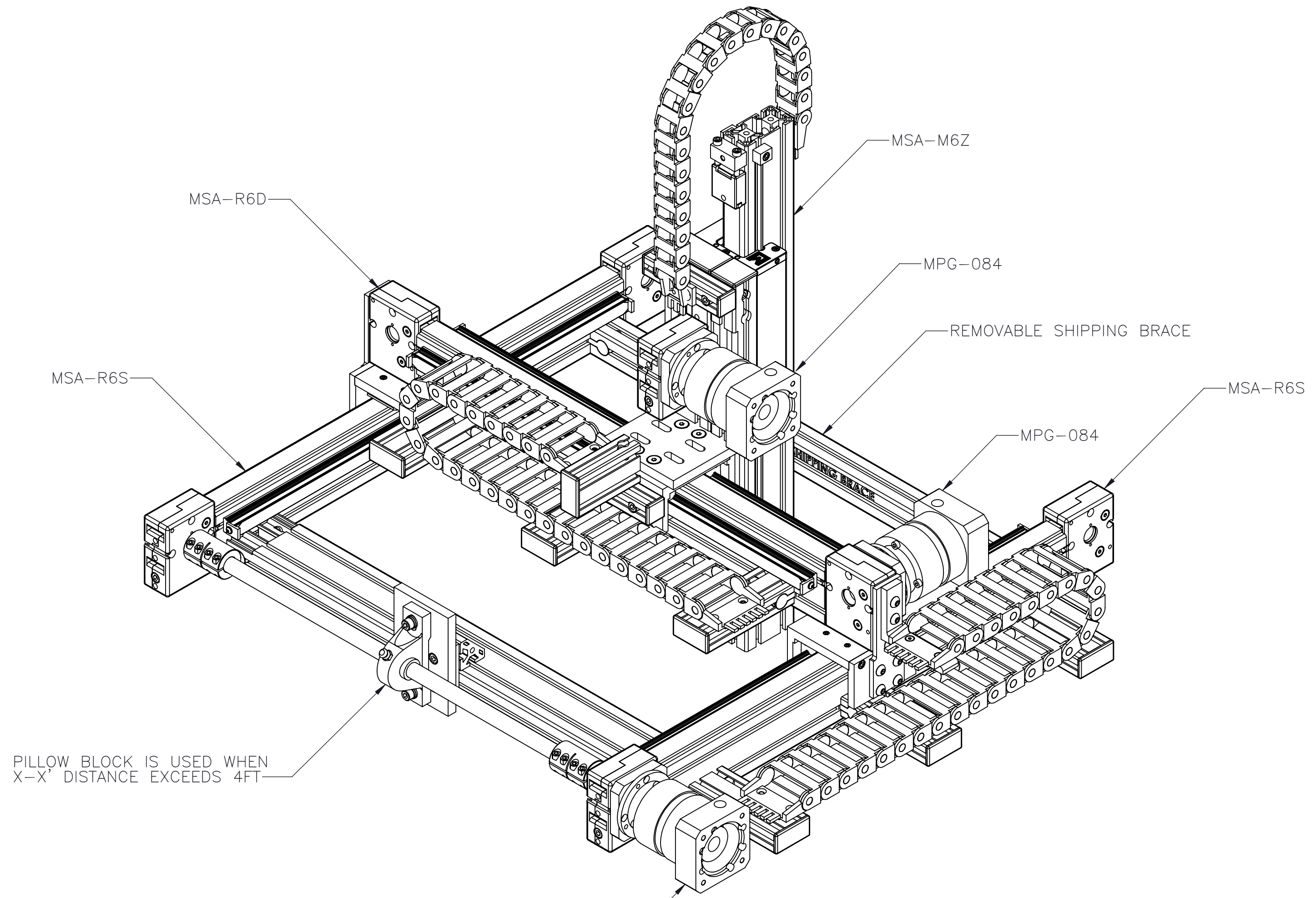


MCS-R6S- [] - [] - B []


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

ENTER Y-AXIS TRAVEL
TRAVEL IN INCREMENTS OF 25mm
TRAVEL LIMITS: 150mm-2000mm

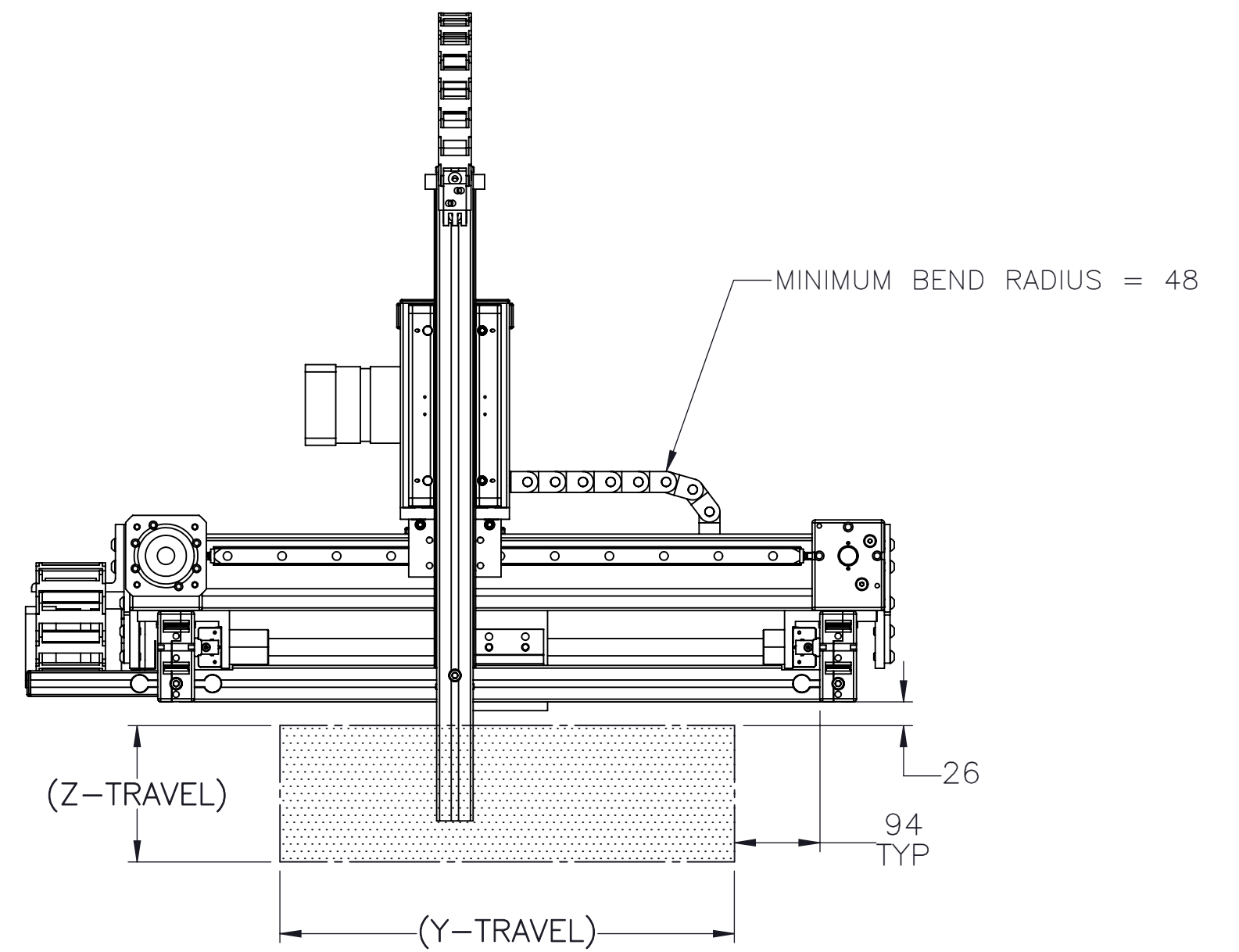
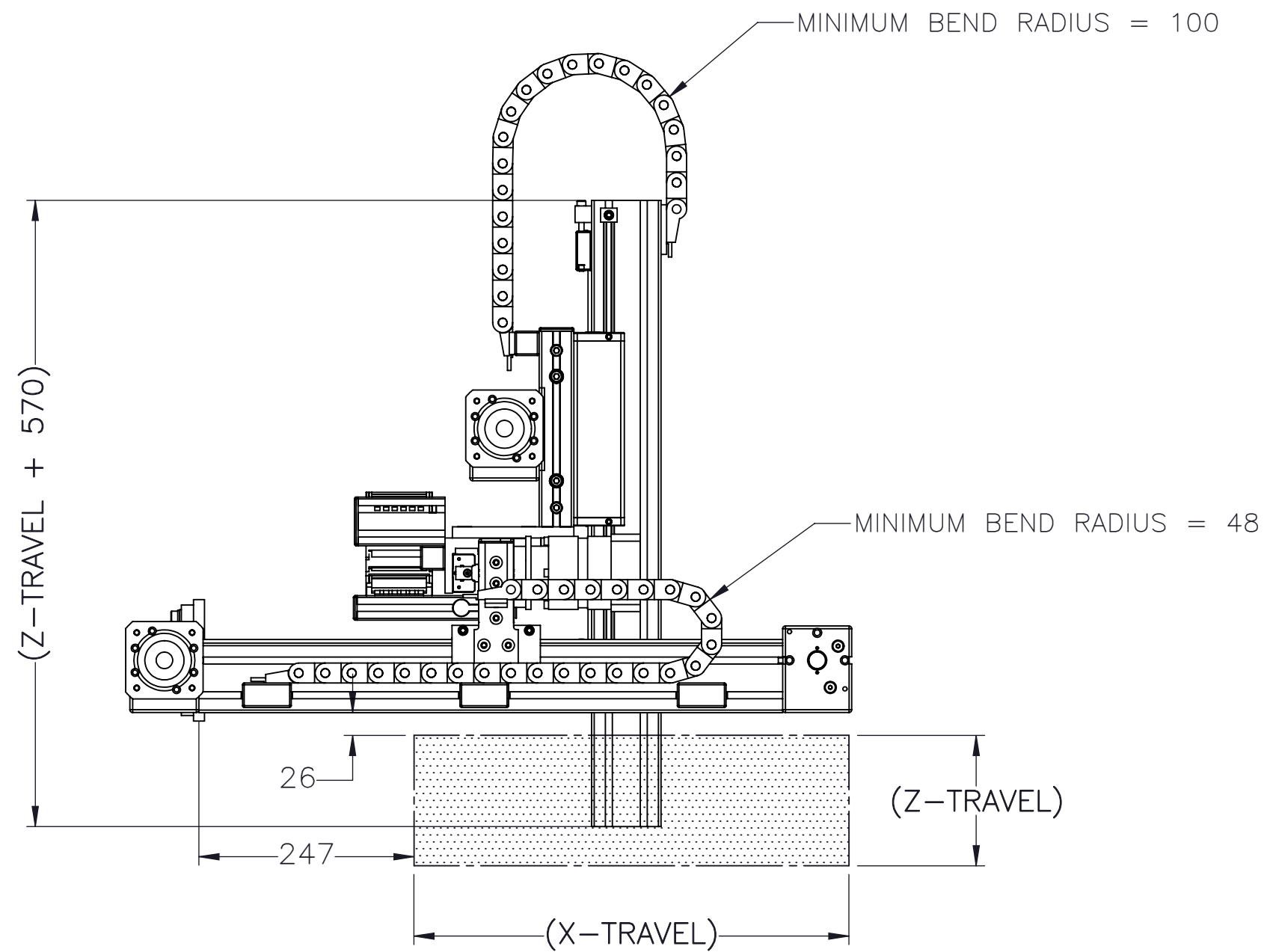
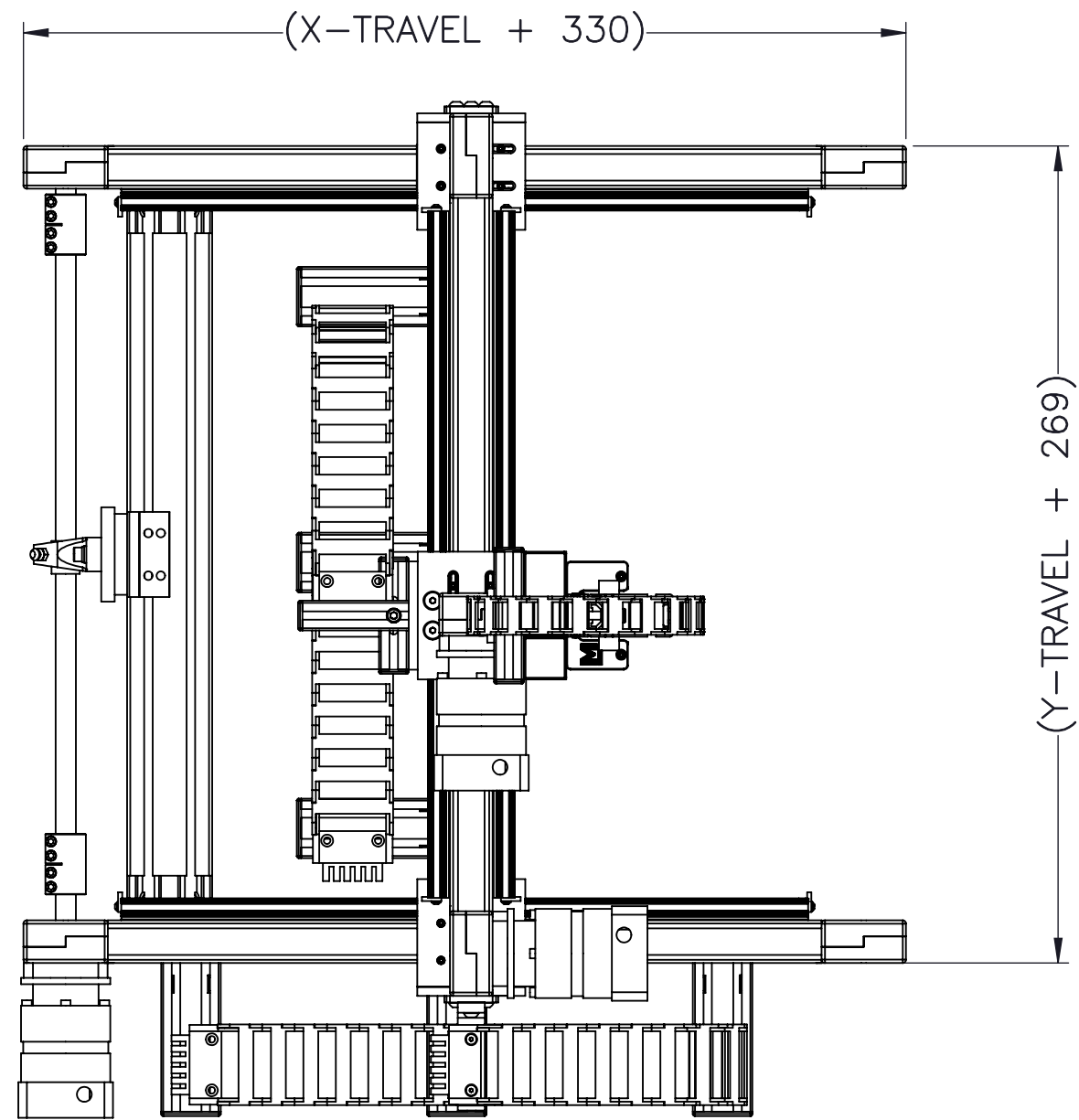
ENTER X-AXIS TRAVEL
TRAVEL IN INCREMENTS OF 25mm
TRAVEL LIMITS: 150mm-5575mm




PILLOW BLOCK IS USED WHEN X-X' DISTANCE EXCEEDS 4FT

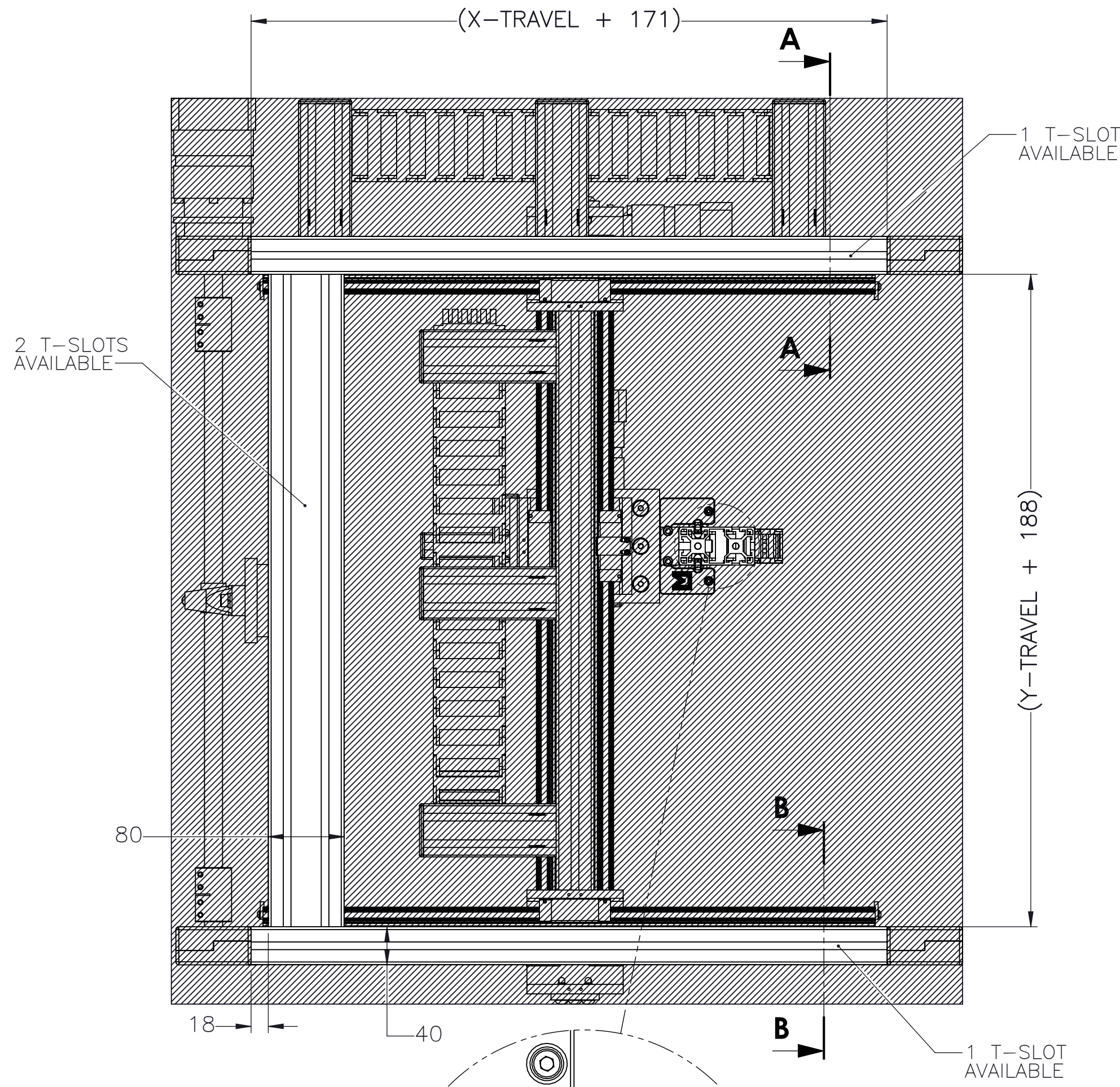
 MACRON DYNAMICS INC	DRAWN BY: JB CHECKED BY: -- LAST SAVED BY: Blutinger	DATE: 2/10/2016 DATE: 2/11/2016 DATE: 2/22/2016	MATERIAL:	TITLE: MACRON R6S XYZ (BELT Z) GANTRY	
	UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE IN MILLIMETERS. TOLERANCES UNLESS NOTED OTHERWISE:		FINISH:	SCALE 1:1 SHEET SIZE C	
	SURFACE FINISH \checkmark		BREAK ALL SHARP EDGES DIMENSIONAL LIMITS APPLY AFTER FINISHING THIRD ANGLE PROJECTION		SHEET 1 OF 4 PART NUMBER MCS-R6S-X-X-BX REV 00
	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.				

GANTRY FOOTPRINT

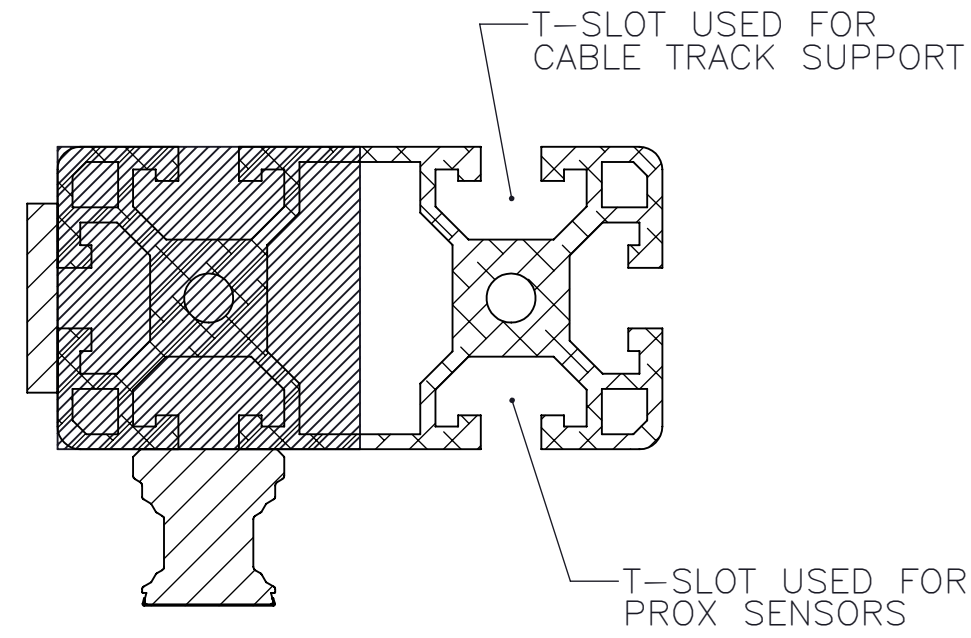


 MACRON DYNAMICS INC	DRAWN BY: JB CHECKED BY: -- LAST SAVED BY: Blutinger	DATE: 2/10/2016 DATE: 2/11/2016 DATE: 2/22/2016	MATERIAL:	TITLE: MACRON R6S XYZ (BELT Z) GANTRY	
	UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE IN INCHES. TOLERANCES UNLESS NOTED OTHERWISE:		FINISH:	SCALE 1:1 SHEET SIZE C	
	SURFACE FINISH 63		SHEET 2 OF 4	PART NUMBER MCS-R6S-X-X-BX	REV 00
	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		

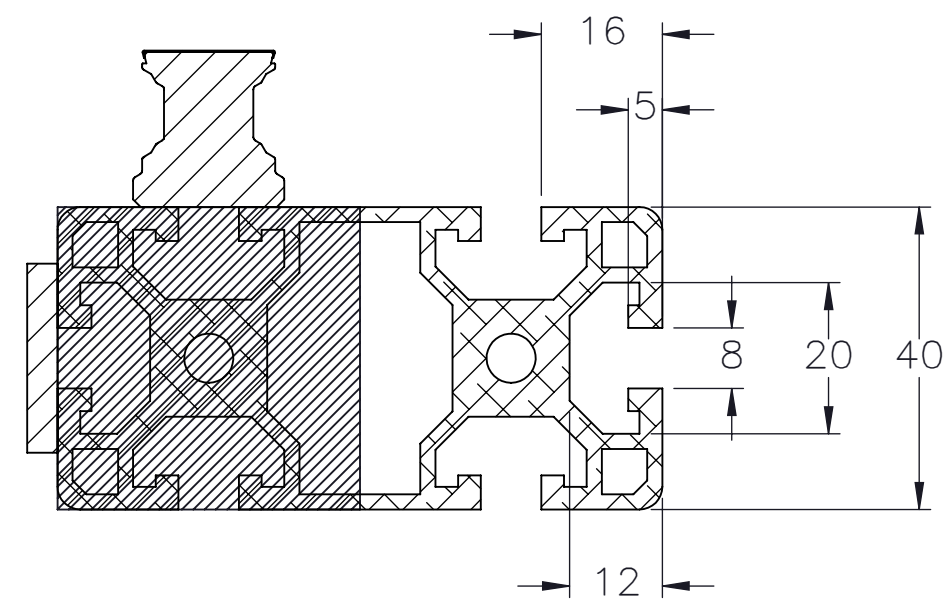
BOTTOM VIEW



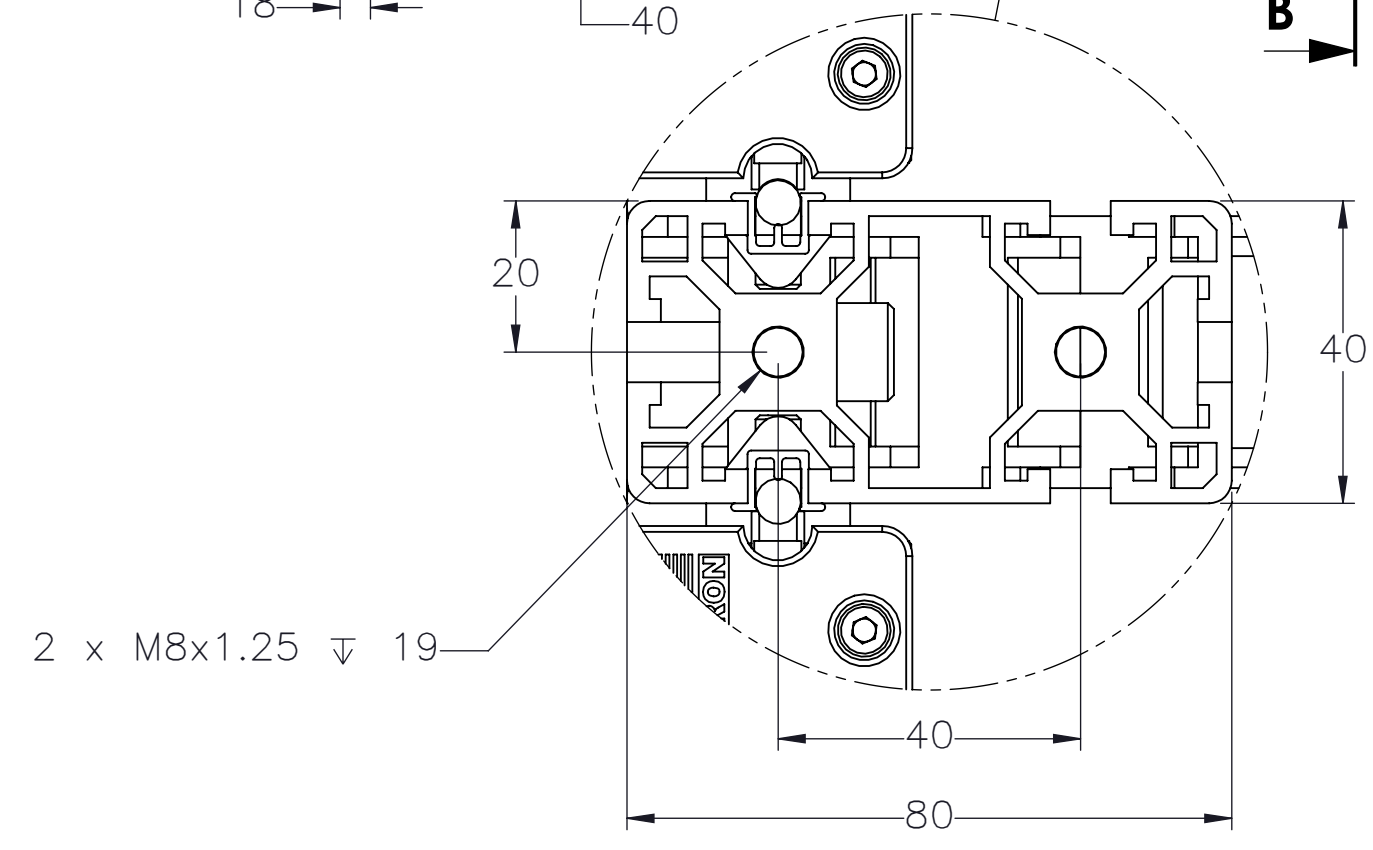
GANTRY MOUNTING FEATURES



SECTION A-A



SECTION B-B



DETAIL C

<p>MACRON DYNAMICS INC</p> <p><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></p>	DRAWN BY: JB CHECKED BY: -- LAST SAVED BY: Blutinger	DATE: 2/10/2016 DATE: 2/11/2016 DATE: 2/22/2016	MATERIAL:	TITLE: MACRON R6S XYZ (BELT Z) GANTRY
	UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE IN INCHES. TOLERANCES UNLESS NOTED OTHERWISE:	FINISH:	SCALE 1:1 SHEET SIZE C	REV
	SURFACE FINISH 63	SHEET 3 OF 4	PART NUMBER MCS-R6S-X-X-BX	00
	BREAK ALL SHARP EDGES DIMENSIONAL LIMITS APPLY AFTER FINISHING THIRD ANGLE PROJECTION			

MOTOR SIZING INFORMATION

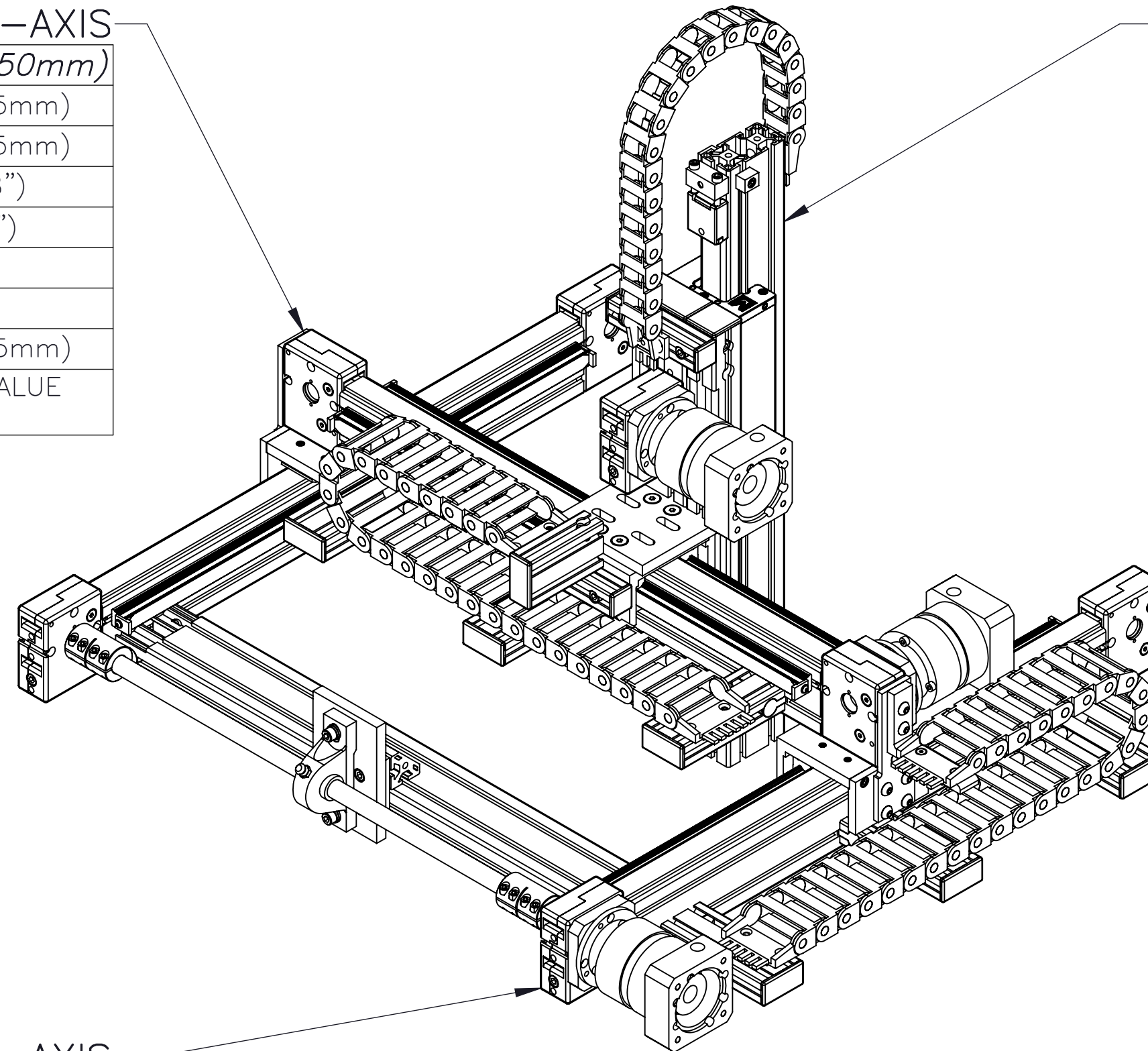
(INCREMENTAL ADDERS REFER TO MASS PER TRAVEL LENGTH)

Y-AXIS

PROPERTY	BASE VALUE (T=150mm)
**MOVING MASS	2.94kg(+0.02kg/25mm)
BELT MASS	0.28kg(+0.02kg/25mm)
PULLEY PITCH ϕ	47.75mm (1.88")
PULLEY WIDTH	28.9mm (1.14")
PULLEY MATERIAL	STEEL
TRAVEL PER REV	150mm
***SYSTEM MASS	6.56kg(+0.29kg/25mm)
ADD SYSTEM WEIGHT OF Z-AXIS TO VALUE *INCLUDES MPG-084 (2.3kg)	

Z-AXIS

PROPERTY	BASE VALUE (T=150mm)
MOVING MASS	3.54kg(+0.11kg/25mm)
BELT MASS	0.19kg(+0.01kg/25mm)
PULLEY PITCH ϕ	47.75mm (1.88")
PULLEY WIDTH	28.9mm (1.14")
PULLEY MATERIAL	STEEL
TRAVEL PER REV	150mm
*SYSTEM MASS	10.24kg(+0.12kg/25mm)
*INCLUDES MPG-084 (2.3kg)	




X-AXIS

PROPERTY	BASE VALUE (T=150mm)
***MOVING MASS	4.17kg(+0.02kg/25mm)
BELT MASS	0.56kg(+0.03kg/25mm)
PULLEY PITCH ϕ	47.75mm (1.88")
PULLEY WIDTH	28.9mm (1.14")
PULLEY MATERIAL	STEEL
CONN SHAFT LENGTH	Y-TRAVEL + 100mm
CONN SHAFT ϕ	19.05mm (.75")
CONN SHAFT MASS	0.55kg(+0.06kg/25mm)
CONN SHAFT MATERIAL	STEEL
TRAVEL PER REV	150mm
****ADD SYSTEM MASS OF Y & Z-AXIS TO VALUE	

X-TRAVEL = _____ mm
 Y-TRAVEL = _____ mm
 Z-TRAVEL = _____ mm

Z-AXIS	MOVING MASS	$(Z-TRAVEL \times .0046) + 2.85 = \text{kg}$
	SYSTEM MASS {1}	$(Z-TRAVEL \times .0049) + 9.52 = \text{kg}$
	BELT MASS	$(Z-TRAVEL \times .0003) + 0.15 = \text{kg}$
Y-AXIS	MOVING MASS	$(Y-TRAVEL \times .0008) + 2.82 + \{1\} = \text{kg}$
	SYSTEM MASS {2}	$(Y-TRAVEL \times .0114) + 4.85 = \text{kg}$
	BELT MASS	$(Y-TRAVEL \times .0006) + 0.19 = \text{kg}$
X-AXIS	MOVING MASS	$(X-TRAVEL \times .0008) + 4.05 + \{1\} + \{2\} + \{3\} = \text{kg}$
	BELT MASS	$(X-TRAVEL \times .0012) + 0.38 = \text{kg}$
	CONN SHAFT MASS {3}	$(Y-TRAVEL \times .0022) + 0.22 = \text{kg}$

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	UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE IN INCHES. TOLERANCES UNLESS NOTED OTHERWISE:		FINISH:	SCALE 1:1 SHEET SIZE C	
	SURFACE FINISH 63		SHEET 4 OF 4	PART NUMBER MCS-R6S-X-X-BX	REV 00
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