

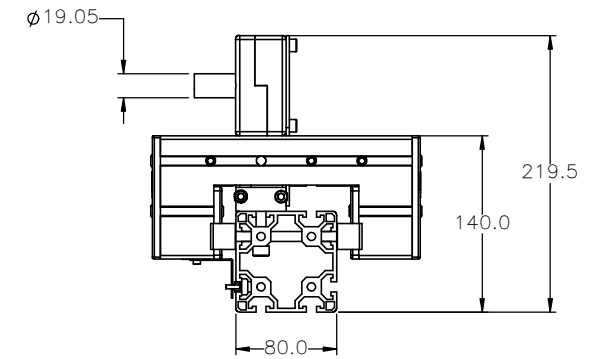
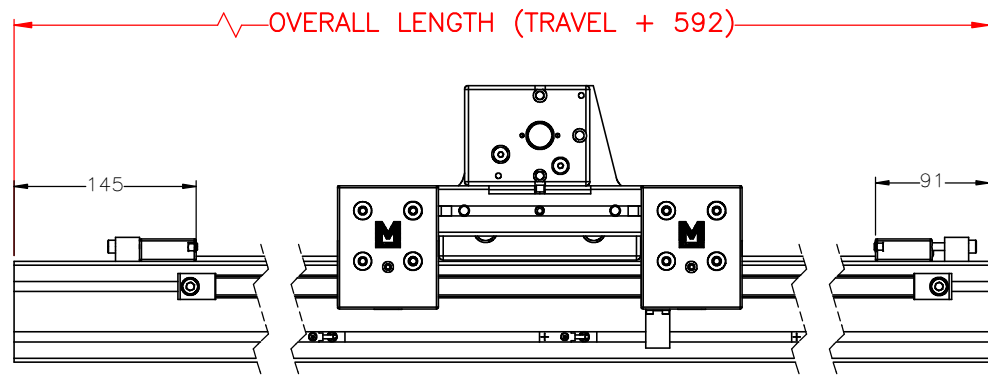
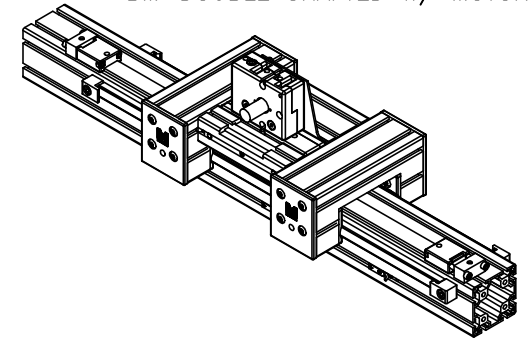
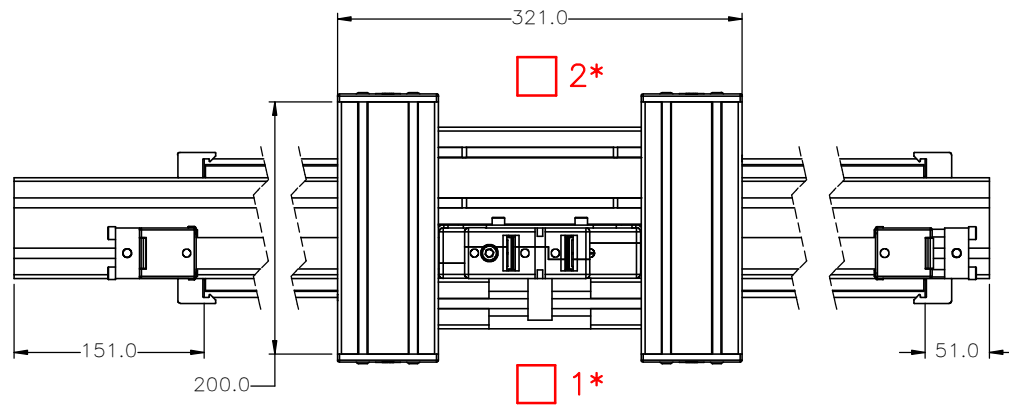
# MSA-14Z-G-BC- -

PULLEY PITCH DIAMETER	47.75mm (1.880")
PULLEY WIDTH	28.9mm (1.138")
PULLEY MATERIAL	STEEL
BELT WEIGHT (kg)	(TRAVEL IN METERS + .925) x .12
TRAVEL PER REV.	150mm
TRAVEL MIN.	250mm
TRAVEL MAX.	1000mm
CART WEIGHT (kg)	7.94kg
SYSTEM WEIGHT (kg)	(TRAVEL IN METERS x 8.4) + 13.1

*ENTER*  
TRAVEL IN INCREMENTS OF 250mm

*SELECT*  
DRIVE SHAFT LOCATION

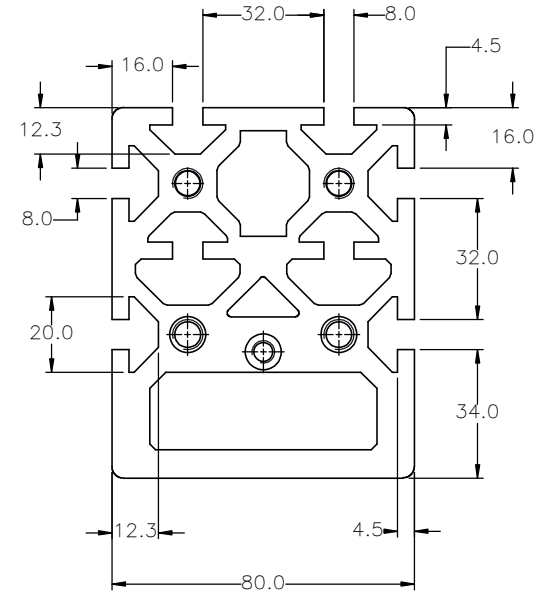
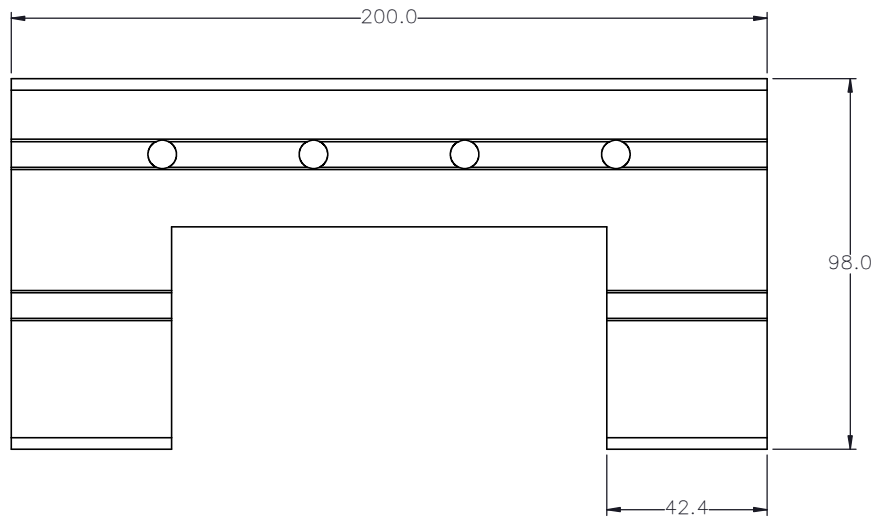
*SHAFTING TYPE*  
 A0= SINGLE SHAFTED  
 B0= DOUBLE SHAFTED  
 NOTE: (IF "B" IS USED THE NUMBER WILL DESIGNATE POSITION OF SHORT SHAFT. SECOND SHAFT WILL BE 50.8mm LONG.)  
 AM= SINGLE SHAFTED W/ MOTOR MOUNT  
 BM= DOUBLE SHAFTED W/ MOTOR MOUNT



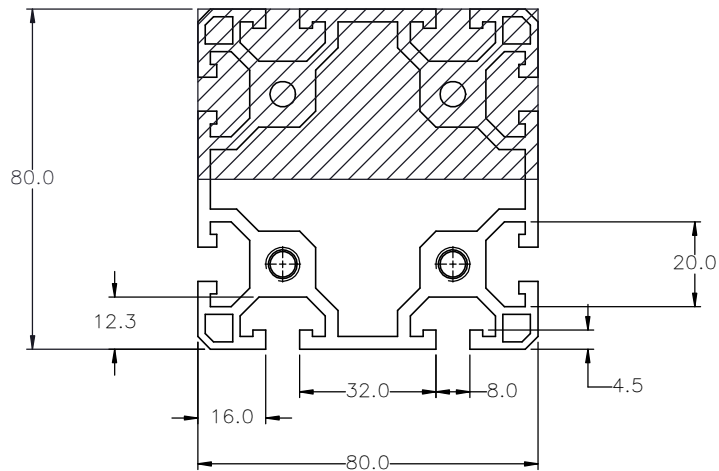
APPROVED: \_\_\_\_\_  
 DATE: \_\_\_\_\_

 <b>MACRON DYNAMICS INC</b>	DRAWN BY: PHW    DATE: 11/26/2017    MATERIAL:	TITLE: 14Z ACTUATOR
	CHECKED BY:    DATE: DD/MM/YYYY	
	LAST SAVED BY: Paul    DATE: 7/18/2023	FINISH:
	UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN INCHES: TOLERANCES UNLESS NOTED: OTHERWISE:	.X ± .03 .XX ± .010 .XXX ± .005 ANG ± 0°30'
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: 1 OF 13    PART NUMBER: MSA-14Z-G-BC-A01    REV:

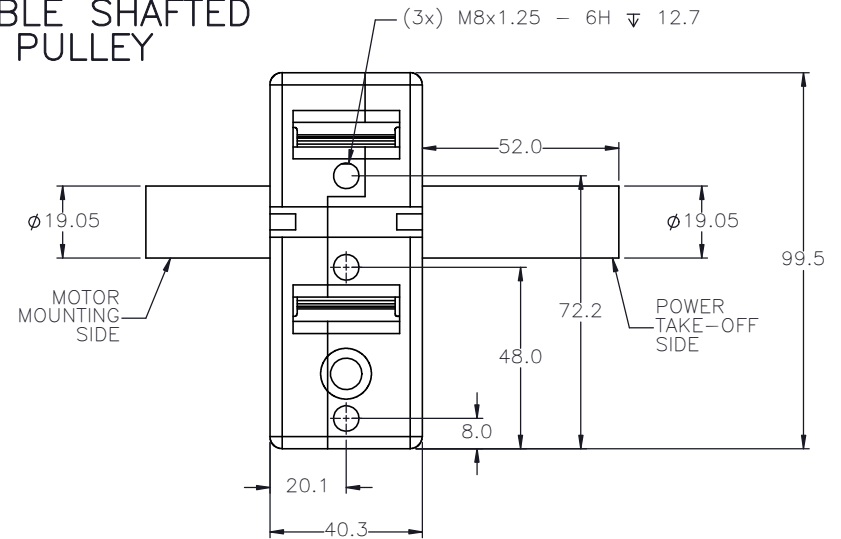
# CART MOUNTING T-SLOT FEATURES



# ACTUATOR BODY T-SLOT MOUNTING FEATURES



# DOUBLE SHAFTED PULLEY



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CONSTITUTE LICENSING IN ANY WAY. INFORMATION  
CONTAINED HEREIN IS PROPRIETARY AND CONFIDENTIAL

DRAWN BY: PHW	DATE: 11/26/2017	MATERIAL:
CHECKED BY:	DATE: DD/MM/YYYY	
LAST SAVED BY: awong	DATE: 7/18/2023	
UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN MILLIMETERS TOLERANCES UNLESS NOTED OTHERWISE:		FINISH:
.X ± .762		
.XX ± .254		
.XXX ± .127		
ANG ± 0°30'		

SURFACE FINISH  $\nabla$   
BREAK ALL SHARP EDGES  
DIMENSIONAL LIMITS APPLY AFTER FINISHING  
THIRD ANGLE PROJECTION

SHEET  
2 OF 13

PART NUMBER

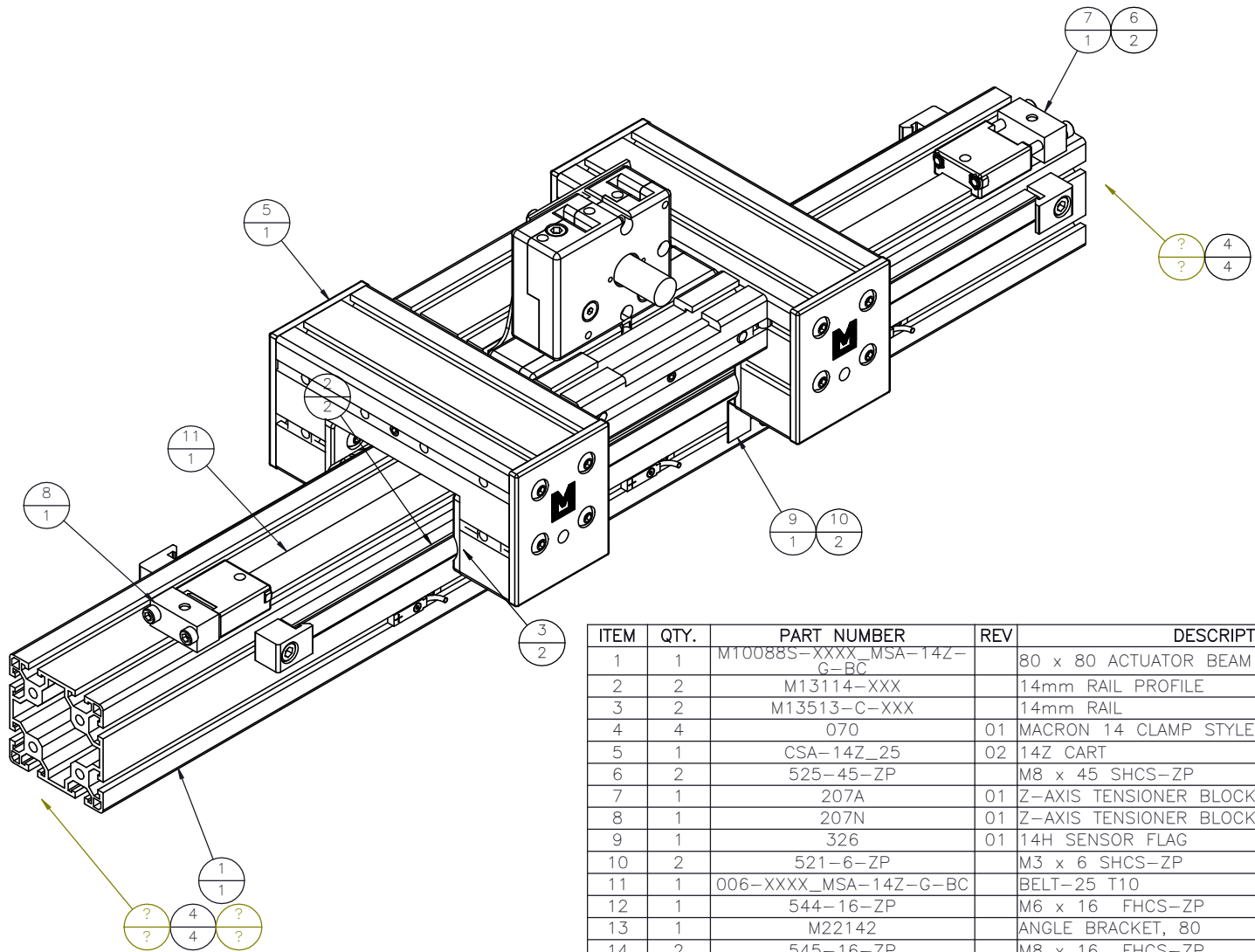
MSA-14Z

TITLE:  
MACRON 14Z  
ACTUATOR


SCALE 1:1 SHEET SIZE C

REV

SPECIFICATIONS ARE SUBJECT  
TO CHANGE WITHOUT NOTICE



ITEM	QTY.	PART NUMBER	REV	DESCRIPTION
1	1	M10088S-XXXX_MSA-14Z-G-BC		80 x 80 ACTUATOR BEAM
2	2	M13114-XXX		14mm RAIL PROFILE
3	2	M13513-C-XXX		14mm RAIL
4	4	070	01	MACRON 14 CLAMP STYLE RAIL STOP
5	1	CSA-14Z_25	02	14Z CART
6	2	525-45-ZP		M8 x 45 SHCS-ZP
7	1	207A	01	Z-AXIS TENSIONER BLOCK ASSY, ADJUSTABLE
8	1	207N	01	Z-AXIS TENSIONER BLOCK ASSY, NON-ADJ.
9	1	326	01	14H SENSOR FLAG
10	2	521-6-ZP		M3 x 6 SHCS-ZP
11	1	006-XXXX_MSA-14Z-G-BC		BELT-25 T10
12	1	544-16-ZP		M6 x 16 FHCS-ZP
13	1	M22142		ANGLE BRACKET, 80
14	2	545-16-ZP		M8 x 16 FHCS-ZP
15	3	244-NPN-NC-06		PROX SENSOR KIT
16	2	544-18-ZP		M6 x 18 FHCS-ZP
17	2	525-110-ZP		M8 x 110 SHCS-ZP
18	2	629-ZP		M8 NYLOCK NUT-ZP



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DRAWN BY: PHW    DATE: 11/26/2017

CHECKED BY:    DATE: DD/MM/YYYY

LAST SAVED BY: Paul    DATE: 7/18/2023

UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE IN MILLIMETERS. TOLERANCES UNLESS NOTED OTHERWISE:

.X ±	.762
.XX ±	.254
.XXX ±	.127
ANG ±	0°30'

MATERIAL:

FINISH:

SURFACE FINISH  **THIRD ANGLE PROJECTION**

SHEET: **3 OF 13**

PART NUMBER: **MSA-14Z-G-BC-A01**

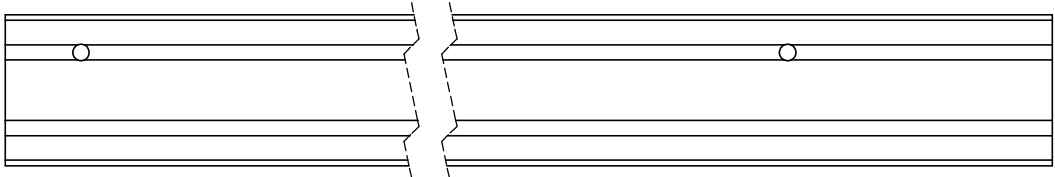
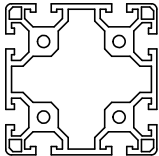
SCALE: 1:1    SHEET SIZE: C

TITLE: **14Z ACTUATOR**

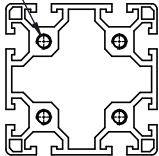
REV

# CUTTING

ACTUATOR BEAM  
80 x 80S



4 x  $\phi$  6.80  $\nabla$  19.05  
M8x1.25 - 6H  $\nabla$  19.05

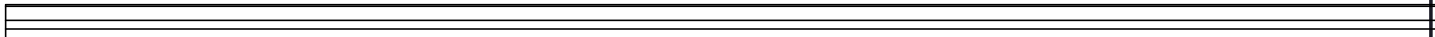


BEAM LENGTH = Z TRAVEL + 592mm = \_\_\_\_\_

RAIL  
14mm

RAIL LENGTH = Z TRAVEL + 390mm = \_\_\_\_\_


PROFILE  
14mm



PROFILE LENGTH = Z TRAVEL + 390mm = \_\_\_\_\_

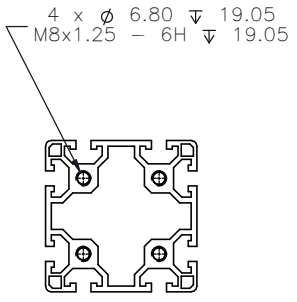
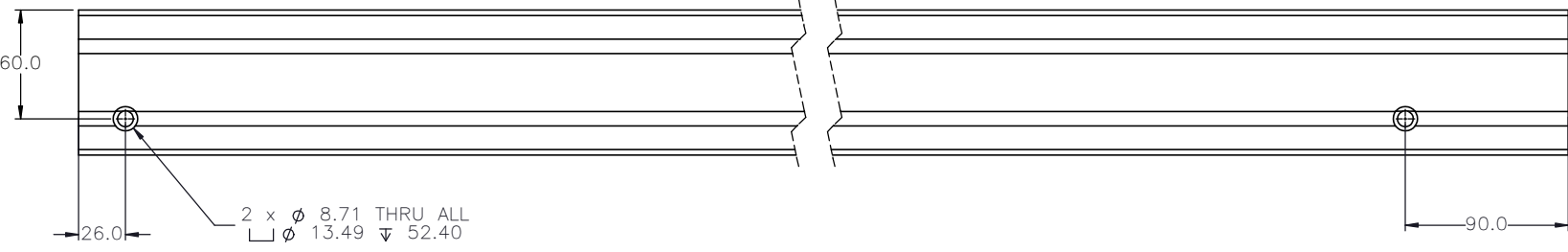
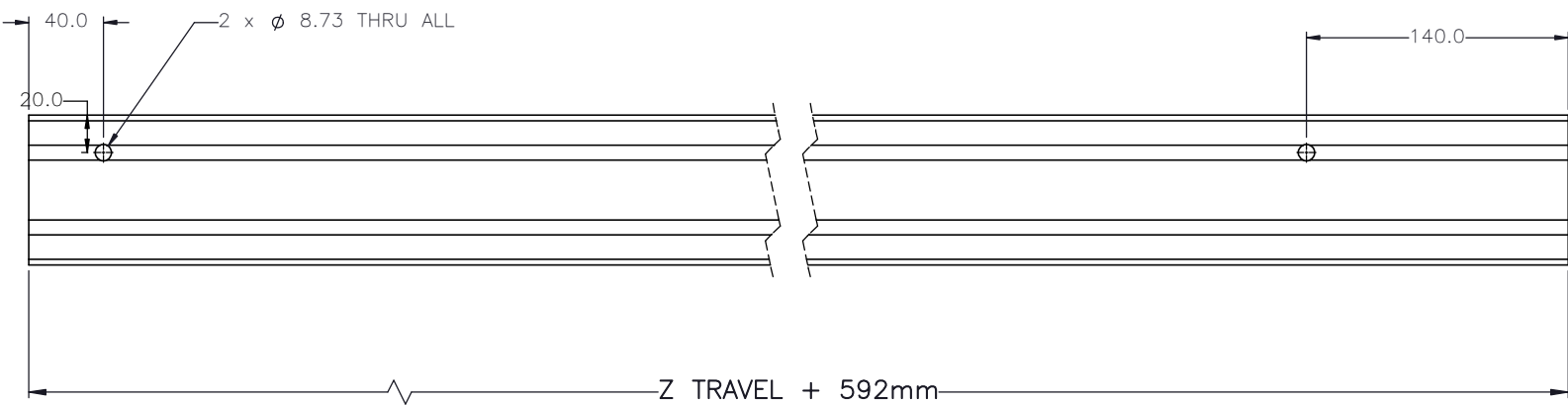
BELT  
25T10


BELT LENGTH = Z TRAVEL + 925mm = \_\_\_\_\_

 <b>MACRON DYNAMICS INC</b>	DRAWN BY: PHW CHECKED BY: LAST SAVED BY: awong	DATE: 11/26/2017 DATE: DD/MM/YYYY DATE: 7/18/2023	MATERIAL:	TITLE: MACRON 14X ACTUATOR	
	UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE IN INCHES: TOLERANCES UNLESS NOTED OTHERWISE:		FINISH:	SCALE: 1:1   SHEET SIZE: C	
	SURFACE FINISH <input checked="" type="checkbox"/>		BREAK ALL SHARP EDGES DIMENSIONAL LIMITS APPLY AFTER FINISHING THIRD ANGLE PROJECTION	SHEET: 4 OF 13 PART NUMBER: MSA-14Z	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 CONCERNING DOES NOT CONSTITUTE LICENSING IN ANY WAY. INFORMATION CONTAINED HEREIN IS PROPRIETARY AND CONFIDENTIAL.				

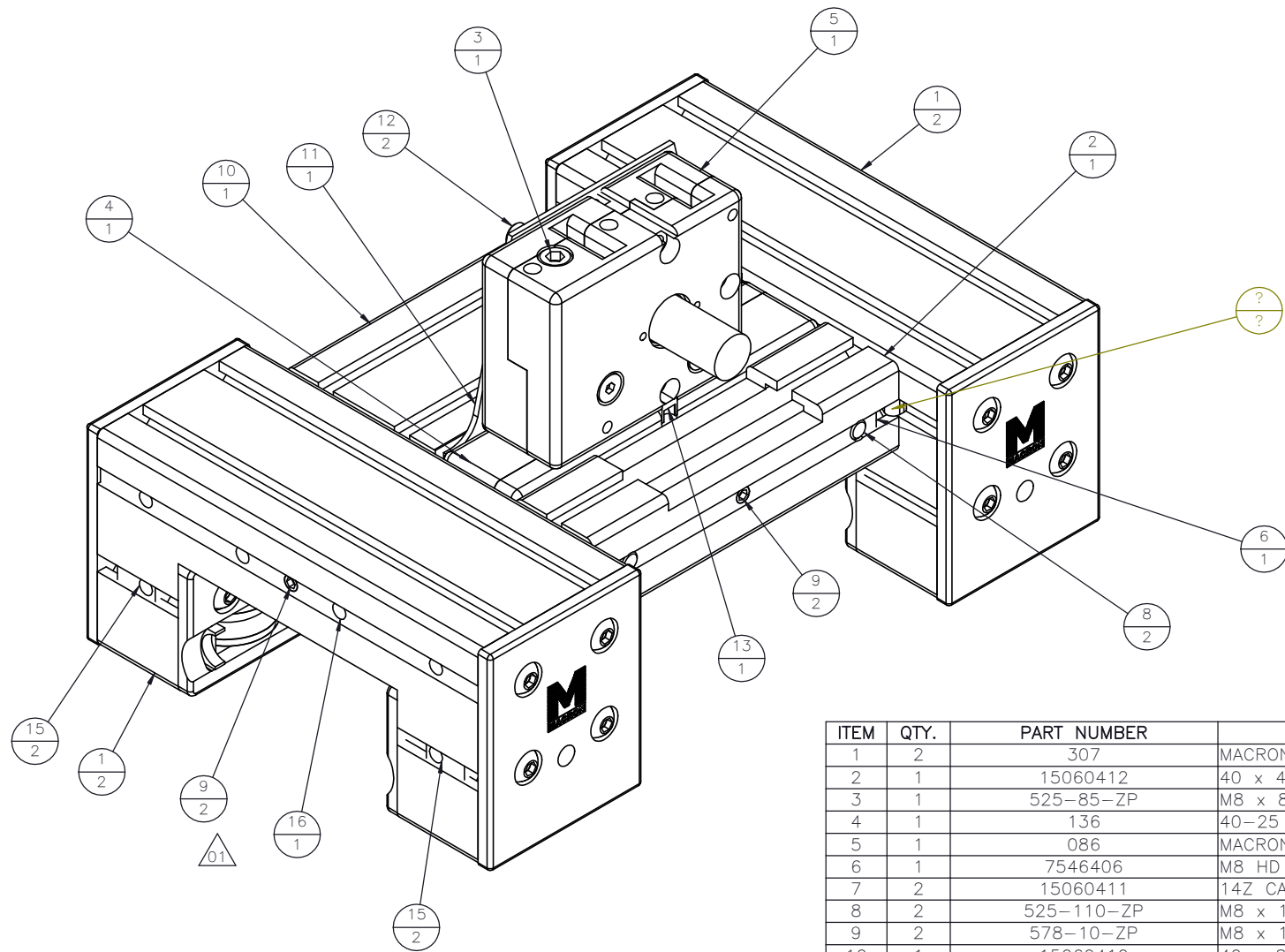
REVISION HISTORY			
REV.	DESCRIPTION	DATE	REVISED BY:

# PROCESSING




 <b>MACRON DYNAMICS INC</b>	DRAWN BY: PHW CHECKED BY: LAST SAVED BY: Paul	DATE: 11/26/2017 DATE: DD/MM/YYYY DATE: 7/18/2023	MATERIAL: 80x80 STANDARD EXTRUSION (M10088S)	TITLE: 80 x 80 ACTUATOR BEAM
	UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE IN MILLIMETERS. TOLERANCES, UNLESS NOTED OTHERWISE:		FINISH: N/A	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 <input checked="" type="checkbox"/> BREAK ALL SHARP EDGES DIMENSIONAL LIMITS APPLY AFTER FINISHING <b>THIRD ANGLE PROJECTION</b>	SHEET: 5 OF 13 PART NUMBER: MSA-14Z

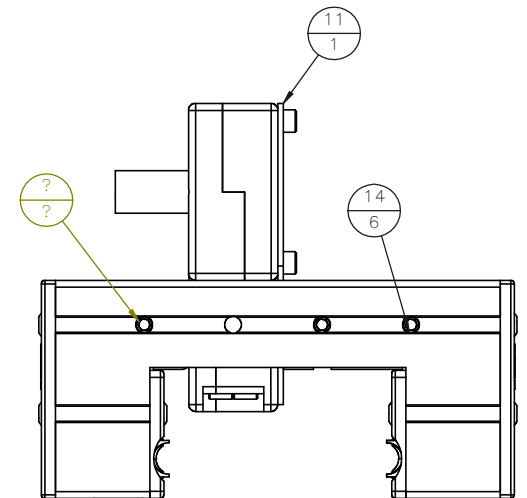
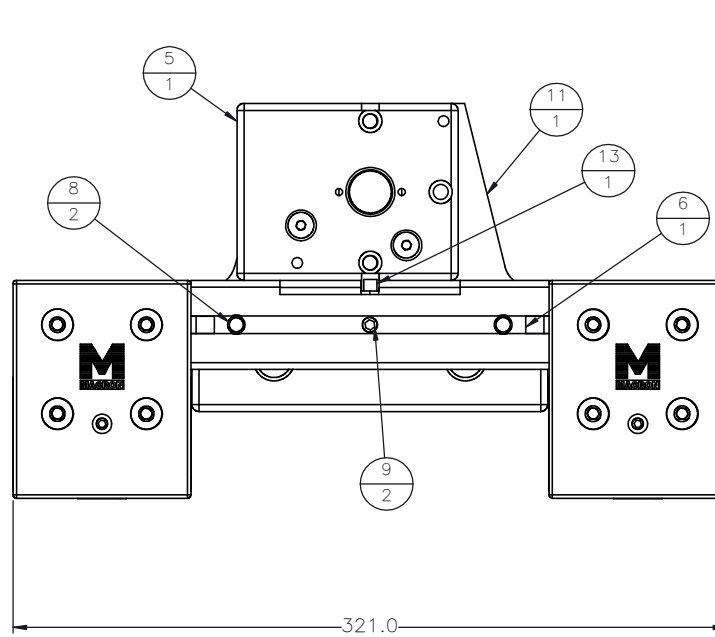
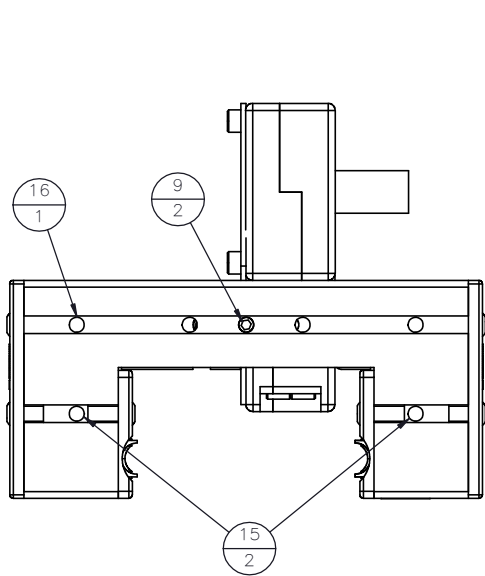
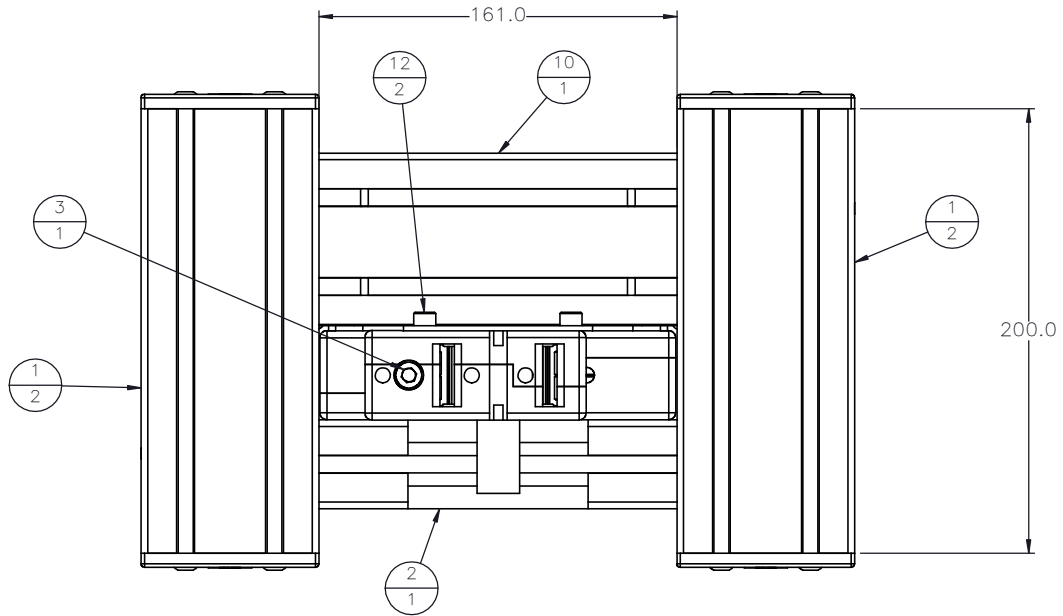
REVISION HISTORY			
REV.	DESCRIPTION	DATE	REVISED BY:
01	ADDED Z MOUNT T-BAR	7/12/2018	PHW




ITEM	QTY.	PART NUMBER	DESCRIPTION
1	2	307	MACRON 14 HD BLANK BEARING CART ASSY
2	1	15060412	40 x 40 14Z BEAM
3	1	525-85-ZP	M8 x 85 SHCS-ZP
4	1	136	40-25 COUNTER BELT DRIVE
5	1	086	MACRON PULLEY ASSEMBLY 40-25, 3/4"
6	1	7546406	M8 HD T-SLOT NUT
7	2	15060411	14Z CART SPACER
8	2	525-110-ZP	M8 x 110 SHCS-ZP
9	2	578-10-ZP	M8 x 10 FLAT POINT SET SCREW-ZP
10	1	15060410	40 x 80 14Z SUPPORT BEAM
11	1	15060409	14Z SUPPORT PLATE
12	2	524-16-ZP	M6 x 16 SHCS-ZP
13	1	320	PULLEY ASSEMBLY KEY
14	6	505-18-ZP	M8 x 18 BHCS-ZP
15	2	096068	M8 HD T-SLOT NUT W/ BALL PLUNGER
16	1	18413414	Z AXIS MOUNTING BAR
17	2	525-60-ZP	M8 x 60 SHCS-ZP
18	6	M2000Z1	STANDARD FASTENER

 <b>MACRON DYNAMICS INC</b>	DRAWN BY: PHW    DATE: 11/26/2017 CHECKED BY:    DATE: DD/MM/YYYY LAST SAVED BY: Paul    DATE: 7/18/2023	MATERIAL:  FINISH:	TITLE: 14Z CART	
	UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE IN INCHES: TOLERANCES UNLESS NOTED OTHERWISE:	.X ± .762 .XX ± .254 .XXX ± .127 ANG ± 0°30'	SCALE: 1:1    SHEET SIZE: C	
	SURFACE FINISH: <input checked="" type="checkbox"/> BREAK ALL SHARP EDGES DIMENSIONAL LIMITS APPLY AFTER FINISHING <b>THIRD ANGLE PROJECTION</b>	SHEET: 6 OF 13 PART NUMBER: CSA-14Z_25	REV: 02	

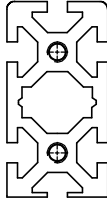
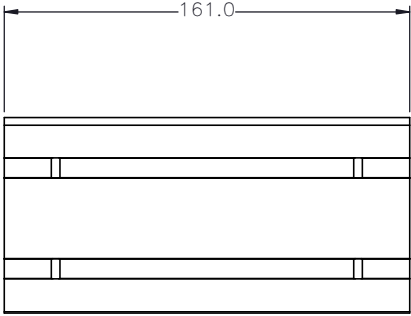
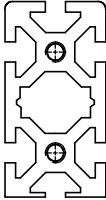
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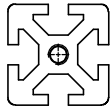
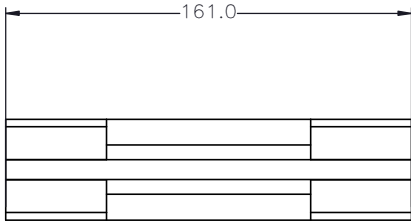
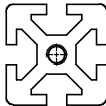
 <b>MACRON DYNAMICS INC</b>	DRAWN BY: PHW      DATE: 11/26/2017	MATERIAL:	TITLE: 14Z CART
	CHECKED BY:      DATE: DD/MM/YYYY		
	LAST SAVED BY: Paul      DATE: 7/18/2023		
	UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN INCHES: TOLERANCES UNLESS NOTED: OTHERWISE:	.X ± .03 .XX ± .010 .XXX ± .005 ANG ± 0°30'	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      63 BREAK ALL SHARP EDGES DIMENSIONAL LIMITS APPLY AFTER FINISHING <b>THIRD ANGLE PROJECTION</b>	SHEET: 7 OF 13 PART NUMBER: CSA-14Z_25	SCALE: 1:1      SHEET SIZE: C


# CUTTING

CART SPACER  
40x80H



CART SPACER  
40x40H

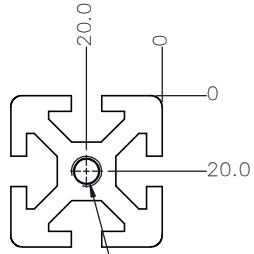
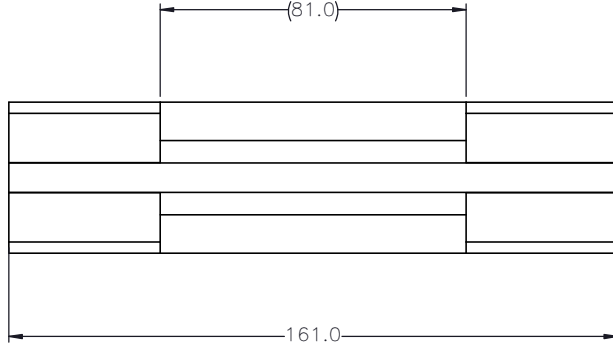


 <b>MACRON DYNAMICS INC</b>	DRAWN BY: PHW      DATE: 11/26/2017	MATERIAL:	40x40 HEAVY EXTRUSION (M11040H)	TITLE: MACRON 14X ACTUATOR
	CHECKED BY:      DATE: DD/MM/YYYY	FINISH:		
	LAST SAVED BY: awong      DATE: 7/18/2023	.X ± .03 .XX ± .010 .XXX ± .005 OTHERWISE: ANG ± 0°30'	SCALE: 1:1      SHEET SIZE: 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: <input checked="" type="checkbox"/> BREAK ALL SHARP EDGES DIMENSIONAL LIMITS APPLY AFTER FINISHING THIRD ANGLE PROJECTION	SHEET: 8 OF 13      PART NUMBER: MSA-14Z	REV:

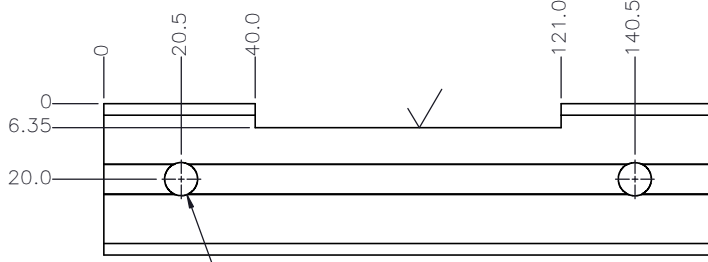


REVISION HISTORY			
REV.	DESCRIPTION	DATE	REVISED BY:

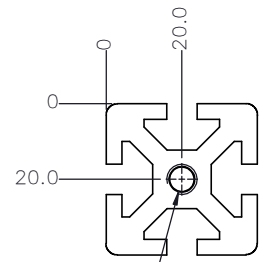
# PROCESSING




$\phi$  6.80  $\nabla$  19.05  
M8x1.25 - 6H  $\nabla$  19.05



2 x  $\phi$  8.73 THRU ALL

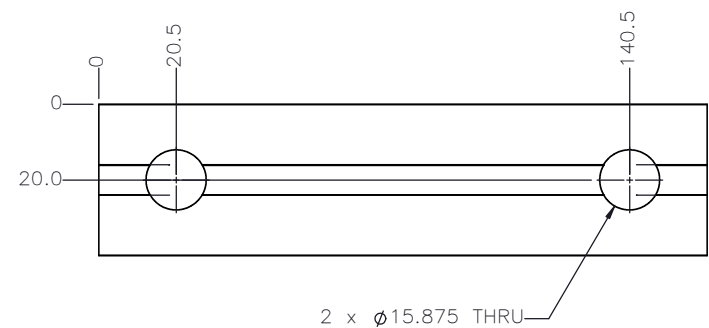
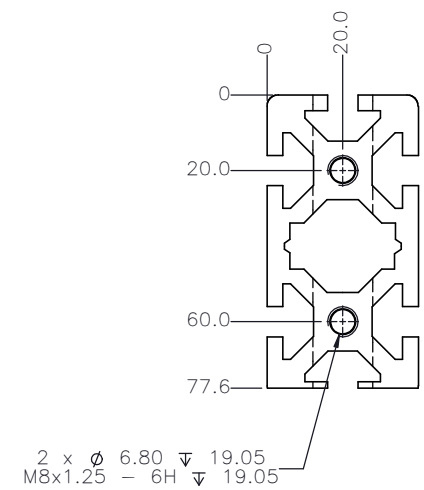
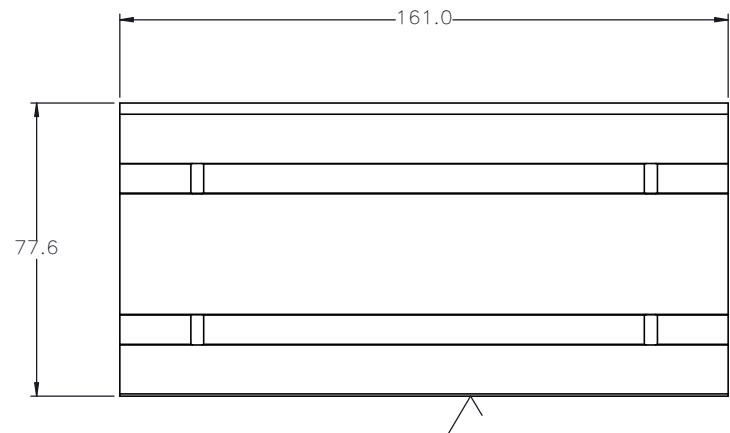
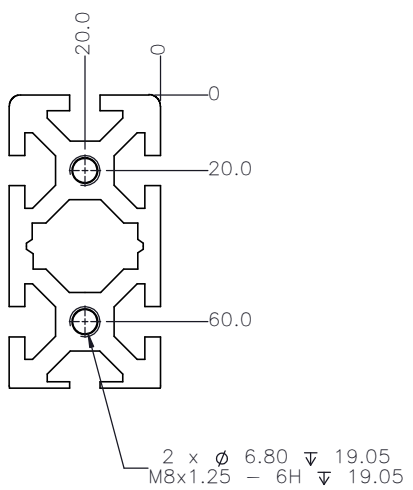



$\phi$  6.80  $\nabla$  19.05  
M8x1.25 - 6H  $\nabla$  19.05

 <b>MACRON DYNAMICS INC</b>	DRAWN BY: PHW    DATE: 11/26/2017	MATERIAL: 40x40 HEAVY EXTRUSION (M11040H)	TITLE: 40 x 40 14Z BEAM
	CHECKED BY:    DATE: DD/MM/YYYY		
	LAST SAVED BY: Paul    DATE: 7/18/2023	FINISH: .X $\pm$ .762 .XX $\pm$ .254 .XXX $\pm$ .127 OTHERWISE: ANG $\pm$ 0°30'	SCALE: 1:1    SHEET SIZE: C
<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 CONCERNING DOES NOT CONSTITUTE LICENSING IN ANY WAY. INFORMATION CONTAINED HEREIN IS PROPRIETARY AND CONFIDENTIAL.</small>	SURFACE FINISH <input checked="" type="checkbox"/> BREAK ALL SHARP EDGES DIMENSIONAL LIMITS APPLY AFTER FINISHING <b>THIRD ANGLE PROJECTION</b>	SHEET: 9 OF 13    PART NUMBER: 15060412	REV:

REVISION HISTORY			
REV.	DESCRIPTION	DATE	REVISED BY:
01	MADE 5/8" HOLE THROUGH ALL	3/17/2014	ASB

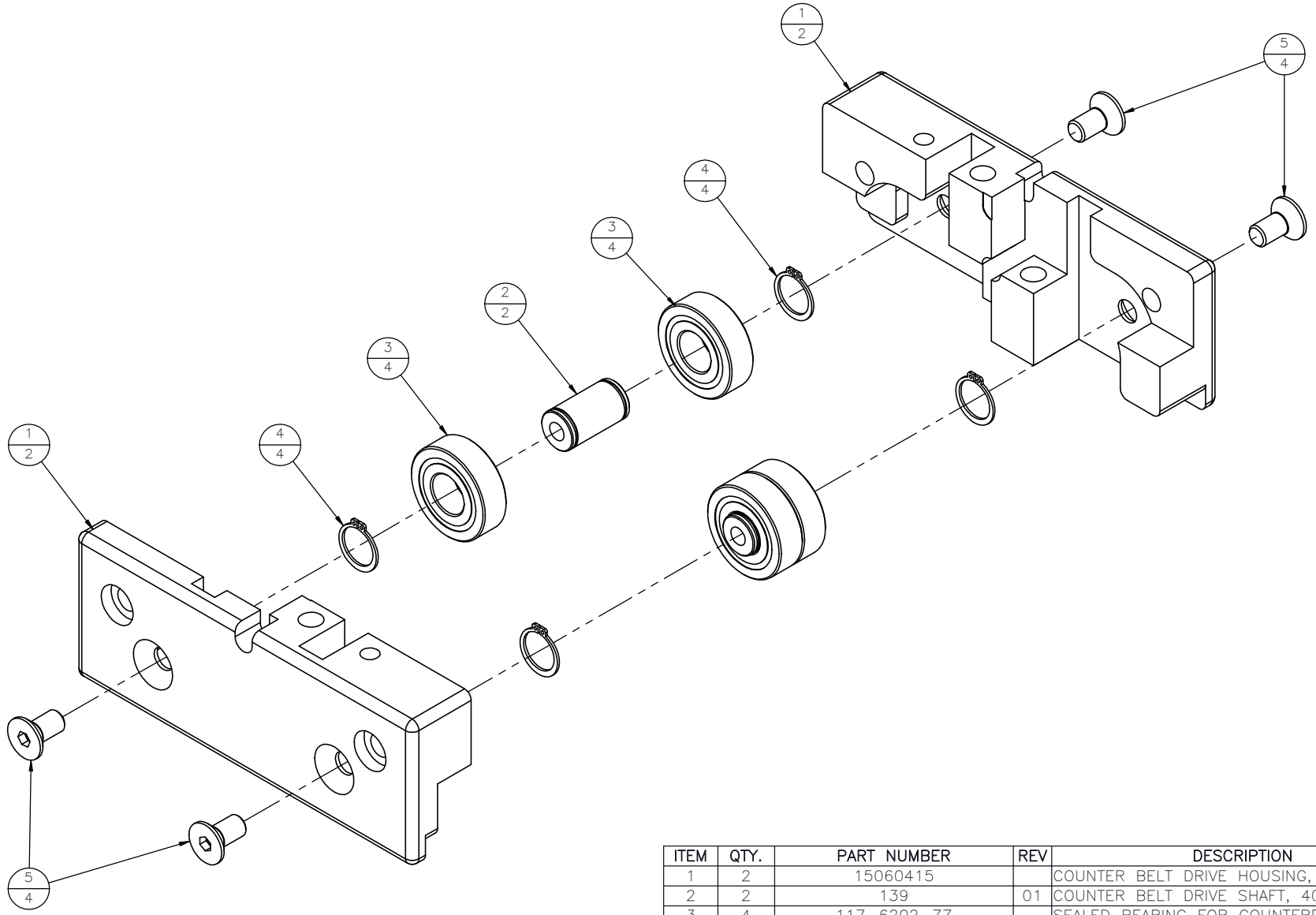
# PROCESSING




 <b>MACRON DYNAMICS INC</b>	DRAWN BY: PHW      DATE: 11/26/2017	MATERIAL: 40x80 HEAVY EXTRUSION (M11080H)	TITLE: 40 x 80 14Z SUPPORT BEAM
	CHECKED BY:      DATE: DD/MM/YYYY		
	LAST SAVED BY: Paul      DATE: 7/18/2023	FINISH:	SCALE: 1:1      SHEET SIZE: C
	UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN MILLIMETERS: TOLERANCES, UNLESS NOTED: OTHERWISE:	SURFACE FINISH: <input checked="" type="checkbox"/> BREAK ALL SHARP EDGES DIMENSIONAL LIMITS APPLY AFTER FINISHING <b>THIRD ANGLE PROJECTION</b>	SHEET: 10 OF 13      PART NUMBER: 15060410

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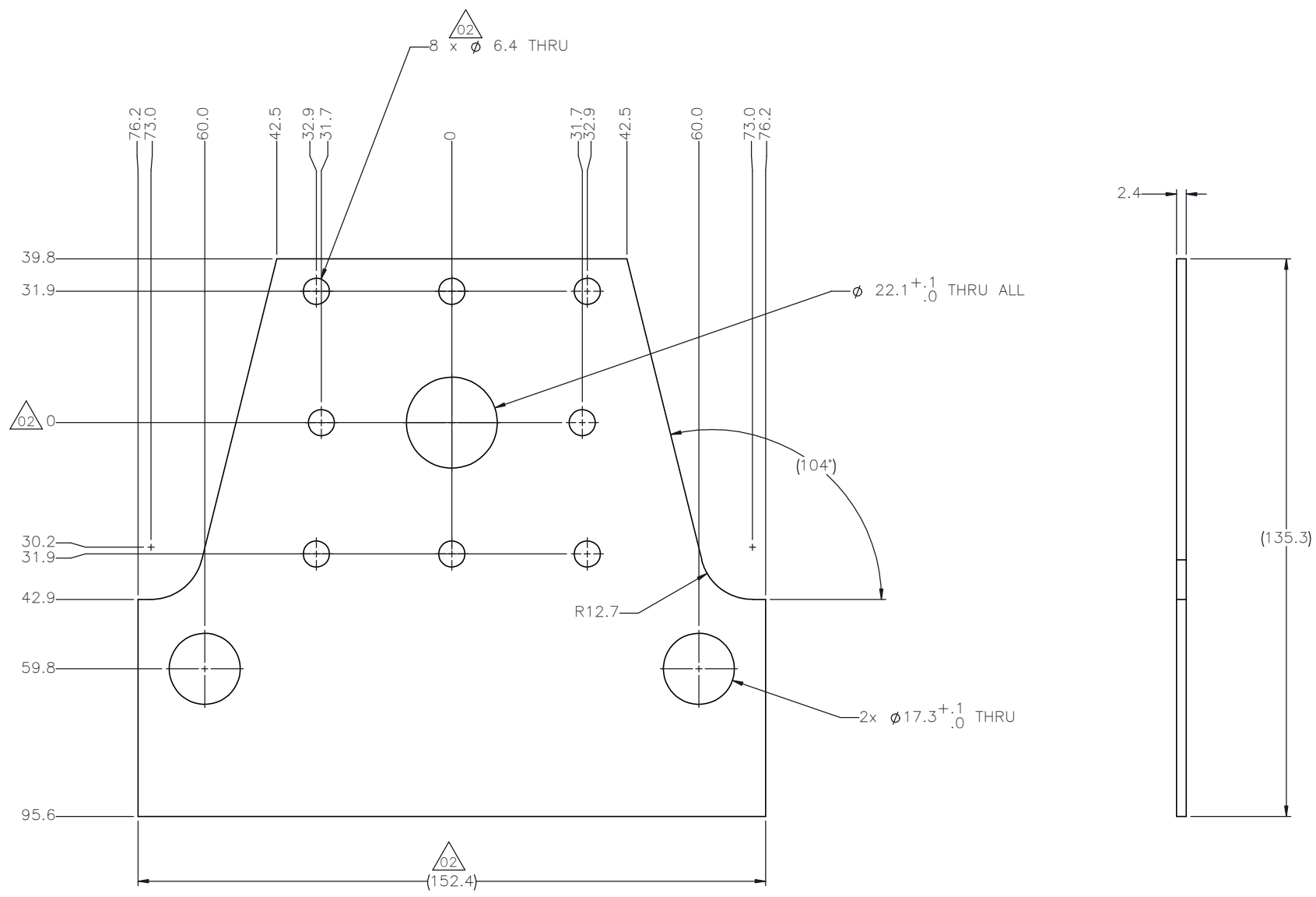
REVISION HISTORY			
REV.	DESCRIPTION	DATE	REVISED BY:



ITEM	QTY.	PART NUMBER	REV	DESCRIPTION
1	2	15060415		COUNTER BELT DRIVE HOUSING, 40-25
2	2	139	01	COUNTER BELT DRIVE SHAFT, 40-25
3	4	117-6202-ZZ		SEALED BEARING FOR COUNTERDRIVE
4	4	141		"C" CLIP - RETAINING RING, 40-25
5	4	545-16-ZP		M8 x 16 FHCS-ZP


 <b>MACRON DYNAMICS INC</b>	DRAWN BY: PHW      DATE: 11/26/2017 CHECKED BY:              DATE: DD/MM/YYYY LAST SAVED BY: Paul      DATE: 7/18/2023	MATERIAL:  FINISH:	TITLE: <b>40-25 COUNTER BELT DRIVE</b>	
	UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN INCHES: .XX ± .254 TOLERANCES UNLESS NOTED: .XXX ± .127 OTHERWISE: ANG ± 0°30'	SURFACE FINISH <input checked="" type="checkbox"/> BREAK ALL SHARP EDGES DIMENSIONAL LIMITS APPLY AFTER FINISHING	SCALE: 1:1      SHEET SIZE: C	SHEET: 11 OF 13      PART NUMBER: 15060414
	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.		THIRD ANGLE PROJECTION	REV:

REVISION HISTORY			
REV.	DESCRIPTION	DATE	REVISED BY:
01	ADDED .870" HOLE IN CENTER	4-1-2014	PHW
02	CHG'D ORIGIN TO CENTER. ALL HOLES MADE SAME SIZE. OAL NOW 6.00"	7/15/2016	PHW

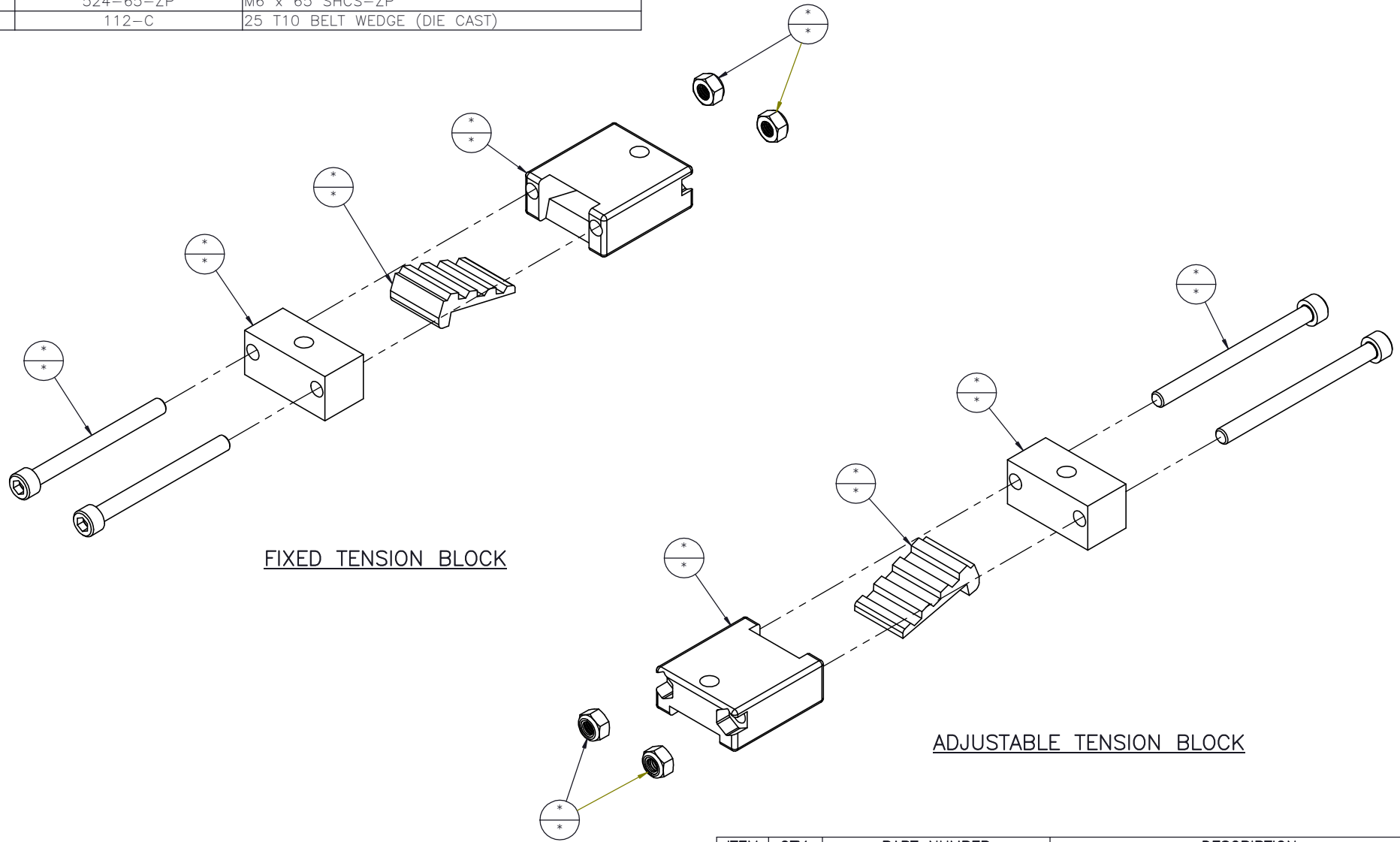


**FINISHING NOTES:**  
 1.) ANY MATERIAL WITH DEEP SCRATCHES GREATER THAN .001" DEEP MUST NOT BE USED.  
 2.) SCRATCHES LESS THAN .001" DEEP ARE TO BE BLENDED OUT BY HAND.  
 3.) AFTER MACHINING THE PART IS TO BE TUMBLED OR JITTERBUGGED.

**PRE ANODIZING / PLATING:**  
 1.) ALL GREASE AND COOLANT STAINS ARE TO BE REMOVED.

 <b>MACRON DYNAMICS INC</b>	DRAWN BY: PHW CHECKED BY: LAST SAVED BY: Paul	DATE: 11/26/2017 DATE: DD/MM/YYYY DATE: 7/18/2023	MATERIAL: 1018 STEEL OR 1388K29	TITLE: 14Z SUPPORT PLATE	
	UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE IN INCHES: TOLERANCES UNLESS NOTED OTHERWISE:		FINISH: ELECTROLESS NICKEL PLATED	SCALE: 1:1 SHEET SIZE: C	
	SURFACE FINISH: <input checked="" type="checkbox"/>		SHEET: 12 OF 13	PART NUMBER: 15060409	REV: 02
	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 <b>THIRD ANGLE PROJECTION</b>		


ITEM	QTY.	PART NUMBER	DESCRIPTION
1	1	118	TENSIONER BLOCK, Z-AXIS
2	1	111-C	TENSION BLOCK (DIE CAST)
3	2	628-ZP	M6 NYLOCK NUT-ZP
4	2	524-65-ZP	M6 x 65 SHCS-ZP
5	1	112-C	25 T10 BELT WEDGE (DIE CAST)



FIXED TENSION BLOCK

ADJUSTABLE TENSION BLOCK

ITEM	QTY.	PART NUMBER	DESCRIPTION
1	1	118	TENSIONER BLOCK, Z-AXIS
2	1	111-C	TENSION BLOCK (DIE CAST)
3	2	524-75-ZP	M6 x 75 SHCS-ZP
4	2	628-ZP	M6 NYLOCK NUT-ZP
5	1	112-C	25 T10 BELT WEDGE (DIE CAST)

 <b>MACRON DYNAMICS INC</b>	DRAWN BY: PHW      DATE: 11/26/2017 CHECKED BY:              DATE: DD/MM/YYYY LAST SAVED BY: awong      DATE: 7/18/2023	MATERIAL:  FINISH:	TITLE:  <b>Z AXIS TENSION BLOCKS</b>	
	UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE IN INCHES. TOLERANCES UNLESS NOTED OTHERWISE:	SURFACE FINISH <input checked="" type="checkbox"/> BREAK ALL SHARP EDGES DIMENSIONAL LIMITS APPLY AFTER FINISHING	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.	THIRD ANGLE PROJECTION	SHEET: 13 OF 13 PART NUMBER: MSA-14Z	REV: