

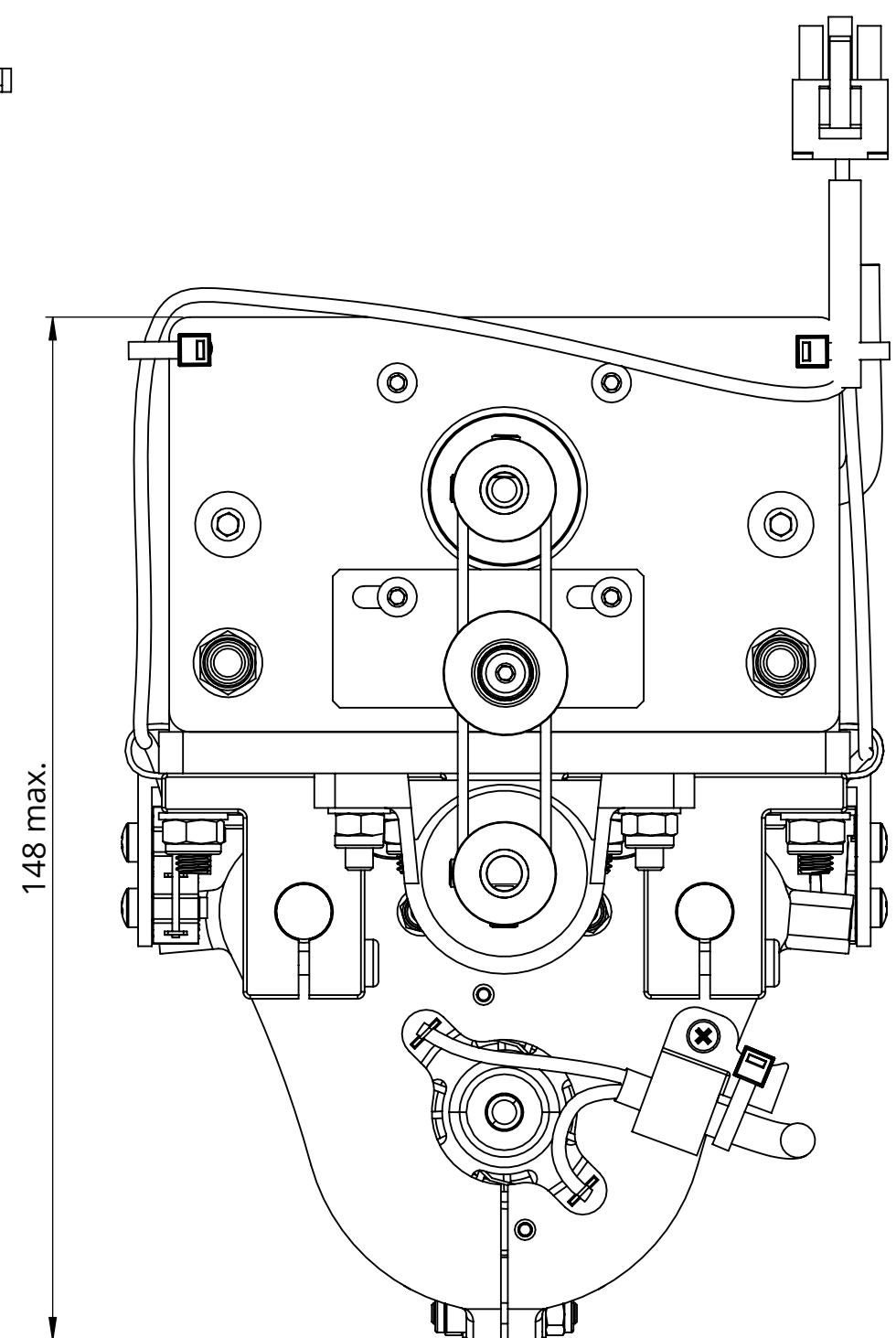
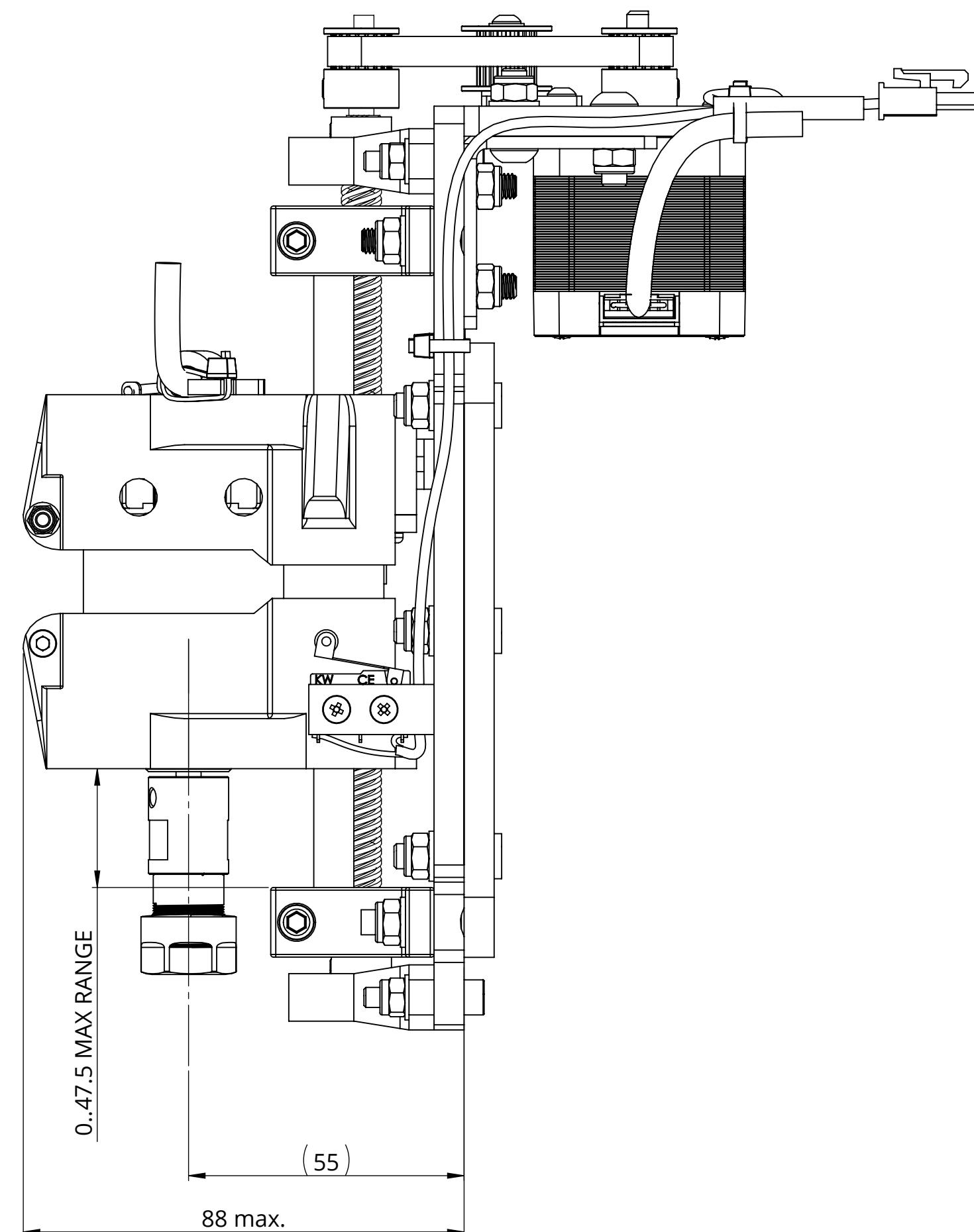
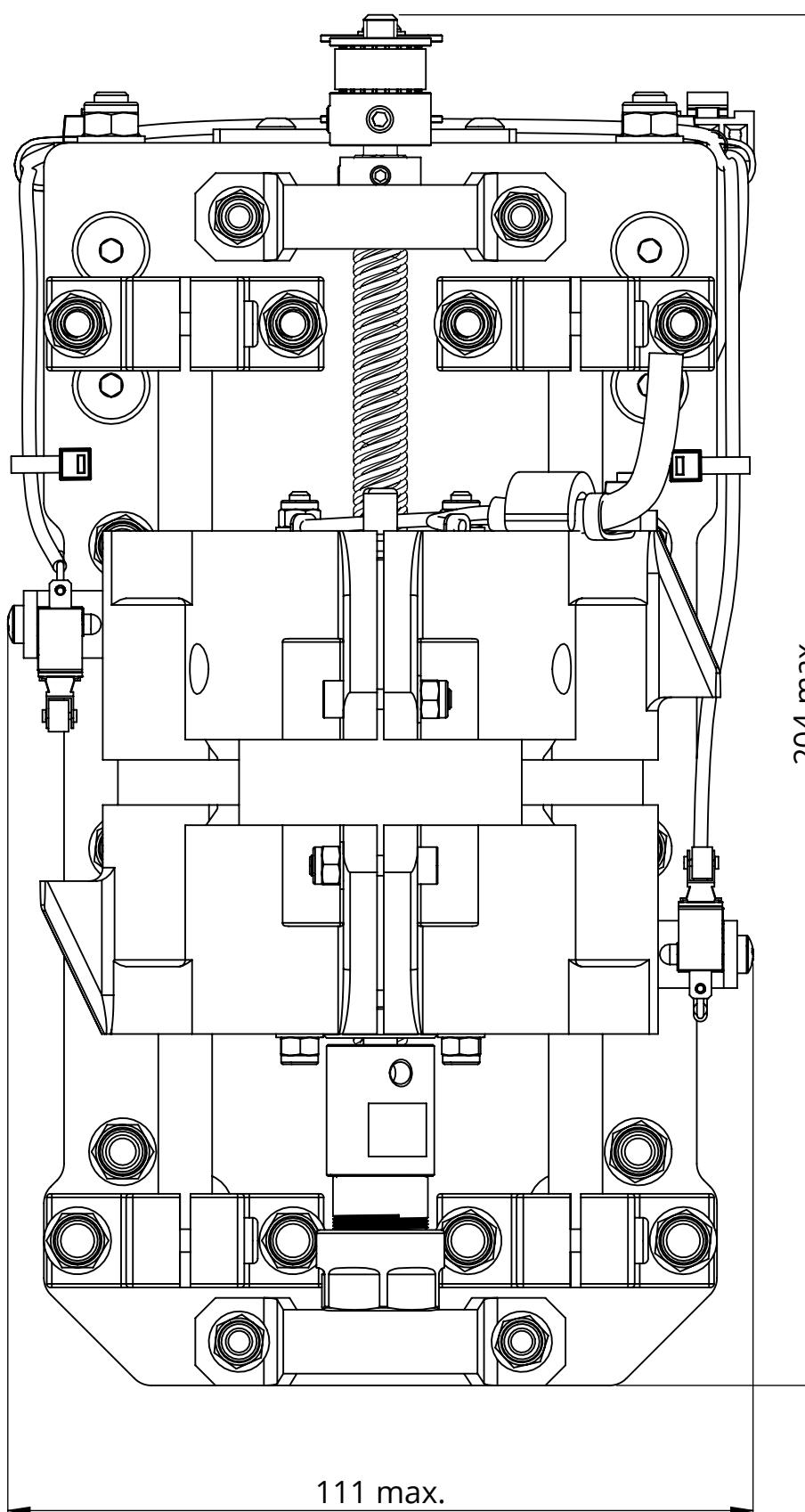
ITEM NO.	PART NUMBER	DWG. NO.	QTY.
1	Low Profile Hex Screw M5x30	None	6
2	Washer DIN 125 - A 5.3		12
3	M5 NYLOC DIN 985	None	12
4	ISO 7380 - M3 x 10 - 10N		4
5	ISO 7046-1 - M3 x 10 - Z - 10N		8
6	CarriageBase	010	1
7	Pillow Block	No	1
8	2GT 20Teeth Pulley	None	1
9	Motor assembly	020	1
10	Belt	None	1
11	Cable tie 3 mm width	None	4
12	Tensioner	030	1
13	SensorsAssembly	040	1
14	Stepper Assembly	050	1
15	Linear Motion Shaft	001	2
16	SK8 SC8UU LINEAR RAIL ORIGINAL	No	2
17	Lead Screw	002	1
18	ISO 4762 M4 x 20 - 20N		2

PROPRIETARY AND CONFIDENTIAL  
THE INFORMATION CONTAINED IN THIS  
DRAWING IS THE SOLE PROPERTY OF VR.  
ANY REPRODUCTION IN PART OR AS A  
WHOLE WITHOUT THE WRITTEN PERMISSION  
OF VR IS PROHIBITED.

UNLESS OTHERWISE SPECIFIED: BREAK ALL SHARP EDGES DIMENSIONS ARE IN MILLIMETERS TOLERANCES: FRACTIONAL $\pm$ ANGULAR: MACH $\pm$ BEND $\pm$ TWO PLACE DECIMAL $\pm$ THREE PLACE DECIMAL $\pm$	NAME	DATE
DRAWN		
CHECKED		
ENG APPR.		
MFG APPR.		
INTERPRET GEOMETRIC TOLERANCING PER:		
Q.A.		
COMMENTS:	Vladimir Tyrkin veres.pcb@gmail.com	
SIZE	DWG. NO.	REV
<b>B</b>	000	
SCALE: 1:1 WEIGHT: 1658.47 SHEET 1 OF 4		

**VR**  
TITLE:  
**CNC Milling  
Carriage**

D



VIEW A

PROPRIETARY AND CONFIDENTIAL  
THE INFORMATION CONTAINED IN THIS  
DRAWING IS THE SOLE PROPERTY OF VR.  
ANY REPRODUCTION IN PART OR AS A  
WHOLE WITHOUT THE WRITTEN  
PERMISSION OF VR IS PROHIBITED.

		UNLESS OTHERWISE SPECIFIED:		NAME	DATE
		DIMENSIONS ARE IN MILLIMETRES	DRAWN		
		TOLERANCES PER:		CHECKED	
		FRACTIONAL +		ENG APPR.	
		ANGULAR: MACH ± BEND ±		MFG APPR.	
		TWO PLACE DECIMAL ±			
		THREE PLACE DECIMAL ±			
		INTERPRET GEOMETRIC TOLERANCING PER:		Q.A.	
		MATERIAL		COMMENTS:	
		Multimaterial			
NEXT ASSY	USED ON	FINISH	None		
		APPLICATION	DO NOT SCALE DRAWING		

VR

TITLE: CNC Milling Carriage

SIZE C DWG. NO. 000 REV

Vladimir Tyrkin veres.pcb@gmail.com

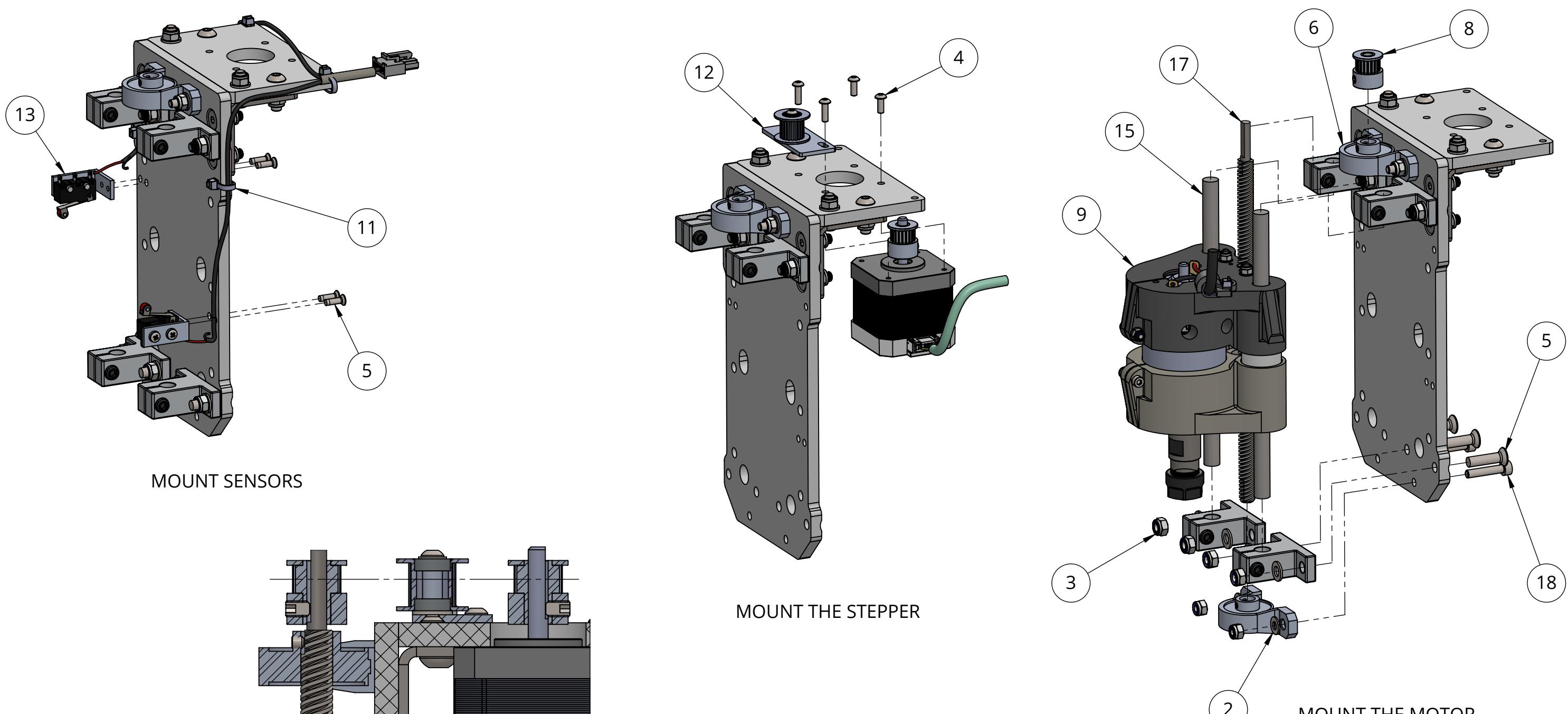
SCALE: 1:1 WEIGHT: 1658.47 SHEET 2 OF 4

4

3

2

1



### A LEAD SCREW ASSEMBLY. SCALE 1 : 1

#### NOTE:

#### ASSEMBLY PROCEDURE:

1. MOUNT SENSORS AND FIX CABLES BY THE TIES ITEM 11.
2. SCREW STEPPER AND TENSIONER TOGETHER.
3. PRE-ASSEMBLE LEAD SCREW 17 AND MOTOR ASSEMBLY 9. FIX LEAD SCREW IN PILLOW BLOCK 6 AS SHOWN. ASSEMBLY THE REST COMPONENTS.

**PROPRIETARY AND CONFIDENTIAL**  
THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF VR.  
ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION  
OF VR IS PROHIBITED.

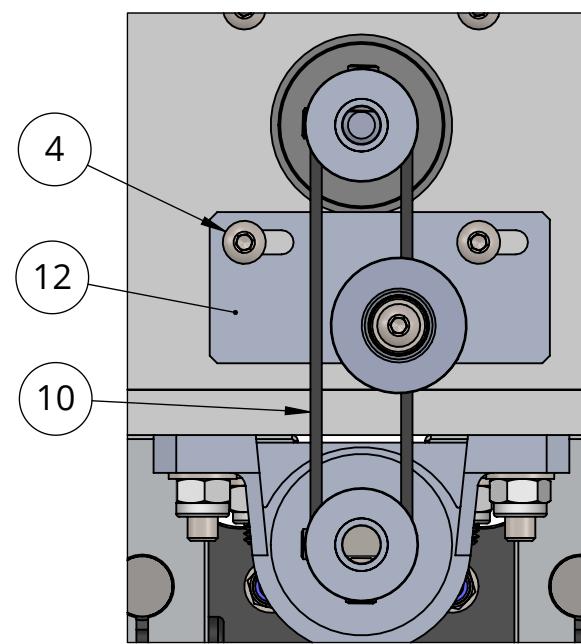
		UNLESS OTHERWISE SPECIFIED: BREAK ALL SHARP EDGES DIMENSIONS ARE IN MILLIMETERS TOLERANCES: FRACTIONAL $\pm$ ANGULAR: MACH $\pm$ BEND $\pm$ TWO PLACE DECIMAL $\pm$ THREE PLACE DECIMAL $\pm$	NAME	DATE
		DRAWN	VR	VR
		CHECKED		
		ENG APPR.		
		MFG APPR.		
		Q.A.		
		COMMENTS:		
		Vladimir Tyrkin		
		veres.pcb@gmail.com		
SIZE	DWG. NO.			REV
B	000			
SCALE: 1:2	WEIGHT: 1658.47	SHEET 3 OF 4		

4

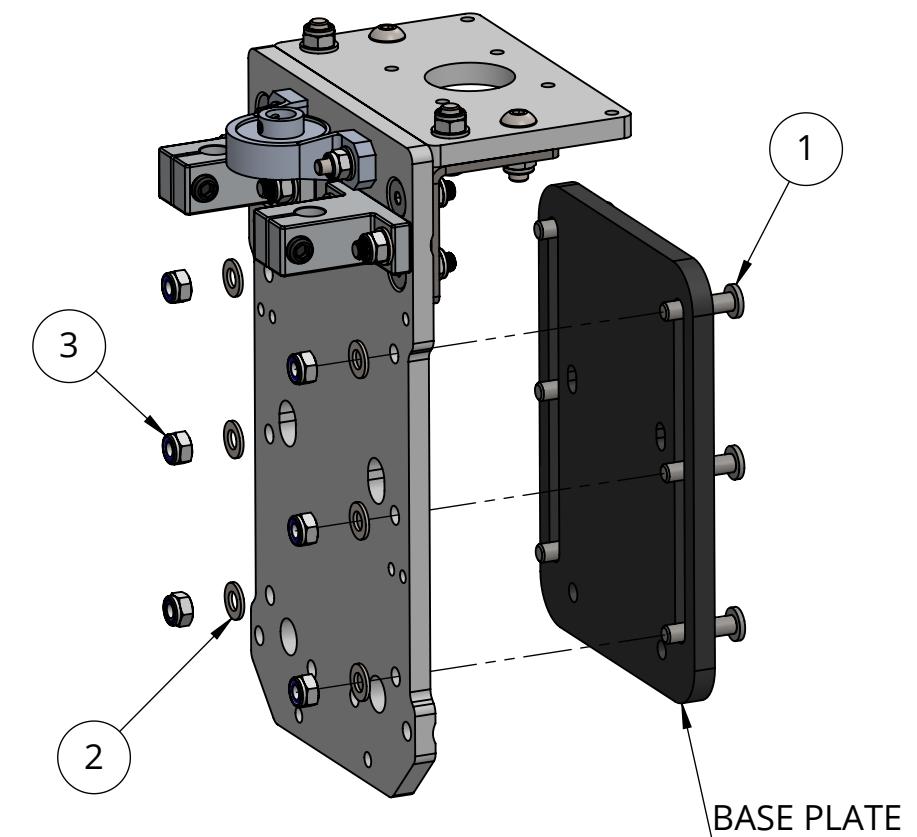
3

2

1



SETTING THE BELT. SCALE 1 : 1



MOUNT TO THE CNC

## NOTE:

1. ASSEMBLY PROCEDURE:
4. REDUSE SCREWS 4, SET THE BELT 10 AND MOVE THE TENSIONER AS SHOWN FOR STRETCH THE BELT.
5. MOUNT ALL CARRIAGE ASSEMBLY TO CNC BASE PLATE.
2. FOR MANUFACTURING LINKS REFER TO CARRIAGE\_BOM.PDF.

PROPRIETARY AND CONFIDENTIAL  
THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF VR.  
ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF VR IS PROHIBITED.

		UNLESS OTHERWISE SPECIFIED: BREAK ALL SHARP EDGES DIMENSIONS ARE IN MILLIMETERS TOLERANCES: FRACTIONAL $\pm$ ANGULAR: MACH $\pm$ BEND $\pm$ TWO PLACE DECIMAL $\pm$ THREE PLACE DECIMAL $\pm$	NAME	DATE
		DRAWN		
		CHECKED		
		ENG APPR.		
		MFG APPR.		
		Q.A.		
		COMMENTS:		
		Vladimir Tyrkin		
		veres.pcb@gmail.com		
SIZE	DWG. NO.			REV
B	000			
SCALE: 1:2	WEIGHT: 1658.47	SHEET 4	OF 4	