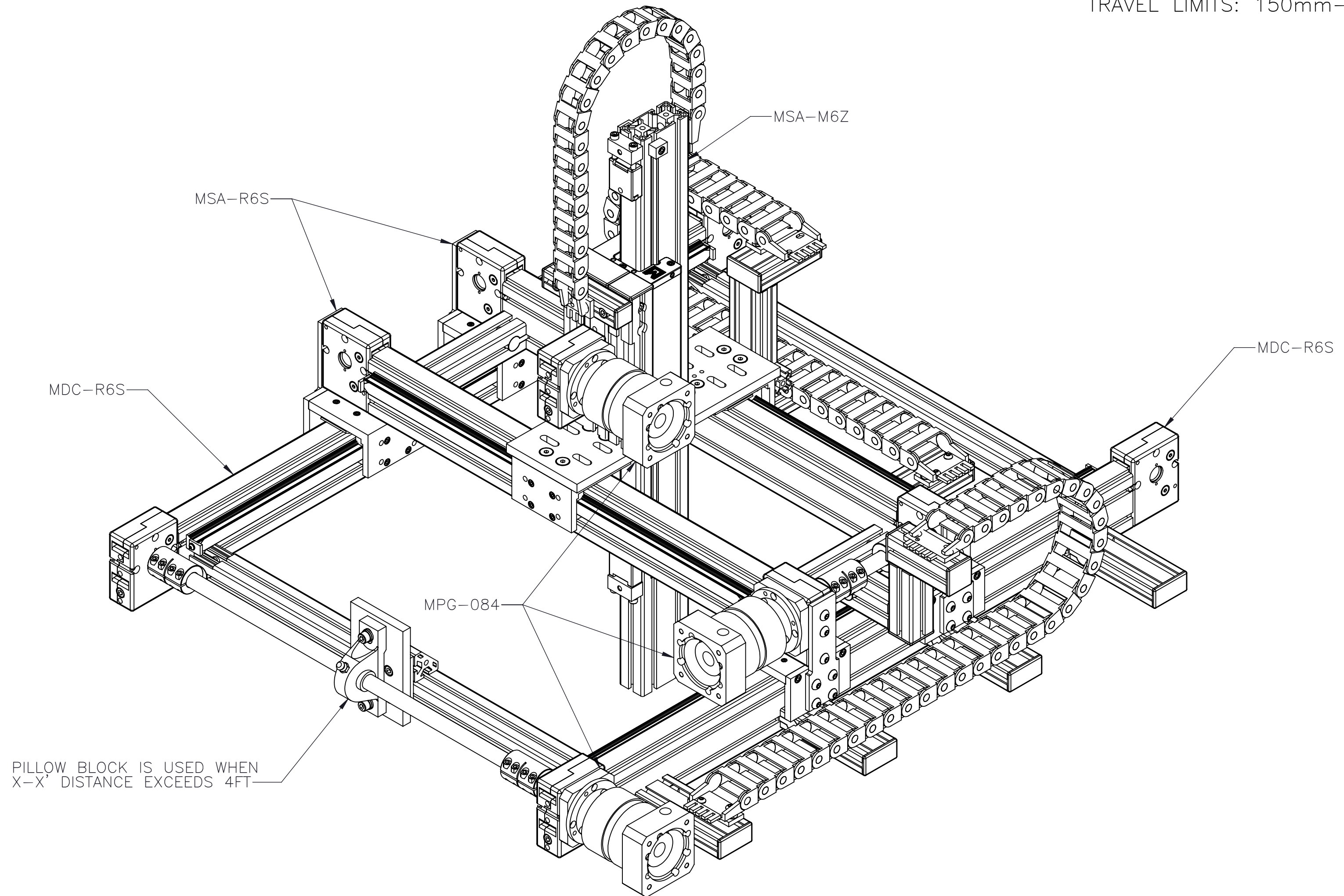


MCS-R6Y- - - B


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

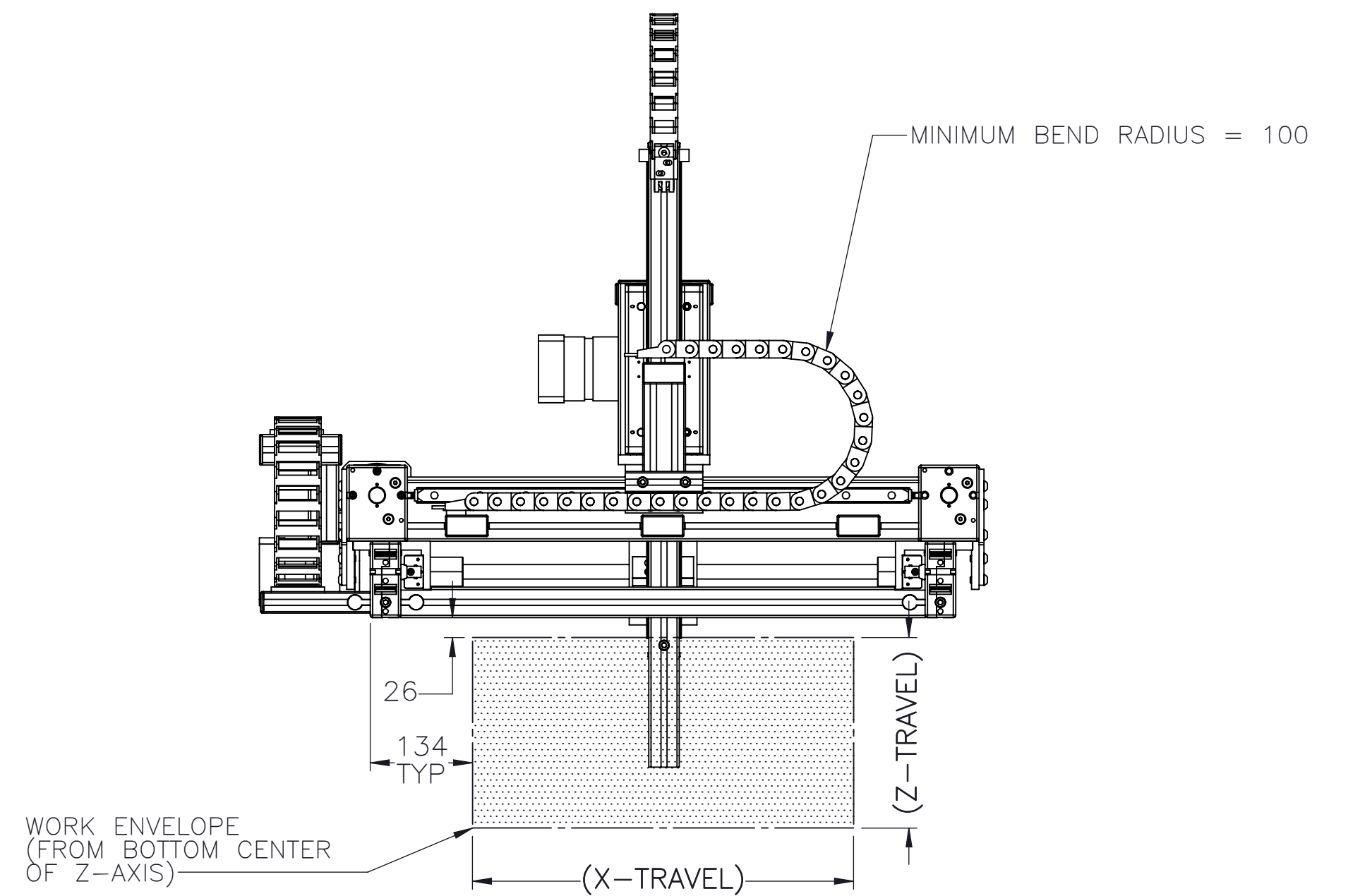
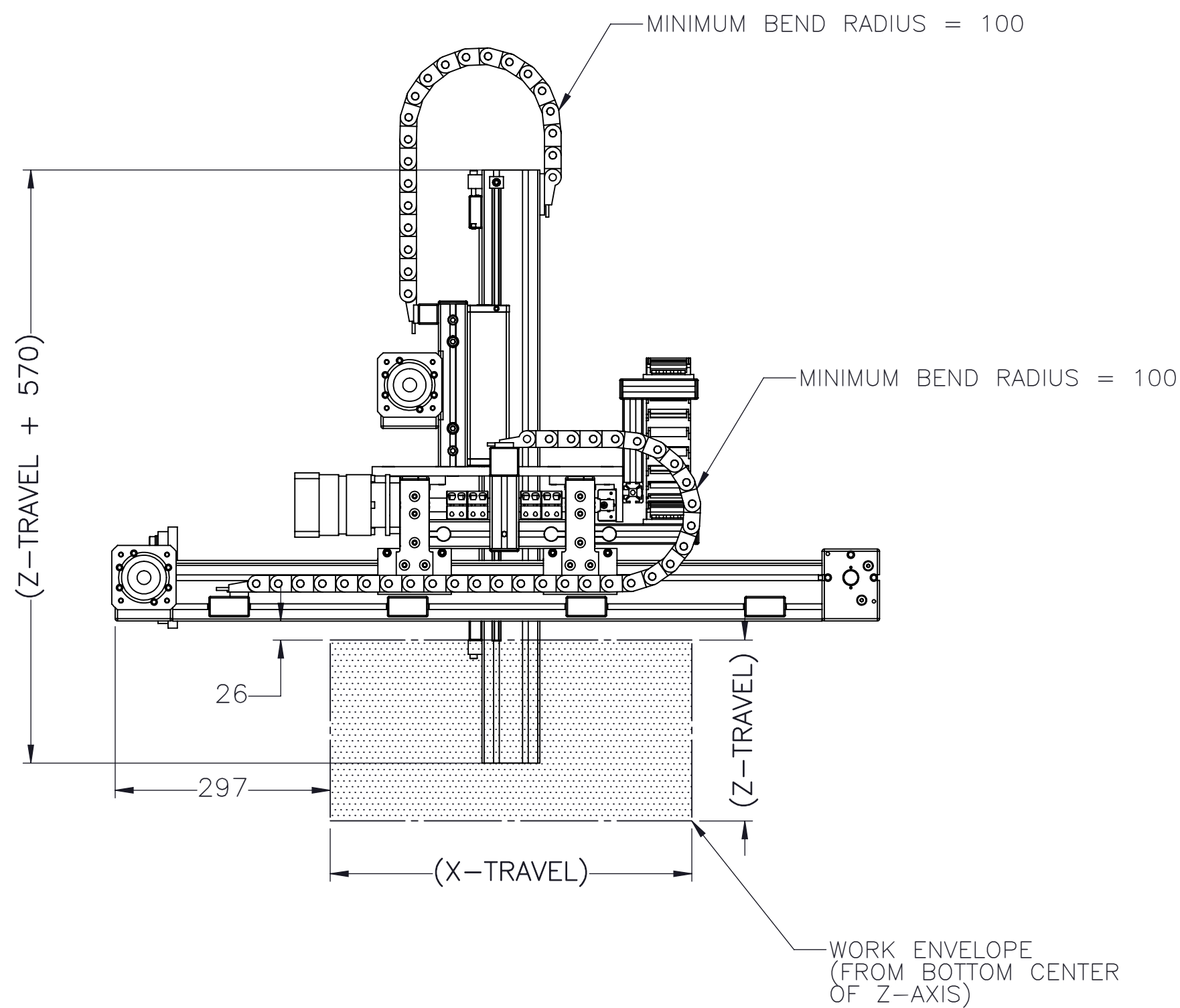
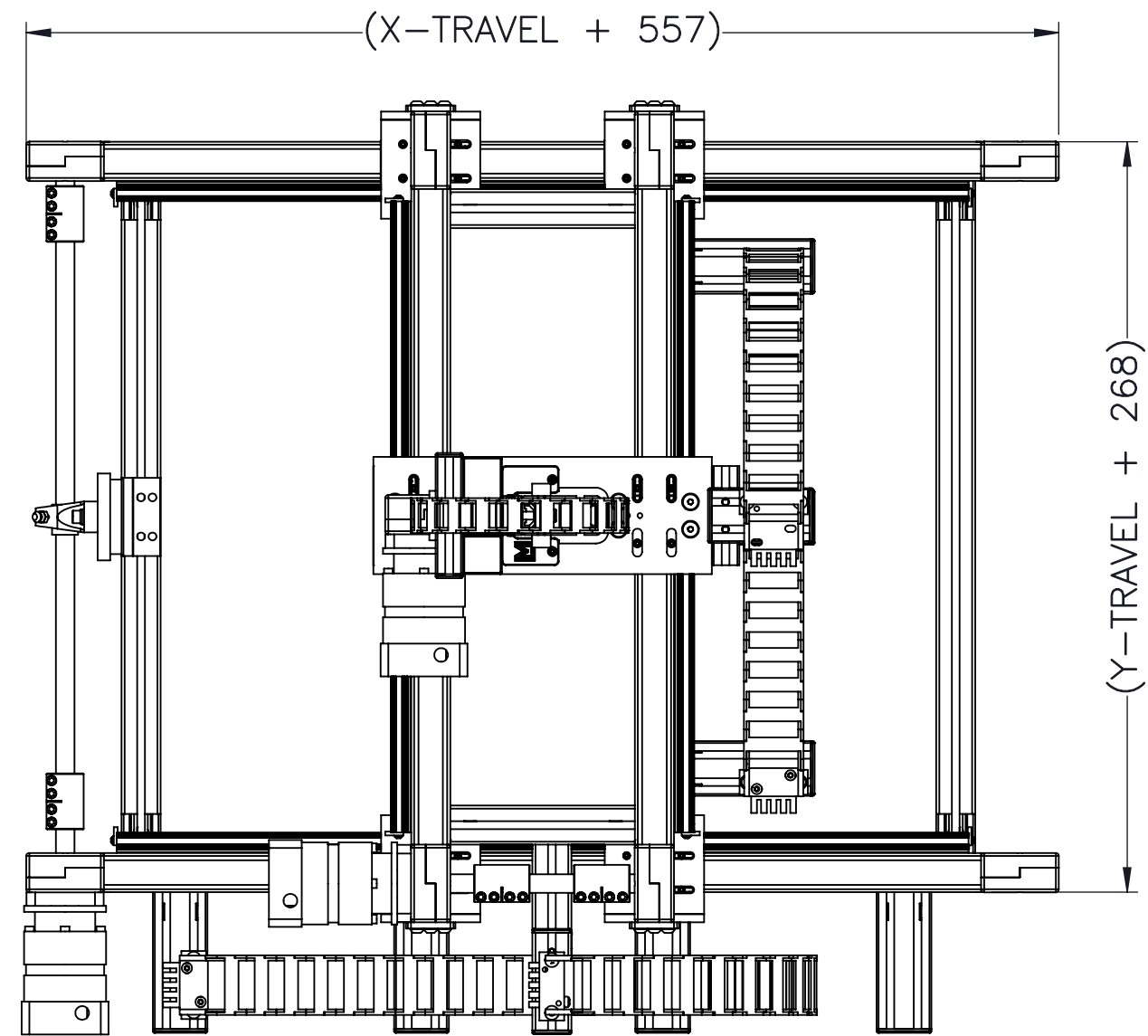
ENTER X-AXIS TRAVEL
 TRAVEL IN INCREMENTS OF 25mm
 TRAVEL LIMITS: 150mm-5575mm




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

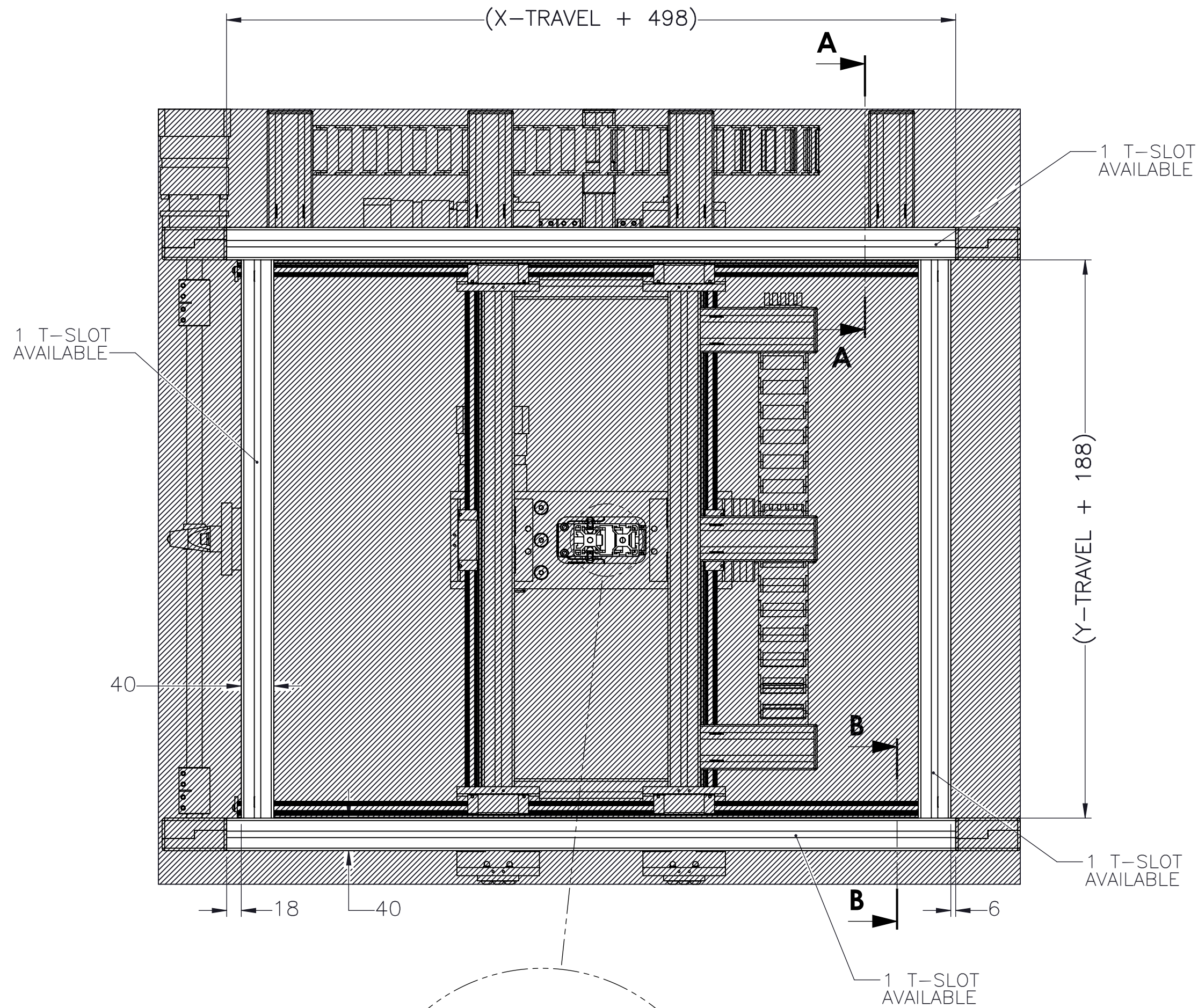
 MACRON DYNAMICS INC	DRAWN BY: JB DATE: 2/10/2016	MATERIAL:	TITLE: MACRON R6Y XYZ (BELT Z) GANTRY
	CHECKED BY: -- DATE: 2/11/2016	FINISH:	
	LAST SAVED BY: Blutinger DATE: 2/29/2016	.X ± .762 .XX ± .254 .XXX ± .127 OTHERWISE: ANG ± 0°30'	SCALE: 1:1 SHEET SIZE: C
	<small>THIS DRAWING IS THE PROPERTY OF 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>	SURFACE FINISH: <input checked="" type="checkbox"/>	SHEET: 1 OF 4 PART NUMBER: MCS-R6Y-X-X-BX

GANTRY FOOTPRINT

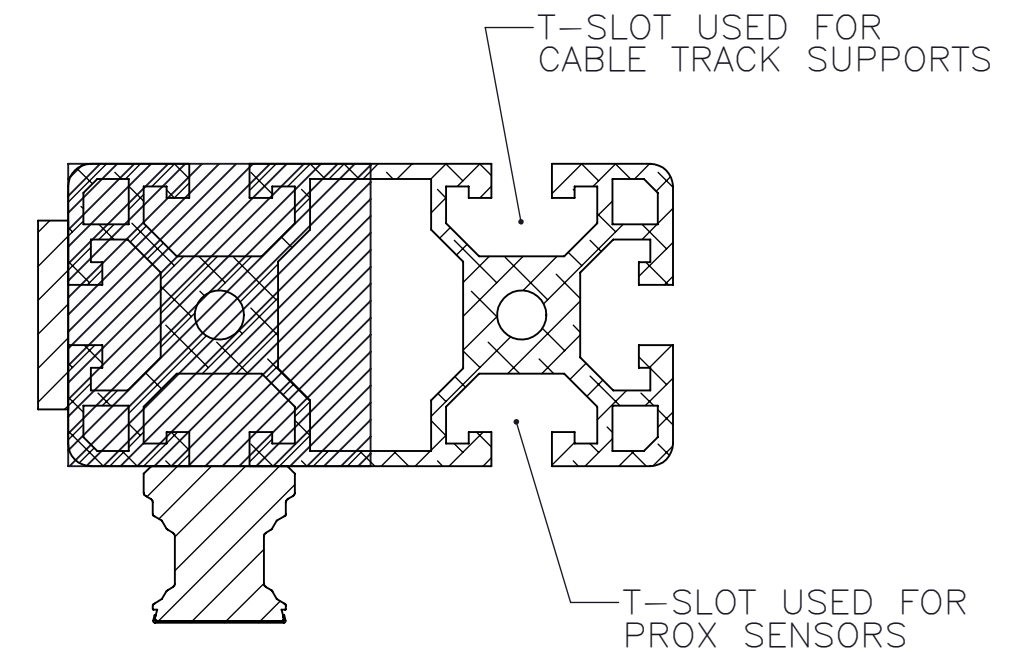


 MACRON DYNAMICS INC	DRAWN BY: JB DATE: 2/10/2016 MATERIAL:	TITLE: MACRON R6Y XYZ (BELT Z) GANTRY
	CHECKED BY: -- DATE: 2/11/2016	
	LAST SAVED BY: Blutinger DATE: 2/29/2016	
	UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE IN INCHES. TOLERANCES UNLESS NOTED OTHERWISE:	
SURFACE FINISH 63	FINISH:	SCALE 1:1 SHEET 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	SHEET 2 OF 4 PART NUMBER MCS-R6Y-X-X-BX REV 00
THIRD ANGLE PROJECTION		

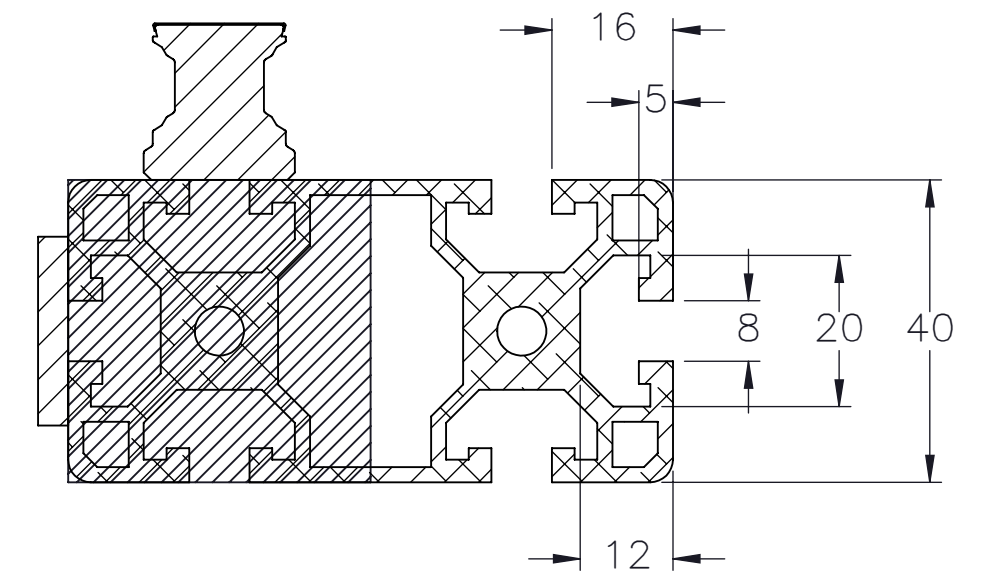
BOTTOM VIEW



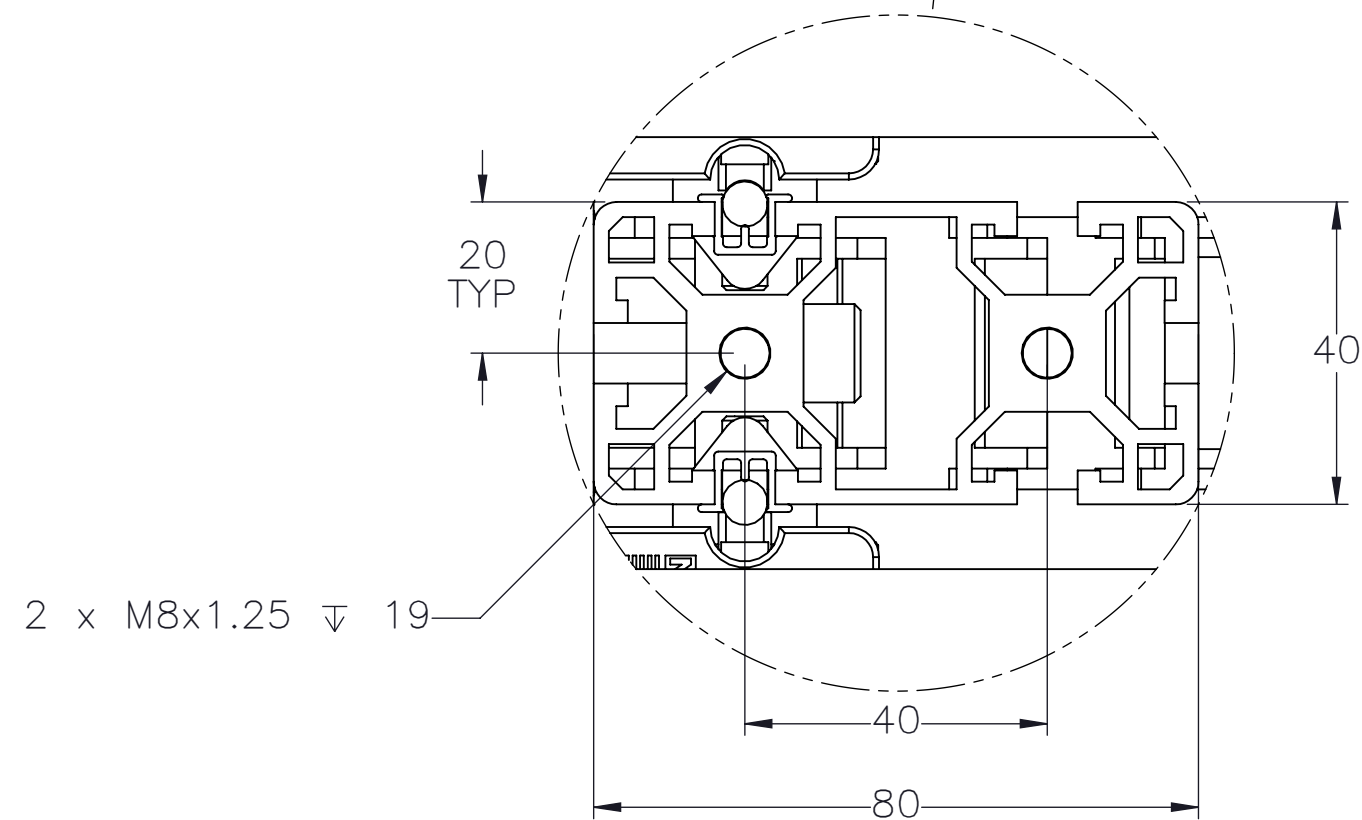
GANTRY MOUNTING FEATURES



SECTION A-A



SECTION B-B

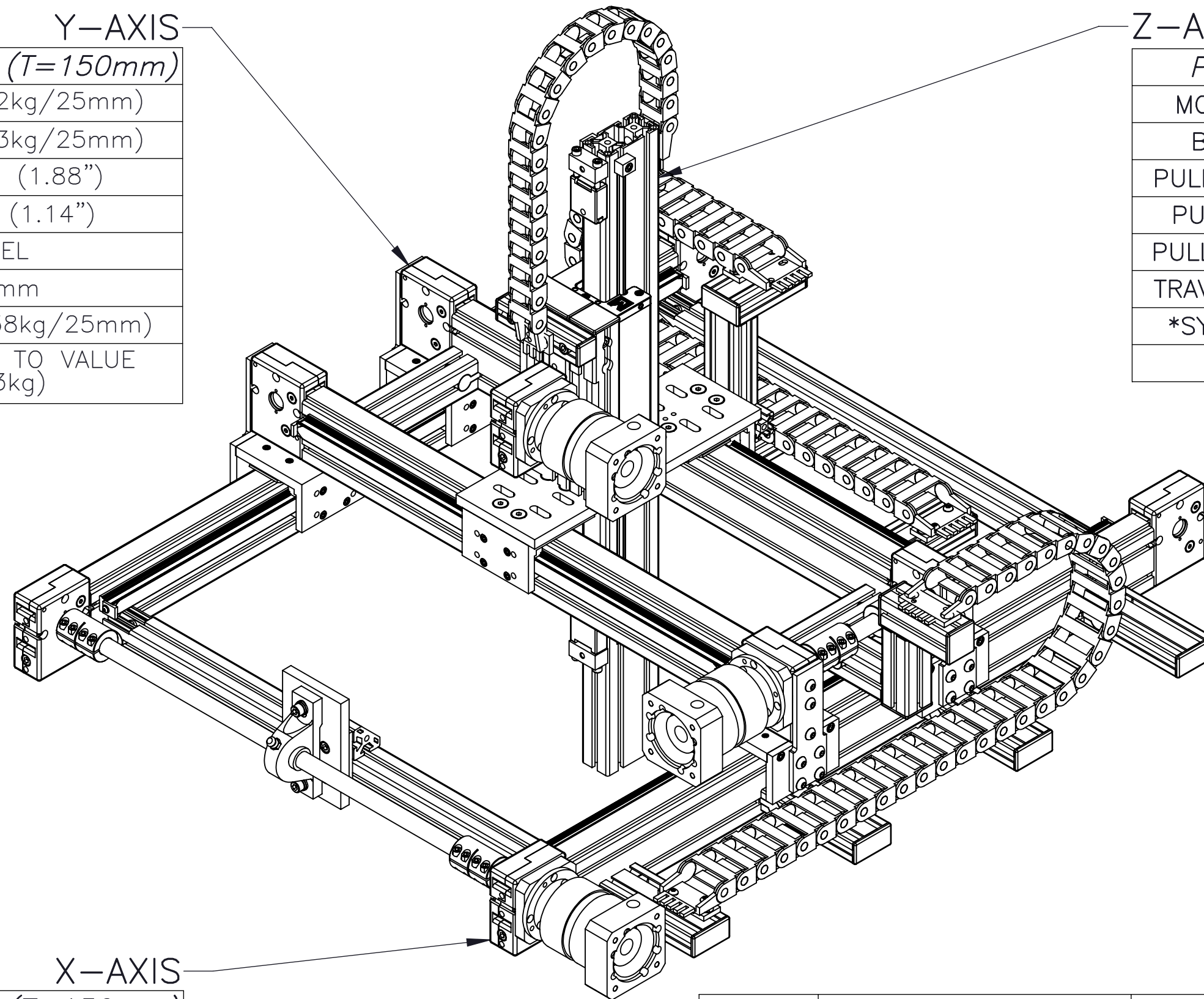


DETAIL C

<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: 2/29/2016	MATERIAL:	TITLE: MACRON R6Y 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: 3 OF 4	PART NUMBER: MCS-R6Y-X-X-BX	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=150mm)
**MOVING MASS	5.74kg(+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
TRAVEL PER REV	150mm
***SYSTEM MASS	11.77kg(+0.38kg/25mm)
ADD SYSTEM WEIGHT OF Z-AXIS TO VALUE *INCLUDES MPG-084 (2.3kg)	

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	10.38kg(+0.12kg/25mm)
*INCLUDES MPG-084 (2.3kg)	

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

PROPERTY	BASE VALUE (T=150mm)
***MOVING MASS	6.70kg(+0.02kg/25mm)
BELT MASS	0.83kg(+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	0.56kg(+0.06kg/25mm)
CONN SHAFT MATERIAL	STEEL
TRAVEL PER REV	150mm
****ADD SYSTEM MASS OF Y & Z-AXIS TO VALUE	

Z-AXIS	MOVING MASS	$(Z-TRAVEL \times .0046) + 2.86 = \text{kg}$
	SYSTEM MASS {1}	$(Z-TRAVEL \times .0049) + 9.65 = \text{kg}$
	BELT MASS	$(Z-TRAVEL \times .0003) + 0.14 = \text{kg}$
Y-AXIS	MOVING MASS	$(Y-TRAVEL \times .0008) + 5.62 + \{1\} = \text{kg}$
	SYSTEM MASS {2}	$(Y-TRAVEL \times .0154) + 9.47 = \text{kg}$
	BELT MASS	$(Y-TRAVEL \times .0012) + 0.38 = \text{kg}$
X-AXIS	MOVING MASS	$(X-TRAVEL \times .0008) + 6.58 + \{1\} + \{2\} + \{3\} = \text{kg}$
	BELT MASS	$(X-TRAVEL \times .0012) + 0.65 = \text{kg}$
	CONN SHAFT MASS {3}	$(Y-TRAVEL \times .0022) + 0.22 = \text{kg}$

 MACRON DYNAMICS INC	DRAWN BY: JB DATE: 2/10/2016 CHECKED BY: -- DATE: 2/11/2016 LAST SAVED BY: Blutinger DATE: 2/29/2016	MATERIAL:	TITLE: MACRON R6Y XYZ (BELT Z) GANTRY	
	UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE IN INCHES. TOLERANCES UNLESS NOTED OTHERWISE: .X ± .762 .XX ± .254 .XXX ± .127 ANG ± 0°30'	FINISH:		
	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 4 OF 4 PART NUMBER MCS-R6Y-X-X-BX REV 00