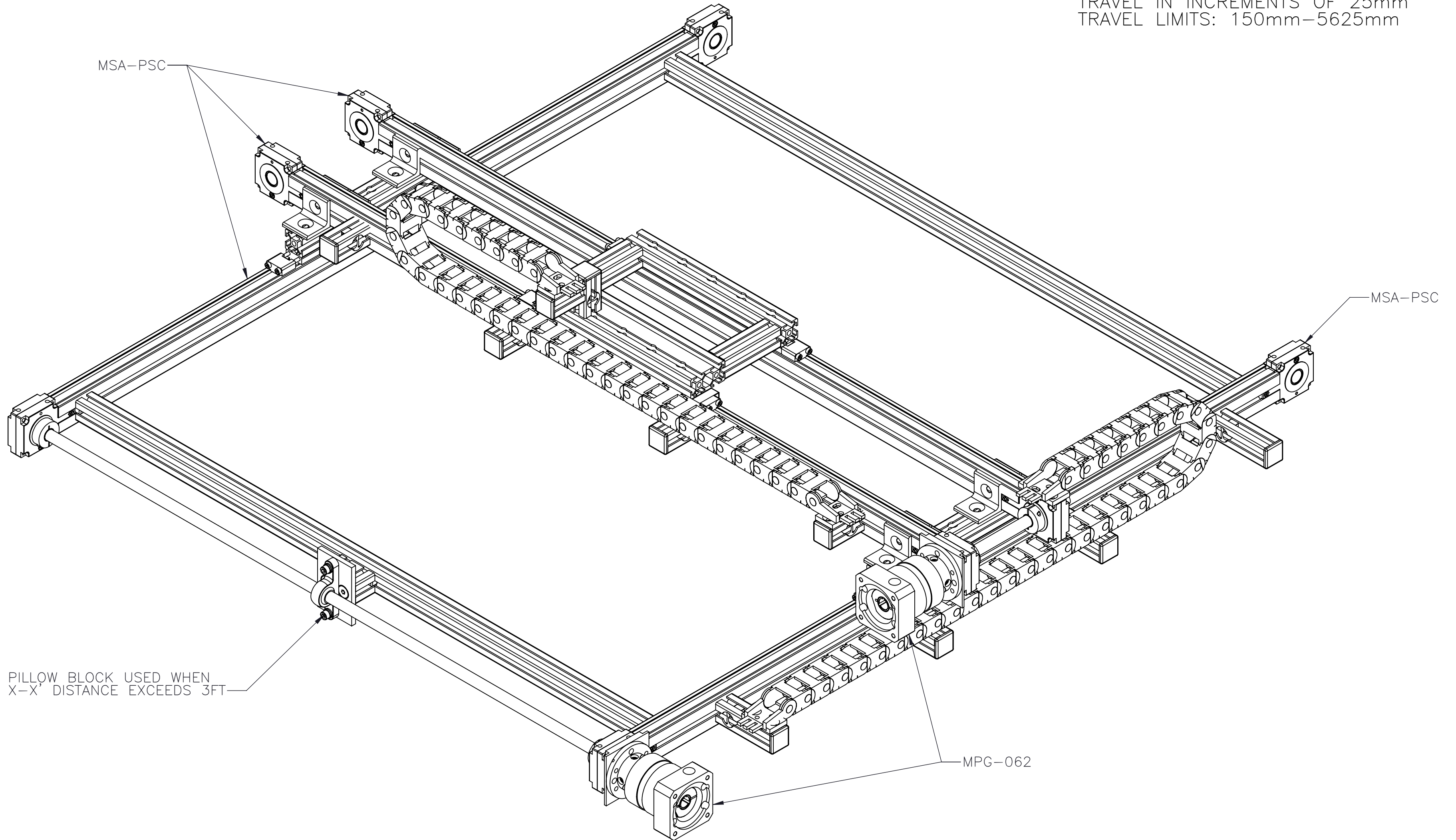



MGS-PSC- - -X

ENTER Y-AXIS TRAVEL
 TRAVEL IN INCREMENTS OF 25mm
 TRAVEL LIMITS: 150mm-1000mm

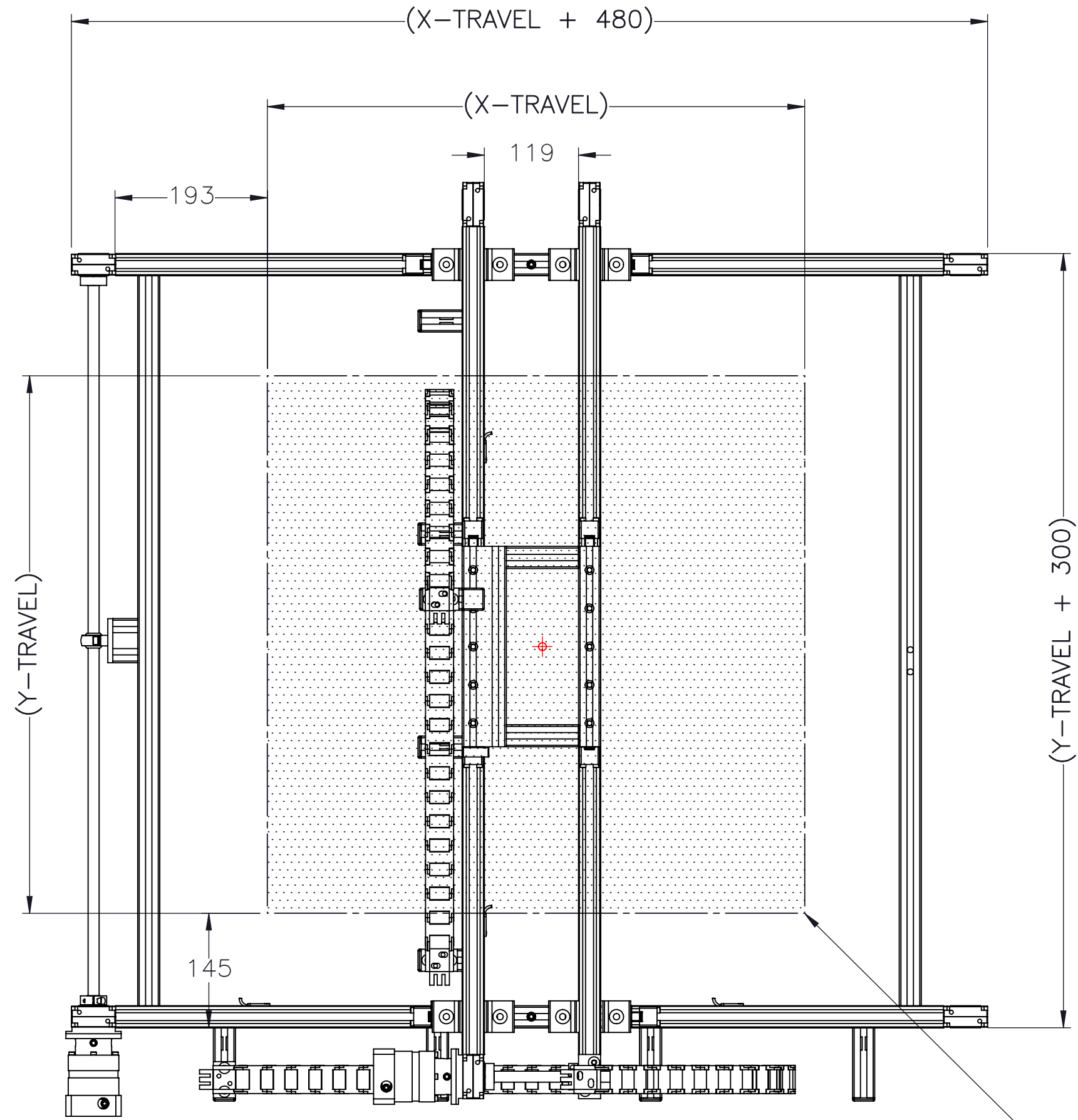
ENTER X-AXIS TRAVEL
 TRAVEL IN INCREMENTS OF 25mm
 TRAVEL LIMITS: 150mm-5625mm



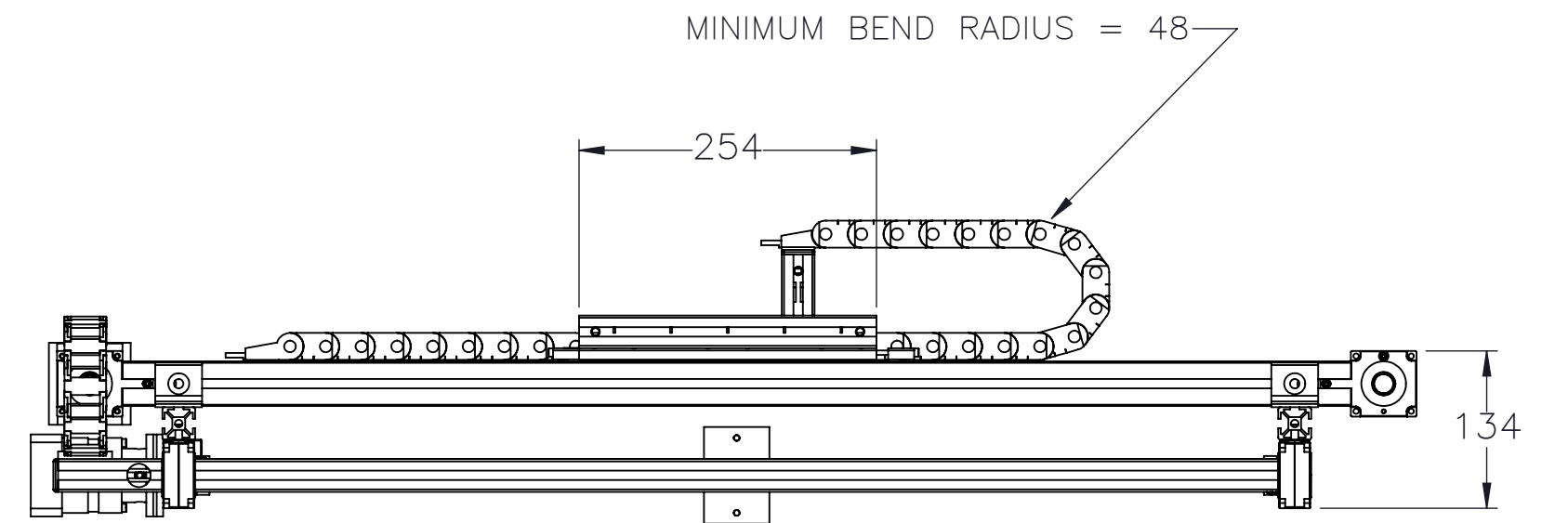
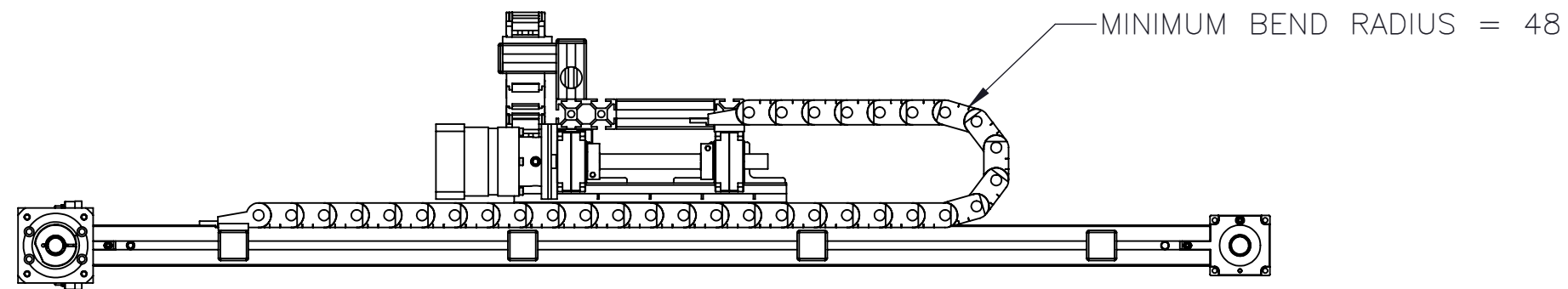
PILLOW BLOCK USED WHEN
 X-X' DISTANCE EXCEEDS 3FT


 MACRON DYNAMICS INC	DRAWN BY: JB DATE: 2/10/2016	MATERIAL:	TITLE: MACRON PSC XY GANTRY
	CHECKED BY: -- DATE: 2/11/2016	FINISH:	
	LAST SAVED BY: Blutinger DATE: 2/16/2016		
	UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN MILLIMETERS: TOLERANCES UNLESS NOTED OTHERWISE:		
SURFACE FINISH \checkmark	.X \pm .762 .XX \pm .254 .XXX \pm .127 ANG \pm 0°30'	SCALE 1:1 SHEET SIZE C	
<small>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.</small>	BREAK ALL SHARP EDGES DIMENSIONAL LIMITS APPLY AFTER FINISHING THIRD ANGLE PROJECTION	SHEET 1 OF 5 PART NUMBER MGS-PSC-X-X-X REV 00	

GANTRY FOOTPRINT

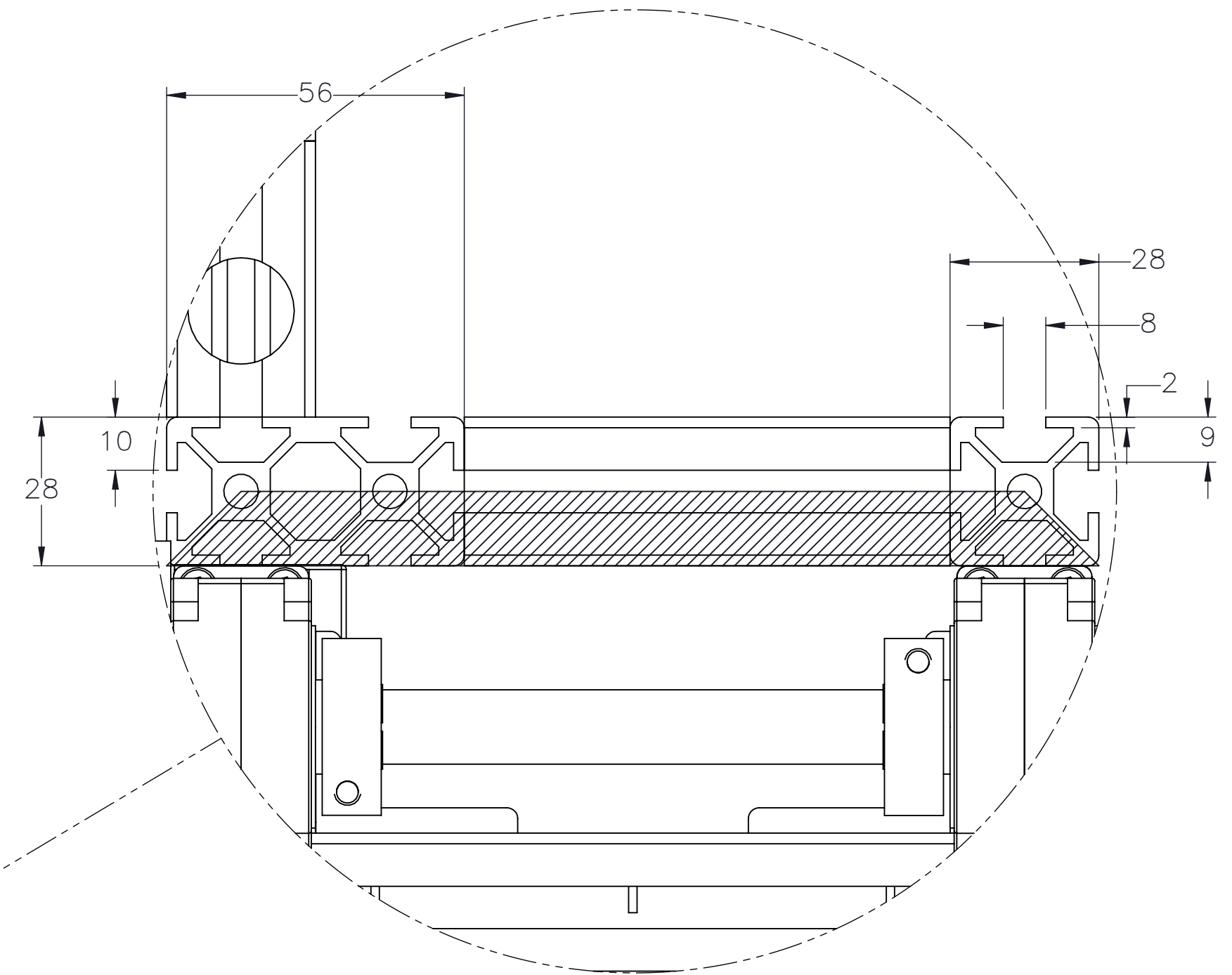
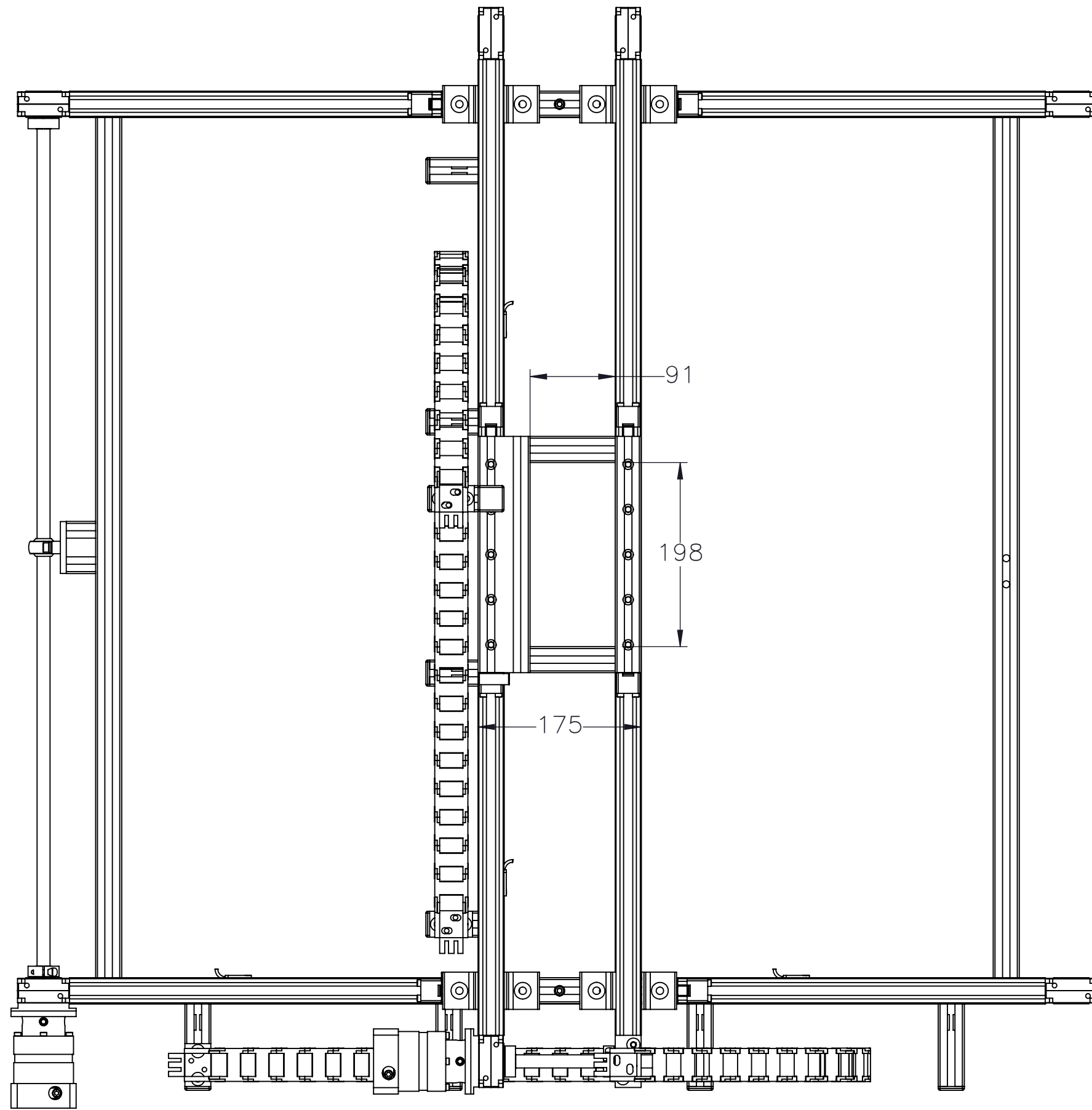


WORK ENVELOPE
(FROM CENTER OF
Y-AXIS CART POCKET)

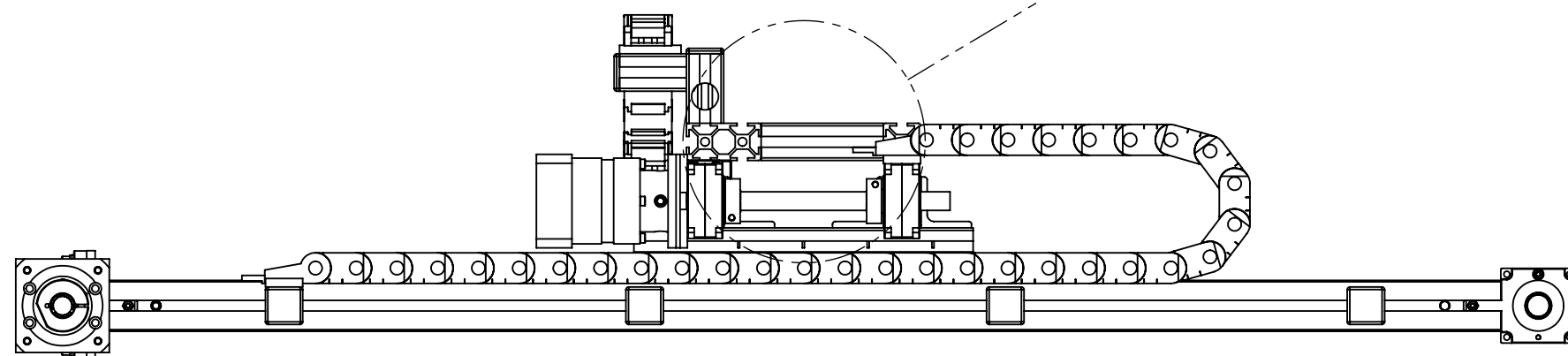



 MACRON DYNAMICS INC	DRAWN BY: JB CHECKED BY: -- LAST SAVED BY: Blutinger	DATE: 2/10/2016 DATE: 2/11/2016 DATE: 2/16/2016	MATERIAL:	TITLE: MACRON PSC XY GANTRY	
	UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE IN INCHES. TOLERANCES UNLESS NOTED OTHERWISE:		FINISH:	SCALE 1:1 SHEET SIZE C	
	SURFACE FINISH 63		SHEET 2 OF 5	PART NUMBER MGS-PSC-X-X-X	REV 00
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CART MOUNTING FEATURES



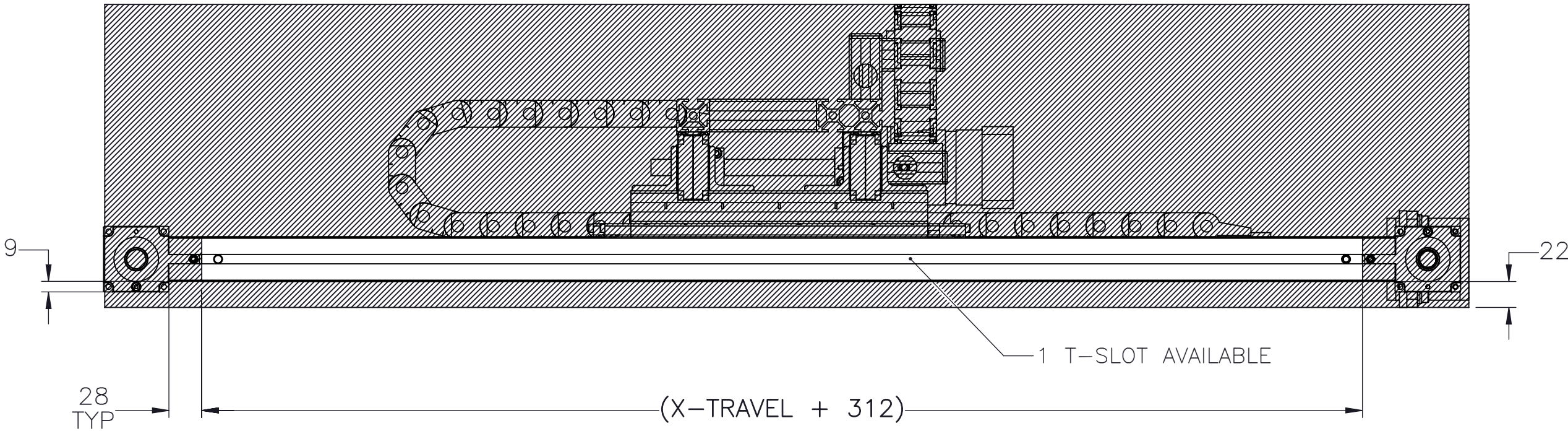
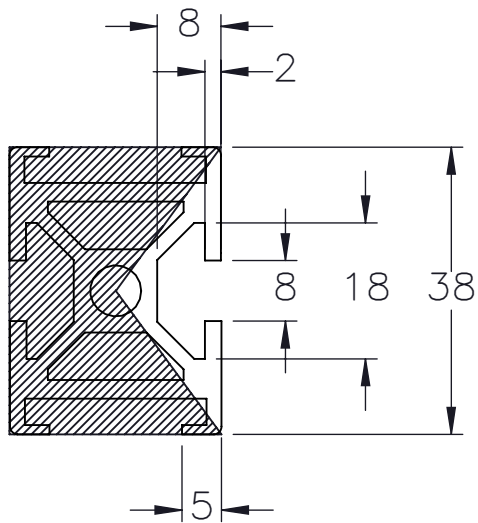
DETAIL A



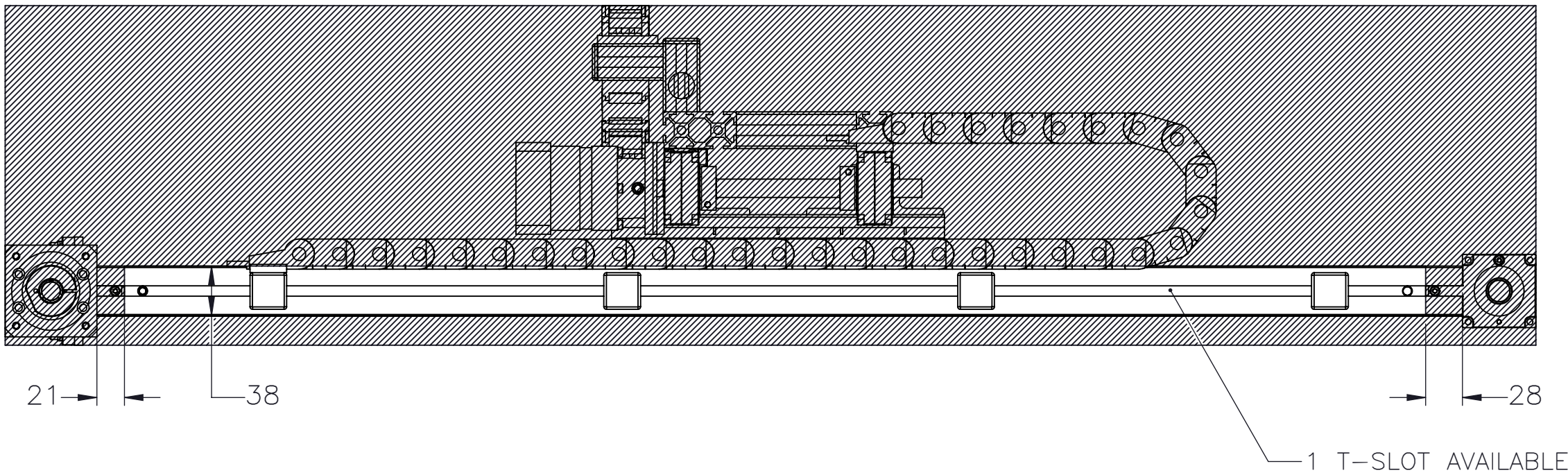
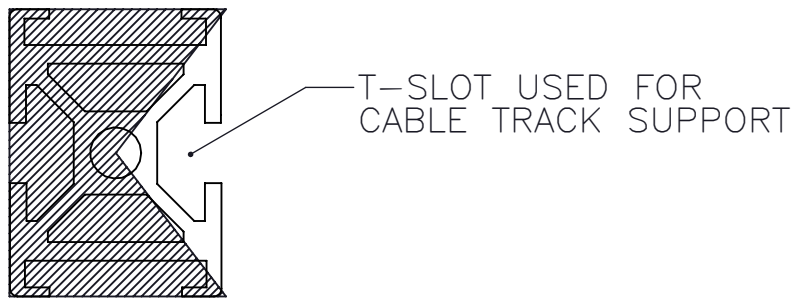
 MACRON DYNAMICS INC	DRAWN BY: JB CHECKED BY: -- LAST SAVED BY: Blutinger	DATE: 2/10/2016 DATE: 2/11/2016 DATE: 2/16/2016	MATERIAL:	TITLE: MACRON PSC XY GANTRY	
	UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE IN INCHES. TOLERANCES UNLESS NOTED OTHERWISE:		FINISH:	SCALE 1:1 SHEET SIZE C	
	SURFACE FINISH 63		SHEET 3 OF 5	PART NUMBER MGS-PSC-X-X-X	REV 00
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GANTRY MOUNTING FEATURES

SIDE VIEW A



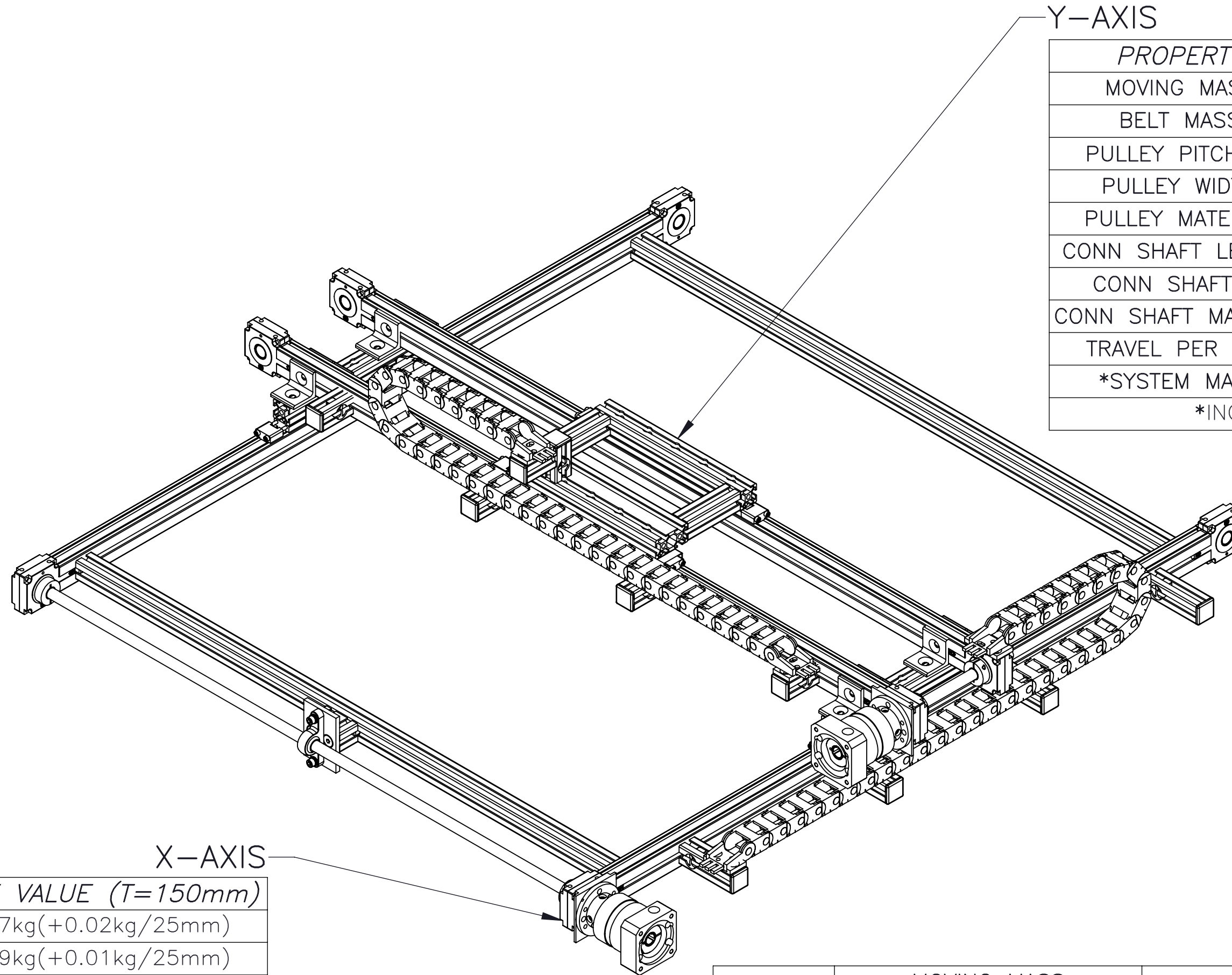
SIDE VIEW B



 MACRON DYNAMICS INC	DRAWN BY: JB CHECKED BY: -- LAST SAVED BY: Blutinger	DATE: 2/10/2016 DATE: 2/11/2016 DATE: 2/16/2016	MATERIAL:	TITLE: MACRON PSC XY GANTRY	
	UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE IN INCHES. TOLERANCES UNLESS NOTED OTHERWISE:		FINISH:	SCALE: 1:1 SHEET SIZE: C	
	SURFACE FINISH: 63		SHEET: 4 OF 5	PART NUMBER: MGS-PSC-X-X-X	REV: 00
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MOTOR SIZING INFORMATION

(INCREMENTAL ADDERS REFER TO MASS PER TRAVEL LENGTH)




PROPERTY	BASE VALUE (T=150mm)
MOVING MASS	2.12kg(+0.02kg/25mm)
BELT MASS	0.19kg(+0.01kg/25mm)
PULLEY PITCH ϕ	33.42mm (1.32")
PULLEY WIDTH	54.0mm (.64")
PULLEY MATERIAL	STEEL
CONN SHAFT LENGTH	196.85mm (7.75")
CONN SHAFT ϕ	14mm (.55")
CONN SHAFT MATERIAL	STEEL
TRAVEL PER REV	105mm
*SYSTEM MASS	5.70kg(+0.11kg/25mm)
*INCLUDES MPG-062 (1kg)	

PROPERTY	BASE VALUE (T=150mm)
**MOVING MASS	2.57kg(+0.02kg/25mm)
BELT MASS	0.19kg(+0.01kg/25mm)
PULLEY PITCH ϕ	33.42mm (1.32")
PULLEY WIDTH	16.3mm (.64")
PULLEY MATERIAL	STEEL
CONN SHAFT LENGTH	Y-TRAVEL + 321mm
CONN SHAFT ϕ	14mm (.55")
CONN SHAFT MASS	0.56kg(+0.03kg/25mm)
CONN SHAFT MATERIAL	STEEL
TRAVEL PER REV	105mm
**ADD SYSTEM MASS 0	

X-TRAVEL = _____ mm

Y-TRAVEL = _____ mm

Y-AXIS	MOVING MASS	$(Y-TRAVEL \times .0008) + 2.00 = \text{kg}$
	BELT MASS	$(Y-TRAVEL \times .0004) + 0.13 = \text{kg}$
	SYSTEM MASS {1}	$(Y-TRAVEL \times .0043) + 5.06 = \text{kg}$
X-AXIS	MOVING MASS	$(X-TRAVEL \times .0008) + 2.45 + \{1\} + \{2\} = \text{kg}$
	BELT MASS	$(X-TRAVEL \times .0004) + 0.13 = \text{kg}$
	CONN SHAFT MASS {2}	$(Y-TRAVEL \times .0012) + 0.38 = \text{kg}$

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