

GEARBOX MODEL (X AXIS)
 MPG-064 ___ MPG-084 ___
 MRG-064 ___ MRG-084 ___
 RATIO: _____

GEARBOX MODEL (Y AXIS)
 MPG-064 ___ MPG-084 ___
 MRG-064 ___ MRG-084 ___
 RATIO: _____

GEARBOX MODEL (Z AXIS)
 MPG-064 ___ MPG-084 ___
 MRG-064 ___ MRG-084 ___
 RATIO: _____

FOR DIRECT DRIVE OPTION WITH MMK
 (NO GEARBOX) CHECK HERE: _____

MOTOR INFORMATION (X AXIS)
 MANUFACTURER: _____
 MODEL: _____

MOTOR INFORMATION (Y AXIS)
 MANUFACTURER: _____
 MODEL: _____

MOTOR INFORMATION (Z AXIS)
 MANUFACTURER: _____
 MODEL: _____

SENSOR INFORMATION X-AXIS:
 HOME-QTY ___ 244-____-____-____
 EOT-QTY ___ 244-____-____-____

SENSOR INFORMATION Y-AXIS:
 HOME-QTY ___ 244-____-____-____
 EOT-QTY ___ 244-____-____-____

SENSOR INFORMATION Z-AXIS:
 HOME-QTY ___ 244-____-____-____
 EOT-QTY ___ 244-____-____-____

(SEE T-SLOT SENSOR KIT SHEET
 FOR PART NUMBER CONFIGURATION)

APPROVED: _____
 SIGN & PRINT

DATE: _____

PO:REFERENCE#: _____

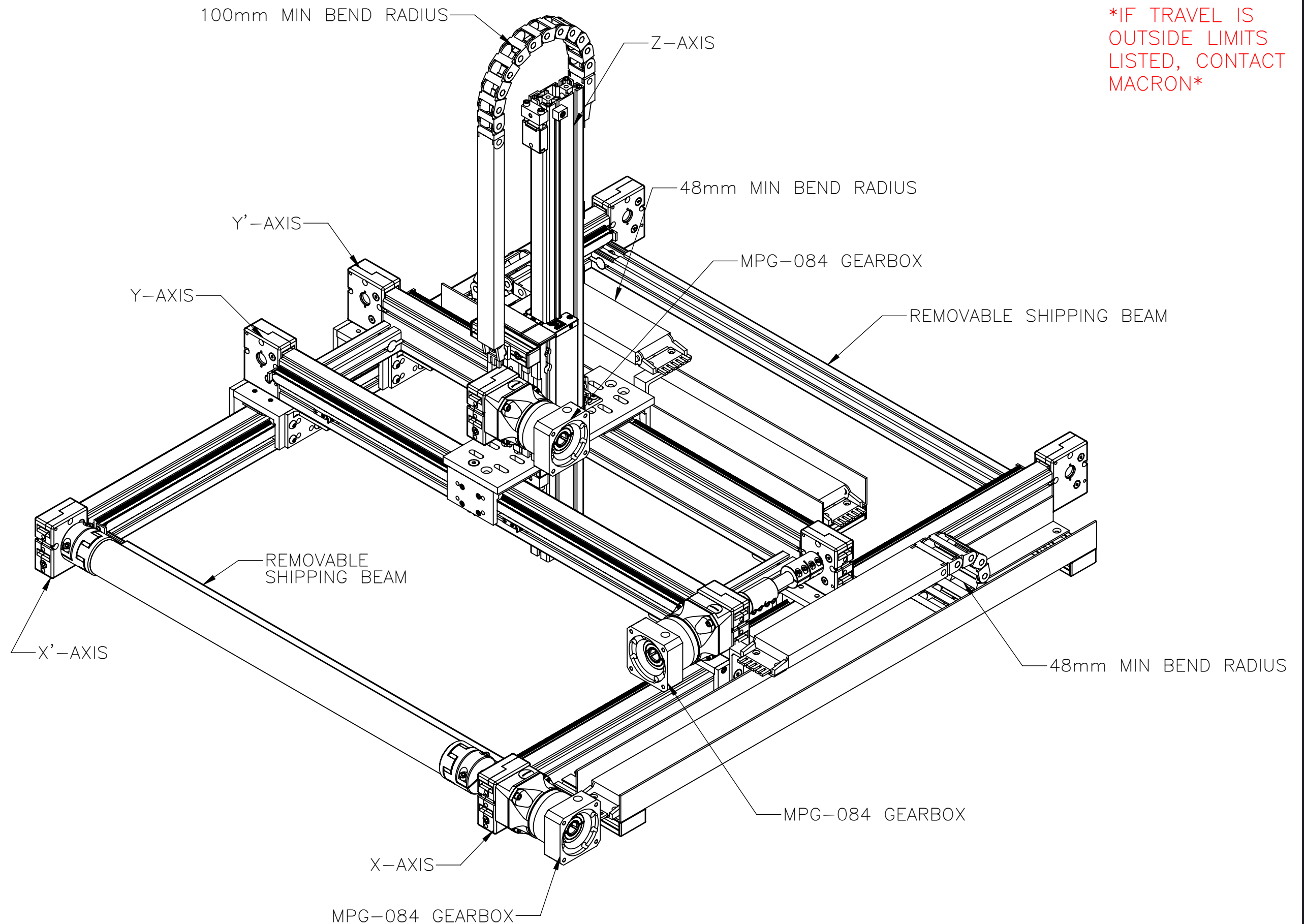
MCS-R6Y-

ENTER Z-AXIS TRAVEL
 TRAVEL IN INCREMENTS OF 25mm
 TRAVEL LIMITS: 150mm-500mm

ENTER Y-AXIS TRAVEL
 TRAVEL IN INCREMENTS OF 25mm
 TRAVEL LIMITS: 150mm-1500mm

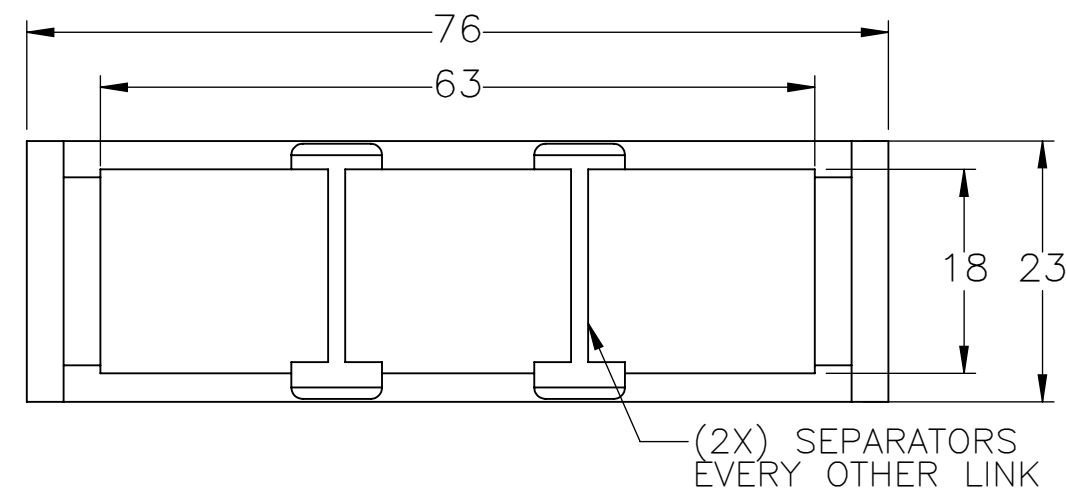
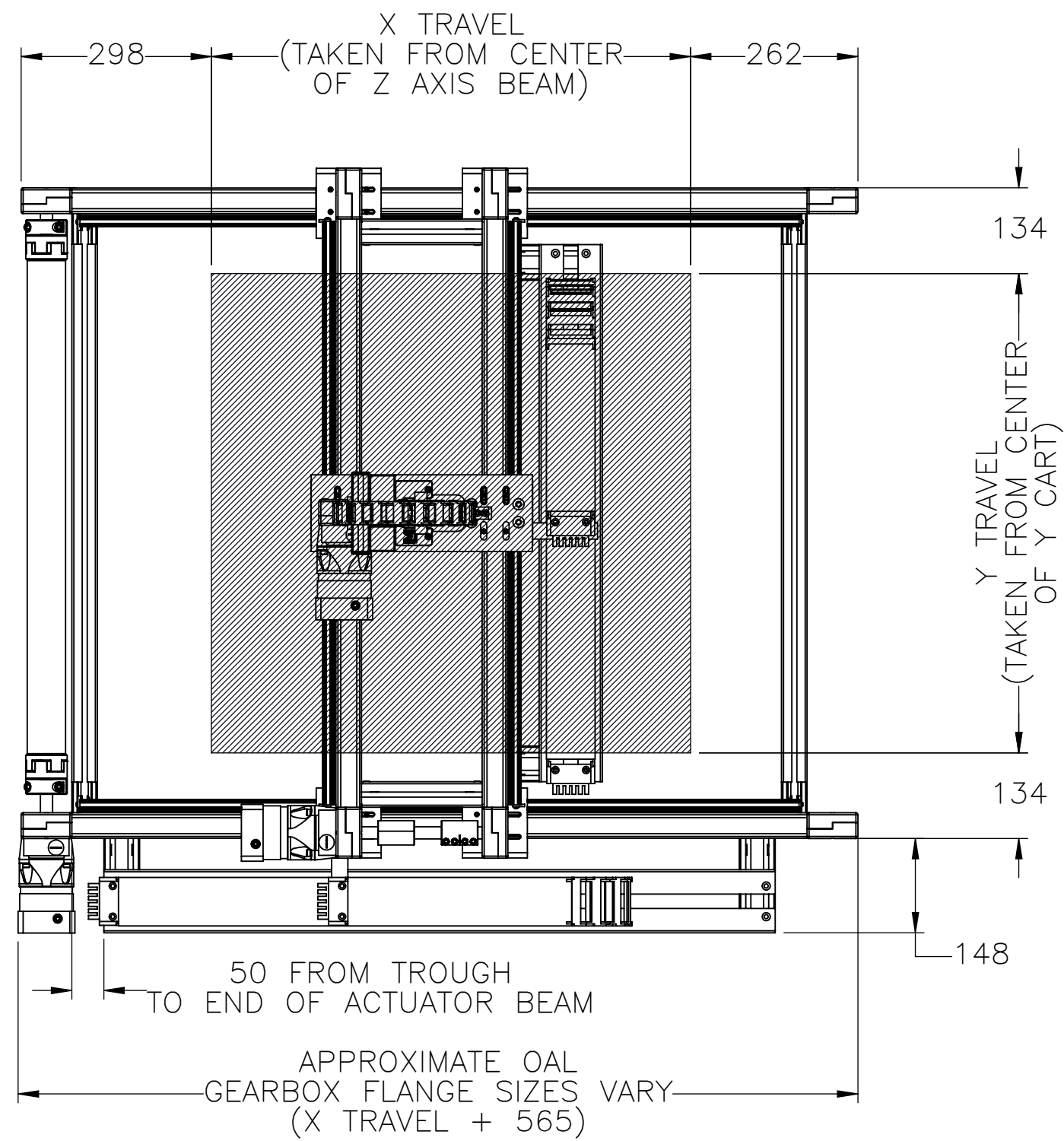
ENTER X-AXIS TRAVEL
 TRAVEL IN INCREMENTS OF 25mm
 TRAVEL LIMITS: 150mm-5825mm

*IF TRAVEL IS
 OUTSIDE LIMITS
 LISTED, CONTACT
 MACRON*

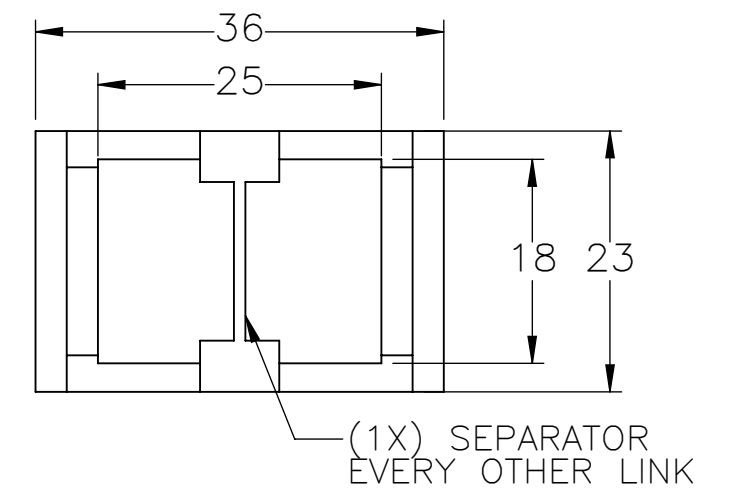


 MACRON DYNAMICS INC	DRAWN BY: PHW DATE: 11/26/2017 CHECKED BY: -- DATE: DD/MM/YYYY LAST SAVED BY: Tim DATE: 12/30/2021	MATERIAL:	TITLE: MACRON R6S XYZ GANTRY
	<small>UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE IN MILLIMETERS. TOLERANCES UNLESS NOTED OTHERWISE:</small> .X ± .762 .XX ± .254 .XXX ± .127 ANG ± 0°30'	FINISH:	
	SURFACE FINISH: $\sqrt{\quad}$ BREAK ALL SHARP EDGES DIMENSIONAL LIMITS APPLY AFTER FINISHING THIRD ANGLE PROJECTION	SHEET: 1 OF 6 PART NUMBER: MCS-R6Y-X-X-X	SCALE: 1:1 SHEET SIZE: C REV:

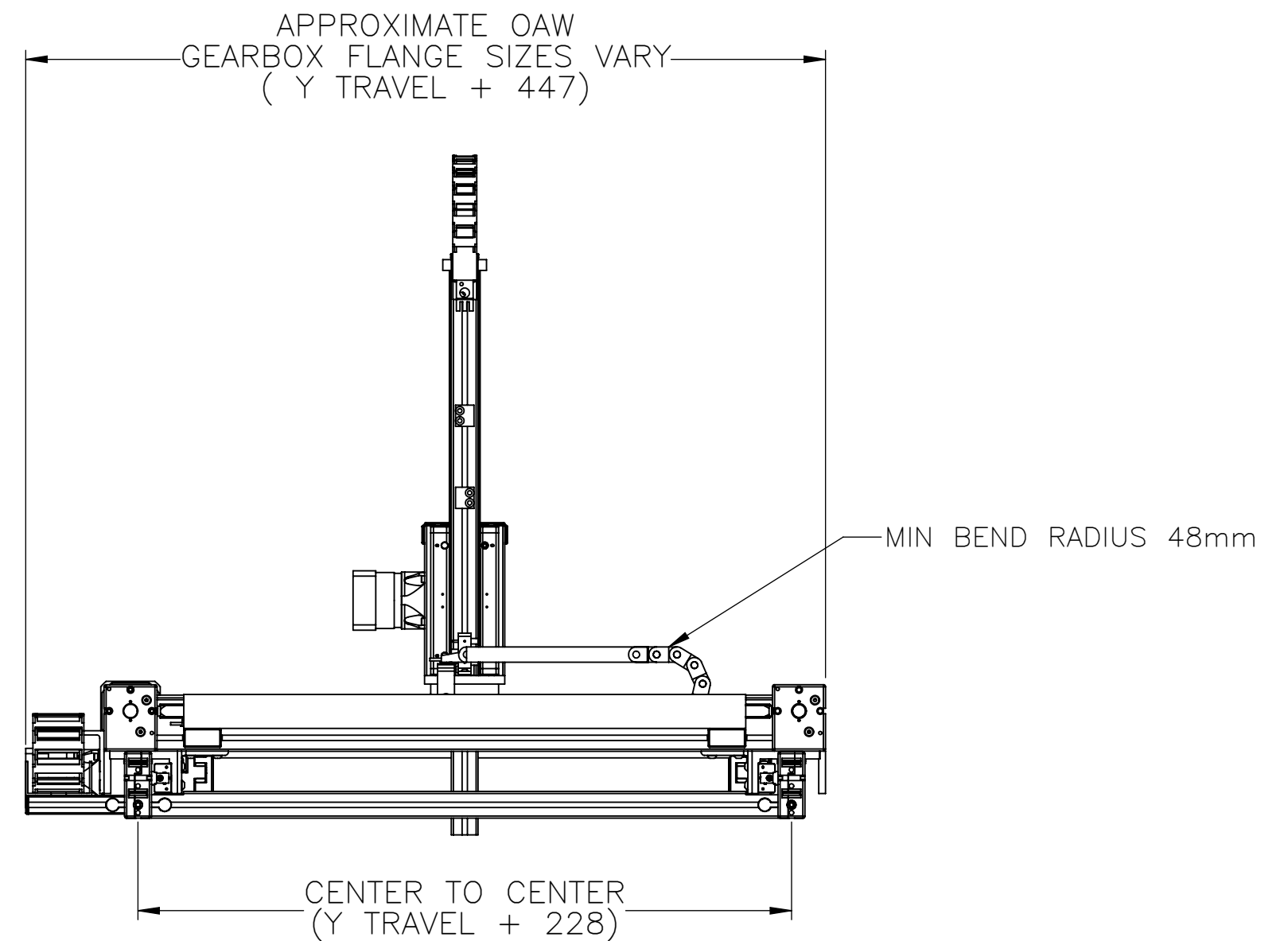
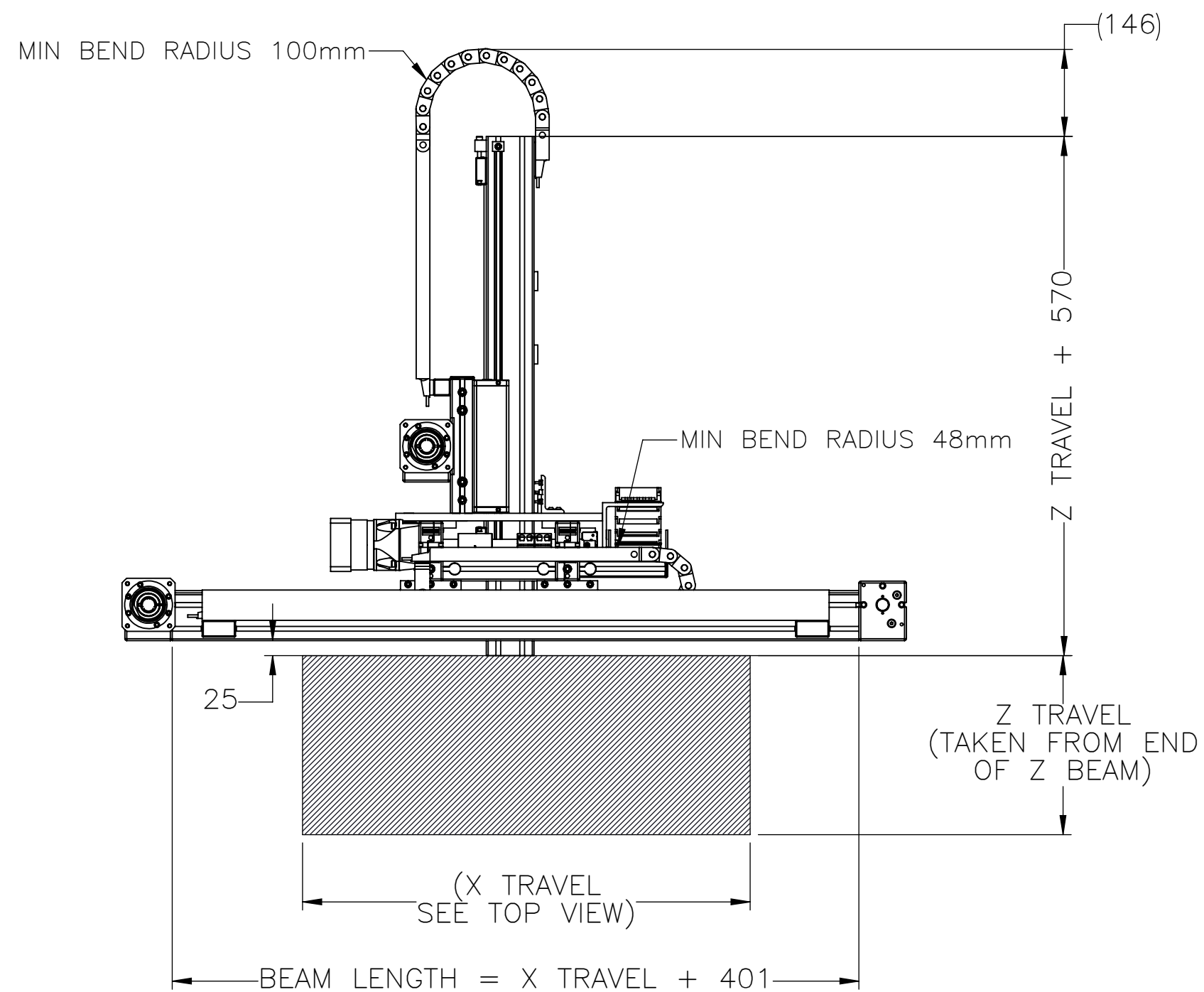
WORK ENVELOPE AND GANTRY FOOTPRINT



CABLE TRACK CROSS SECTION
(SAME FOR X AND Y AXIS)

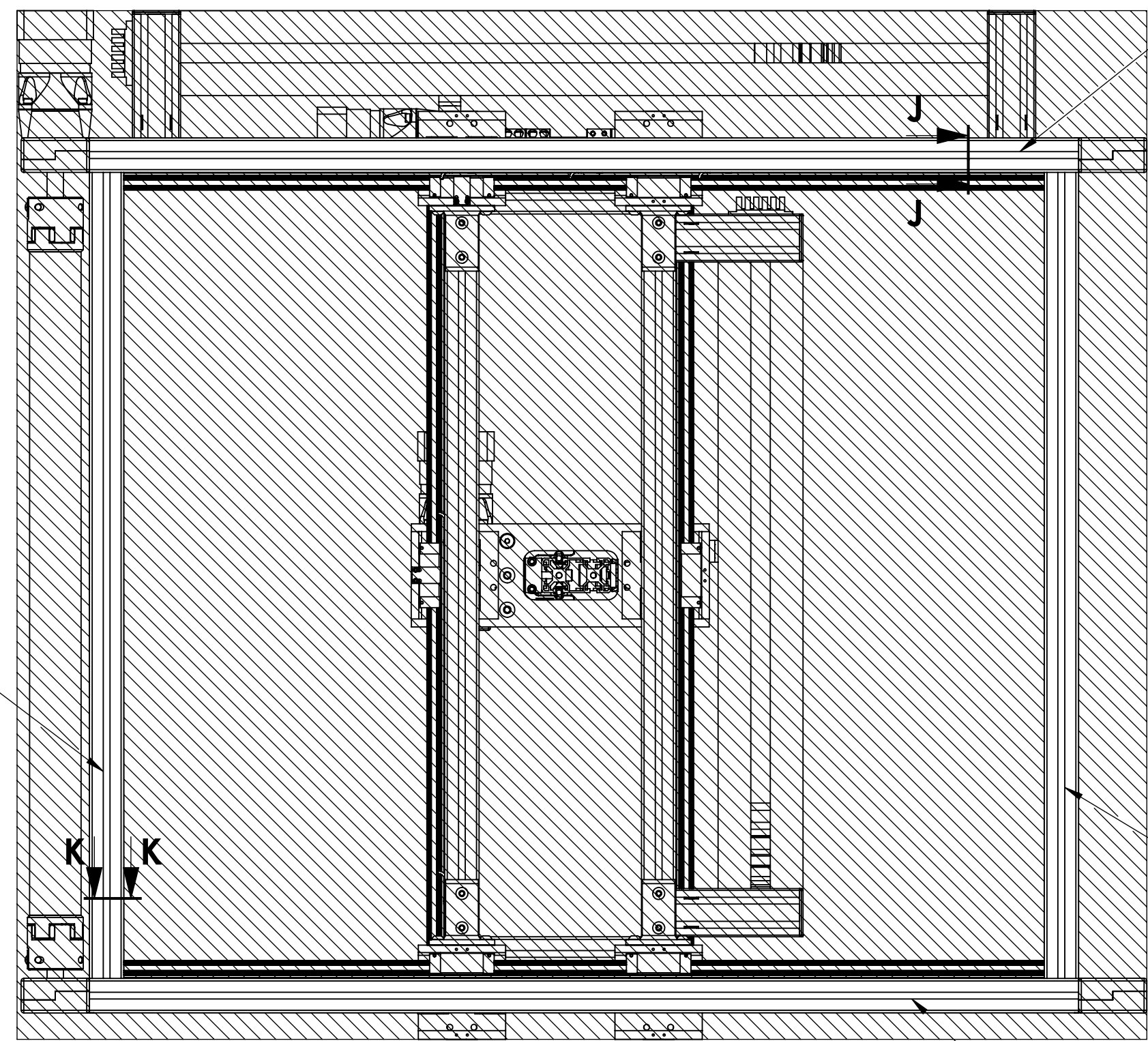


Z CABLE TRACK CROSS SECTION

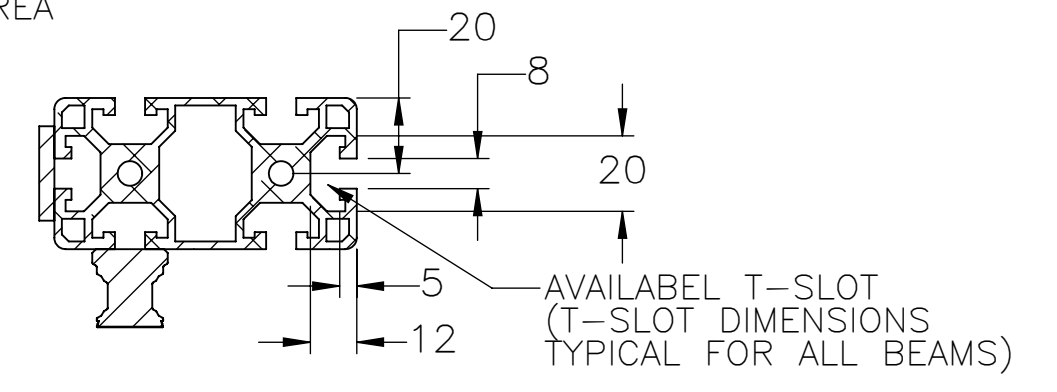


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	UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE IN INCHES. TOLERANCES UNLESS NOTED OTHERWISE: .X ± .03 .XX ± .010 .XXX ± .005 ANG ± 0.30°		FINISH: 63	SCALE 1:1 SHEET SIZE C	
	SURFACE FINISH 63		SHEET 2 OF 6	PART NUMBER MCS-R6Y-X-X-X	REV
	BREAK ALL SHARP EDGES DIMENSIONAL LIMITS APPLY AFTER FINISHING THIRD ANGLE PROJECTION				

GANTRY MOUNTING FEATURES



(1X) T-SLOT AVAILABLE
SUGGESTED MOUNTING AREA



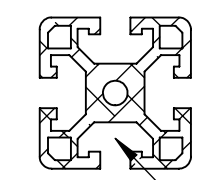
SECTION J-J

(1X) T-SLOT AVAILABLE
IF BEAM IS NOT REMOVED

(1X) T-SLOT AVAILABLE
IF BEAM IS NOT REMOVED


(1X) T-SLOT AVAILABLE
SUGGESTED MOUNTING AREA

BOTTOM VIEW

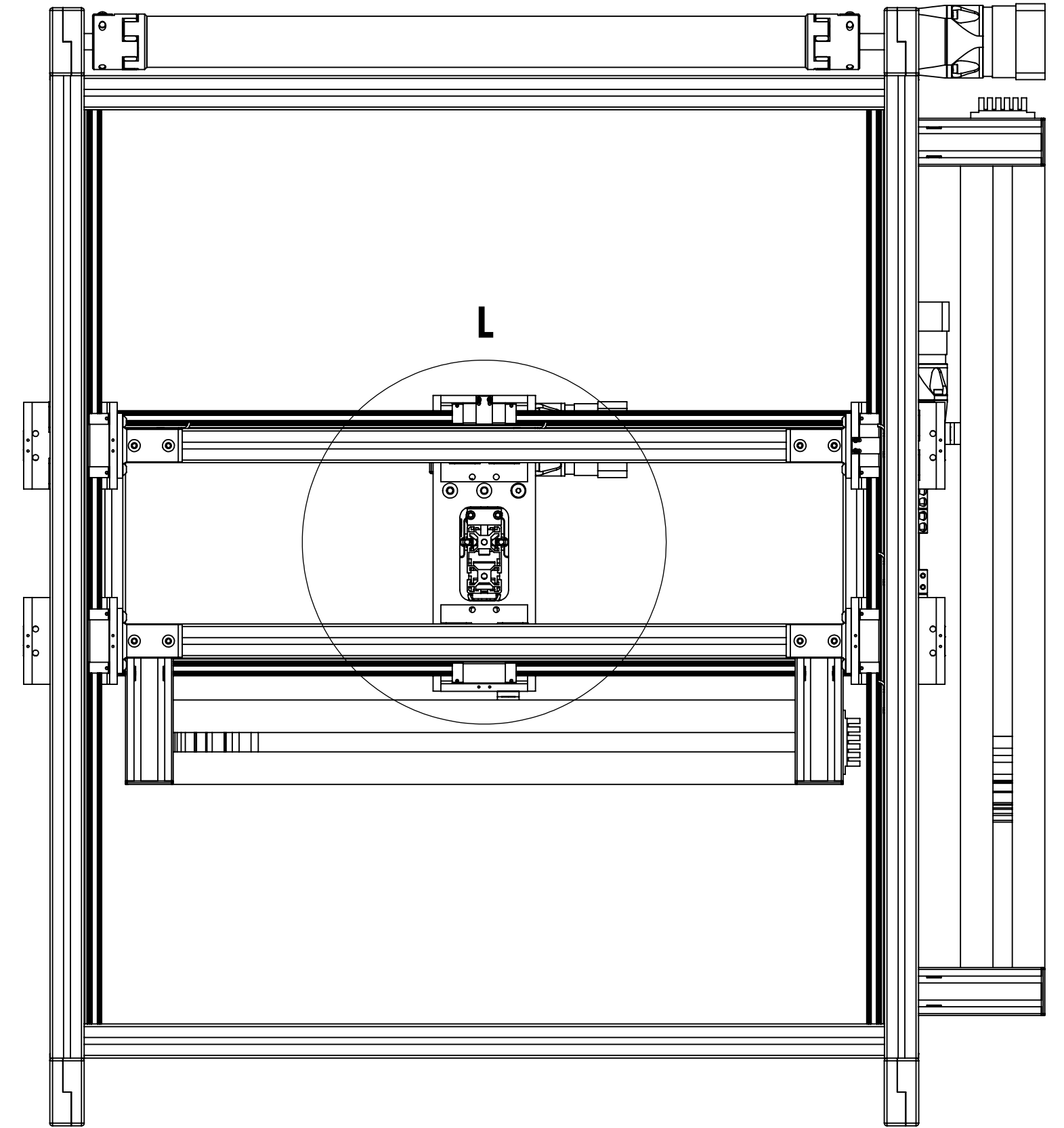
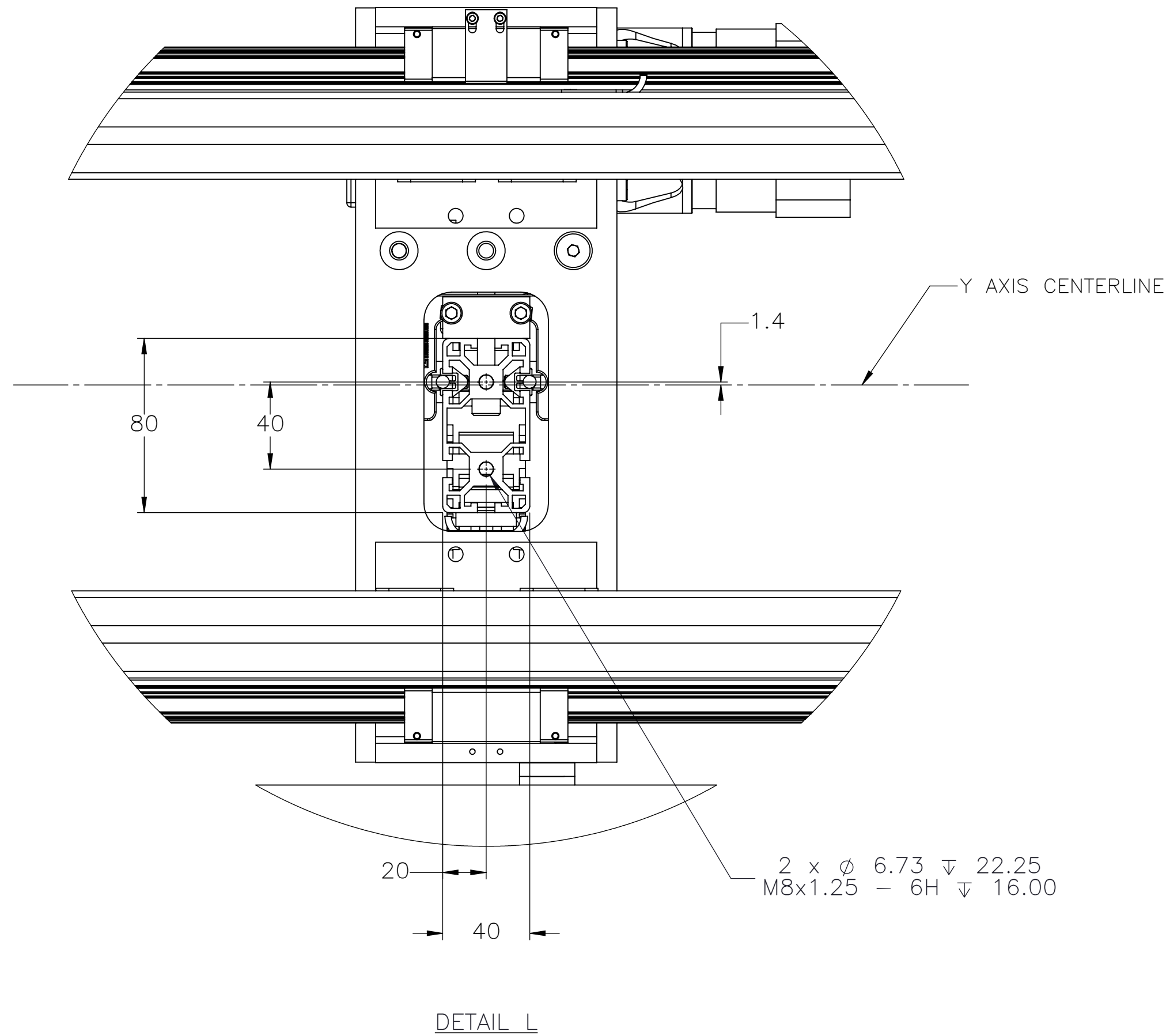



(1X) T-SLOT AVAILABLE

SECTION K-K

 MACRON DYNAMICS INC	DRAWN BY: PHW DATE: 11/26/2017	MATERIAL:	TITLE: MACRON R6S XYZ GANTRY
	CHECKED BY: -- DATE: DD/MM/YYYY	FINISH:	
	LAST SAVED BY: Tim DATE: 12/30/2021	UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE IN INCHES: TOLERANCES UNLESS NOTED OTHERWISE: .X ± .762 .XX ± .254 .XXX ± .127 ANG ± 0°30'	
	SURFACE FINISH 63		
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BREAK ALL SHARP EDGES DIMENSIONAL LIMITS APPLY AFTER FINISHING THIRD ANGLE PROJECTION		REV C	

CART MOUNTING FEATURES



 MACRON DYNAMICS INC	DRAWN BY: PHW CHECKED BY: -- LAST SAVED BY: Tim	DATE: 11/26/2017 DATE: DD/MM/YYYY DATE: 12/30/2021	MATERIAL:	TITLE: MACRON R6Y XYZ GANTRY	
	UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE IN INCHES. TOLERANCES UNLESS NOTED OTHERWISE:		FINISH:	SCALE 1:1 SHEET SIZE C	
	SURFACE FINISH 63		SHEET	PART NUMBER	REV
	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	4 OF 6	MCS-R6Y-X-X-X

MOTOR SIZING WORKSHEET

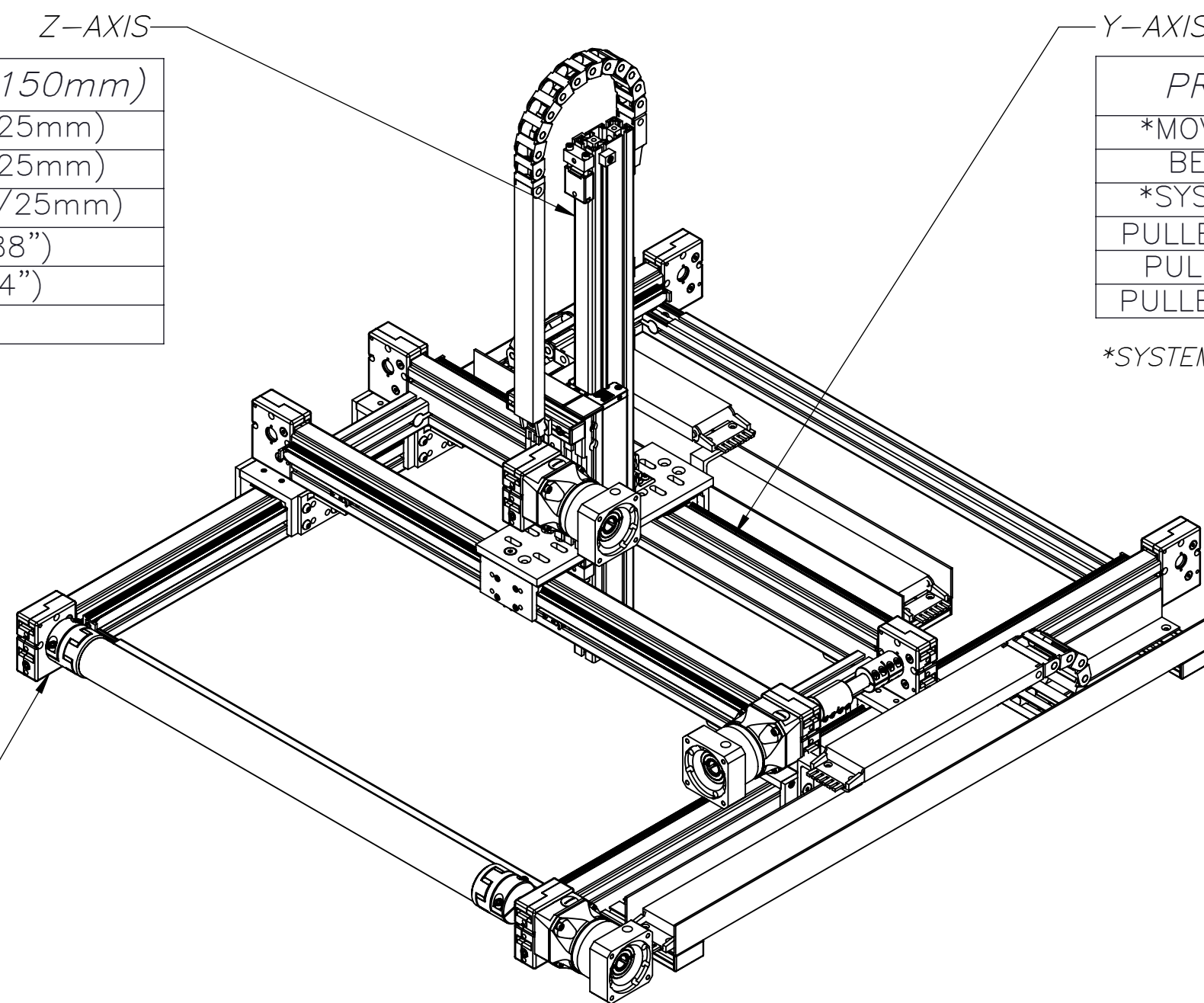
(INCREMENTAL ADDERS REFER TO MASS PER TRAVEL LENGTH)

BASE TRAVELS USED:
 X TRAVEL = 150mm
 Y TRAVEL = 150mm
 Z TRAVEL = 150mm

PROPERTY	BASE VALUE (T=150mm)
MOVING MASS	2.925(+0.090kg/25mm)
BELT MASS	0.086(+0.003kg/25mm)
SYSTEM MASS	7.788kg(+0.088kg/25mm)
PULLEY PITCH ϕ	47.75mm (1.88")
PULLEY WIDTH	28.9mm (1.14")
PULLEY MATERIAL	STEEL

PROPERTY	BASE VALUE (T=150mm)
*MOVING MASS	3.455(+0.028kg/25mm)
BELT MASS	0.109(+0.006kg/25mm)
*SYSTEM MASS	12.297(+0.220kg/25mm)
PULLEY PITCH ϕ	47.75mm (1.88")
PULLEY WIDTH	28.9mm (1.14")
PULLEY MATERIAL	STEEL

*SYSTEM MASS OF Z AXIS NEEDS TO BE ADDED TO THIS



PROPERTY	BASE VALUE (T=150mm)
**MOVING MASS	5.658kg(+0.028kg/25mm)
BELT MASS	0.336kg(0.012kg/25mm)
PULLEY PITCH ϕ	47.75mm (1.88")
PULLEY WIDTH	28.9mm (1.14")
PULLEY MATERIAL	STEEL
***TORQUE TUBE LENGTH	299mm
TORQUE TUBE ϕ	60mm
***TORQUE TUBE MASS	1.311kg(+0.036kg/25mm)
TORQUE TUBE MATERIAL	ANODIZED ALUMINUM ELASTOMER STYLE COUPLINGS WITH HUB
TRAVEL PER REV	150mm

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

NOTE: ALL SUPPLIED MASSES DO NOT INCLUDE CUSTOMER COMPONENTS (MOTORS, CABLES, ETC)

GEARBOX MASS (ADD TO SYSTEM MASSES)	Model	Mass (kg)
	MPG-064	1.0kg
	MPG-084	2.3kg
	MPG-114	5.8kg
	MRG-064	3.0kg
	MRG-084	5.6kg
	MRG-114	15.0kg

TOTAL SYSTEM MASS = (X TRAVEL x .0093) + (Y TRAVEL x .0132) + (Z TRAVEL x .0043) + 32.56 = _____ kg

**SYSTEM MASS OF Y-AXIS NEEDS TO BE ADDED TO THIS

***BASE VALUE AT Y TRAVEL = 150mm

	DRAWN BY: PHW CHECKED BY: -- LAST SAVED BY: JA	DATE: 11/26/2017 DATE: DD/MM/YYYY DATE: 12/30/2021	MATERIAL: _____ FINISH: _____	TITLE: MACRON R6S XYZ GANTRY
	UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE IN MILLIMETER. TOLERANCES UNLESS NOTED OTHERWISE: .X ± .762 .XX ± .254 .XXX ± .127 ANG ± 0°30'			SCALE 1:1 SHEET SIZE C
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SPECIFICATIONS

Sensor Type	Inductive
Sensor Size	Fits all 8mm wide T-Slots
Operating Voltage	10-30 VDC
Voltage Drop Across Conducting Sensor	≤1.8 V at 100 mA
Number of Conductors (AWG)	3x26 AWG
Temperature Range	-40°C to 105°C

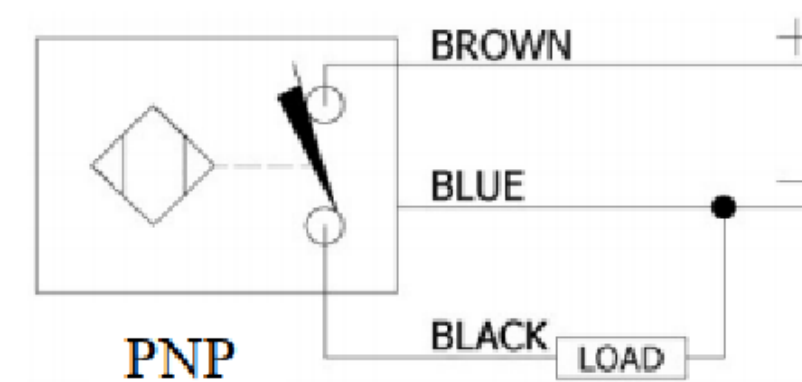
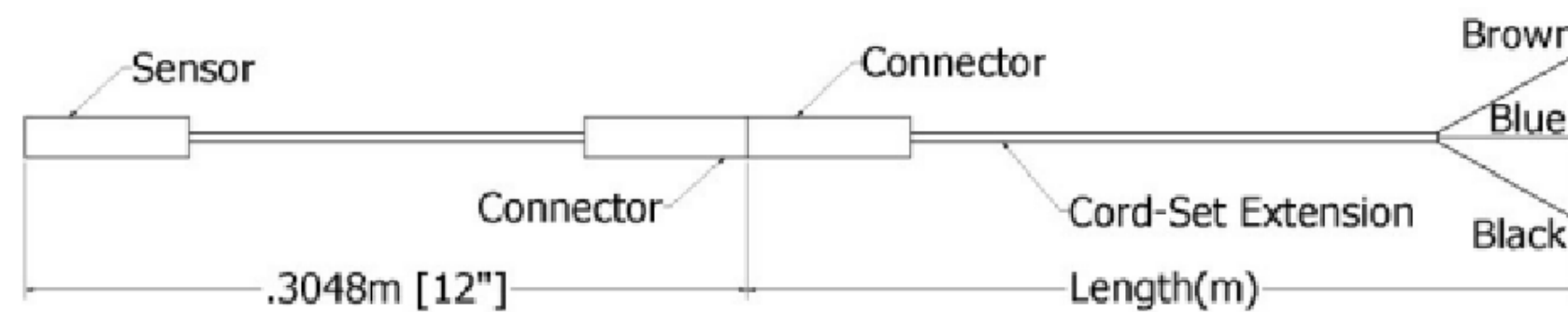
Part Number Configuration

244-_-_-_-_-_-

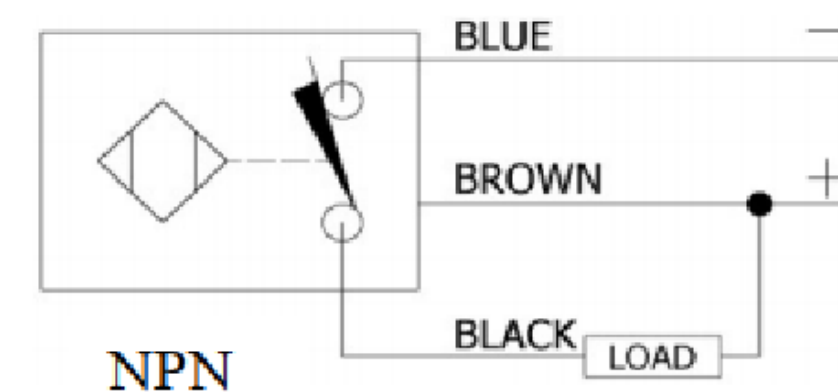
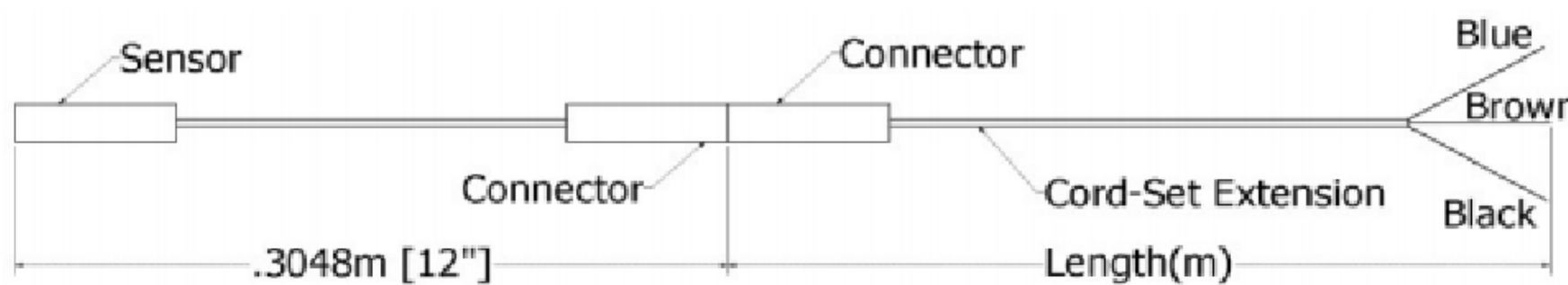
PNP or NPN	NC or NO	02	Meters
PNP or NPN	NC or NO	06	Meters
PNP or NPN	NC or NO	12	Meters

Example: PNP, normally closed, cord-set extension length 6 meters = 244-PNP-NC-06

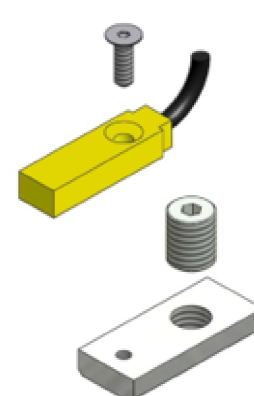
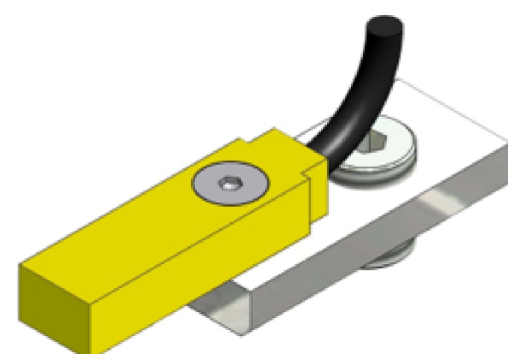
PNP Diagrams



NPN Diagrams



KIT INCLUDES – SENSOR, CORDSET EXTENSION, AND MOUNTING HARDWARE



	DRAWN BY: PHW CHECKED BY: -- LAST SAVED BY: Paul	DATE: 11/26/2017 DATE: DD/MM/YYYY DATE: 12/30/2021	MATERIAL:	TITLE: T-SLOT SENSOR KIT
	UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE IN MILLIMETERS. TOLERANCES UNLESS NOTED OTHERWISE:	.X ± .762 .XX ± .254 .XXX ± .127 ANG ± 0°30'	FINISH:	SCALE 1:1 SHEET SIZE C
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THIRD ANGLE PROJECTION				