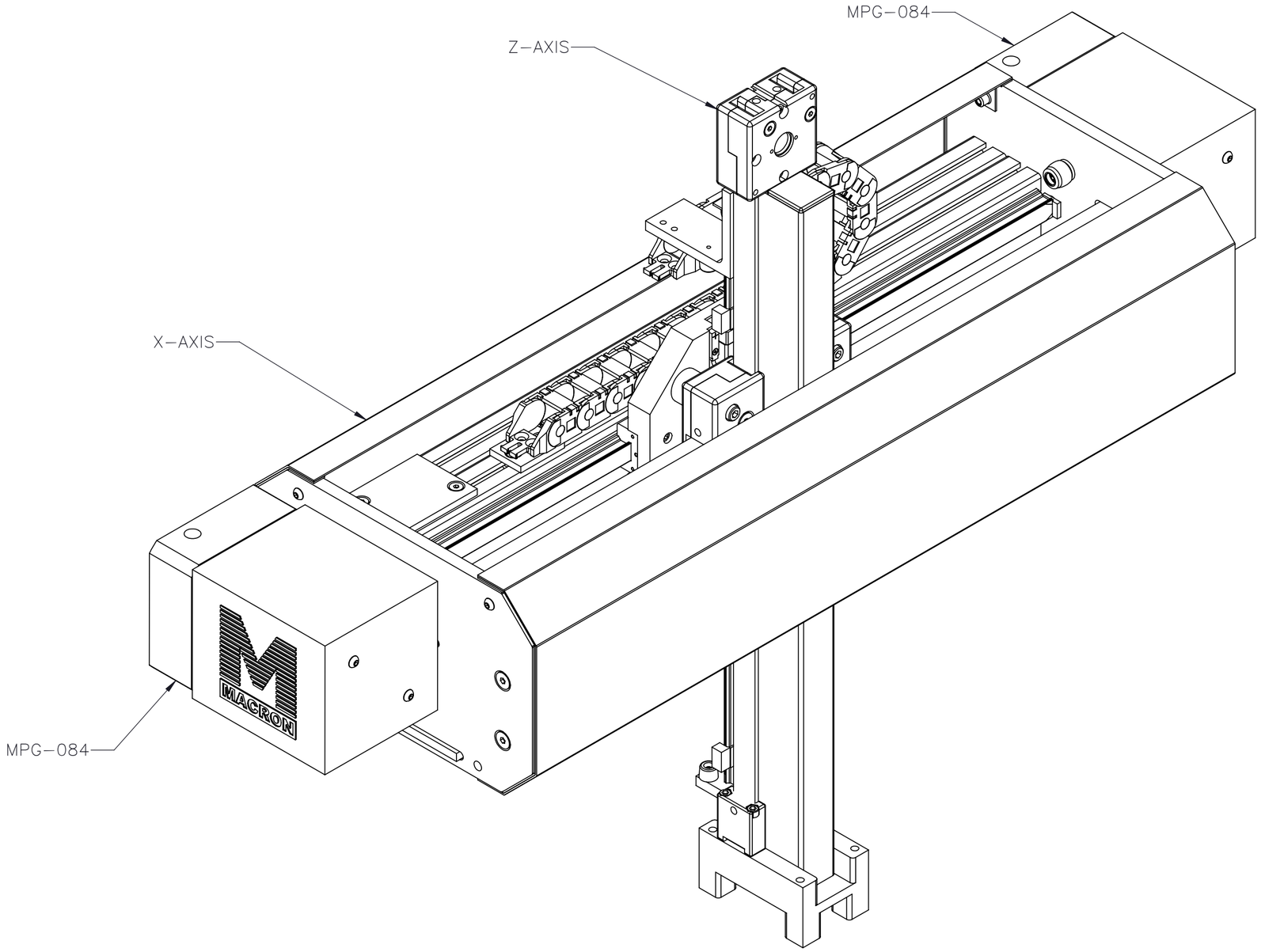
MGS–TBG–25– [ ] –X– [ ]

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

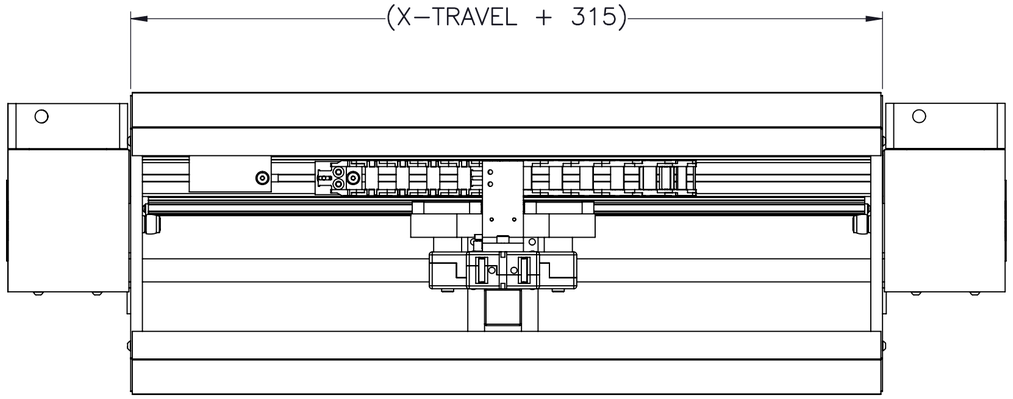
ENTER X–AXIS TRAVEL
TRAVEL IN INCREMENTS OF 500mm
TRAVEL LIMITS: 500mm–2000mm

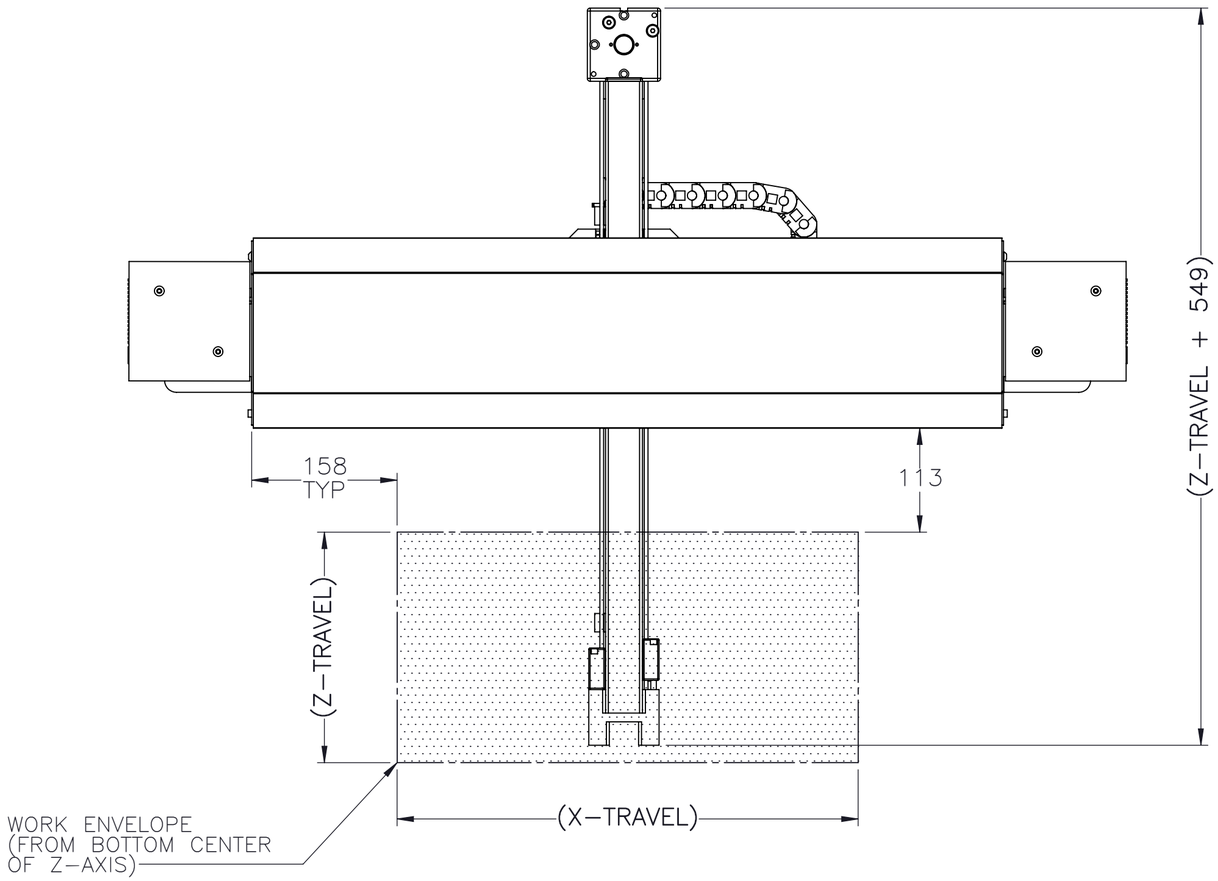


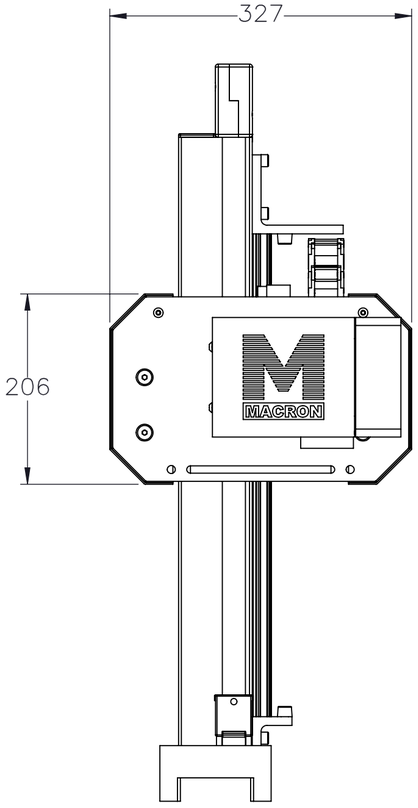
MACRON DYNAMICS INC

DRAWN BY: JB	DATE: 2/10/2016	MATERIAL:	TITLE: MACRON TBG 25 GANTRY
CHECKED BY: – –	DATE: 2/11/2016		
LAST SAVED BY: Blutinger	DATE: 2/16/2016	FINISH:	
UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE IN MILLIMETERS. TOLERANCES UNLESS NOTED OTHERWISE:	.X ± .762 .XX ± .254 .XXX ± .127 ANG ± 0°30'		SCALE 1:1 / SHEET SIZE C
SURFACE FINISH 63		SHEET 1 OF 5	PART NUMBER MGS–TBG–25–X–X–X / REV 00
BREAK ALL SHARP EDGES DIMENSIONAL LIMITS APPLY AFTER FINISHING			
THIRD ANGLE PROJECTION			

GANTRY FOOTPRINT







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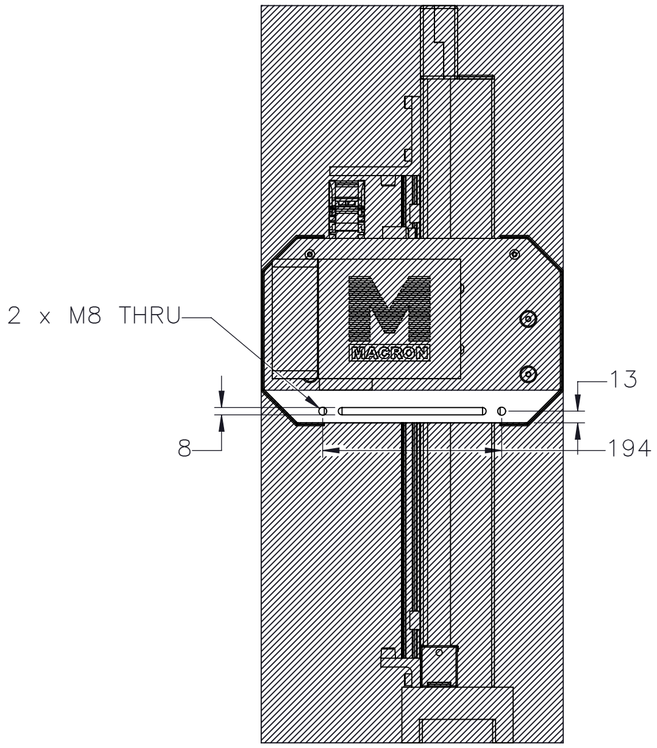
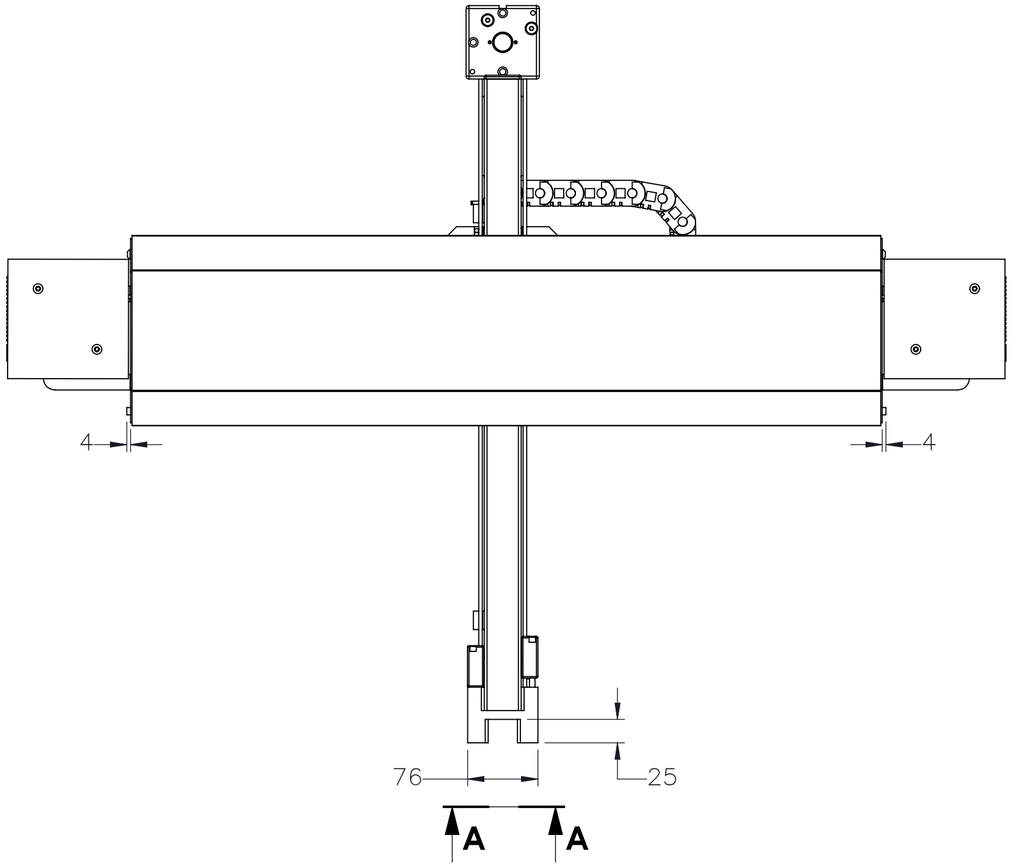
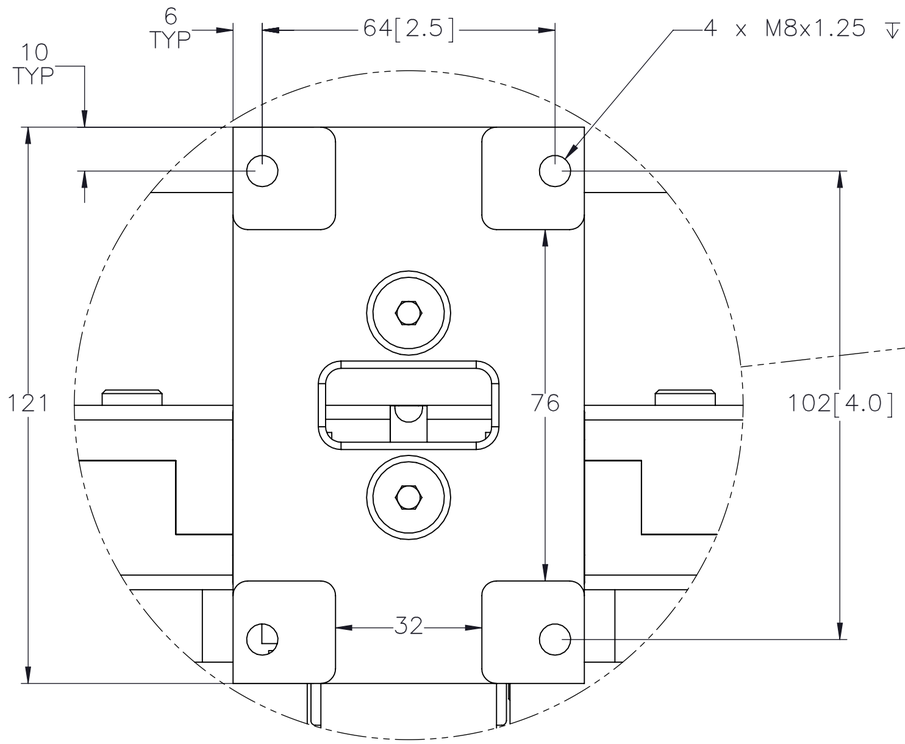
DRAWN BY: JB	DATE: 2/10/2016	MATERIAL:	TITLE: MACRON TBG 25 GANTRY
CHECKED BY: — —	DATE: 2/11/2016		
LAST SAVED BY: JBlutinger	DATE: 2/16/2016		
UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE IN INCHES. TOLERANCES UNLESS NOTED OTHERWISE:	.X ± .03 .XX ± .010 .XXX ± .005 ANG ± 0°30'	FINISH:	
SURFACE FINISH 63			SCALE 1:1 / SHEET SIZE C
BREAK ALL SHARP EDGES DIMENSIONAL LIMITS APPLY AFTER FINISHING		SHEET 2 OF 5	PART NUMBER MGS–TBG–25–X–X–X / REV 00
THIRD ANGLE PROJECTION			

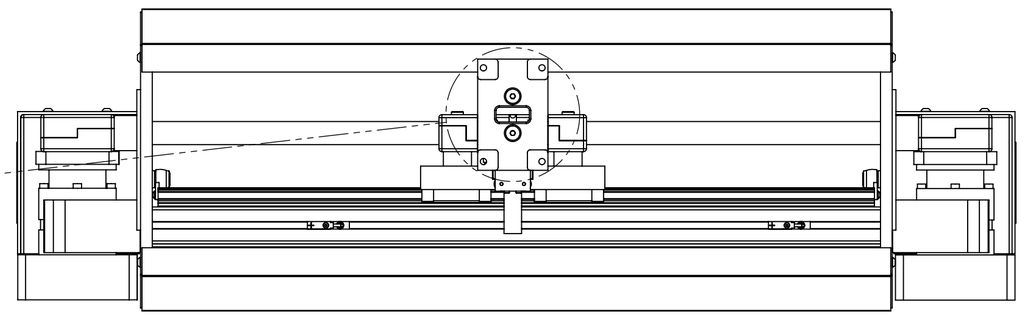
GANTRY MOUNTING FEATURES







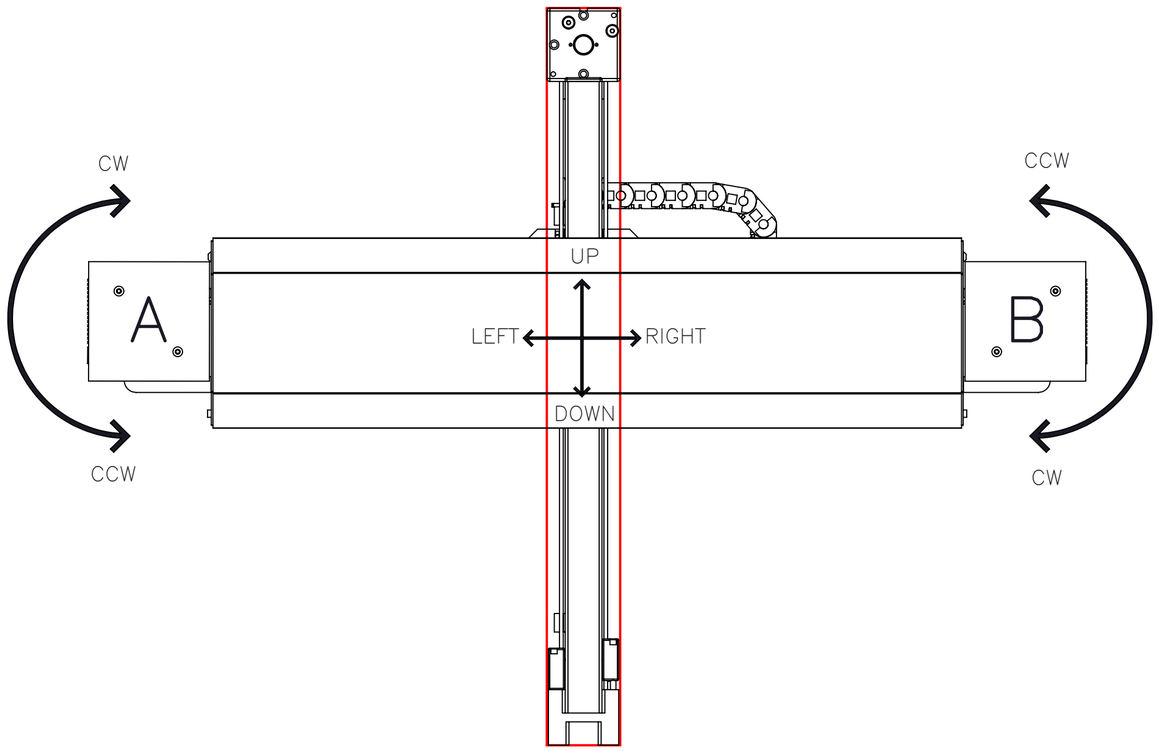
DETAIL A



MACRON DYNAMICS INC	DRAWN BY: JB	DATE: 2/10/2016	MATERIAL:
	CHECKED BY: — —	DATE: 2/11/2016	
	LAST SAVED BY: JBlutinger	DATE: 2/16/2016	FINISH:
	UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE IN INCHES. TOLERANCES UNLESS NOTED OTHERWISE:	.X ± .762 .XX ± .254 .XXX ± .127 ANG ± 0°30'	TITLE: MACRON TBG 25 GANTRY
	SURFACE FINISH 63		SCALE 1:1 / SHEET SIZE C
	BREAK ALL SHARP EDGES DIMENSIONAL LIMITS APPLY AFTER FINISHING		SHEET 3 OF 5 / PART NUMBER MGS-TBG-25-X-X-X / REV 00
	THIRD ANGLE PROJECTION		

MOTOR DYNAMICS

(ASSUMES MOTORS ARE ROTATING AT SAME ANGULAR VELOCITY)



ROTATIONAL DIRECTION		Z–AXIS MOVEMENT
PULLEY A	PULLEY B	
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

MACRON DYNAMICS INC

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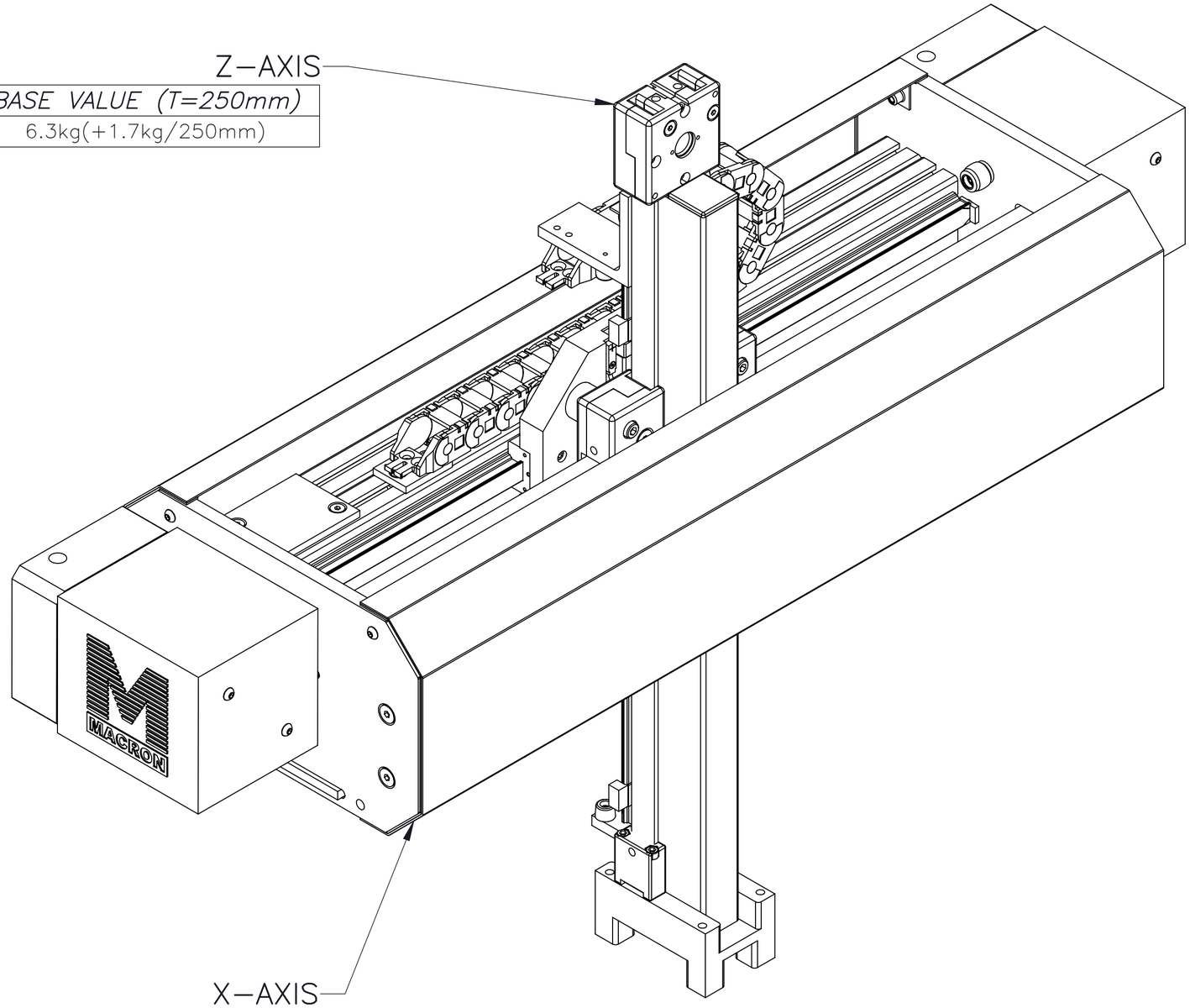
CHECKED BY: – –	DATE: 2/11/2016		
LAST SAVED BY: JBlutinger	DATE: 2/16/2016	FINISH:	
UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE IN INCHES. TOLERANCES UNLESS NOTED OTHERWISE:	.X ± .762 .XX ± .254 .XXX ± .127 ANG ± 0°30'		SCALE 1:1 / SHEET SIZE C
SURFACE FINISH 63		SHEET 4 OF 5	PART NUMBER MGS–TBG–25–X–X–X / REV 00
BREAK ALL SHARP EDGES DIMENSIONAL LIMITS APPLY AFTER FINISHING			
THIRD ANGLE PROJECTION			

MOTOR SIZING INFORMATION

(INCREMENTAL ADDERS REFER TO MASS PER TRAVEL LENGTH)

PROPERTY	*BASE VALUE (T=250mm)*
MOVING MASS	6.3kg(+1.7kg/250mm)



PROPERTY	*BASE VALUE (T=500mm)*
*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 MASS OF Z–AXIS TO VALUE	

X–TRAVEL = _____ mm

Z–TRAVEL = _____ mm

Z–AXIS	MOVING MASS {1}	(Z–TRAVEL x .0068) + 4.57
X–AXIS	MOVING MASS	(X–TRAVEL x .0001) + 6.26 + {1}
BELT MASS		[(X–TRAVEL + Z–TRAVEL) x .0006] + 0.64

MACRON DYNAMICS INC

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LAST SAVED BY: JBlutinger	DATE: 2/16/2016	FINISH:

UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE IN INCHES TOLERANCES UNLESS NOTED OTHERWISE: .X ± .762, .XX ± .254, .XXX ± .127, ANG ± 0°30'

SURFACE FINISH 63

BREAK ALL SHARP EDGES
DIMENSIONAL LIMITS APPLY AFTER FINISHING

THIRD ANGLE PROJECTION

TITLE: MACRON TBG 25 GANTRY

SCALE 1:1 | SHEET SIZE C

SHEET	PART NUMBER	REV
5 OF 5	MGS–TBG–25–X–X–X	00