

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: _____

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

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

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

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

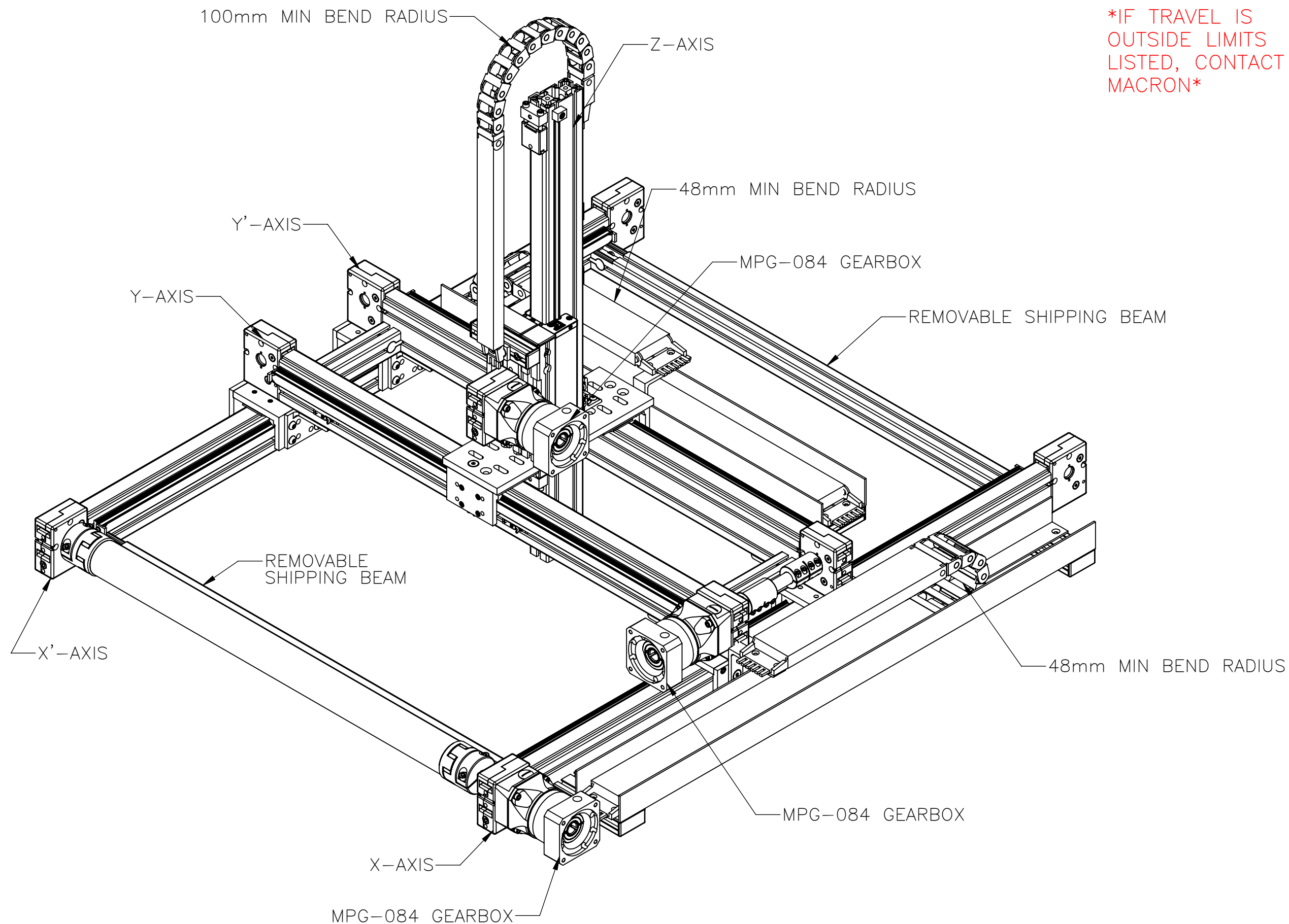
MOTOR INFORMATION (Z AXIS)
 MANUFACTURER: _____
 MODEL: _____

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)



*IF TRAVEL IS
 OUTSIDE LIMITS
 LISTED, CONTACT
 MACRON*

APPROVED: _____
 SIGN & PRINT

DATE: _____

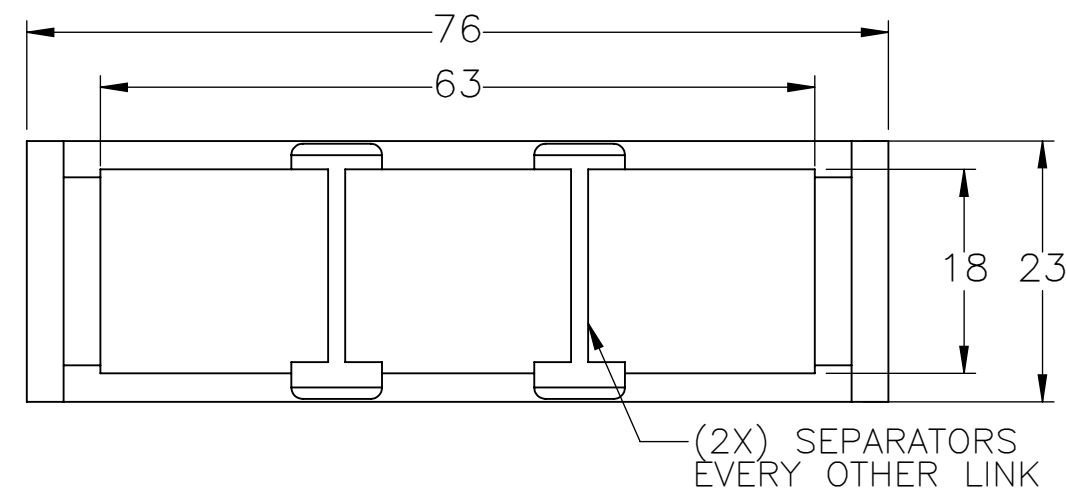
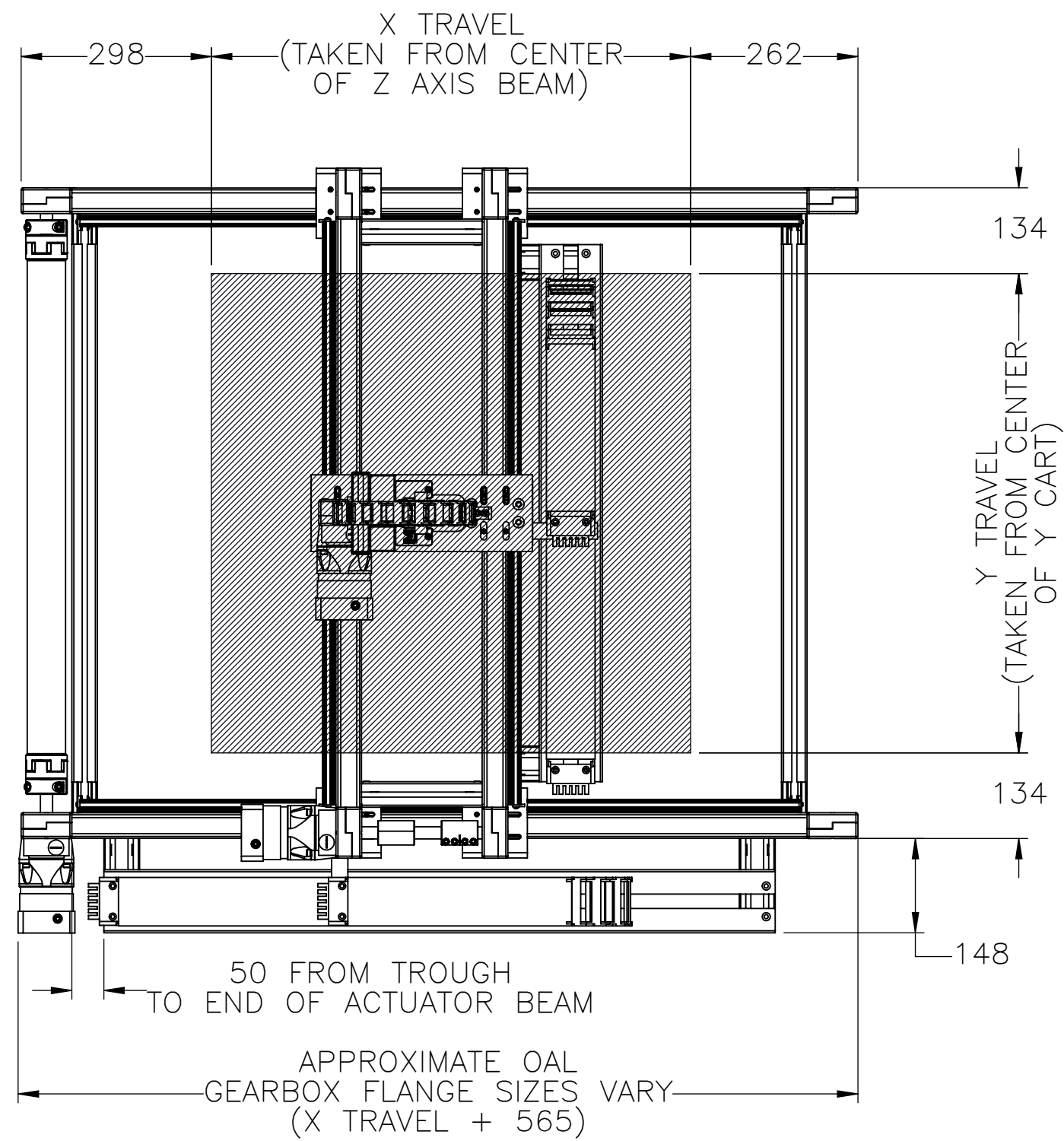
PO:REFERENCE#: _____

Sold & Serviced By:

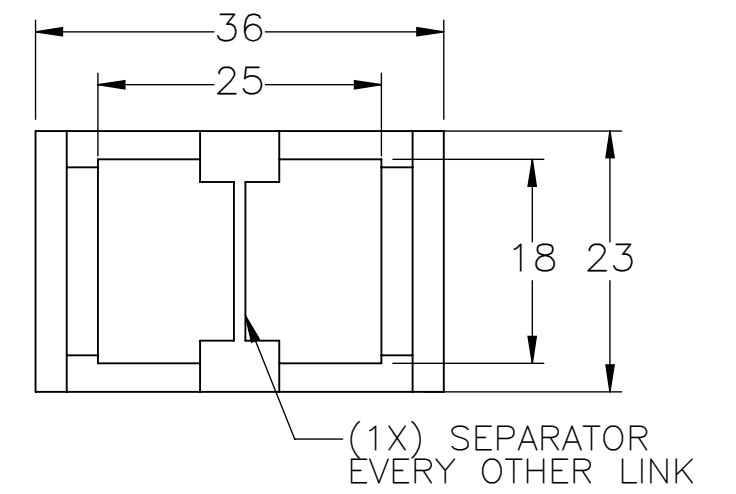
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 MACRON DYNAMICS INC <small>THIS DRAWING IS THE PROPERTY OF MACRON DYNAMICS. ANY REPRODUCTIONS SHALL BE FOR QUOTATION, MANUFACTURING, OR PURCHASING PURPOSES ONLY. RELEASE OF DRAWINGS TO OTHER CONCERNS DOES NOT CONSTITUTE LICENSING IN ANY WAY. INFORMATION CONTAINED HEREIN IS PROPRIETARY AND CONFIDENTIAL.</small>	DRAWN BY: PHW CHECKED BY: -- LAST SAVED BY: Tim	DATE: 11/26/2017 DATE: DD/MM/YYYY DATE: 12/30/2021	MATERIAL: FINISH:	TITLE: MACRON R6S XYZ GANTRY
	SURFACE FINISH: \checkmark 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:	

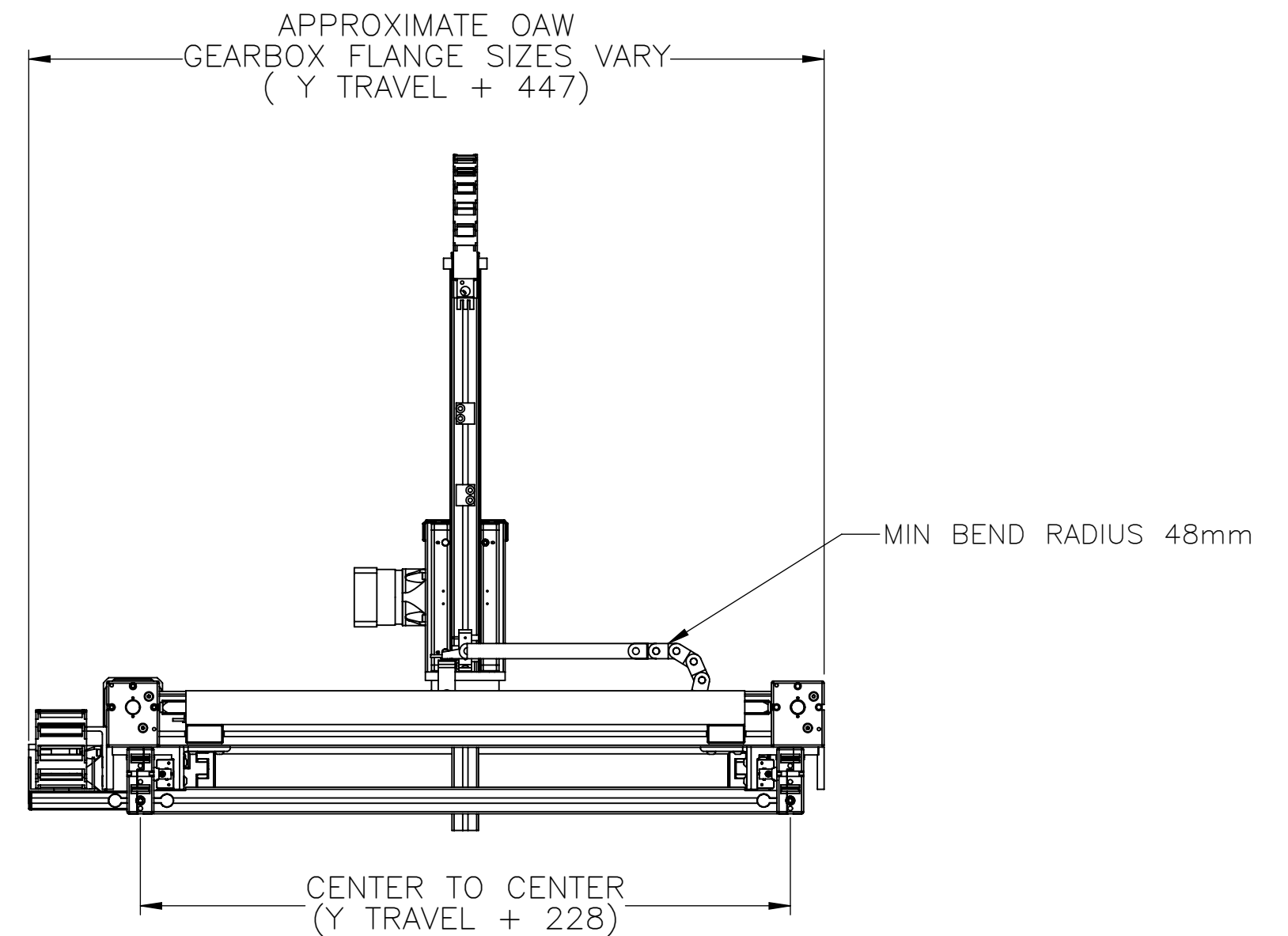
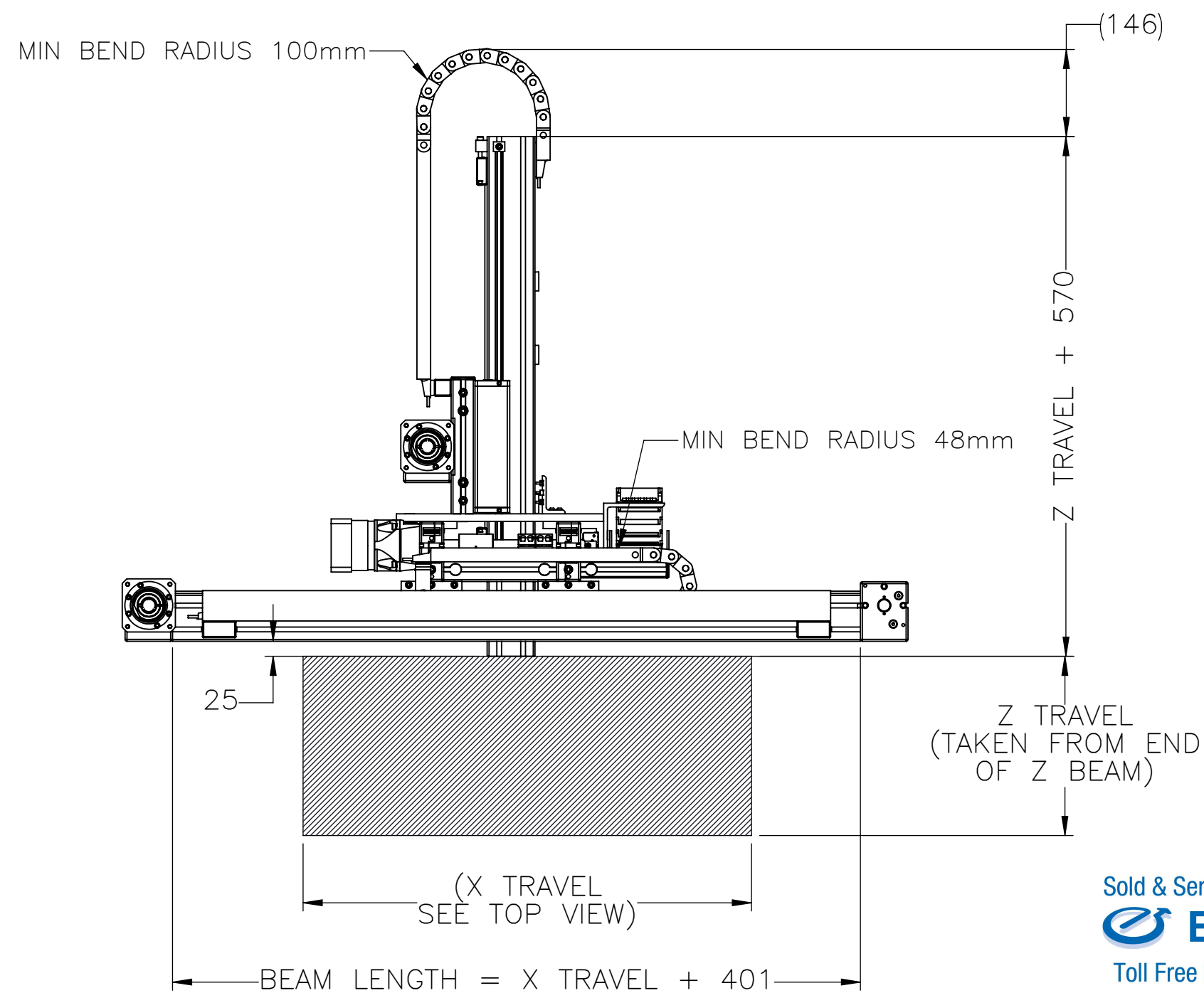
WORK ENVELOPE AND GANTRY FOOTPRINT



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




Z CABLE TRACK CROSS SECTION

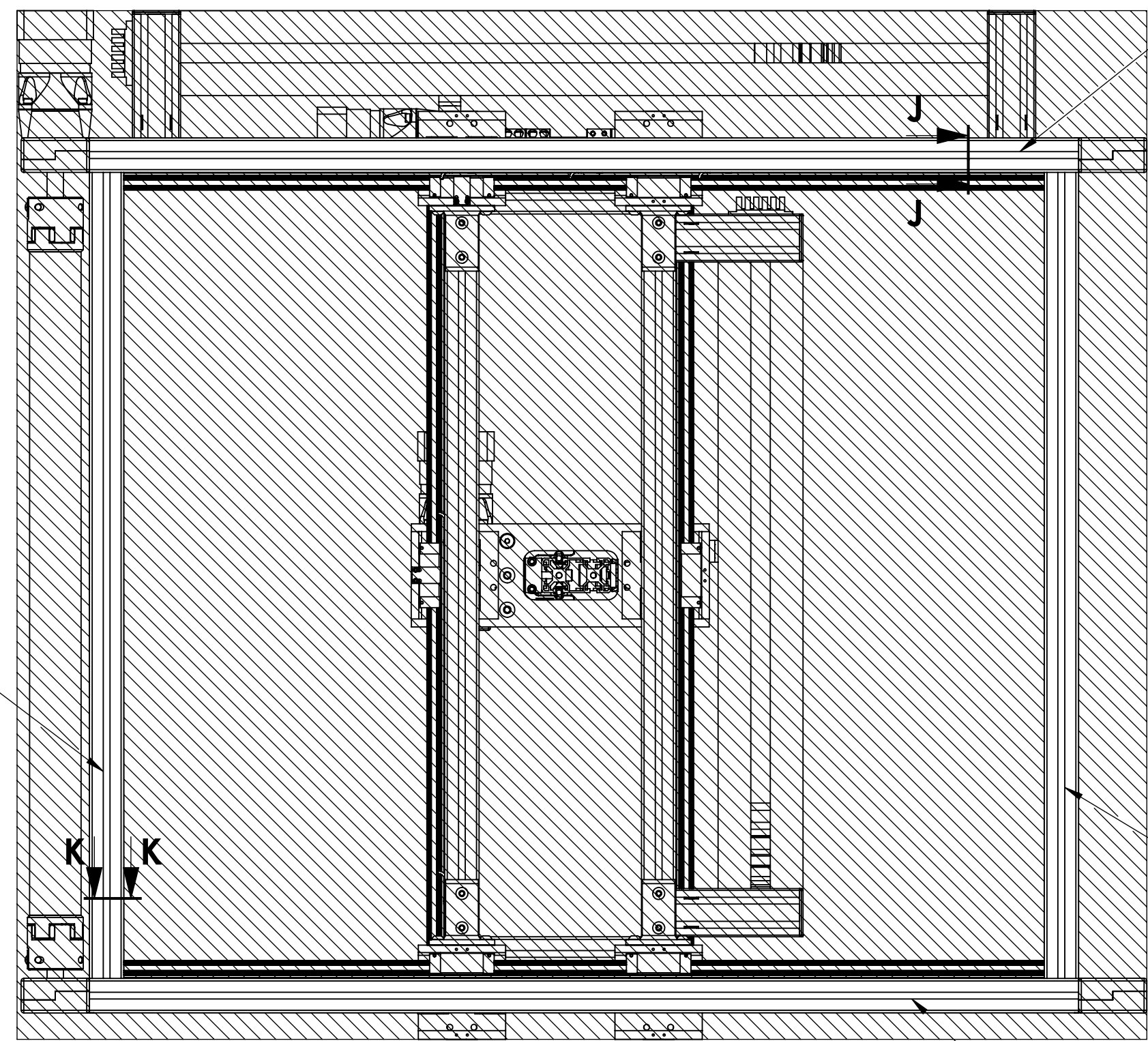


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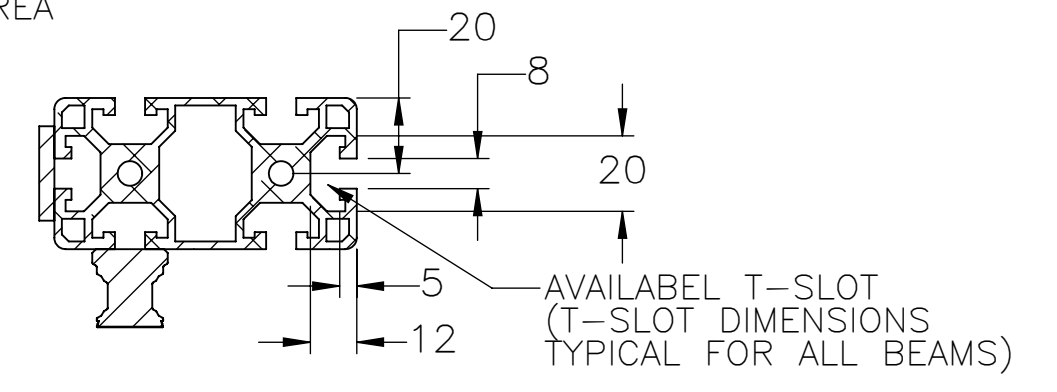
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 MACRON DYNAMICS INC	DRAWN BY: PHW CHECKED BY: -- LAST SAVED BY: Tim	DATE: 11/26/2017 DATE: DD/MM/YYYY DATE: 12/30/2021	MATERIAL: Material <not specified>	TITLE: MACRON R6S XYZ GANTRY	
	UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE IN INCHES. TOLERANCES UNLESS NOTED OTHERWISE:		FINISH:	SCALE 1:1 SHEET SIZE C	
	SURFACE FINISH 63		SHEET 2 OF 6	PART NUMBER MCS-R6Y-X-X-X	REV
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GANTRY MOUNTING FEATURES



(1X) T-SLOT AVAILABLE
SUGGESTED MOUNTING AREA



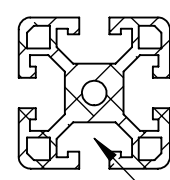
SECTION J-J

(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

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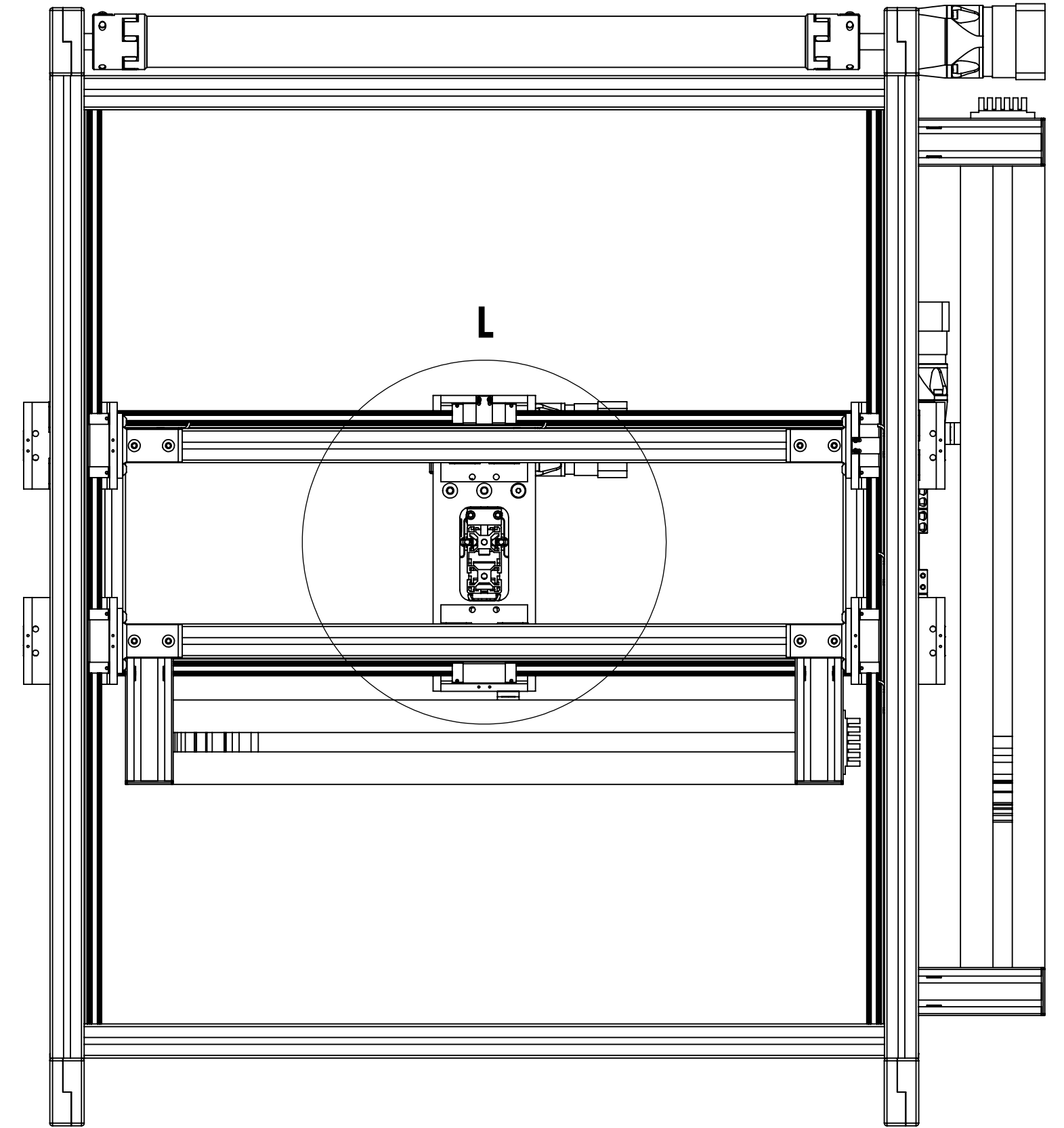
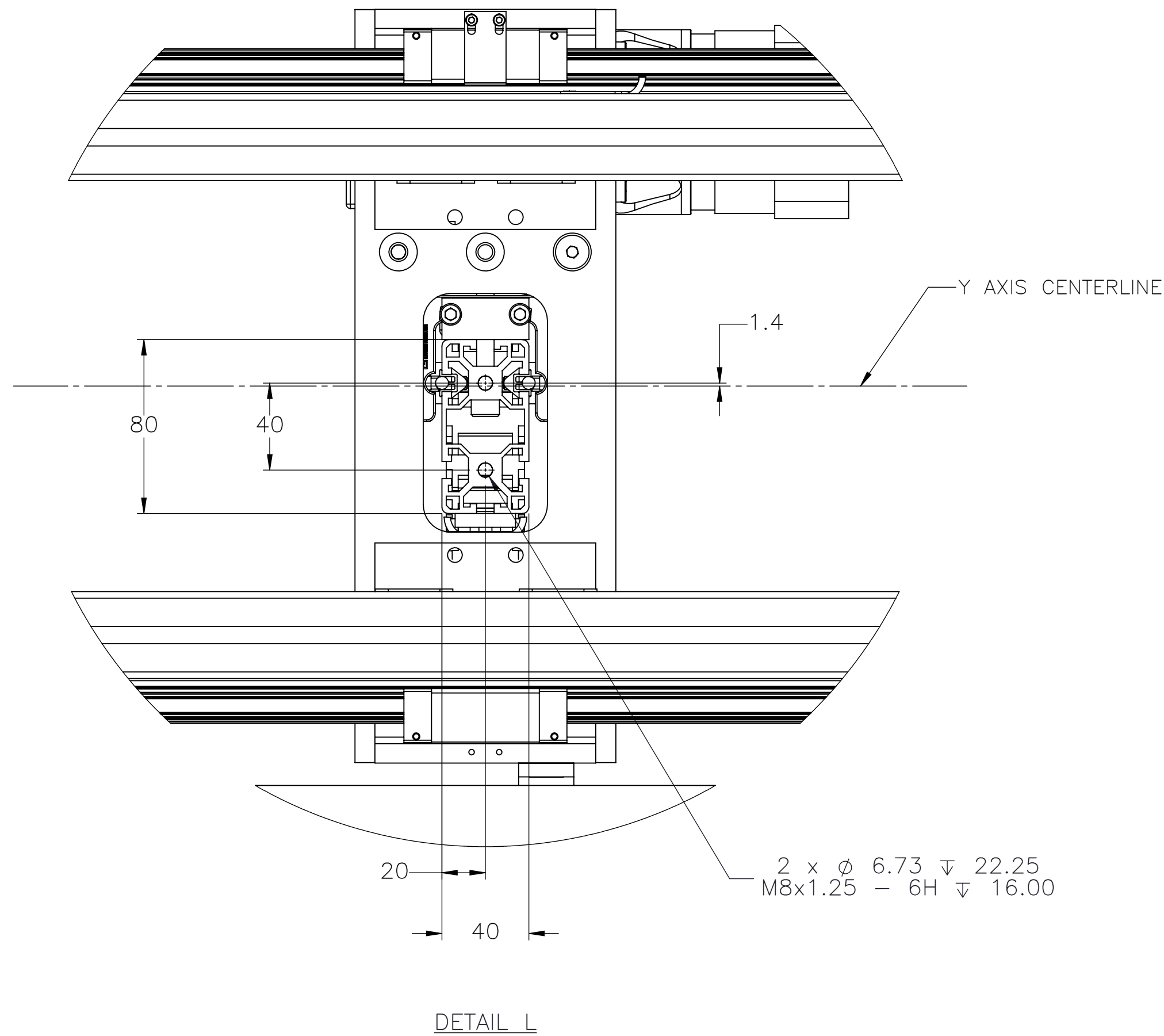
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DRAWN BY: PHW	DATE: 11/26/2017	MATERIAL:	TITLE:
CHECKED BY: --	DATE: DD/MM/YYYY		MACRON R6S XYZ GANTRY
LAST SAVED BY: Tim	DATE: 12/30/2021		
UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE IN INCHES. TOLERANCES UNLESS NOTED OTHERWISE:		FINISH:	
.X ± .762			
.XX ± .254			
.XXX ± .127			
ANG ± 0°30'			
SURFACE FINISH 63			
BREAK ALL SHARP EDGES DIMENSIONAL LIMITS APPLY AFTER FINISHING		SHEET	PART NUMBER
THIRD ANGLE PROJECTION		3 OF 6	MCS-R6Y-X-X-X


SCALE 1:1	SHEET SIZE C	REV	
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CART MOUNTING FEATURES



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 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:	SURFACE FINISH 63	FINISH:	SCALE 1:1 SHEET SIZE C
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MOTOR SIZING WORKSHEET

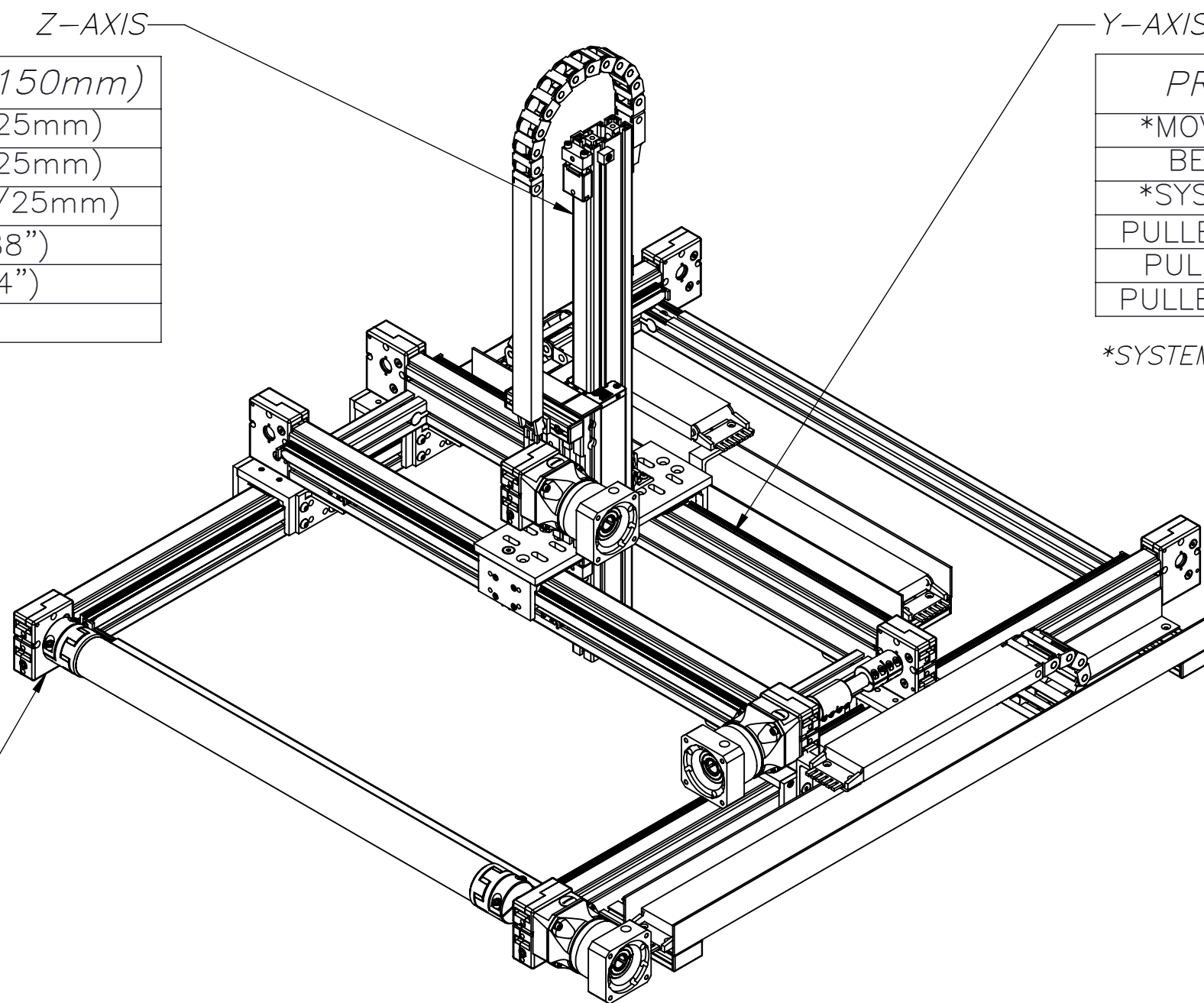
(INCREMENTAL ADDERS REFER TO MASS PER TRAVEL LENGTH)

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)	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

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	UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE IN MILLIMETER. TOLERANCES UNLESS NOTED OTHERWISE: .X ± .762 .XX ± .254 .XXX ± .127 ANG ± 0°30'	SURFACE FINISH $\sqrt{3}$	BREAK ALL SHARP EDGES DIMENSIONAL LIMITS APPLY AFTER FINISHING THIRD ANGLE PROJECTION	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

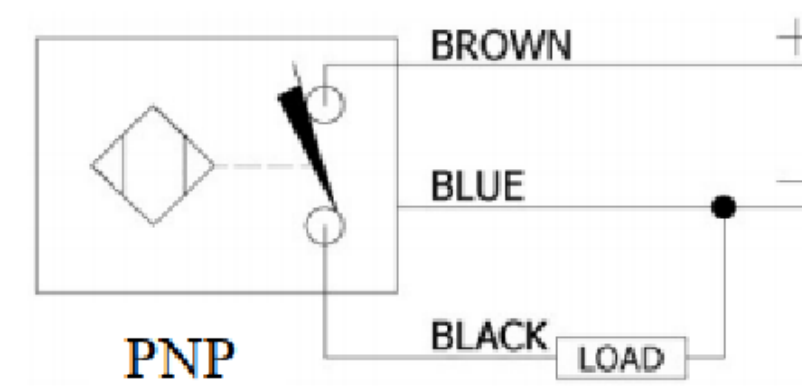
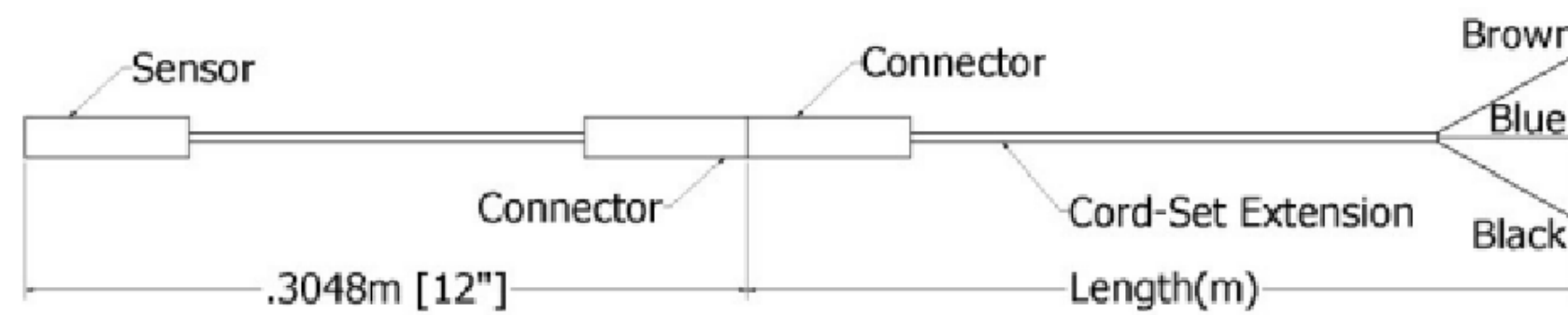
Part Number Configuration

244- _ _ _ - _ _ _

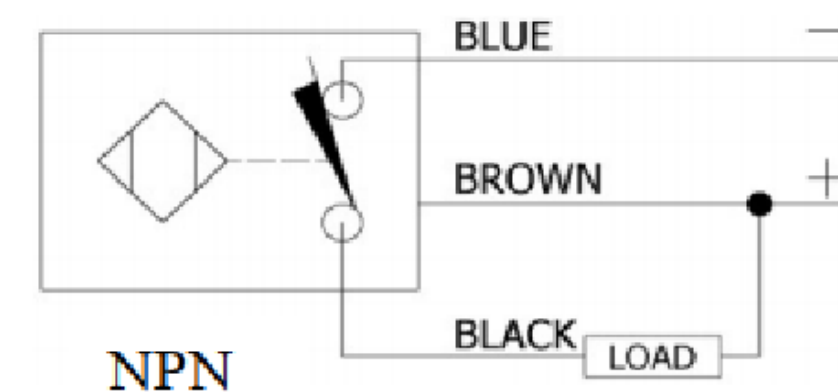
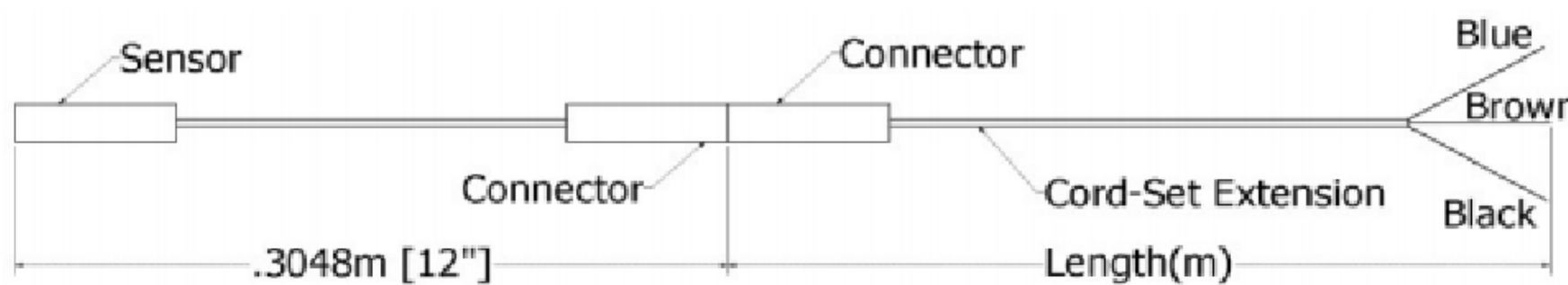
PNP or NPN	NC or NO	02	Meters
PNP or NPN	NC or NO	06	Meters
PNP or NPN	NC or NO	12	Meters

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

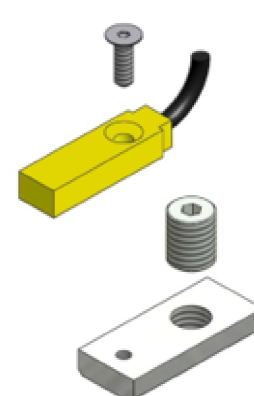
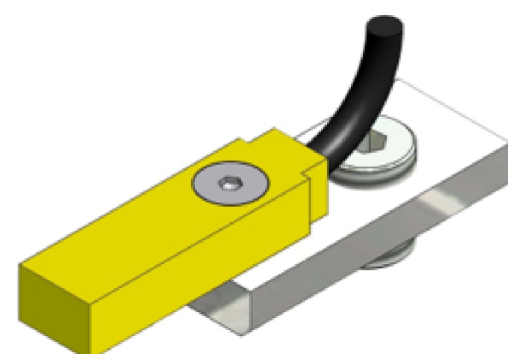
PNP Diagrams




NPN Diagrams



KIT INCLUDES – SENSOR, CORDSET EXTENSION, AND MOUNTING HARDWARE



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 MACRON DYNAMICS INC	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'	SURFACE FINISH: 63 ✓	FINISH:	SCALE: 1:1 SHEET SIZE: C
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