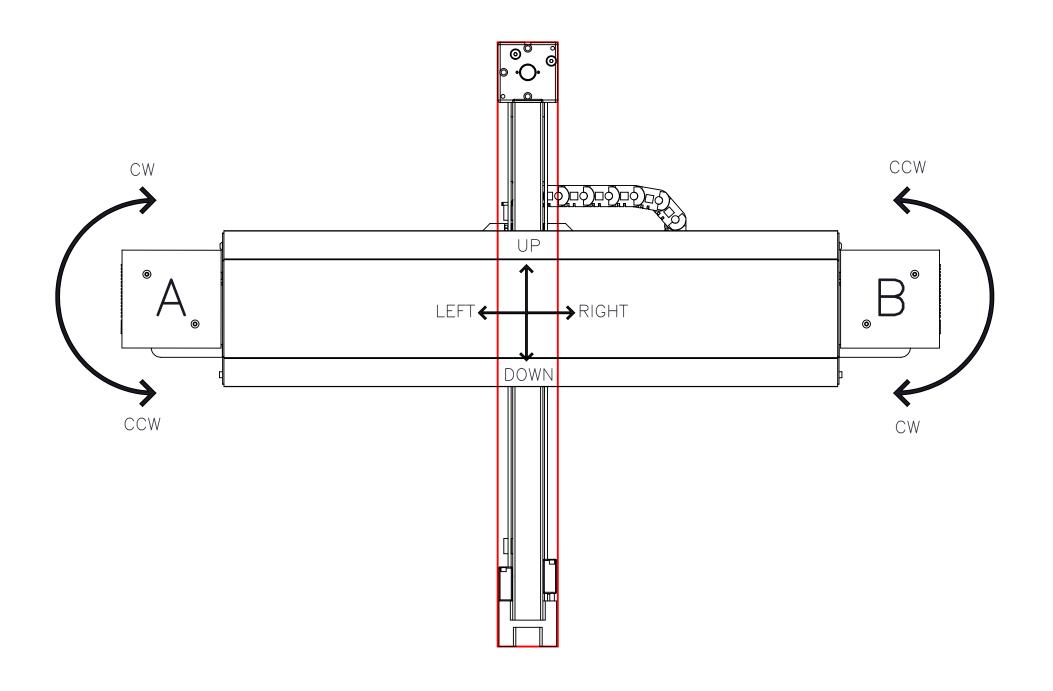


<u> </u>	DRAWN BY: JB	DATE: 2/10/2016	MATERIAL:		TITLE:		
	CHECKED BY: ——	DATE: 2/11/2016				TBG 2	<u>2</u> 5
	LAST SAVED BY:Blutinger	DATE: 2/16/2016			GANTRY		
MAGRON MACRON DYNAMICS INC	UNLESS OTHERWISE SPECI DIMENSIONS ARE IN INCH TOLERANCES UNLESS NO OTHERWISE:	.X ± .03 IFIED, .XX ± .010 ESXXX ± .005 ANG ± 0°30'	FINISH:				
THIS DRAWING IS THE PROPERTY OF MACRON DYNAMICS.	SURFACE FIN	IISH <sup>63</sup>			SCALE 1:1	SHEET SIZ	
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	DIMENSIONAL LIMITS A	SHARP EDGES APPLY AFTER FINISHING F PROJECTION		PART NUMBER  MGS-7	BG-25-X-	-X-X	00



## MOTOR DYNAMICS

(ASSUMES MOTORS ARE ROTATING AT SAME ANGULAR VELOCITY)



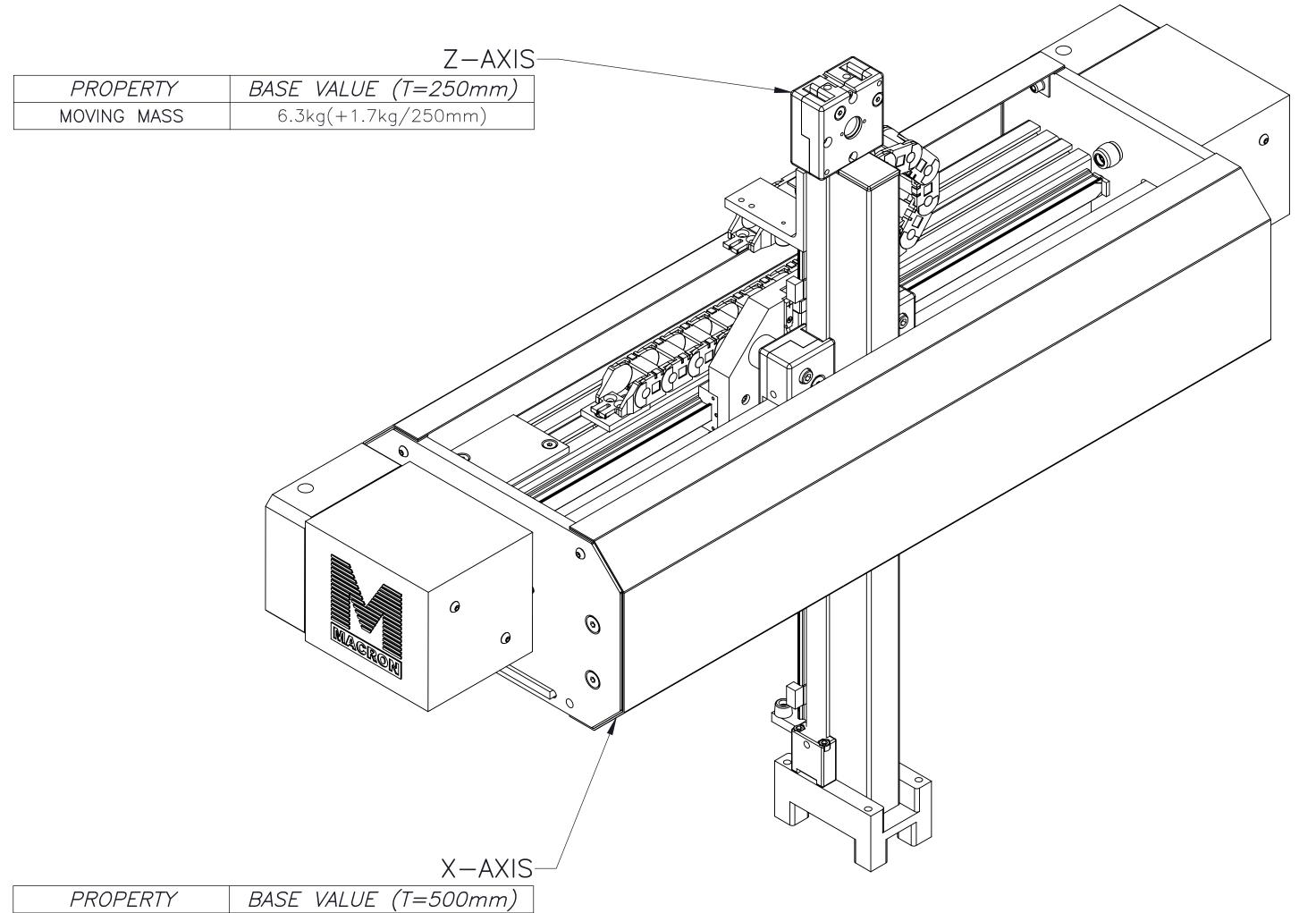
ROTATIONAL	Z-AXIS	
PULLEY A	PULLEY B	MOVEMENT
CW	CW	RIGHT
CW	CCW	UP
CCW	CW	DOWN
CCW	CCW	LEFT

PULLEY ROTATION AND Z-AXIS MOVEMENT ARE WITH RESPECT TO THE THIS GANTRY VIEW

<u> </u>	drawn by: JB	DATE: 2/10/2016	MATERIAL:			TITLE:	TD0 (	\
<b>—</b>	CHECKED BY: — —	DATE: 2/11/2016				MACRON GANTRY	TBG 2	25
	LAST SAVED BY:Blutinger	DATE: 2/16/2016				GANTRI		
MACFON  MACRON DYNAMICS INC	UNLESS OTHERWISE SPECIF DIMENSIONS ARE IN INCHE TOLERANCES UNLESS NOT OTHERWISE:	X ± .762 FIED, .XX ± .254 ESXXX ± .127 ANG ± 0°30'	FINISH:					
THIS DRAWING IS THE PROPERTY OF MACRON DYNAMICS. ANY REPRODUCTIONS SHALL BE FOR QUOTATION,	SURFACE FIN	IISH <sup>63</sup>				SCALE 1:1	SHEET SI	
MANUFACTURING, OR PURCHASING PURPOSES ONLY. RELEASE OF DRAWINGS TO OTHER CONCERNS DOES NOT CONSTITUTE LICENSING IN ANY WAY. INFORMATION		SHARP EDGES APPLY AFTER FINISHING	SHEET 4 OF	5	PART NUMBER  MGS—T	BG-25-X-	-X-X	REV
CONTAINED HEREIN IS PROPRIETARY AND CONFIDENTIAL	THIRD ANGLE	PROJECTION	1 01		14100 1	DO 20 A	^ ^	

## MOTOR SIZING INFORMATION

(INCREMENTAL ADDERS REFER TO MASS PER TRAVEL LENGTH)



X-TRAVEL	=	mm

 $Z-TRAVEL = \underline{mm}$ 

	· · · · · · · · · · · · · · · · · · ·
*MOVING MASS	6.3kg(+0.1kg/500mm)
PULLEY PITCH ∅	47.75mm (1.88")
PULLEY WIDTH	28.9mm (1.14")
PULLEY MATERIAL	STEEL

TRAVEL PER REV	150mm
*ADD MOVING MA	ASS OF Z-AXIS TO VALUE

Z-AXIS	MOVING MASS {1}	$(Z-TRAVEL \times .0068) + 4.57$
X-AXIS	MOVING MASS	$(X-TRAVEL \times .0001) + 6.26 + \{1\}$
	BELT MASS	$[(X-TRAVEL + Z-TRAVEL) \times .0006] + 0.64$

	<b>=</b> 7 =	
	BAACECNI	
	MACRON	
1440001	D) ()   1   1   0   0	
MV(.SUN)	DYNAMICS	INIC,
MACION	DINAMICS	1110

	_ \	,	
rawn by: JB	DATE: 2/10/2016	MATERIAL:	TITLE:
HECKED BY: ——	DATE: 2/11/2016		MACRON TBG 25 GANTRY
ST SAVED BY:Blutinger	DATE: 2/16/2016		GANTRI
JNLESS OTHERWISE SPEC DIMENSIONS ARE IN INCI TOLERANCES UNLESS N OTHERWISE:	HES +	FINISH:	

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SURFACE FINISH

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

SCALE 1:1 SHEET SIZE C

SHEET

S