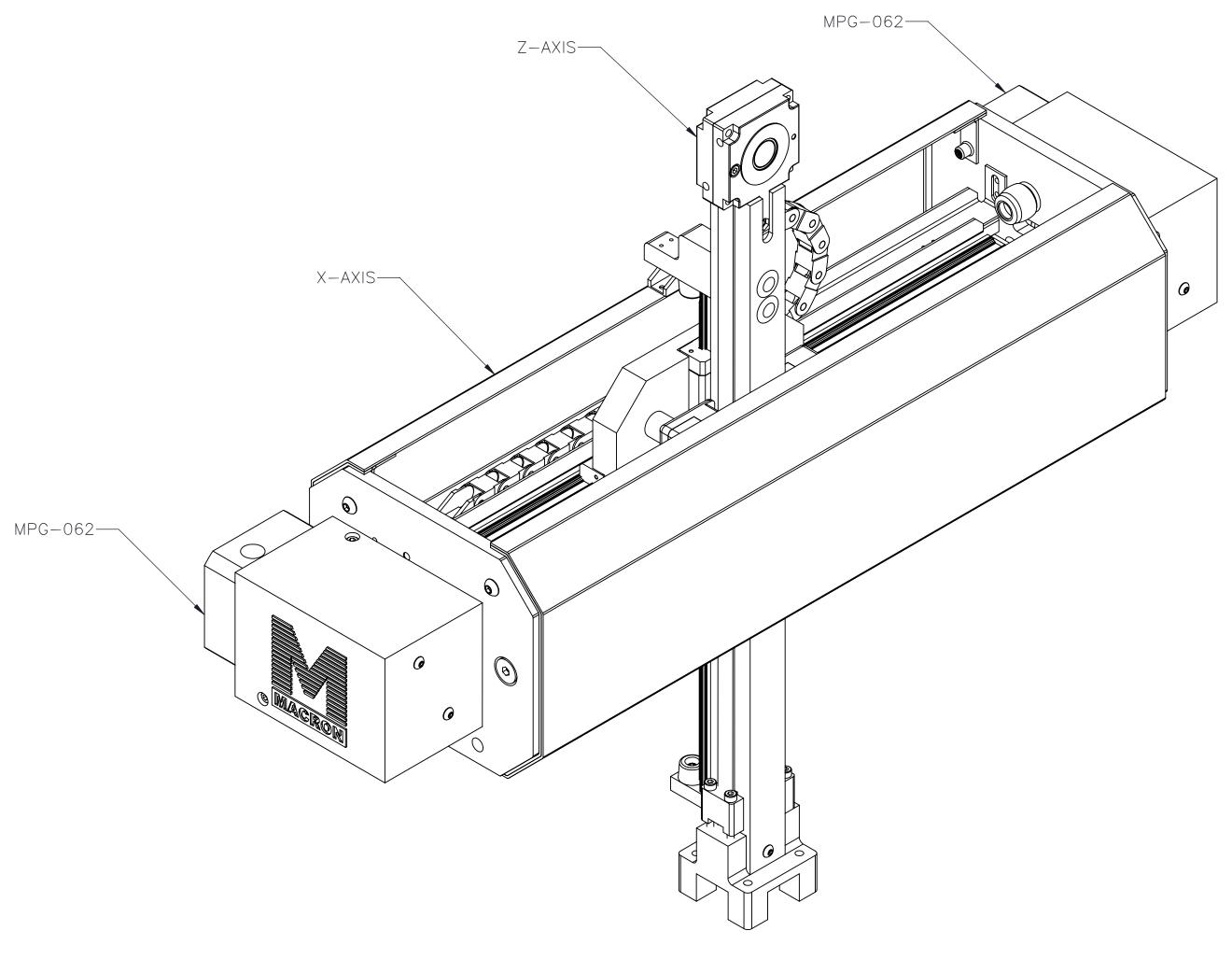
MGS-TBG-12--X-

ENTER Z-AXIS TRAVEL
TRAVEL IN INCREMENTS OF 125mm
TRAVEL LIMITS: 125mm-500mm

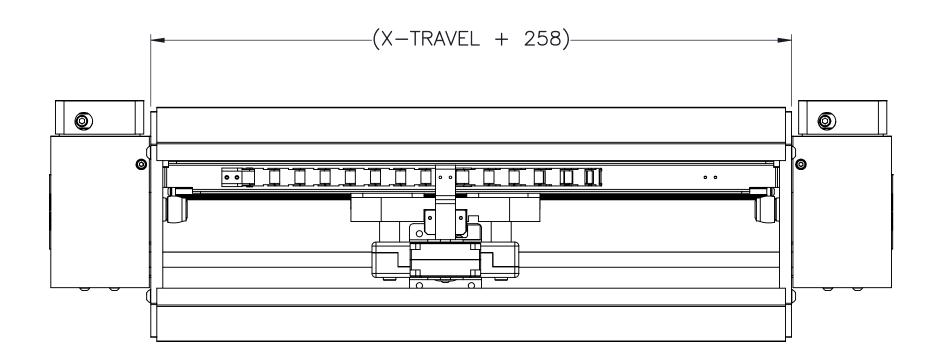
ENTER X-AXIS TRAVEL
TRAVEL IN INCREMENTS OF 250mm
TRAVEL LIMITS: 250mm-1000mm

MACRON TBG 12 GANTRY

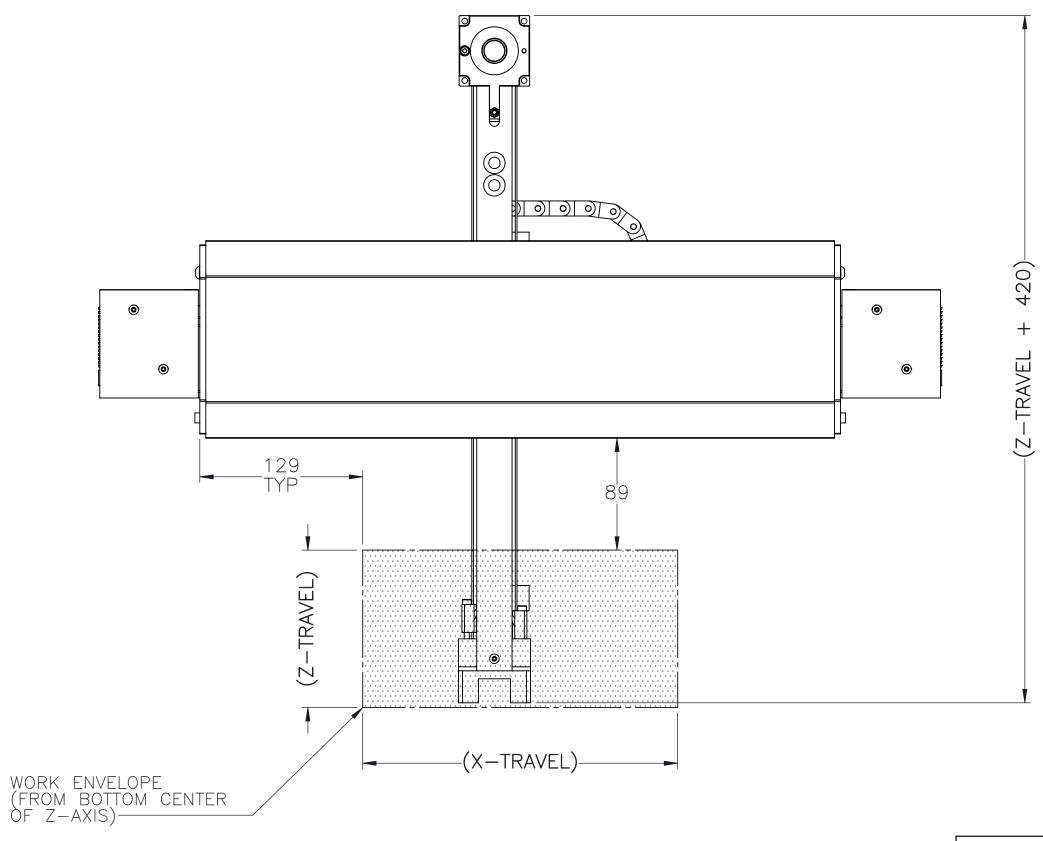
SCALE 1:1 SHEET SIZE C

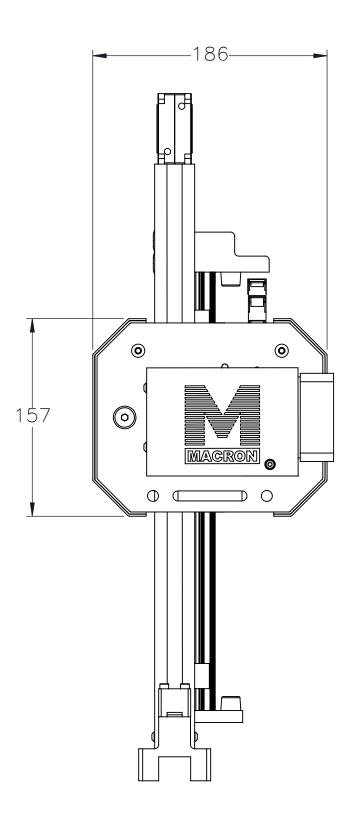


_ <i>_</i>	DRAWN BY: JB	DATE: 2/10/2016	MATERIAL:	TITLE:
<b>=</b>	CHECKED BY: — —	DATE: 2/11/2016		MACRON TBG
▋▜▋	LAST SAVED BY:Blutinger	DATE: 2/16/2016		GANTRY
MACHON  MACRON DYNAMICS INC	UNLESS OTHERWISE SPEC DIMENSIONS ARE IN MILLIME TOLERANCES UNLESS NO OTHERWISE:	TERS + .434	FINISH:	
THIS DRAWING IS THE PROPERTY OF MACRON DYNAMICS.	SURFACE FIN	ISH 63/		SCALE 1:1 SHEET
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CONTAINED HEREIN IS PROPRIETARY AND CONFIDENTIAL	THIRD ANGLE	PROJECTION	101 0 1000 1	



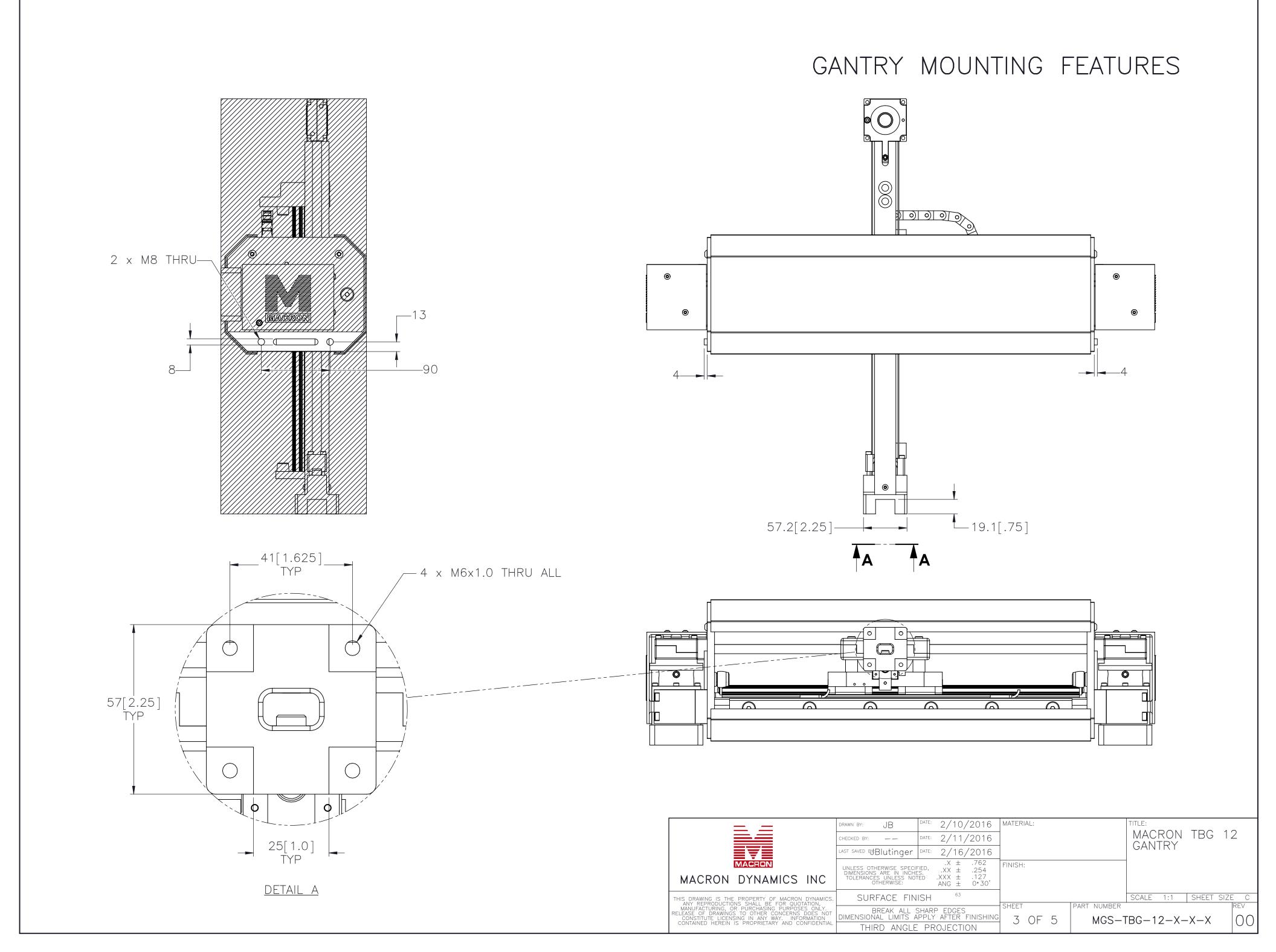
## GANTRY FOOTPRINT





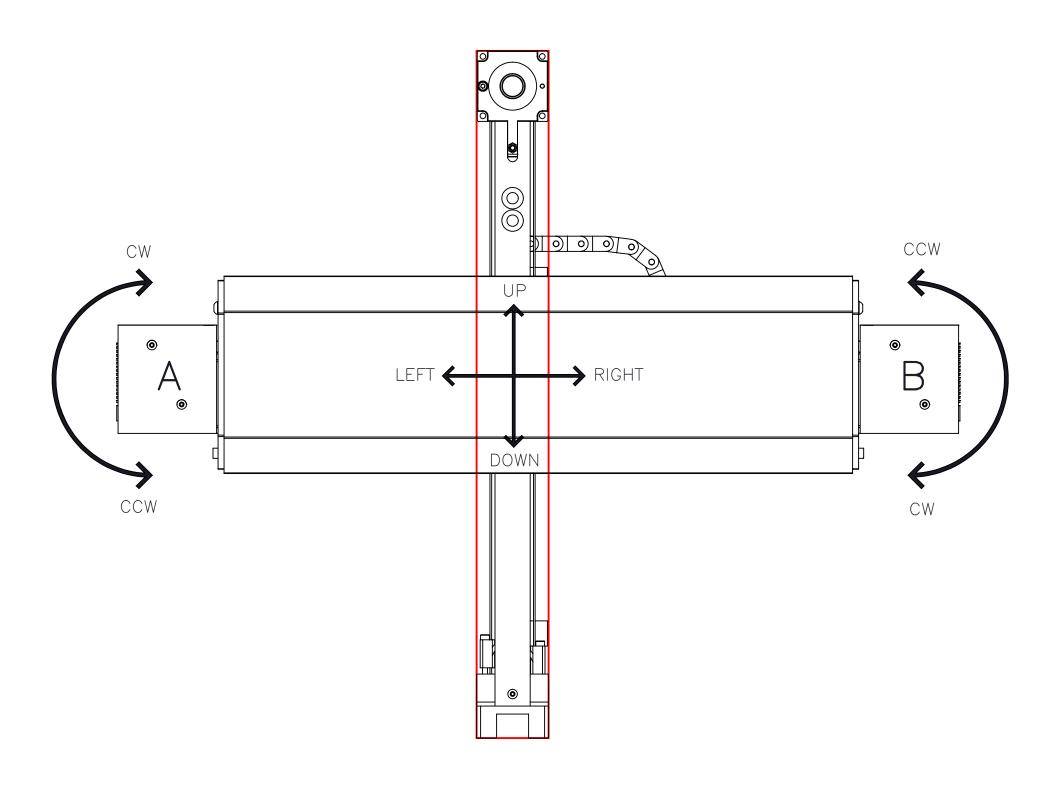
	<b>=</b>	
	MACRON	
MACRON	DYNAMICS	INC
	PROPERTY OF MACRON	

	DRAWN BY: JB	DATE: 2/10/2016	MATERIAL:		TITLE:		
	CHECKED BY: — —	DATE: 2/11/2016			MACRON GANTRY	IBG	12
	LAST SAVED BY:Blutinger	DATE: 2/16/2016			GANTRI		
SINC	UNLESS OTHERWISE SPECIF DIMENSIONS ARE IN INCHE TOLERANCES UNLESS NOT OTHERWISE:	ESAA I .UIU	FINISH:				
ON DYNAMICS.	SURFACE FIN	IISH <sup>63</sup>			SCALE 1:1	SHEET S	,
UOTATION, OSES ONLY. NS DOES NOT IFORMATION CONFIDENTIAL	DIMENSIONAL LIMITS A	SHARP EDGES APPLY AFTER FINISHING	SHEET 2 0	MGS-T	BG-12-X-	-X-X	REV
	THIRD ANGLE	PROJECTION					



## MOTOR DYNAMICS

(ASSUMES MOTORS ARE ROTATING AT SAME ANGULAR VELOCITY)



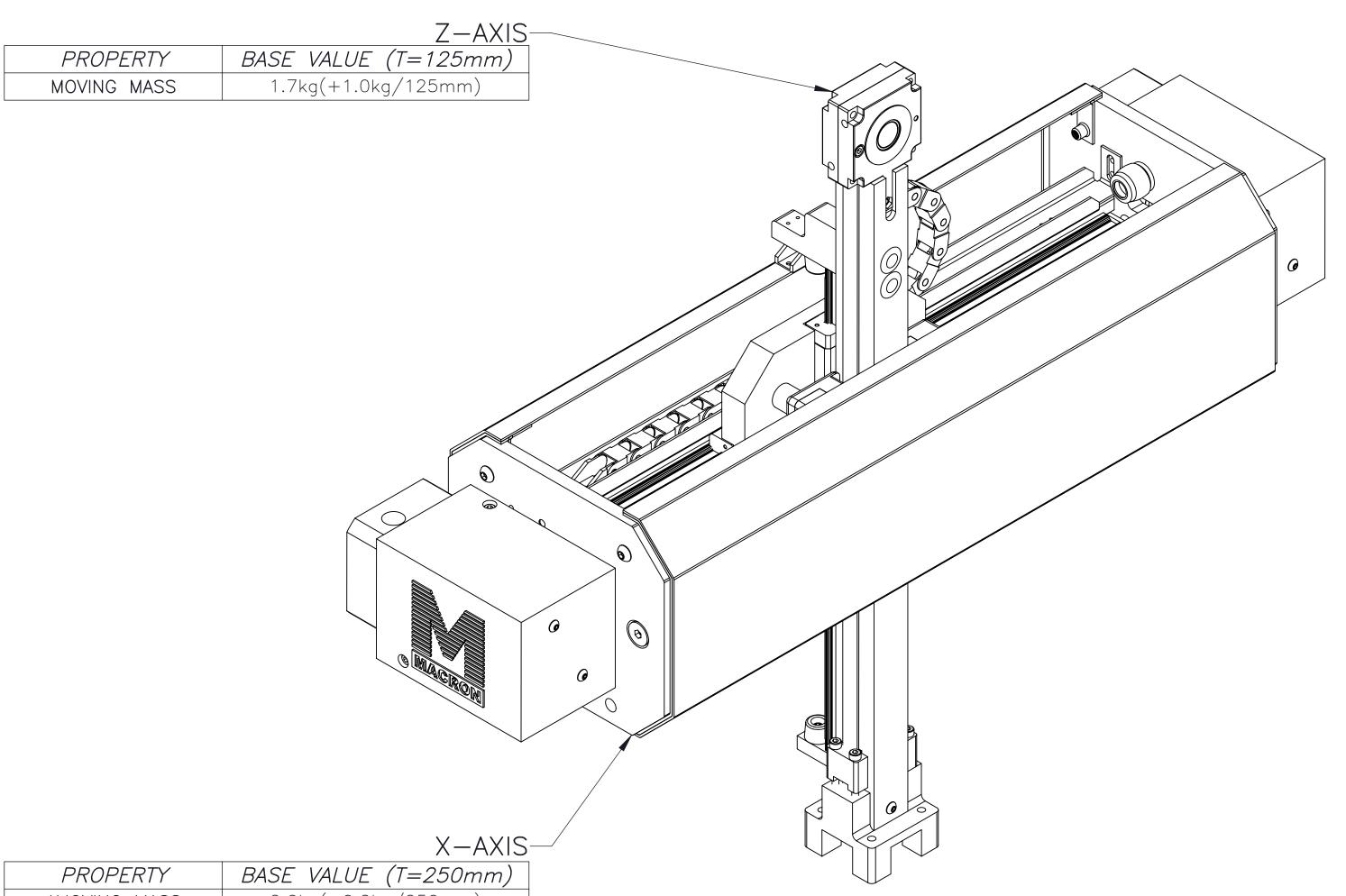
ROTATIONAL	Z-AXIS	
PULLEY A	PULLEY B	MOVEMENT
CW	CW	RIGHT
CW	CCW	UP
CCW	CW	DOWN
CCW	CCW	LEFT

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:	TD 0 4 0	
	CHECKED BY: — —	DATE: 2/11/2016			MACRON   GANTRY	TBG 12	
	LAST SAVED BY:Blutinger	DATE: 2/16/2016			GANTRI		
MACHON	UNLESS OTHERWISE SPECI DIMENSIONS ARE IN INCHE	.X ± .762 FIED, .XX ± .254	FINISH:				
MACRON DYNAMICS INC	TOLERANCES UNLESS NO OTHERWISE:	.XXX ± .127 ANG ± 0°30'					
THIS DRAWING IS THE PROPERTY OF MACRON DYNAMICS.  ANY REPRODUCTIONS SHALL BE FOR QUOTATION,	SURFACE FIN	ISH 63			SCALE 1:1	SHEET SIZE	С
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	SHARP EDGES APPLY AFTER FINISHING		PART NUMBER  MGS-T	BG-12-X-	X-X	
CONTAINED HEREIN IS PROPRIETARY AND CONFIDENTIAL	THIRD ANGLE	PROJECTION		1,4100 1		^	

## MOTOR SIZING INFORMATION

(INCREMENTAL ADDERS REFER TO MASS PER TRAVEL LENGTH)



X-TRAVEL = <u>mm</u>

 $Z-TRAVEL = \underline{mm}$ 

PROPERTY	BASE VALUE (T=250mm)
*MOVING MASS	2.0kg(+0.2kg/250mm)
PULLEY PITCH ∅	33.42mm (1.32")
PULLEY WIDTH	16.3mm (.64")
PULLEY MATERIAL	STEEL
TRAVEL PER REV	105mm
*ADD MOVING MA	ASS OF Z—AXIS TO VALUE

Z-AXIS MOVING MASS {1}	$(Z-TRAVEL \times .0080) + 0.68 = kg$
X-AXIS MOVING MASS	$(X-TRAVEL \times .0006) + 1.76 + \{1\} = kg$
BELT MASS	$[(X-TRAVEL + Z-TRAVEL) \times .0002] + 0.16 = kg$

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	MACRON
440001	DVALA
MACRON	DANVI

RAWN BY: JB	DATE:	2/10/	2016	MATERIAL:
HECKED BY: ——	DATE:	2/11/	′2016	
st saved &Blutinger	DATE:	2/16/	′2016	
UNLESS OTHERWISE SPECII DIMENSIONS ARE IN INCHE TOLERANCES UNLESS NO OTHERWISE:	ES.	.X ± .XX ± .XXX ± ANG ±	.762 .254 .127 0° 30'	FINISH:

MACRON GANTRY	TBG	12

SCALE 1:1 SHEET SIZE C

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SURFACE FINISH 63

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

5 OF 5

MGS-TBG-12-X-X-X