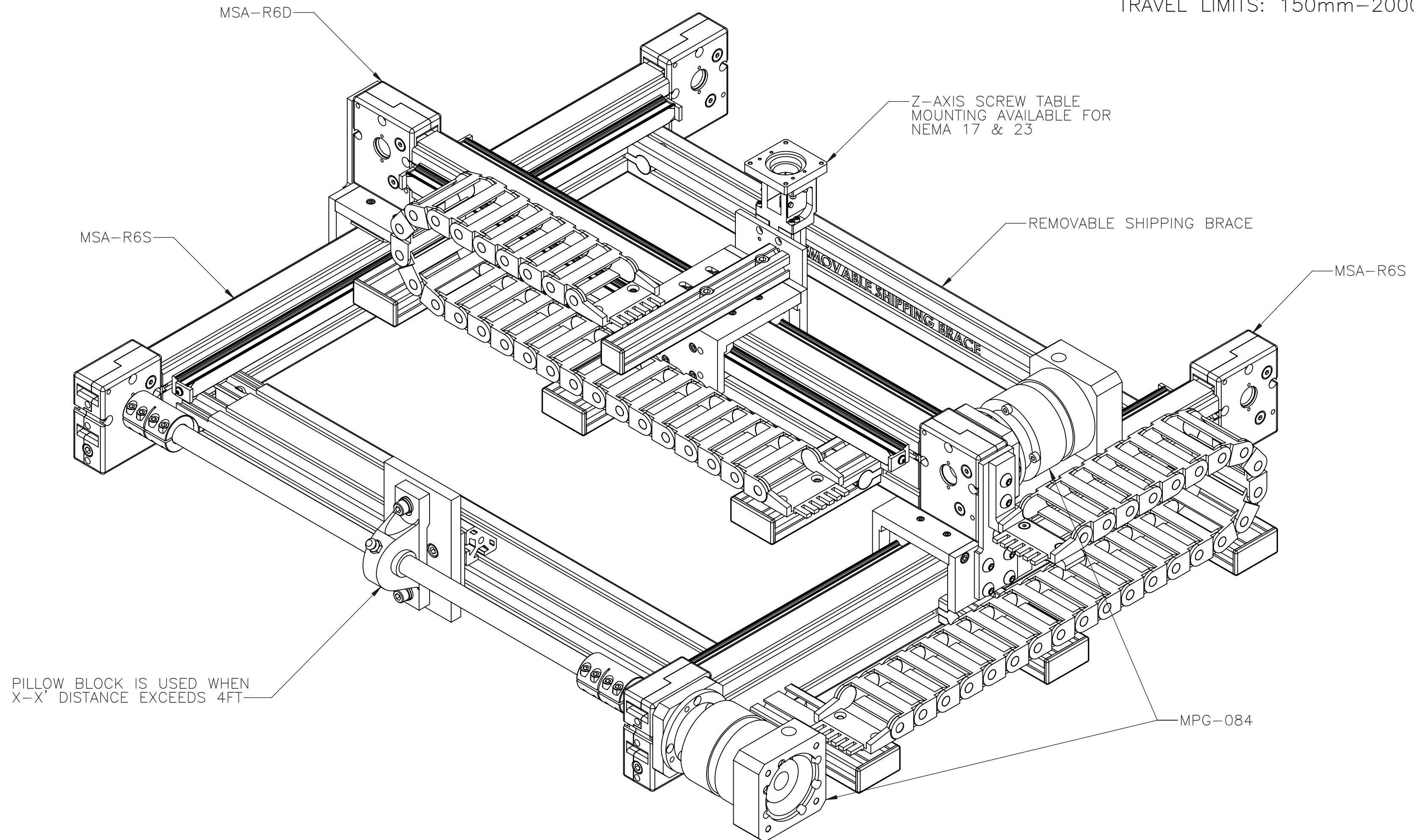



MCS-R6S- [] - [] - S []

ENTER Z-AXIS TRAVEL
TRAVEL OPTIONS (mm):
17, 67, 117, 167, 217, 267 & 317

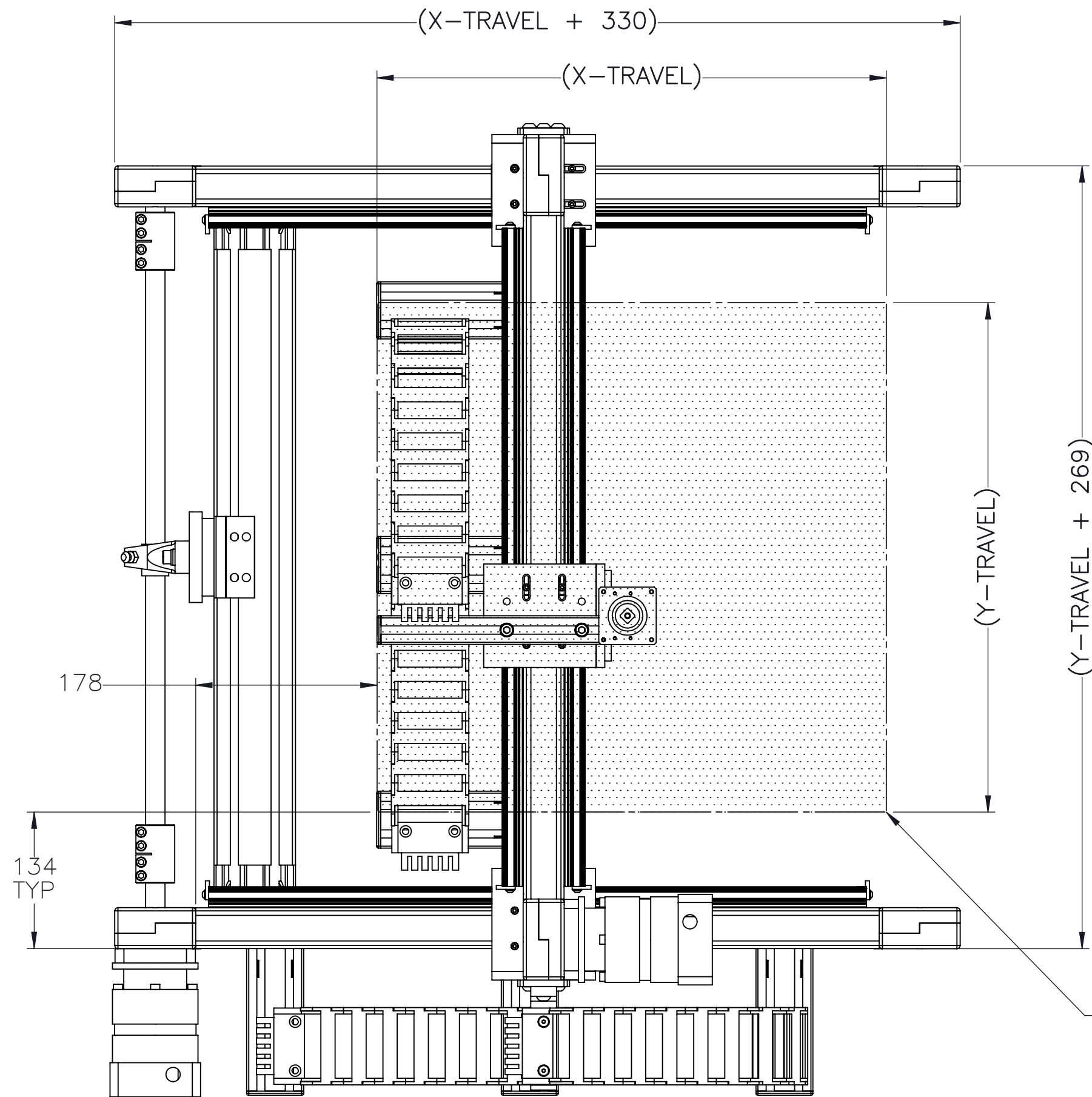
ENTER Y-AXIS TRAVEL
TRAVEL IN INCREMENTS OF 25mm
TRAVEL LIMITS: 150mm-2000mm

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



 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 (SCREW Z) GRANTRY
	UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE IN MILLIMETERS. TOLERANCES UNLESS NOTED OTHERWISE:		FINISH:	SCALE 1:1 SHEET SIZE C
	SURFACE FINISH \checkmark		SHEET 1 OF 5 PART NUMBER MCS-R6S-X-X-SX 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	

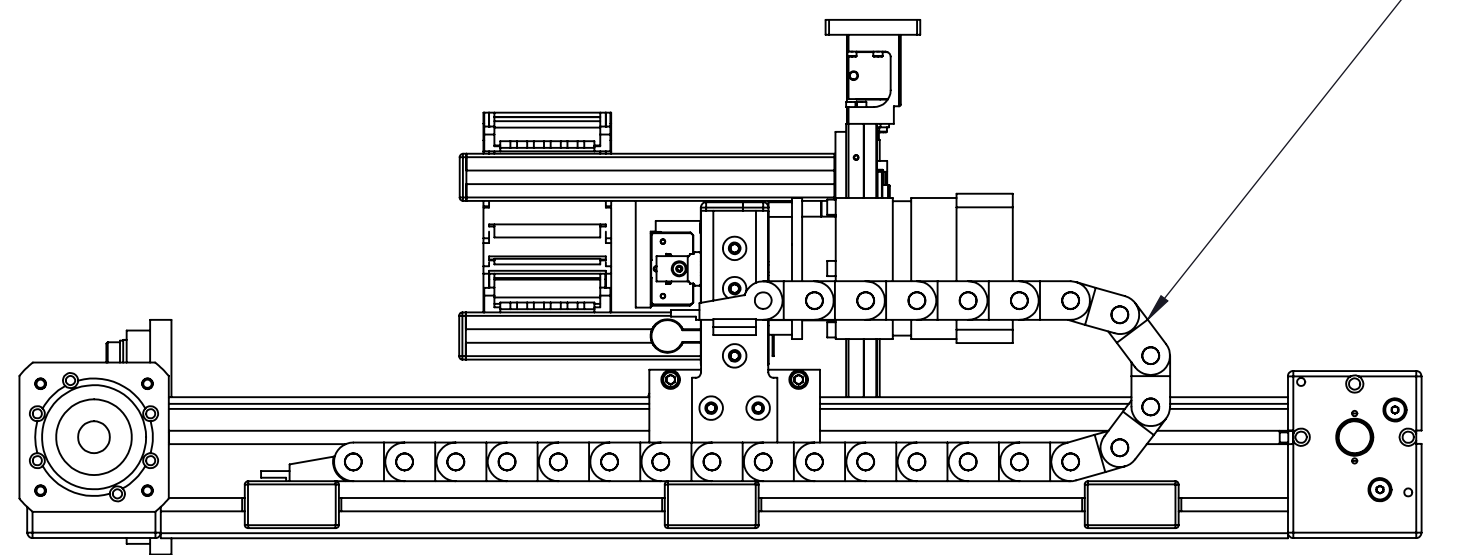
GANTRY FOOTPRINT



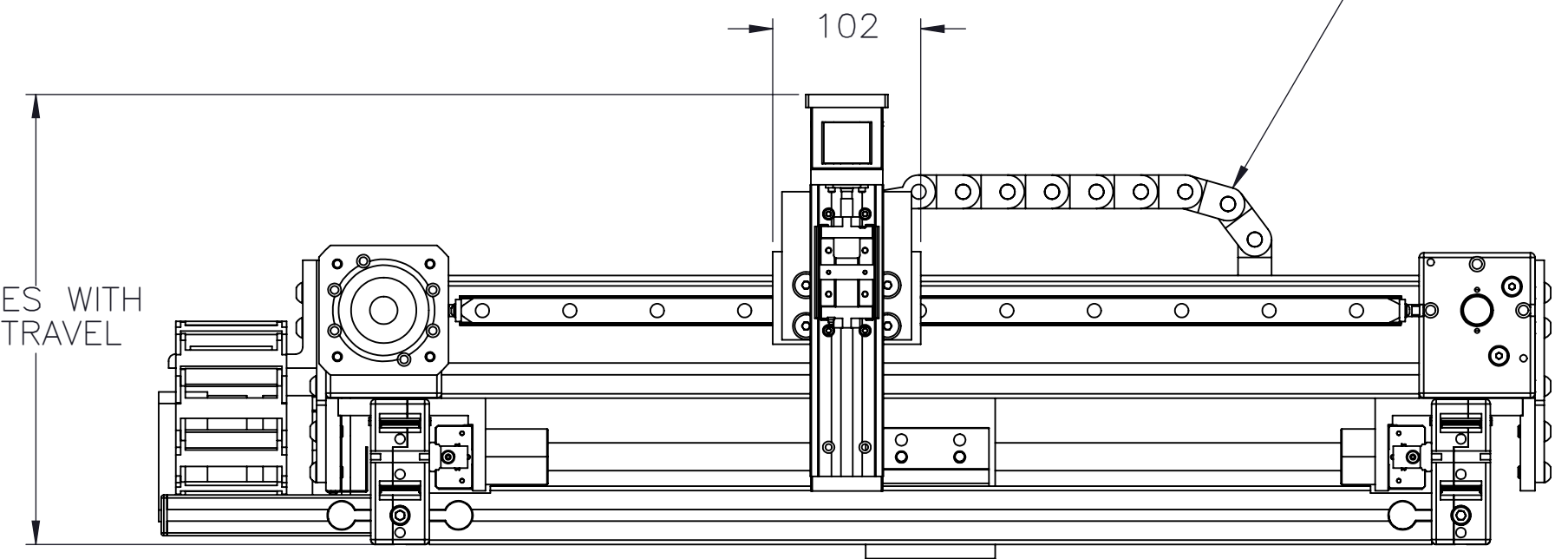
WORK ENVELOPE
(FROM CENTER OF
Z SCREW TABLE CART)


MINIMUM BEND RADIUS = 48

MINIMUM BEND RADIUS = 48

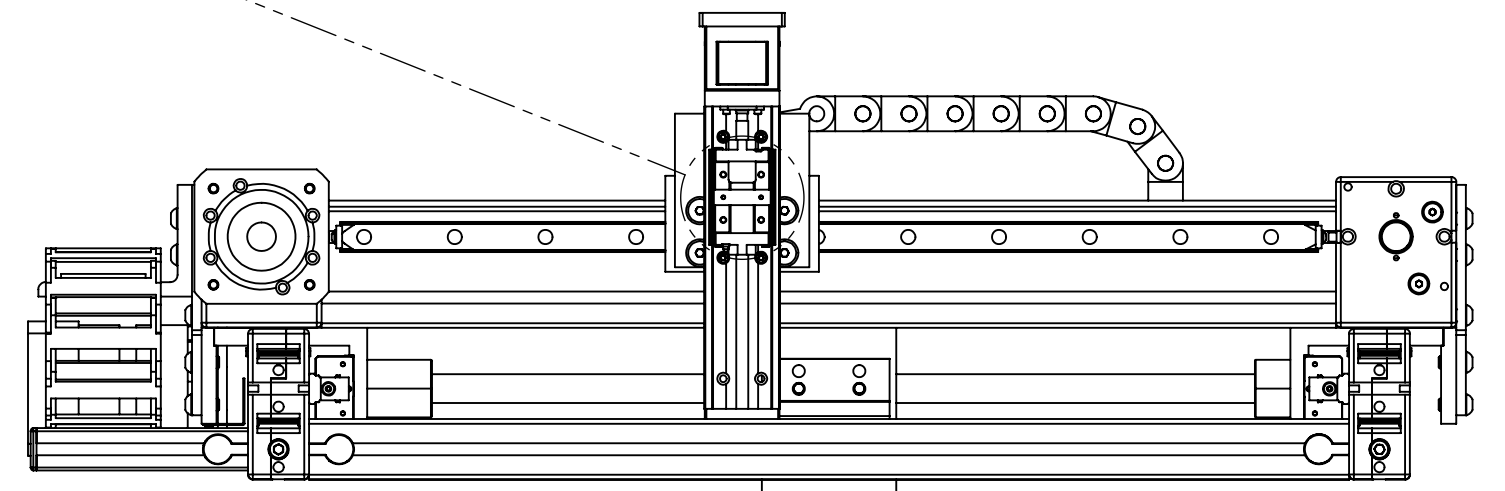
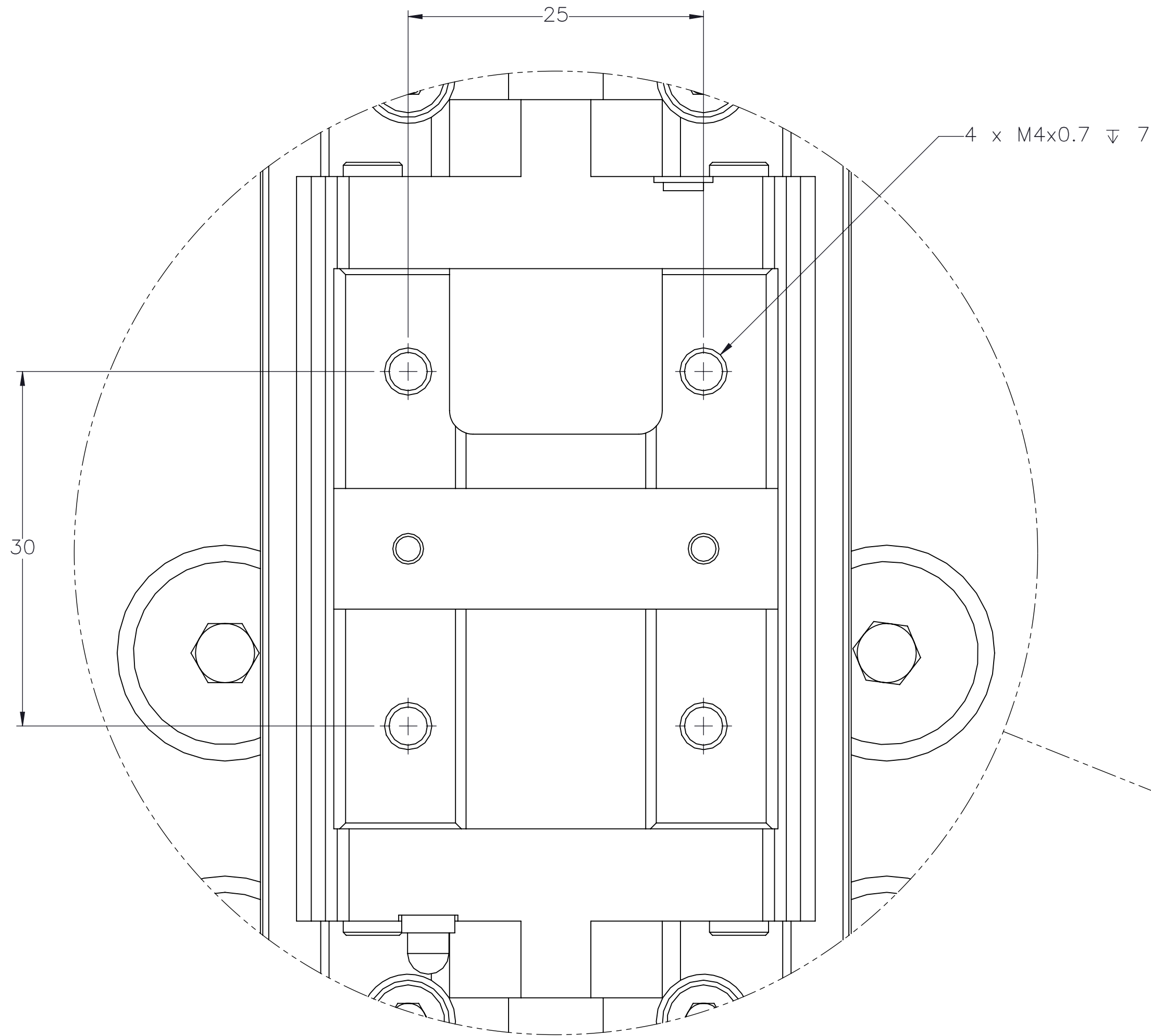


VARIES WITH
Z-TRAVEL




 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 (SCREW Z) GRANTRY
	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 MCS-R6S-X-X-SX	
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Z-AXIS SCREW TABLE CART MOUNTING FEATURES

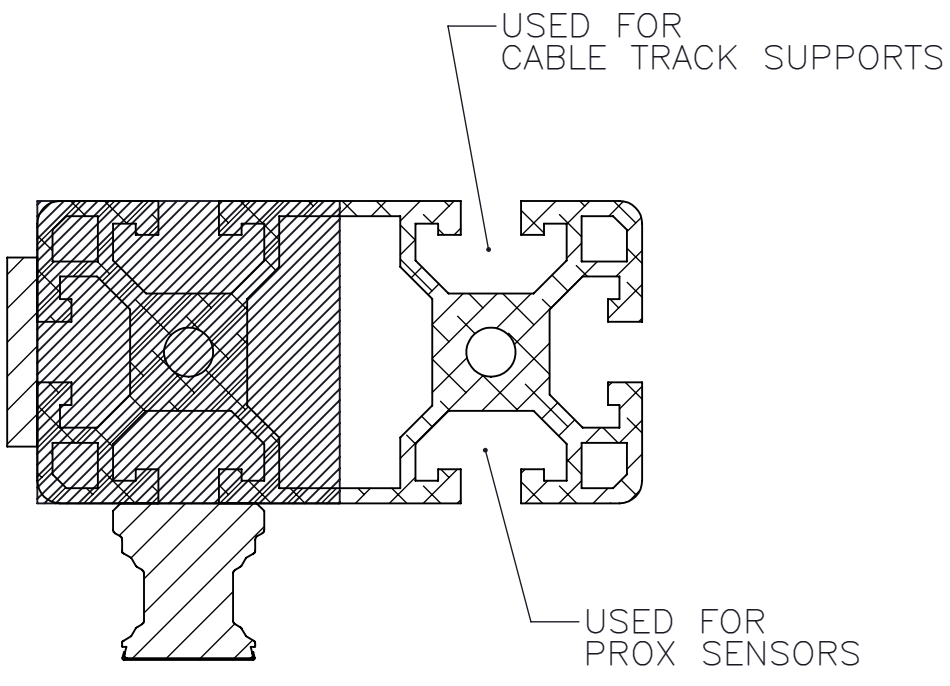
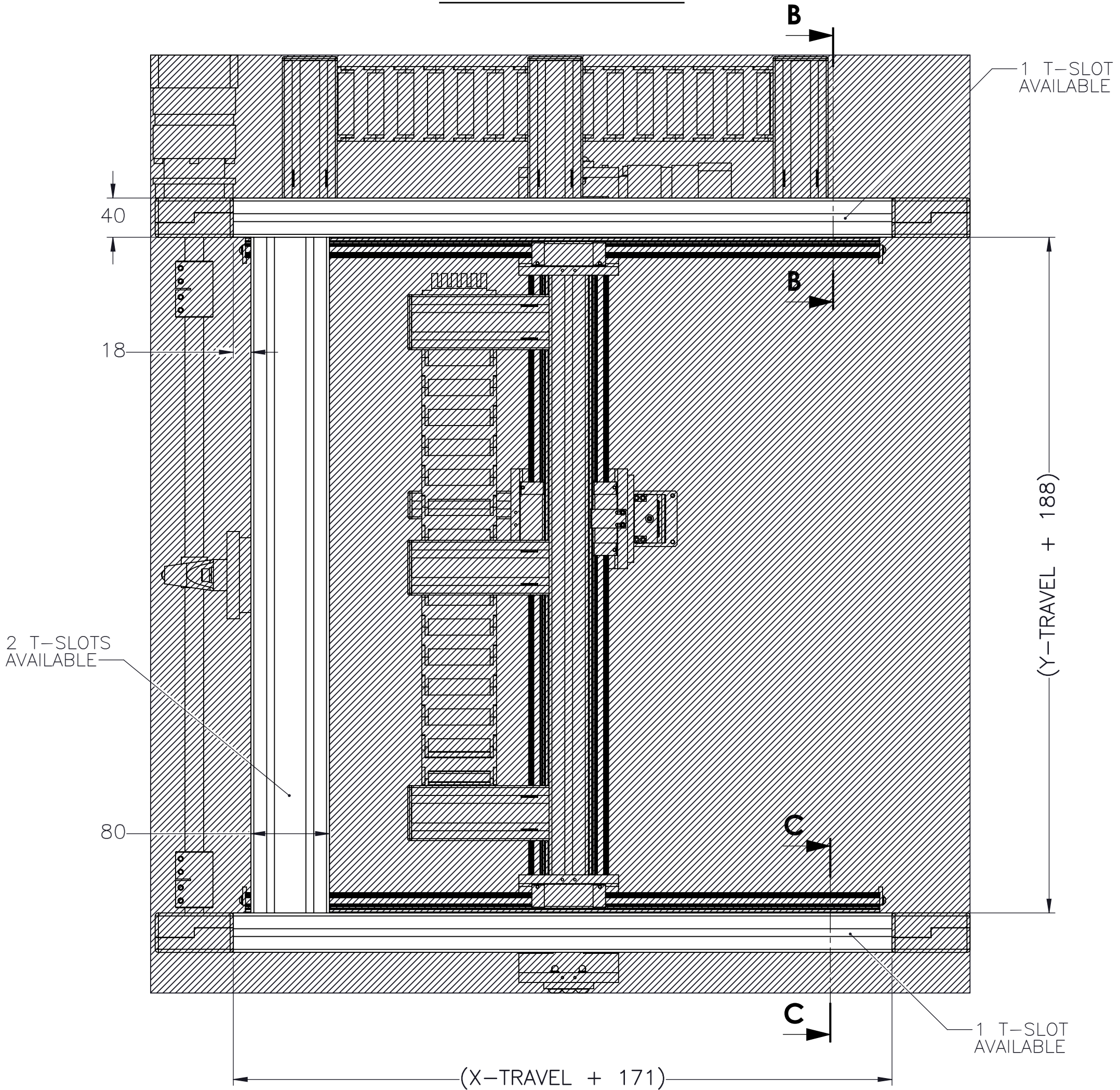


DETAIL A

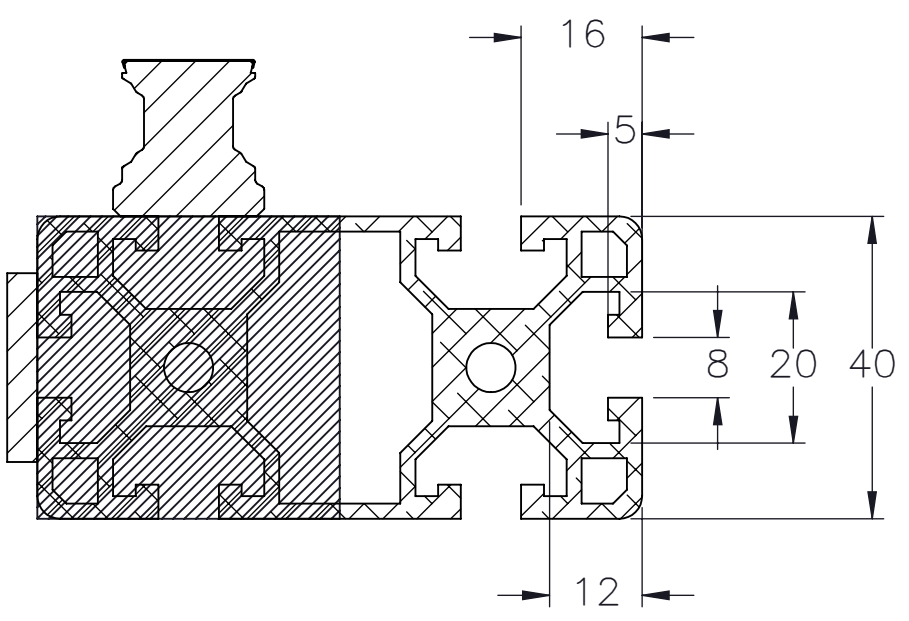
 MACRON DYNAMICS INC	DRAWN BY: JB CHECKED BY: -- LAST SAVED BY: Blutinger	DATE: 2/10/2016 DATE: 2/11/2016 DATE: 2/22/2016	MATERIAL:	TITLE: MACRON R6S XYZ (SCREW Z) GRANTRY
	UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE IN INCHES. TOLERANCES UNLESS NOTED OTHERWISE:	.X ± .03 .XX ± .010 .XXX ± .005 ANG ± 0°30'	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	SURFACE FINISH 63 BREAK ALL SHARP EDGES DIMENSIONAL LIMITS APPLY AFTER FINISHING THIRD ANGLE PROJECTION	SHEET 3 OF 5	PART NUMBER MCS-R6S-X-X-SX
			REV 00	

GANTRY MOUNTING FEATURES


BOTTOM VIEW



SECTION B-B



SECTION C-C

 MACRON DYNAMICS INC	DRAWN BY: JB DATE: 2/10/2016	MATERIAL:	TITLE: MACRON R6S XYZ (SCREW Z) GRANTRY
	CHECKED BY: -- DATE: 2/11/2016	FINISH:	
	LAST SAVED BY: Blutinger DATE: 2/22/2016	UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE IN INCHES: .XX ± .254 .XXX ± .127 OTHERWISE: ANG ± 0°30'	SCALE 1:1 SHEET SIZE C
	SURFACE FINISH 63	BREAK ALL SHARP EDGES DIMENSIONAL LIMITS APPLY AFTER FINISHING THIRD ANGLE PROJECTION	SHEET 4 OF 5 PART NUMBER MCS-R6S-X-X-SX REV 00

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MOTOR SIZING INFORMATION

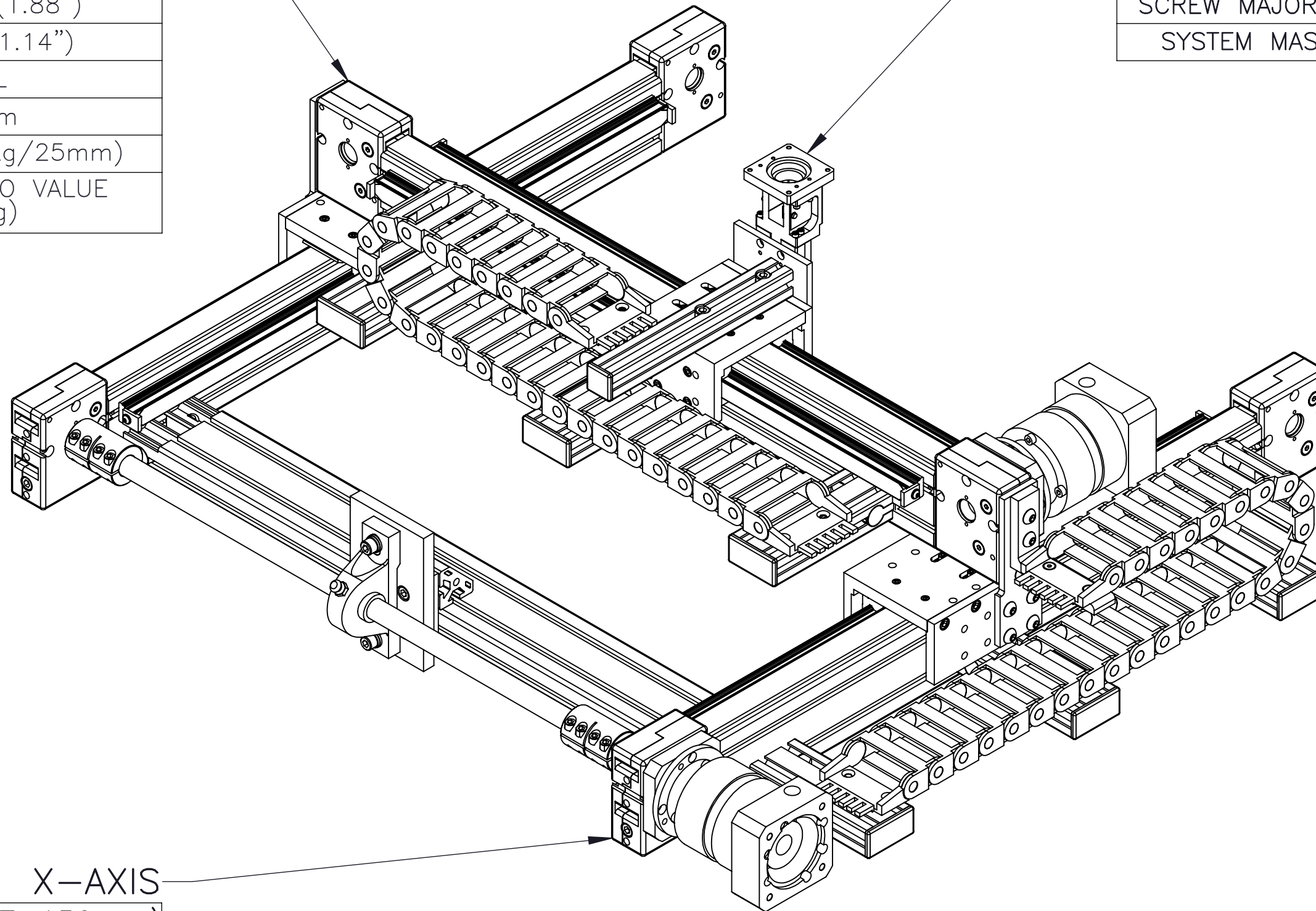
(INCREMENTAL ADDERS REFER TO MASS PER TRAVEL LENGTH)

Y-AXIS

PROPERTY	BASE VALUE (T=150mm)
*MOVING MASS	2.47kg(+0.03kg/25mm)
BELT MASS	0.27kg(+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	7.43kg(+0.15kg/25mm)
*ADD SYSTEM WEIGHT OF Z-AXIS TO VALUE **INCLUDES MPG-084 (2.3kg)	

Z-AXIS

PROPERTY	BASE VALUE (T=17mm)
MOVING MASS	0.25kg(+0.02kg/50mm)
MATERIAL	STEEL
SCREW MAJOR ϕ	8mm
SYSTEM MASS	0.8kg(+0.2kg/50mm)




X-AXIS

PROPERTY	BASE VALUE (T=150mm)
***MOVING MASS	4.75kg(+0.02kg/25mm)
BELT MASS	0.54kg(+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 WEIGHT OF Y & Z-AXIS TO VALUE	

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

Z-AXIS	MOVING MASS	$(Z-TRAVEL \times .0004) + 0.25 = \text{kg}$
	SYSTEM MASS {1}	$(Z-TRAVEL \times .0040) + 0.74 = \text{kg}$
Y-AXIS	MOVING MASS	$(Y-TRAVEL \times .0010) + 2.32 + \{1\} = \text{kg}$
	SYSTEM MASS {2}	$(Y-TRAVEL \times .0060) + 6.53 = \text{kg}$
	BELT MASS	$(Y-TRAVEL \times .0006) + 0.18 = \text{kg}$
X-AXIS	MOVING MASS	$(X-TRAVEL \times .0008) + 4.63 + \{1\} + \{2\} + \{3\} = \text{kg}$
	BELT MASS	$(X-TRAVEL \times .0012) + 0.36 = \text{kg}$
	CONN SHAFT MASS {3}	$(Y-TRAVEL \times .0022) + 0.22 = \text{kg}$

 MACRON DYNAMICS INC	DRAWN BY: JB CHECKED BY: -- LAST SAVED BY: Blutinger	DATE: 2/10/2016 DATE: 2/11/2016 DATE: 2/29/2016	MATERIAL: FINISH:	TITLE: MACRON R6S XYZ (SCREW Z) GRANTRY
	UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE IN INCHES. TOLERANCES UNLESS NOTED OTHERWISE:	SURFACE FINISH 63 BREAK ALL SHARP EDGES DIMENSIONAL LIMITS APPLY AFTER FINISHING THIRD ANGLE PROJECTION	SCALE 1:1 SHEET SIZE C	SHEET 5 OF 5 PART NUMBER MCS-R6S-X-X-SX REV 00

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