

GEARBOX MODELS
VC-T-090-____
RATIO:_____

MPG-084-____
RATIO:_____

‘X’ MOTOR INFORMATION
MANUFACTURER:_____
MODEL:_____

‘Z’ MOTOR INFORMATION
MANUFACTURER:_____
MODEL:_____

SENSOR INFORMATION X-AXIS:
HOME-QTY____ 244-____-____-____
EOT-QTY____ 244-____-____-____
SENSOR INFORMATION Z-AXIS:
HOME-QTY____ 244-____-____-____
EOT-QTY____ 244-____-____-____

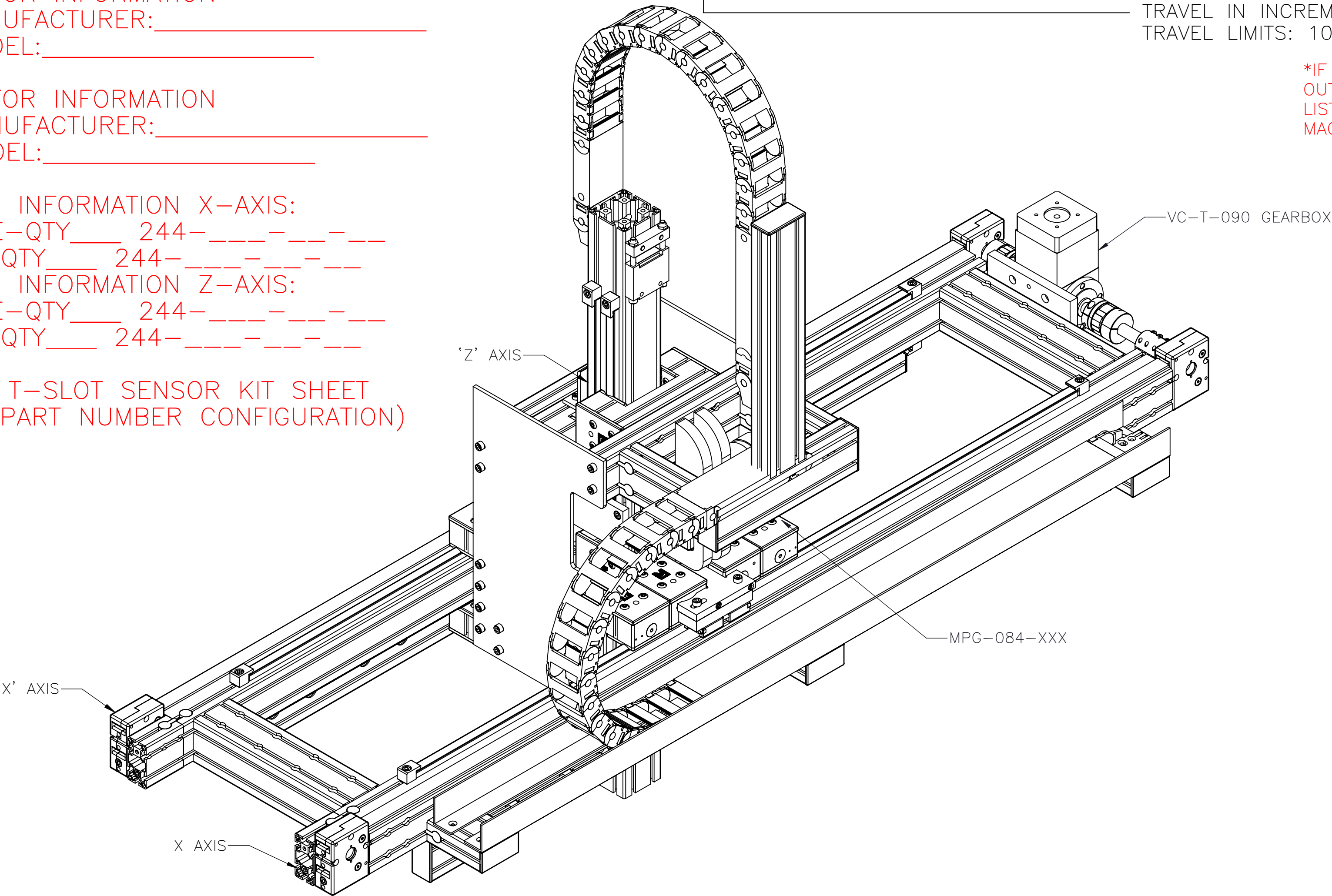
(SEE T-SLOT SENSOR KIT SHEET
FOR PART NUMBER CONFIGURATION)

MGS-UC2- [] -X- []

ENTER Z-AXIS TRAVEL
TRAVEL IN INCREMENTS OF 250mm
TRAVEL LIMITS: 250mm-1000mm

ENTER X-AXIS TRAVEL
TRAVEL IN INCREMENTS OF 500mm
TRAVEL LIMITS: 1000mm-5250mm


*IF TRAVEL IS
OUTSIDE LIMITS
LISTED, CONTACT
MACRON*

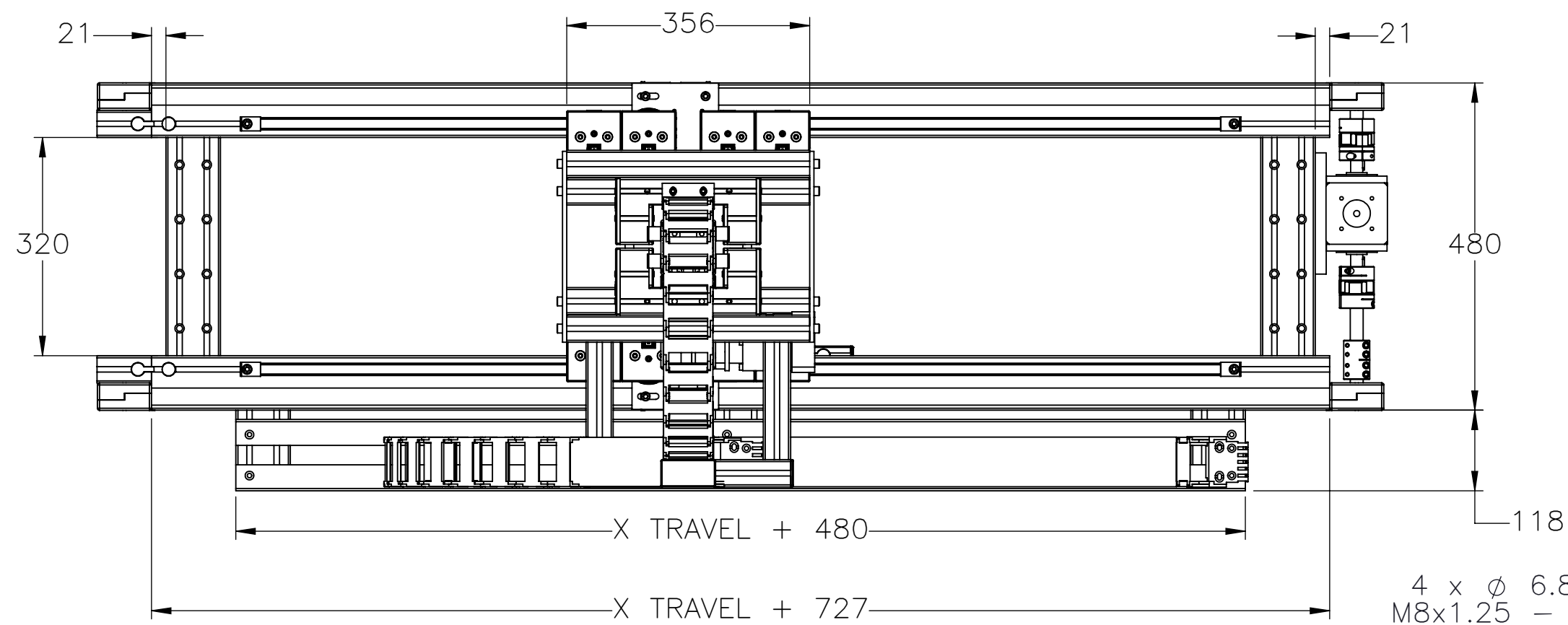


APPROVED: _____
SIGN & PRINT

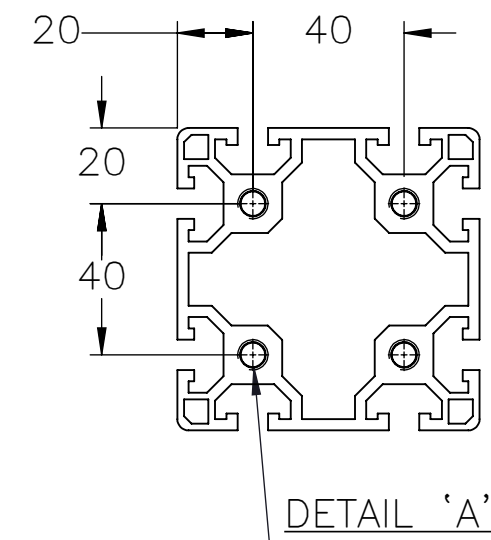
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PO:REFERENCE#: _____

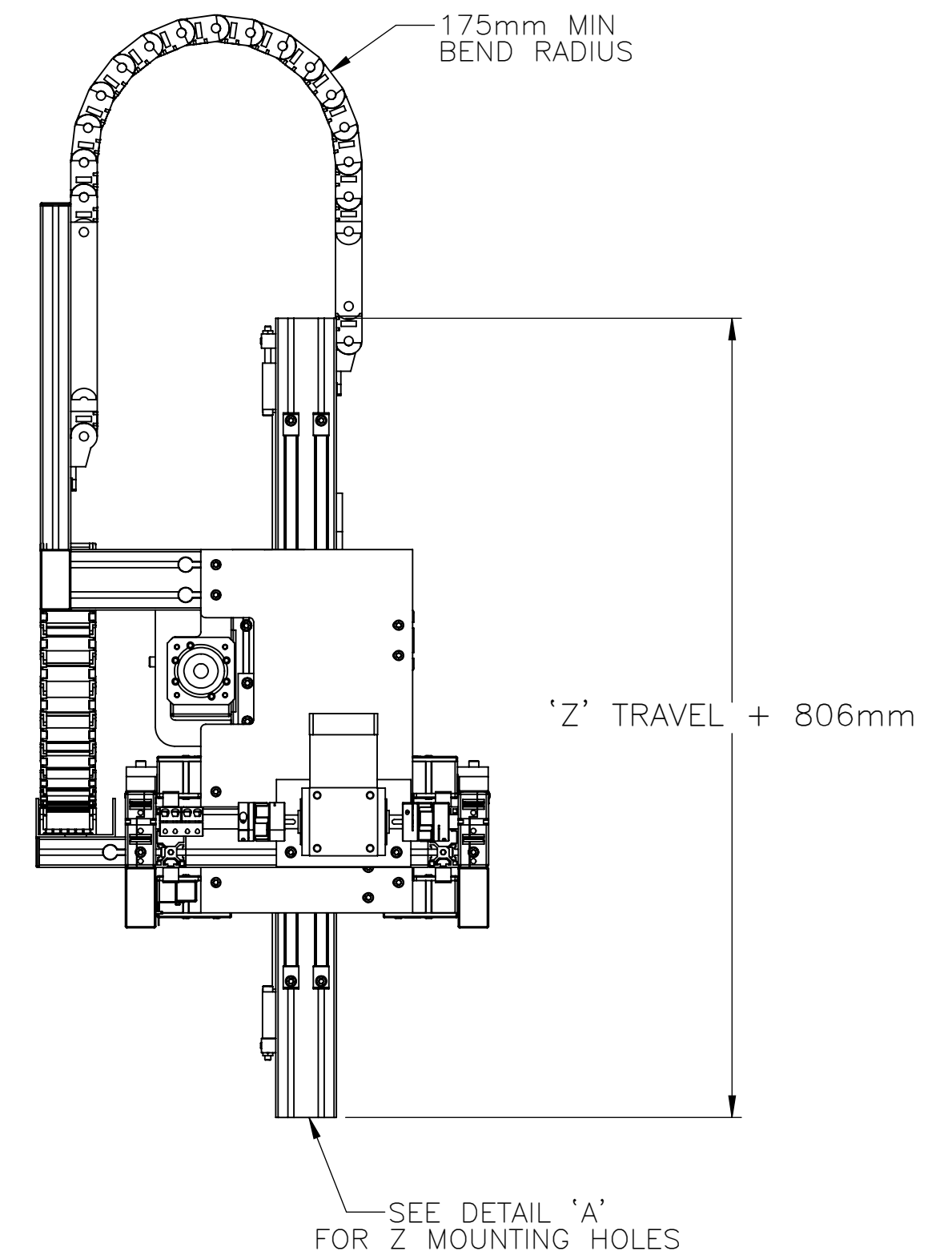
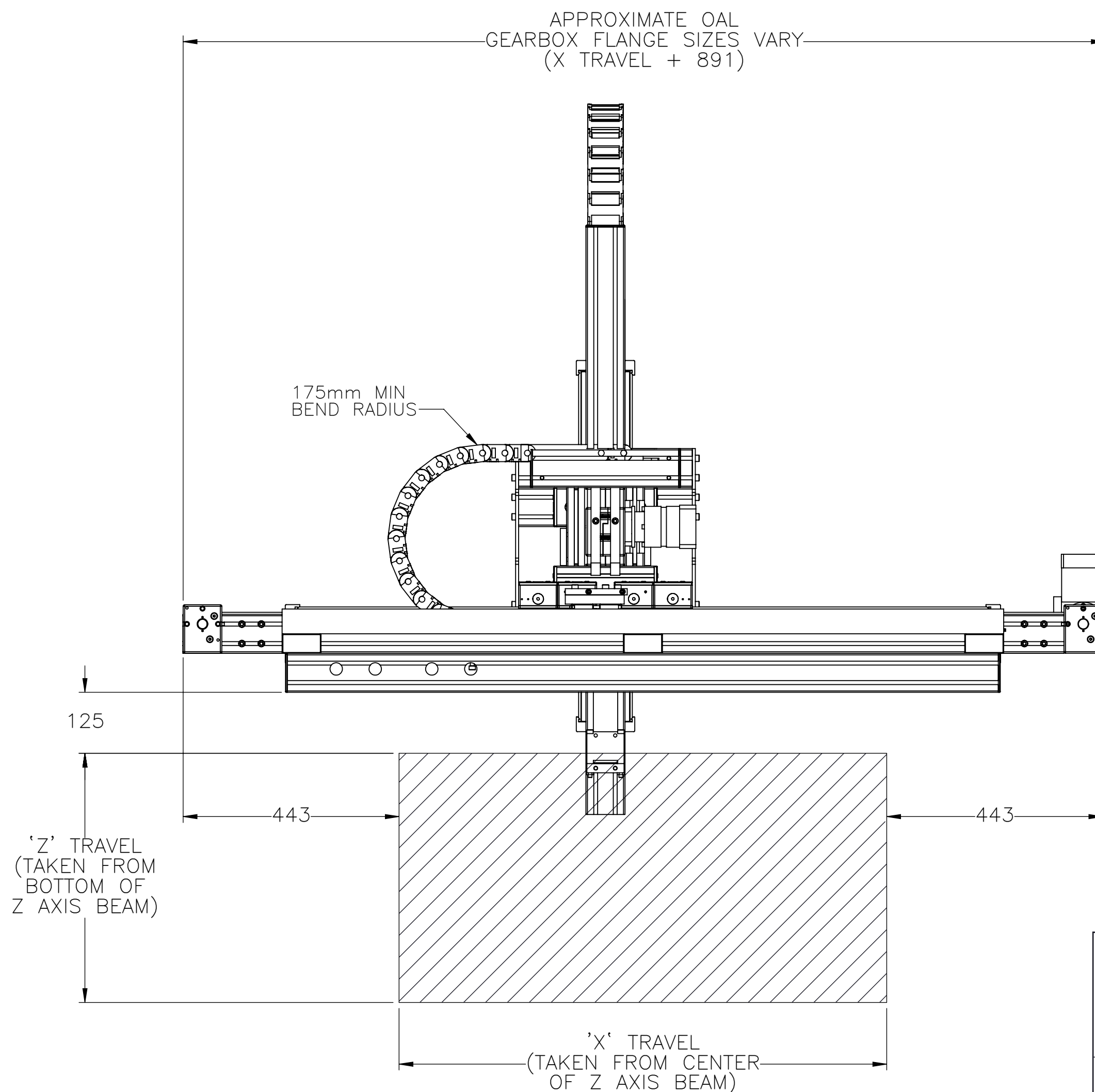
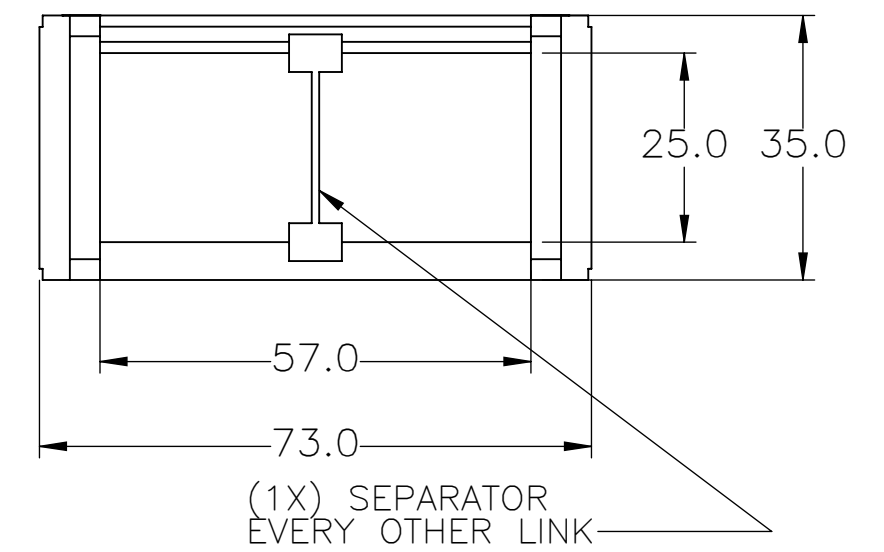
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	CHECKED BY: —	DATE: DD/MM/YYYY				
	LAST SAVED BY: Tim	DATE: 8/3/2021	FINISH:			
	UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE IN INCHES. TOLERANCES UNLESS NOTED OTHERWISE:		.X ± .03 .XX ± .010 .XXX ± .005 ANG ± 0°30'			
	SURFACE FINISH $\sqrt{63}$				SCALE 1:1 SHEET SIZE C	
BREAK ALL SHARP EDGES		SHEET		PART NUMBER		REV
DIMENSIONAL LIMITS APPLY AFTER FINISHING		1 OF 5		MGS-UC2-X-X-X		
THIRD ANGLE PROJECTION						



GANTRY FOOTPRINT



CABLE TRACK CROSS SECTION (SAME FOR ALL AXES)

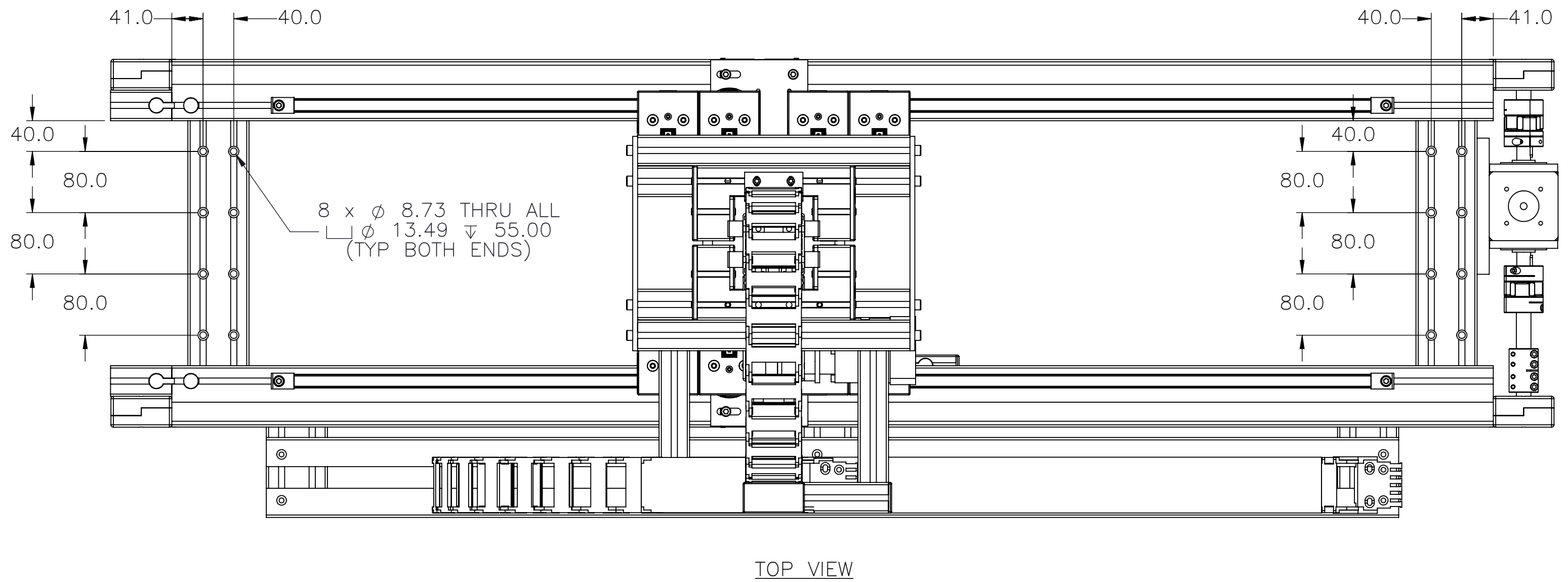
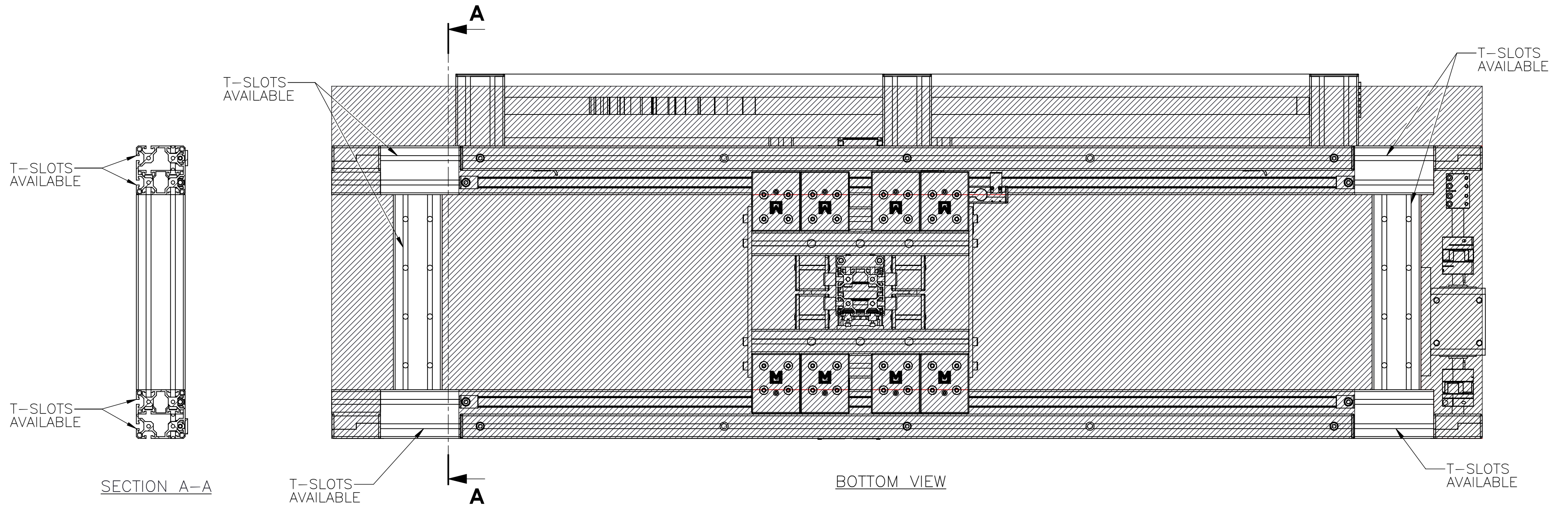



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DRAWN BY: PHW	DATE: 4/9/2013	MATERIAL:	TITLE: UNIFIED CART GANTRY	
CHECKED BY: —	DATE: DD/MM/YYYY			
LAST SAVED BY: Tim	DATE: 8/3/2021	FINISH:	SCALE 1:1 SHEET SIZE C	
UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE IN INCHES. TOLERANCES UNLESS NOTED OTHERWISE:				
SURFACE FINISH 63		SHEET 2 OF 5	PART NUMBER MGS-UC2-X-X-X	REV
BREAK ALL SHARP EDGES DIMENSIONAL LIMITS APPLY AFTER FINISHING		THIRD ANGLE PROJECTION		

GANTRY MOUNTING FEATURES



 <p>MACRON DYNAMICS INC</p>	DRAWN BY: PHW CHECKED BY: — — LAST SAVED BY: Tim	DATE: 4/9/2013 DATE: DD/MM/YYYY DATE: 8/3/2021	MATERIAL:		TITLE: UNIFIED CART GANTRY	
	UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE IN INCHES. TOLERANCES UNLESS NOTED OTHERWISE:		FINISH:			
	SURFACE FINISH 6.3		SHEET		PART NUMBER	
	BREAK ALL SHARP EDGES DIMENSIONAL LIMITS APPLY AFTER FINISHING THIRD ANGLE PROJECTION		3 OF 5		MGS-UC2-X-X-X	
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				SCALE 1:1		SHEET SIZE C
						REV

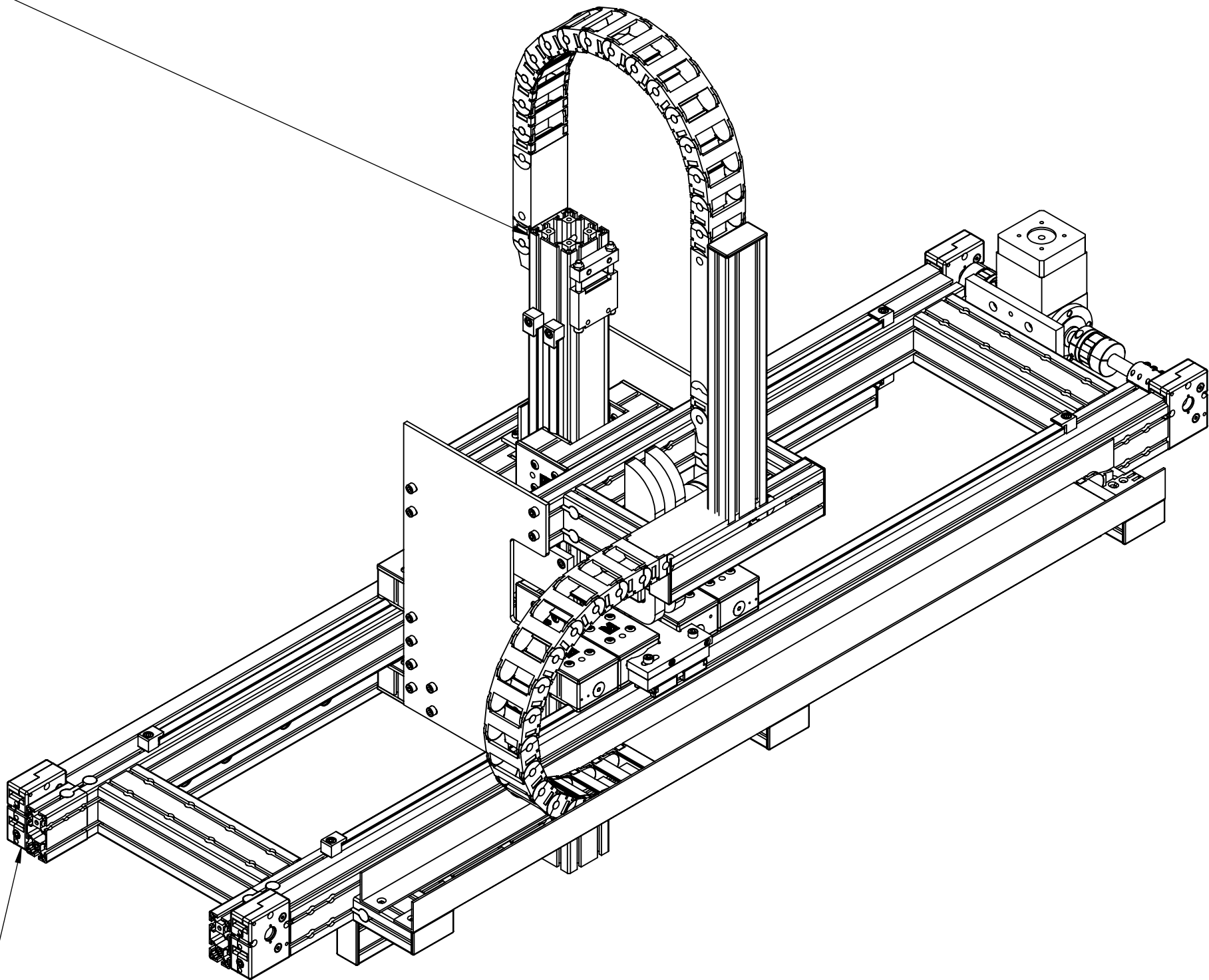
MOTOR SIZING WORKSHEET

(INCREMENTAL ADDERS REFER TO MASS PER TRAVEL LENGTH)

BASE TRAVELS USED:
X TRAVEL = 1000mm
Z TRAVEL = 250mm

PROPERTY	BASE VALUE (T=250mm)
MOVING MASS	11.627kg(+.307kg/25mm)
BELT MASS	0.374kg(+0.0085kg/25mm)
*SYSTEM MASS	44.173kg(+.299kg/25mm)
PULLEY PITCH ϕ	47.75mm (1.88")
PULLEY WIDTH	54.0mm (2.126")
PULLEY MATERIAL	STEEL
TRAVEL PER REV	150mm

'Z' AXIS




'X' AXIS

PROPERTY	BASE VALUE (T=1000mm)
*MOVING MASS	23.25kg(+0.035kg/25mm)
BELT MASS	.901kg(+0.012kg/25mm)
PULLEY PITCH ϕ	47.75mm (1.88")
PULLEY WIDTH	28.9mm (1.14")
PULLEY MATERIAL	STEEL
CONN SHAFT LENGTH	133.35mm (5.25")
CONN SHAFT ϕ	19.05mm (.75")
CONN SHAFT MATERIAL	STEEL
TRAVEL PER REV	150mm

X-TRAVEL = _____ mm

Z-TRAVEL = _____ mm

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

TOTAL SYSTEM MASS	$(X \text{ TRAVEL} \times .0208) + (Z \text{ TRAVEL} \times .0127) + 89.85 = \text{kg}$				
 MACRON DYNAMICS INC	DRAWN BY: PHW	DATE: 4/9/2013	MATERIAL:	TITLE: UNIFIED CART GANTRY	
	CHECKED BY: --	DATE: DD/MM/YYYY			
	LAST SAVED BY: Tim	DATE: 8/3/2021			
	UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE IN INCHES. TOLERANCES UNLESS NOTED OTHERWISE:			FINISH:	
SURFACE FINISH 63			SCALE 1:1 SHEET SIZE C		
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BREAK ALL SHARP EDGES DIMENSIONAL LIMITS APPLY AFTER FINISHING THIRD ANGLE PROJECTION			PART NUMBER MGS-UC2-X-X-X		
			REV		

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

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

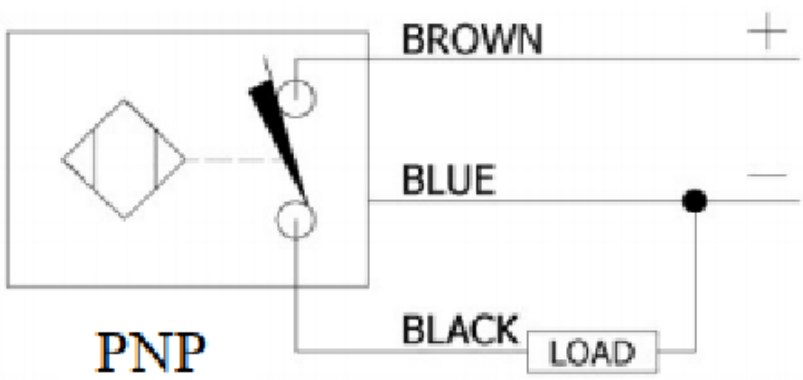
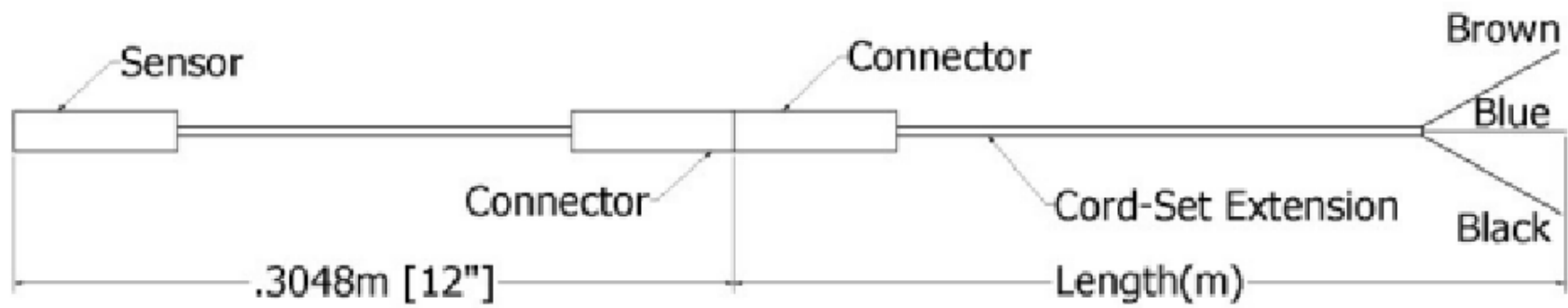
Part Number Configuration

244-_-_-_-_-

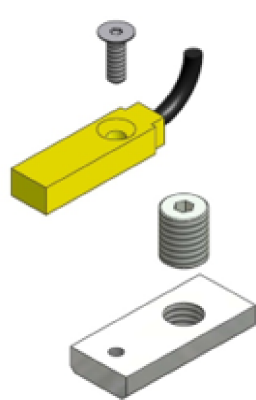
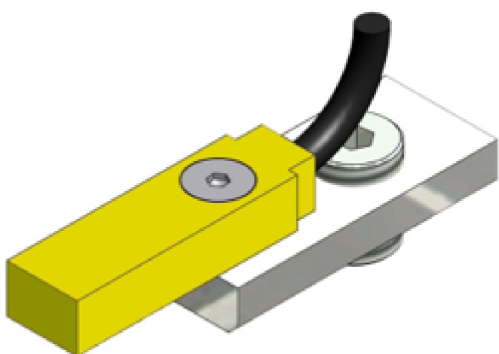
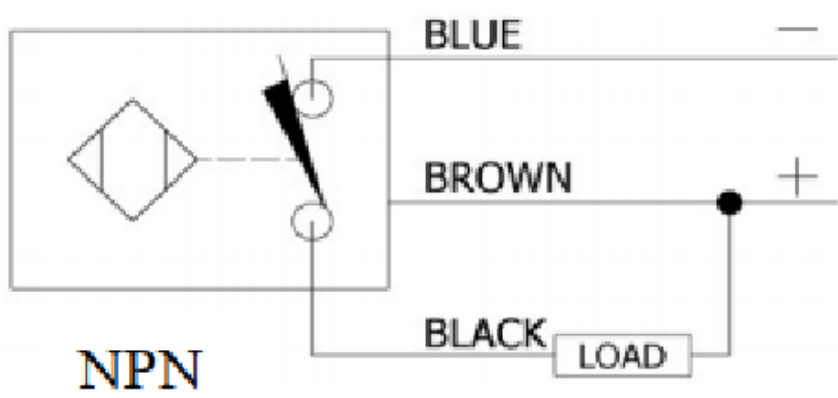
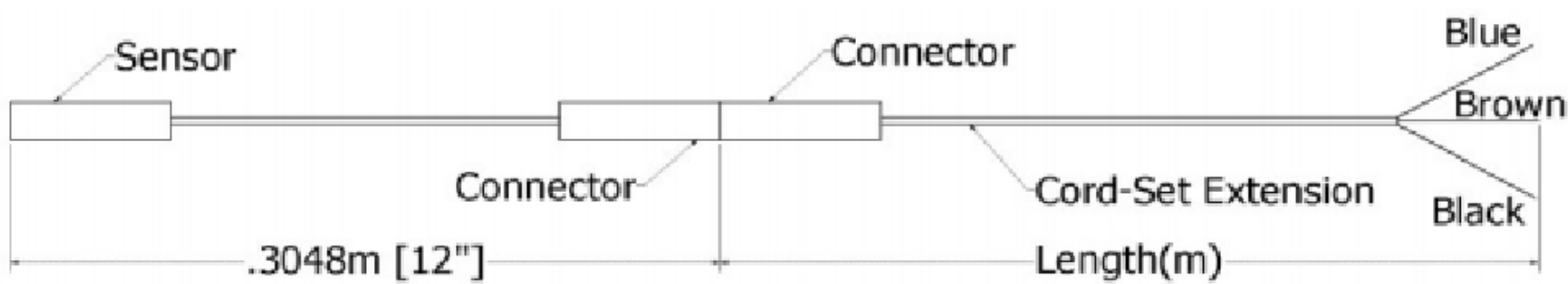
PNP or NPN	NC or NO	02	Meters
PNP or NPN	NC or NO	06	Meters
PNP or NPN	NC or NO	12	Meters

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

<div></div> <div>MACRON DYNAMICS INC</div>	DRAWN BY: PHW	DATE: 11/26/2017	MATERIAL:		TITLE: T-SLOT SENSOR KIT			
	CHECKED BY: —	DATE: DD/MM/YYYY						
	LAST SAVED BY: Paul	DATE: 8/3/2021	FINISH:		SCALE 1:1 SHEET SIZE C			
	UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE IN MILLIMETERS. TOLERANCES UNLESS NOTED OTHERWISE: .X ± .762 .XX ± .254 .XXX ± .127 ANG ± 0°30'							
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	BREAK ALL SHARP EDGES DIMENSIONAL LIMITS APPLY AFTER FINISHING							
	THIRD ANGLE PROJECTION							