

MTA-R20-0-00-A0 -

GEARBOX MODEL

EPL-110 _____
 EPR-110 _____
 RATIO: _____

MOTOR INFORMATION

MANUFACTURER: _____
 MODEL: _____

SENSOR INFORMATION X-AXIS:

HOME-QTY ___ 244-____-____-____-____
 EOT-QTY ___ 244-____-____-____-____

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

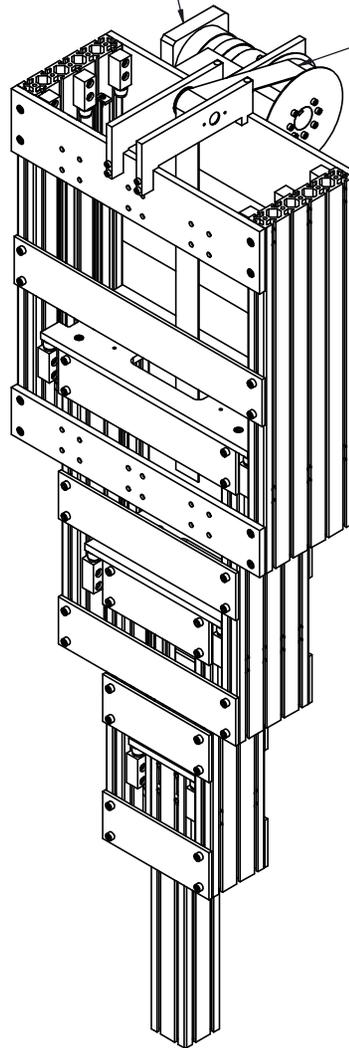
ENTER Z-AXIS TRAVEL
 TRAVEL IN INCREMENTS OF 25mm
 TRAVEL LIMITS: 525mm-4500mm

IF TRAVEL IS OUTSIDE LIMITS LISTED, CONTACT MACRON

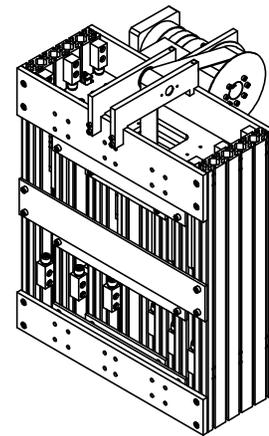
SELECT
 DRIVE SHAFT LOCATION

EPL-F-110 GEARBOX

50mm FLAT BELT



SYSTEM RETRACTED



APPROVED: _____

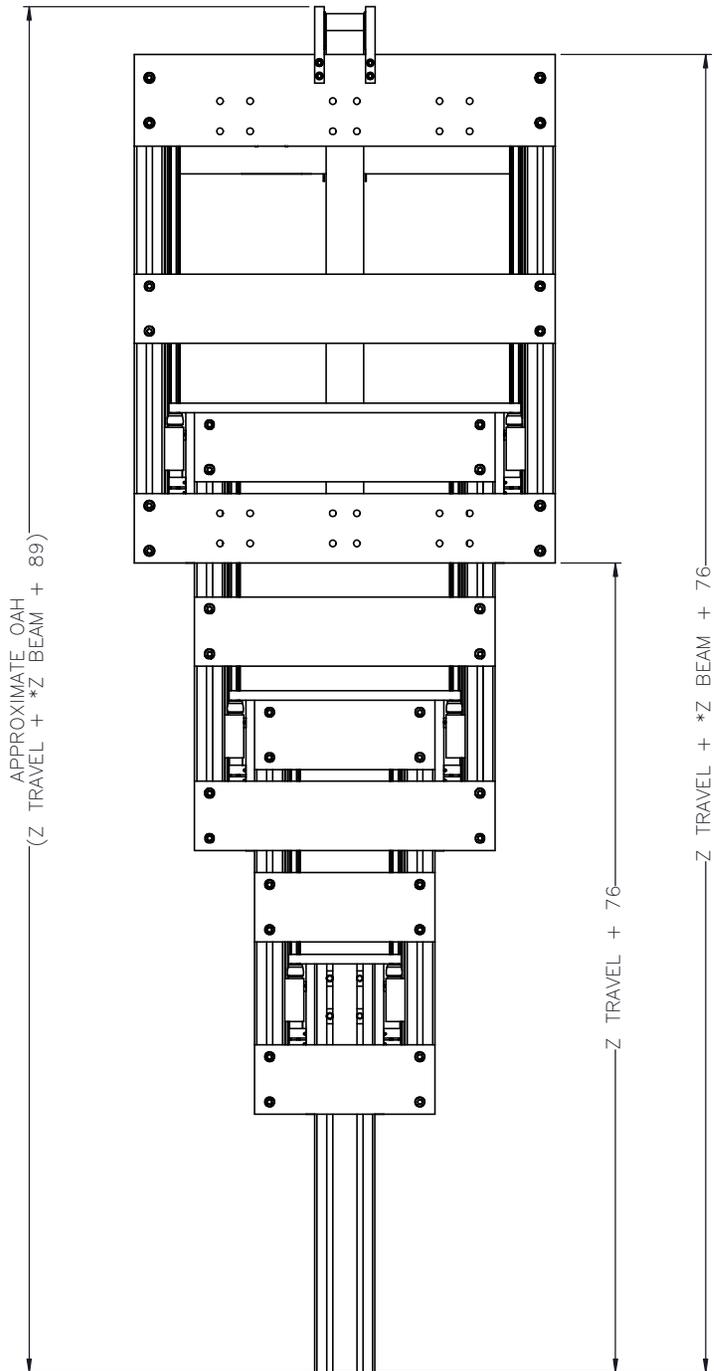
SIGN & PRINT

DATE: _____

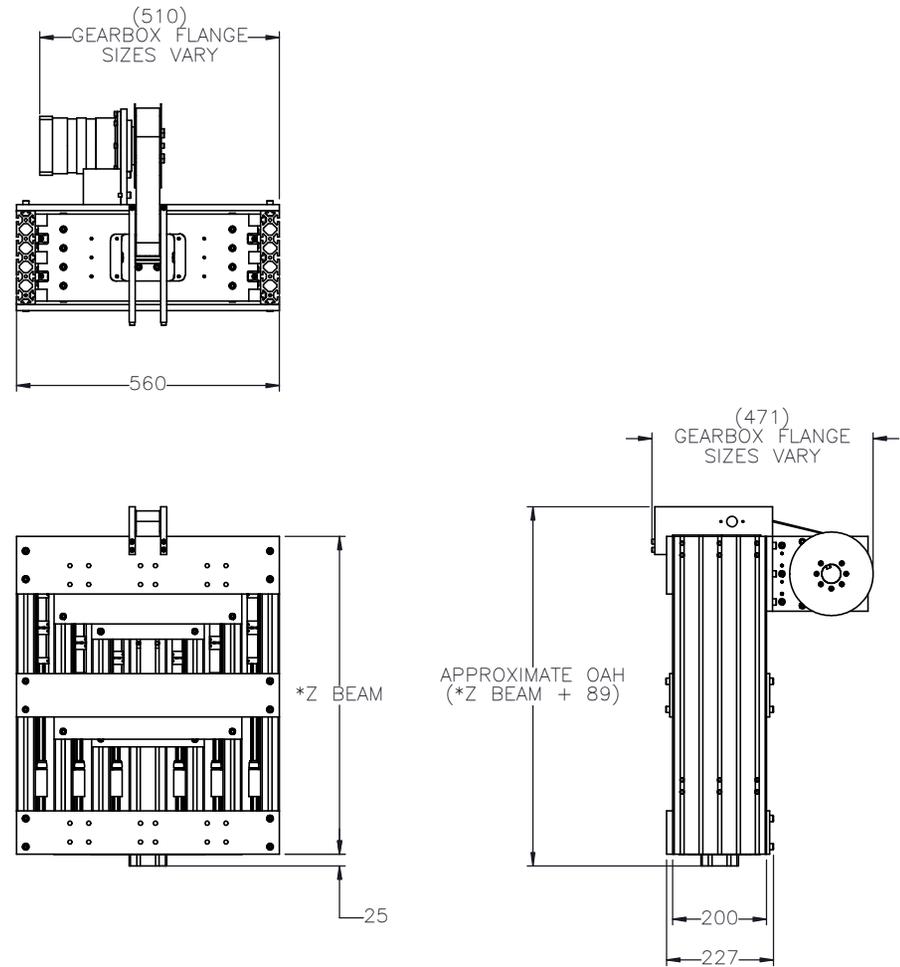
PO:REFERENCE#: _____

 MACRON DYNAMICS INC	DRAWN BY: AW DATE: 4/12/2023 CHECKED BY: -- DATE: DD/MM/YYYY LAST SAVED BY: awong DATE: 8/7/2023	MATERIAL:	TITLE: MACRON TELESCOPING RAIL ACTUATOR
	UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE IN MILLIMETERS. TOLERANCES UNLESS NOTED OTHERWISE: .X ± .762 .XX ± .254 .XXX ± .127 ANG ± 0°30'	FINISH:	
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 <input checked="" type="checkbox"/> BREAK ALL SHARP EDGES DIMENSIONAL LIMITS APPLY AFTER FINISHING THIRD ANGLE PROJECTION	SHEET: 1 OF 5 PART NUMBER: MTA-R20-0-00-A01-XXXX	SCALE: 1:1 SHEET SIZE: C

EXTENDED DIMENSIONS



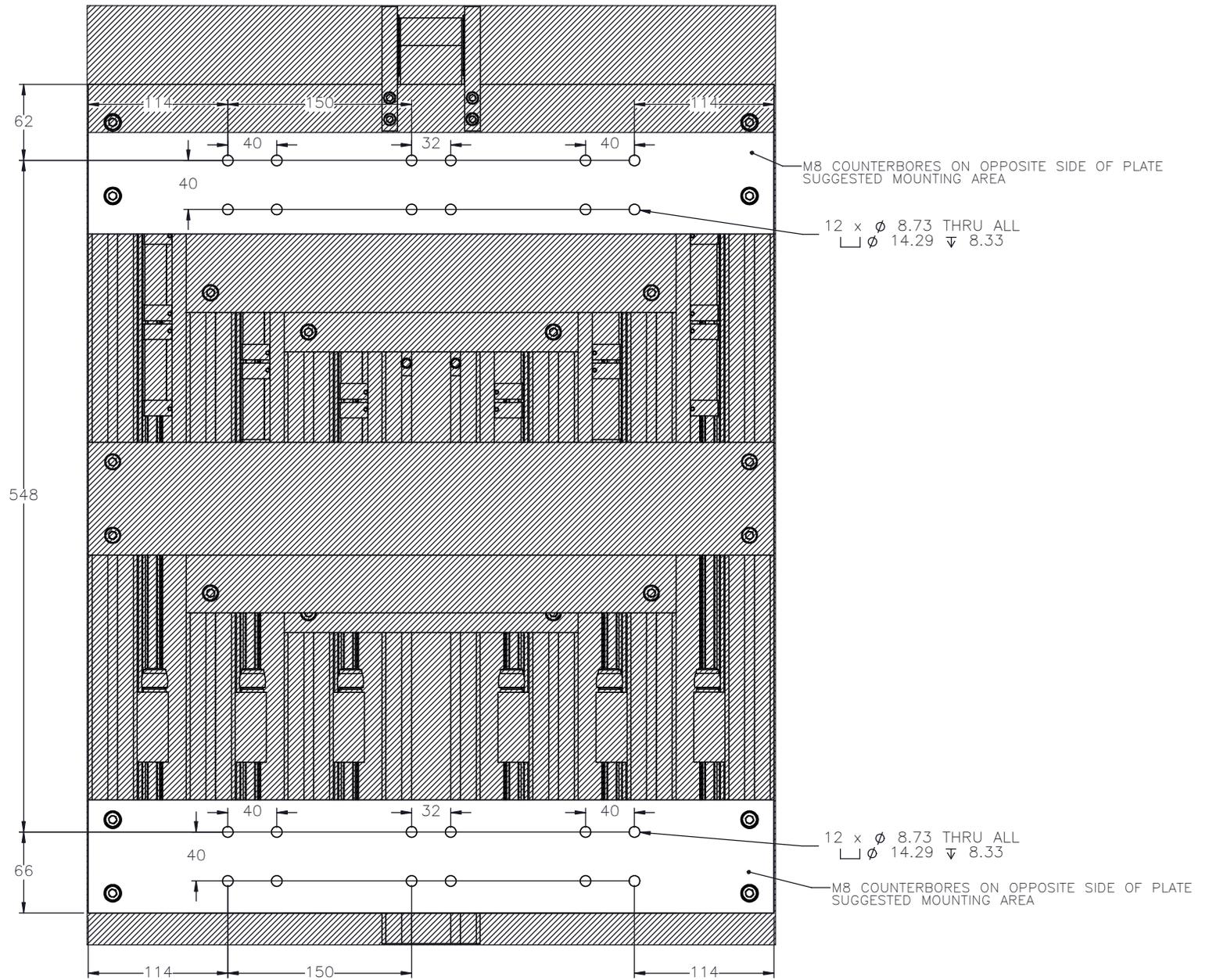
RETRACTED DIMENSIONS



***Z BEAM = (Z TRAVEL / 3 (ROUND UP)) + 342**

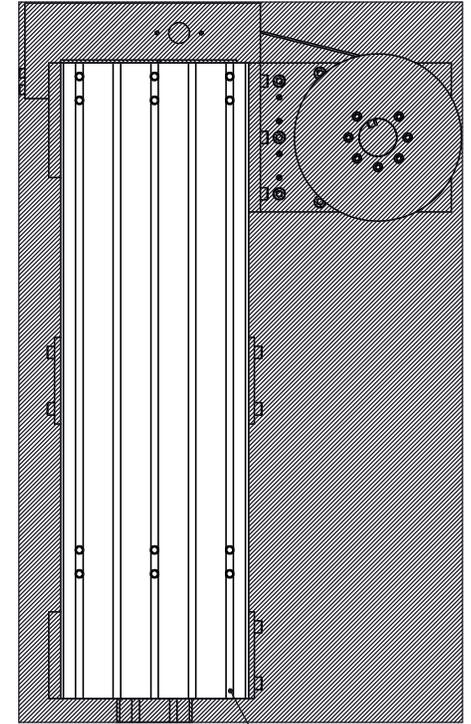
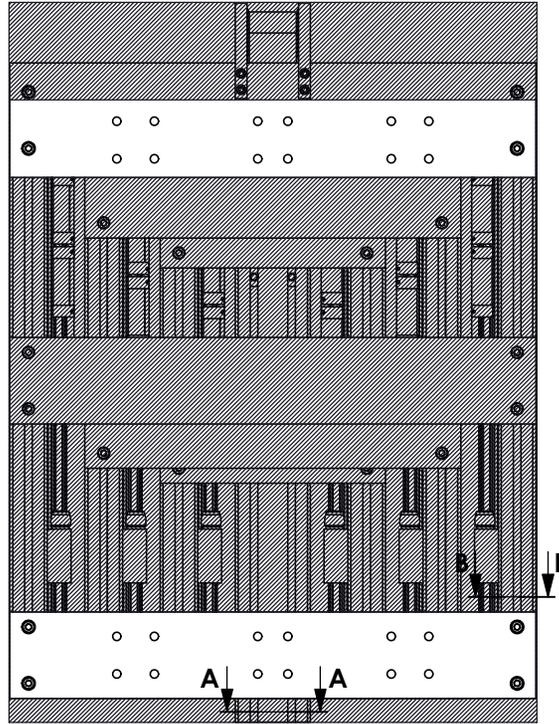
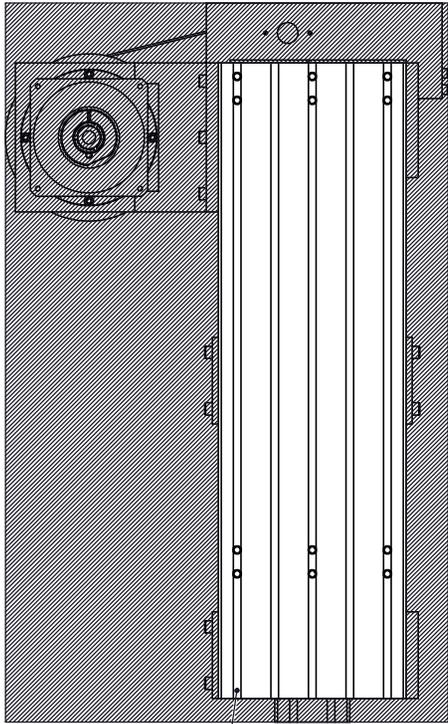
 MACRON DYNAMICS INC	DRAWN BY: AW DATE: 4/12/2023	MATERIAL:	TITLE:
	CHECKED BY: -- DATE: DD/MM/YYYY	FINISH:	MACRON TELESCOPING RAIL ACTUATOR
	LAST SAVED BY: awong DATE: 8/7/2023	UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN INCHES: TOLERANCES UNLESS NOTED: OTHERWISE:	.X ± .762 .XX ± .254 .XXX ± .127 ANG ± 0°30'
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GANTRY MOUNTING FEATURES



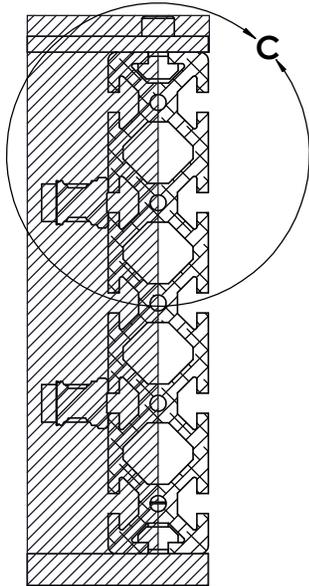
 MACRON DYNAMICS INC	DRAWN BY: AW DATE: 4/12/2023	MATERIAL:	TITLE: MACRON TELESCOPING RAIL ACTUATOR
	CHECKED BY: -- DATE: DD/MM/YYYY	FINISH:	
	LAST SAVED BY: awong DATE: 8/7/2023	UNLESS OTHERWISE SPECIFIED: .X ± .762 DIMENSIONS ARE IN MILLIMETERS: .XX ± .254 TOLERANCES UNLESS NOTED: .XXX ± .127 OTHERWISE: ANG ± 0°30'	
	SURFACE FINISH 63		
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.		SHEET: 3 OF 5	PART NUMBER: MTA-R20-0-00-A01-XXXX
BREAK ALL SHARP EDGES DIMENSIONAL LIMITS APPLY AFTER FINISHING THIRD ANGLE PROJECTION		REV:	C

ADDITIONAL GANTRY MOUNTING

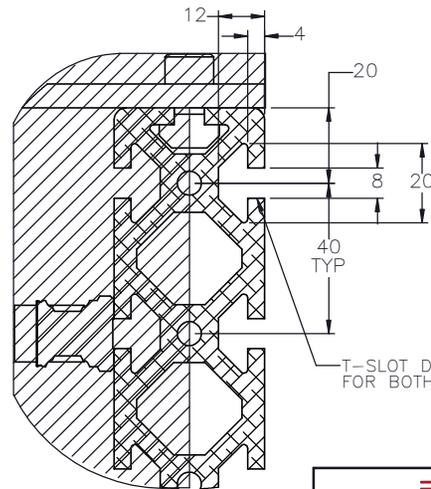


(5x) T-SLOTS AVAILABLE

(5x) T-SLOTS AVAILABLE

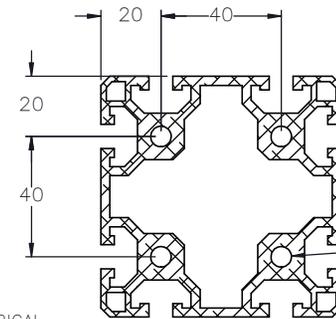


SECTION B-B



DETAIL C
SCALE 1 : 1

T-SLOT DIMENSIONS TYPICAL FOR BOTH SIDE BEAMS



SECTION A-A

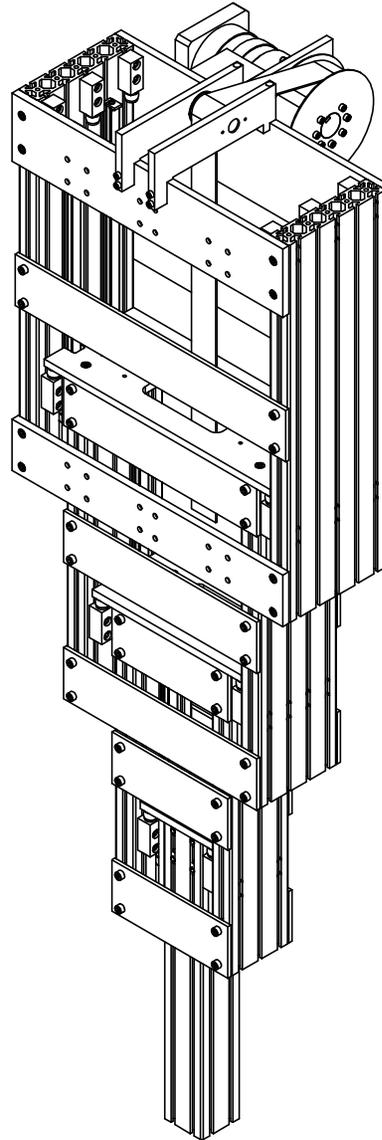
4 x ϕ 6.80 ∇ 25.30
M8x1.25 - 6H ∇ 19.05

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	CHECKED BY: -- DATE: DD/MM/YYYY	FINISH:	
	LAST SAVED BY: awong DATE: 8/7/2023	SURFACE FINISH: ∇ 3.2	
	UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN MILLIMETERS TOLERANCES UNLESS NOTED: .XX \pm .254 .XXX \pm .127 OTHERWISE: ANG. \pm 0°30'	SHEET: 4 OF 5 PART NUMBER: MTA-R20-0-00-A01-XXXX	
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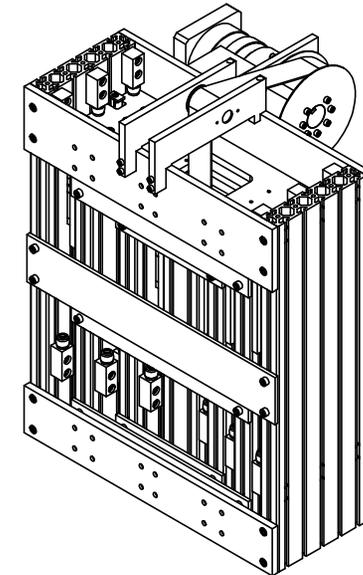
MOTOR SIZING WORKSHEET

(INCREMENTAL ADDERS REFER TO MASS PER TRAVEL LENGTH)

BASED TRAVELS USED:
Z TRAVEL = 1000mm



SYSTEM RETRACTED



Z-TRAVEL = _____ mm

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

GEARBOX MASS (ADD TO SYSTEM MASS)	EPL-110	7.9kg
	EPR-110	17.0kg

PROPERTY	BASE VALUE (T=1000mm)
**MOVING MASS	23.5kg(+0.345kg/25mm)
BELT MASS	0.117kg(+0.05kg/25mm)
PULLEY WIDTH	54mm (2.13")
PULLEY MATERIAL	ALUMINUM
TRAVEL PER REV	399mm(+25.12mm/REV)

TOTAL SYSTEM MASS	(Z-TRAVEL x .0239) + 63.35 = kg		
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DIMENSIONAL LIMITS APPLY AFTER FINISHING		THIRD ANGLE PROJECTION	