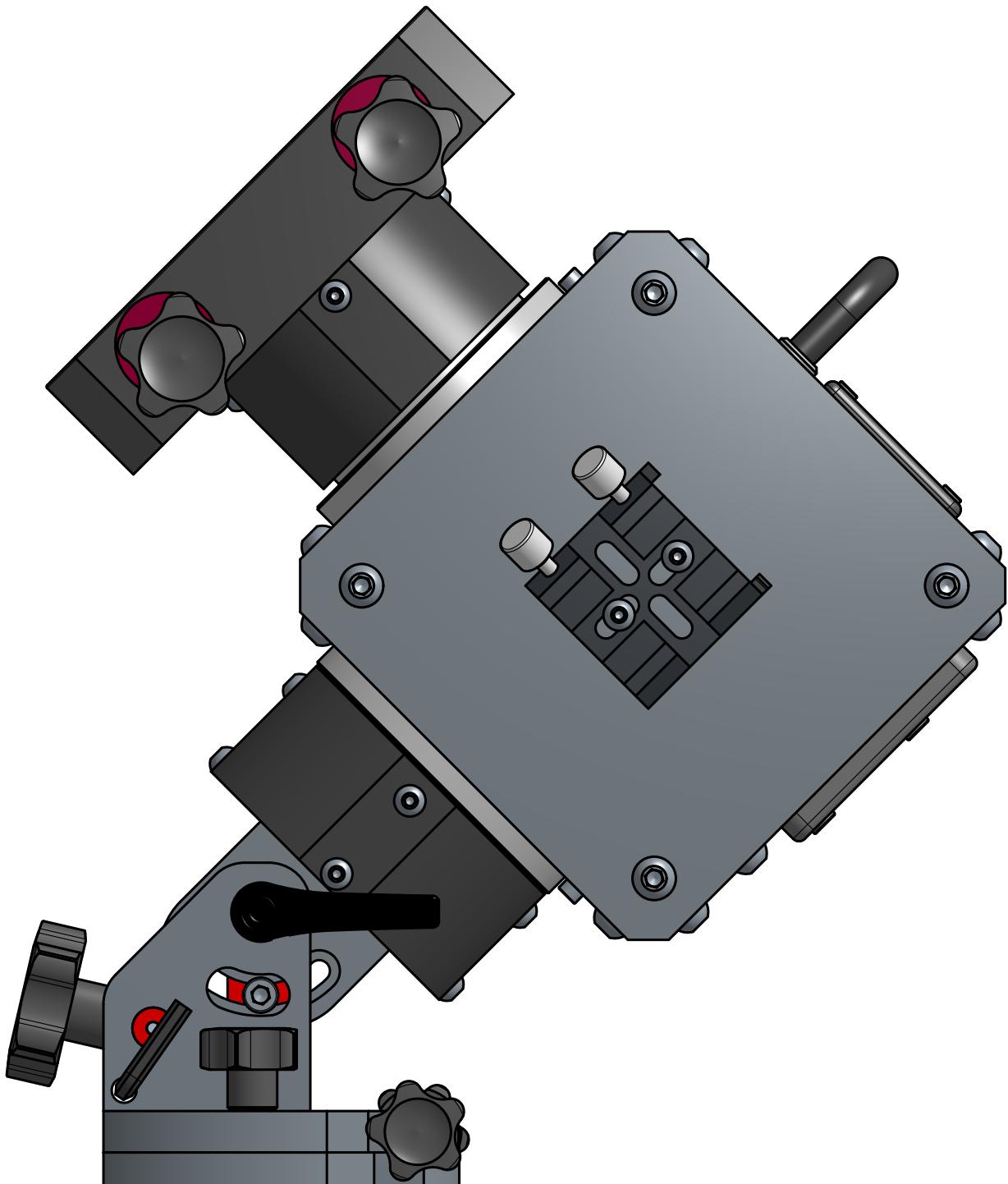


# HEMY v1.1 - Parts catalog



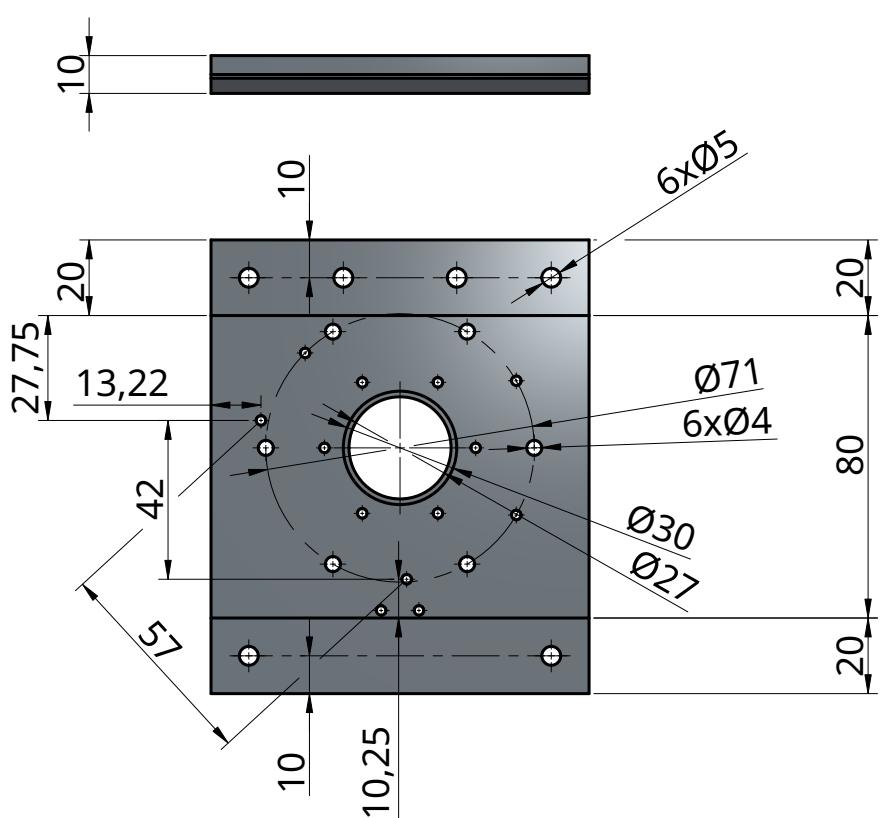
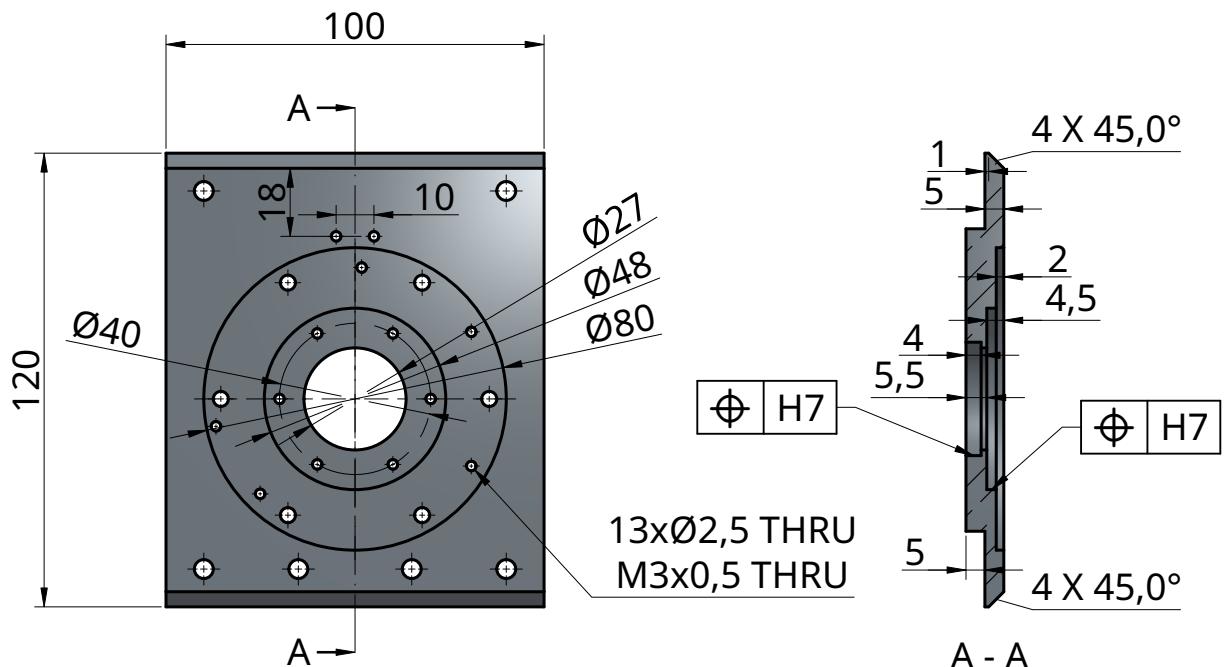
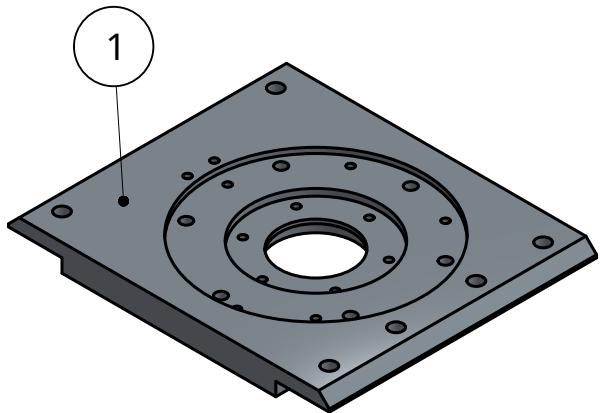
UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE IN MILLIMETERS  ANGULAR = $\pm$ °  SURFACE FINISH 		NAME	SIGNATURE	DATE	TITLE  <b>HEMY v1.1</b> <b>Parts catalog</b>	
	DRAWN	POLVINC		2024-12-04		
	CHECKED	POLVINC		2024-12-04		
	APPROVED					
DO NOT SCALE DRAWING						
BREAK ALL SHARP EDGES AND REMOVE BURRS						
FIRST ANGLE PROJECTION	MATERIAL	FINISH		SIZE <b>A4</b>	DWG NO.	REV.
				SCALE 1:1.5	WEIGHT	SHEET 1 of 20

# List of parts to be machined

Item	Quantity	Part number	Description
1	2	C01	C01 - Main plate
2	1	C02	C02 - R plate
3	1	C03	C03 - L plate
4	1	C04	C04 - B plate
5	1	C05	C05 - T plate
6	2	C06	C06 - Bearing housing
7	4	C07	C07 - Pulley spacer
8	2	C08	C08 - Motor support
9	2	C09	C09 - Spacer pivot motor
10	1	C10	C10 - Counterweight Support
11	2	C11	C11 - Harmonic/Vixen plug
12	2	C12	C12 - External shaft bearing retaining plate
13	1	C13	C13 - Base tripod
14	1	C14	C14 - Base Az
15	1	C15	C15 - Lateral R (sym L)
16	1	C16	C16 - Lateral L (sym R)
17	1	C17	C17 - Rotation Alt
18	1	C18	C18 - Base Az Hold
19	1	C19	C19 - Setting Alt
20	1	C20	C20 - Barrel 60mm
21	1	I01	3D printed Club cover
22	1	I02	3D printed ESP-01s holder
23	1	I03	3D printed ESP-01s spacer
24	1	I04	3D printed GPS and Wifi cover
25	1	I05	3D printed GPS antenna support
26	1	I06	3D printed Harmonic skirt
27	1	I07	3D printed Harmonic skirt bearing housing
28	1	I08	3D printed Harmonic skirt lock bearing

## Main Plate

<b>Quantity</b>	2 (for a single HEMY)
<b>Material</b>	Alu 6061
<b>Finish</b>	Bead blasting Anodizing
<b>Color</b>	Dark grey
<b>Threads</b>	Yes
<b>Tolerance</b>	Yes



## R Plate

**Quantity** 1 (for a single HEMY)

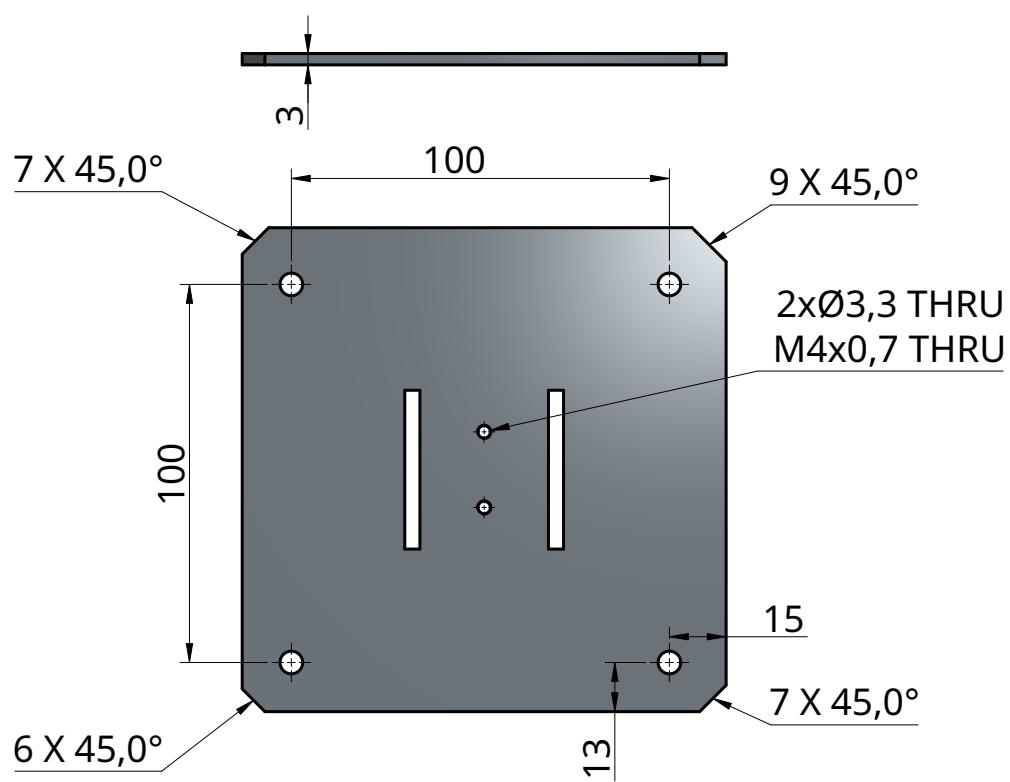
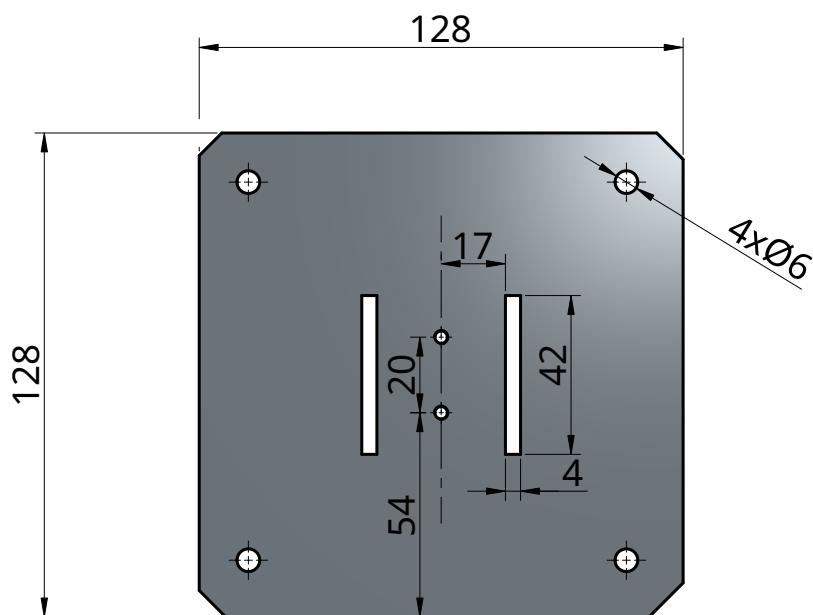
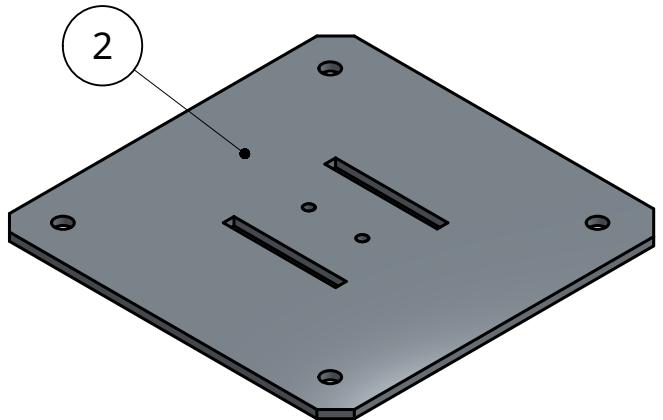
**Material** Alu 6061

**Finish** Bead blasting  
Anodizing

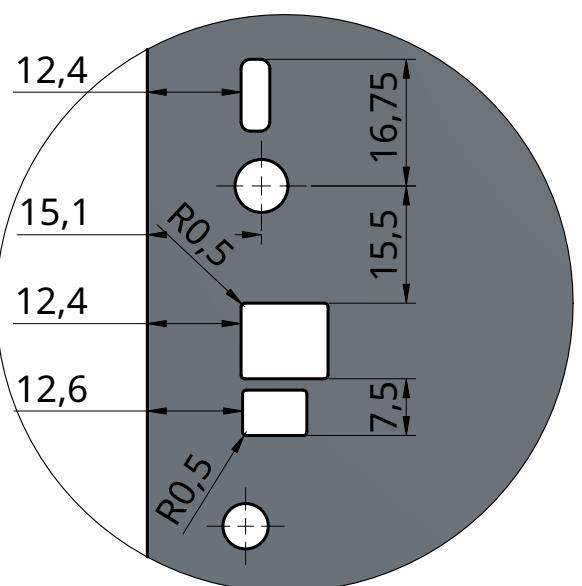
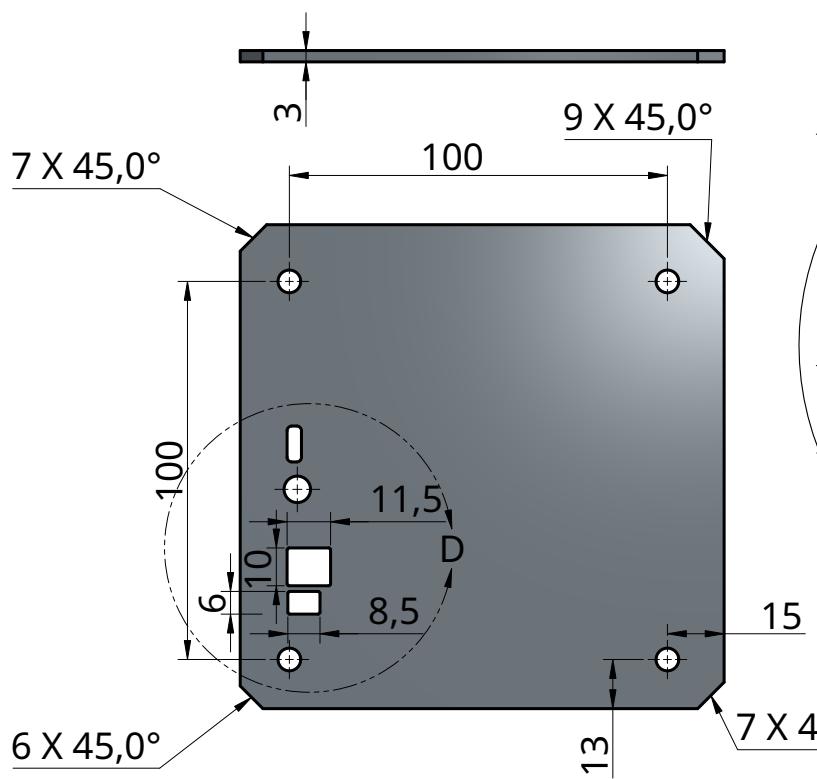
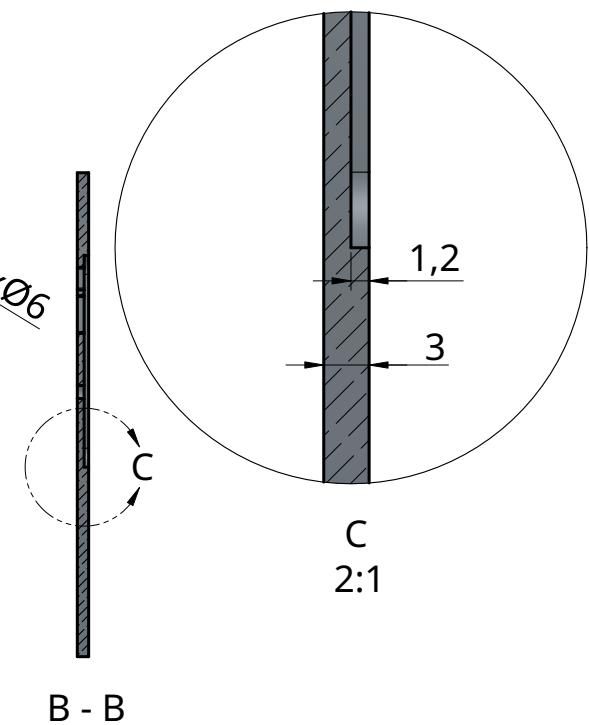
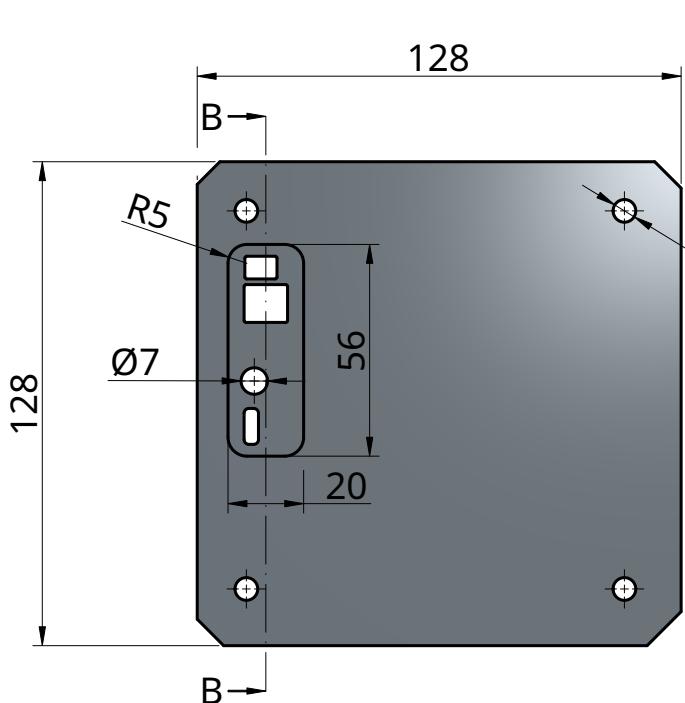
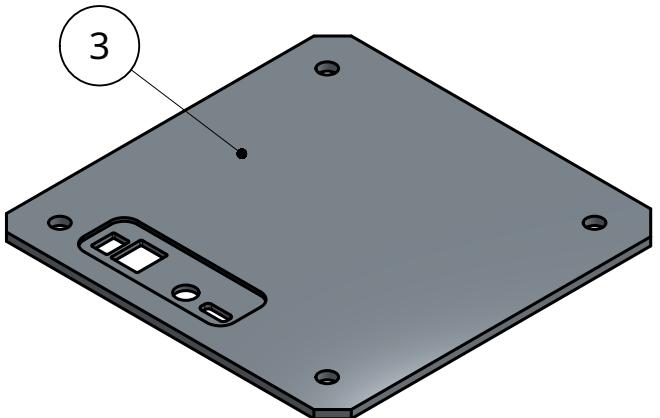
**Color** Dark grey

**Threads** Yes

**Tolerance** No



<b>L Plate</b>	
<b>Quantity</b>	1 (for a single HEMY)
<b>Material</b>	Alu 6061
<b>Finish</b>	Bead blasting Anodizing
<b>Color</b>	Dark grey
<b>Threads</b>	No
<b>Tolerance</b>	No



## B Plate

**Quantity** 1 (for a single HEMY)

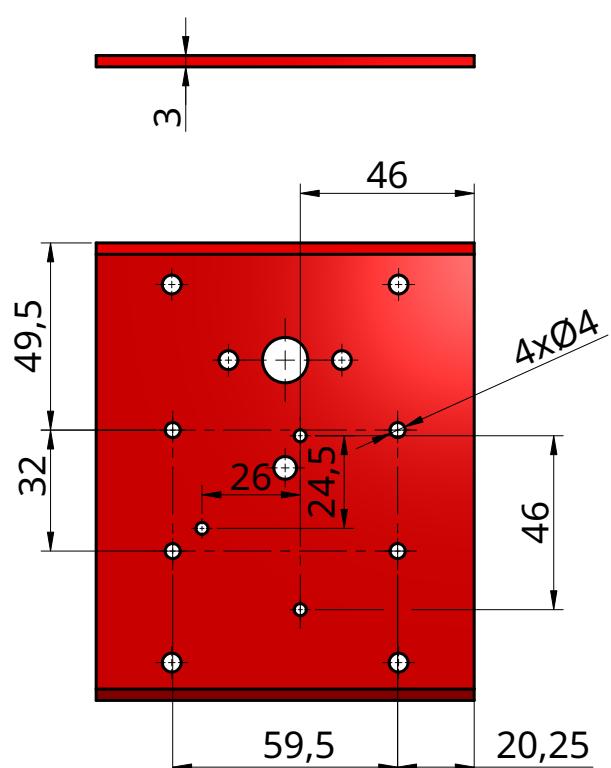
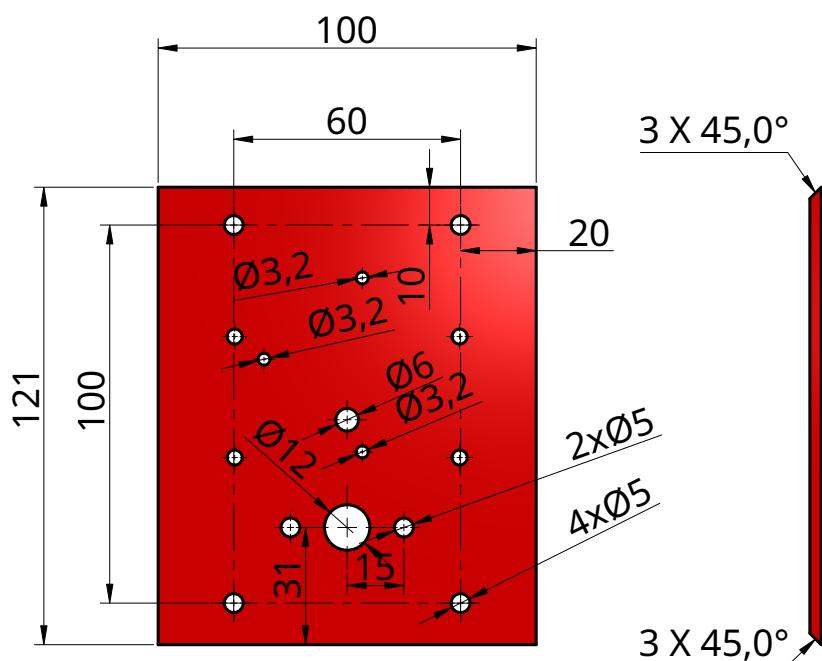
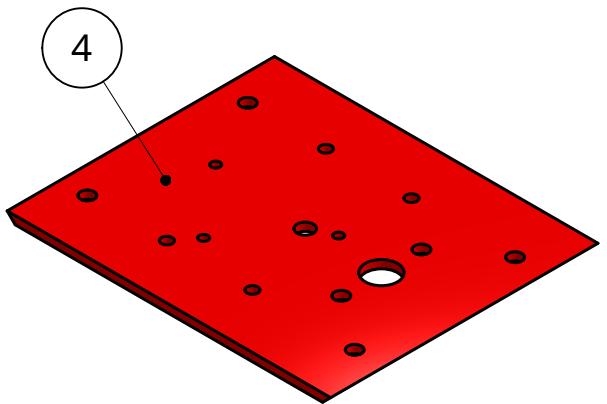
**Material** Alu 6061

**Finish** Bead blasting  
Anodizing

**Color** Red

**Threads** No

**Tolerance** No



## T Plate

**Quantity** 1 (for a single HEMY)

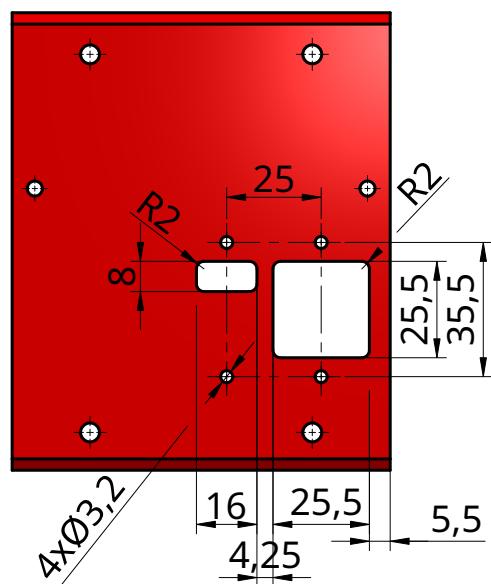
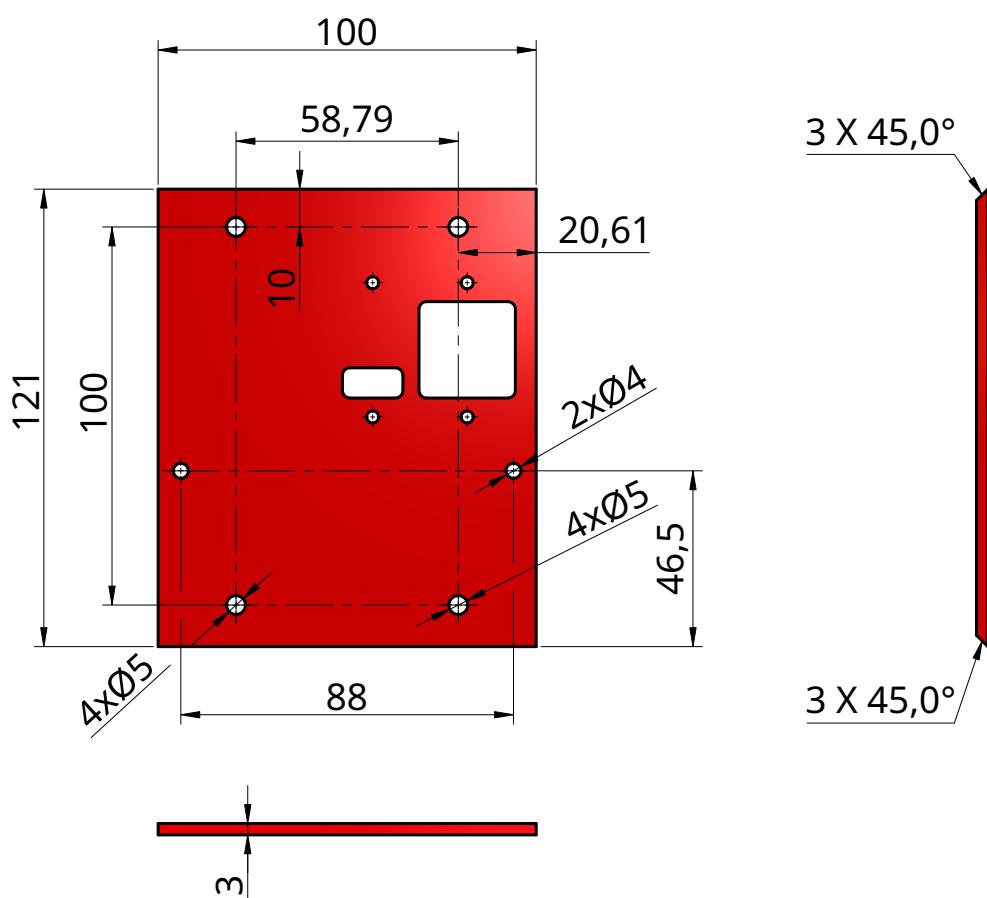
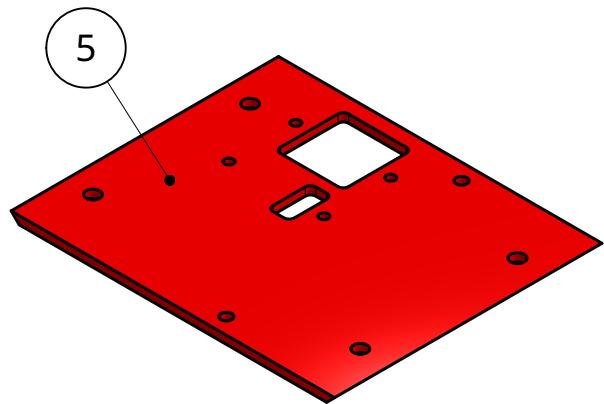
**Material** Alu 6061

**Finish** Bead blasting  
Anodizing

**Color** Red

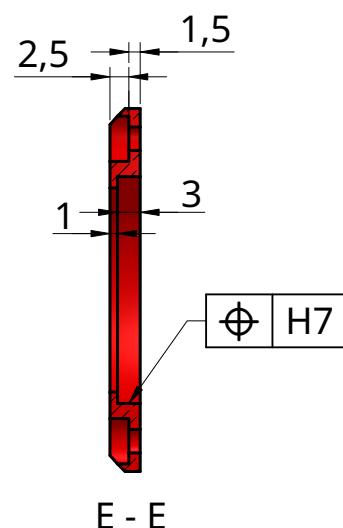
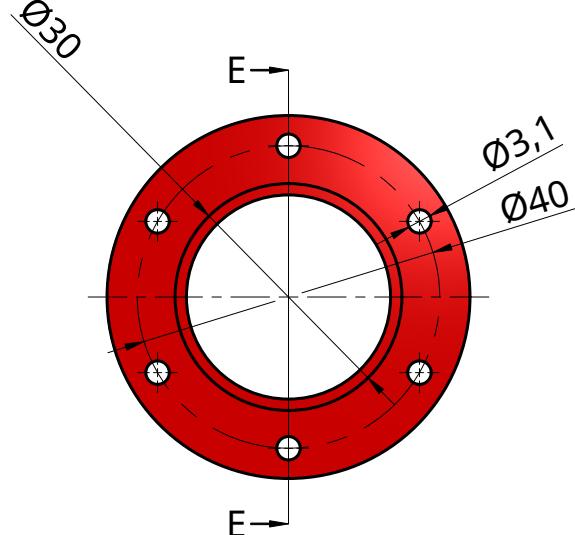
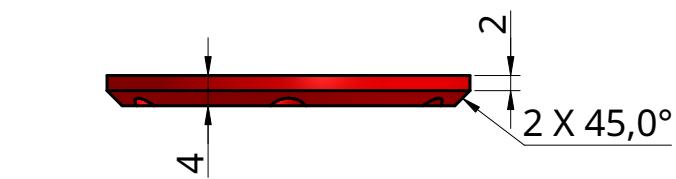
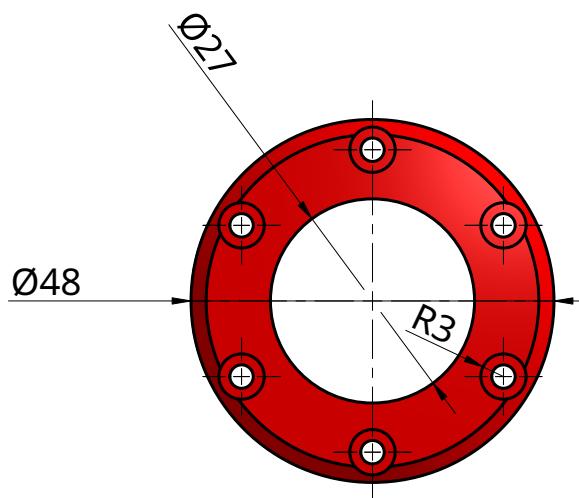
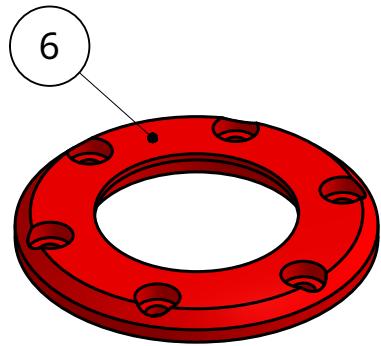
**Threads** No

**Tolerance** No



# Bearing housing

<b>Quantity</b>	2 (for a single HEMY)
<b>Material</b>	Alu 6061
<b>Finish</b>	Bead blasting Anodizing
<b>Color</b>	Red
<b>Threads</b>	No
<b>Tolerance</b>	Yes



## Pulley spacer

**Quantity** 4 (for a single HEMY)

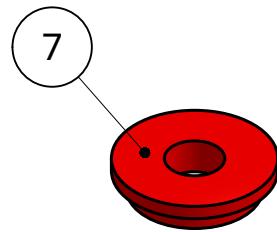
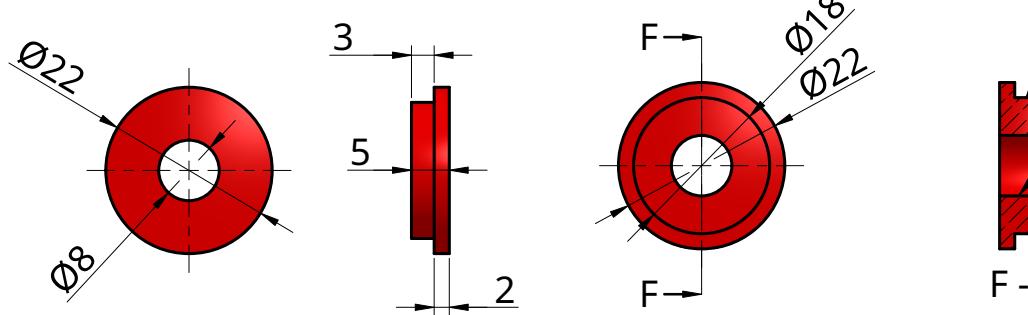
**Material** Alu 6061

**Finish** Bead blasting  
Anodizing

**Color** Red

**Threads** No

**Tolerance** Yes



## Spacer pivot motor

**Quantity** 2 (for a single HEMY)

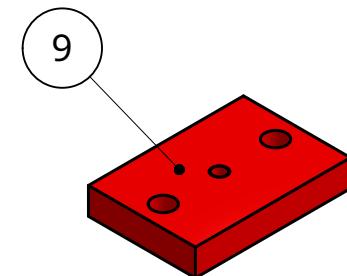
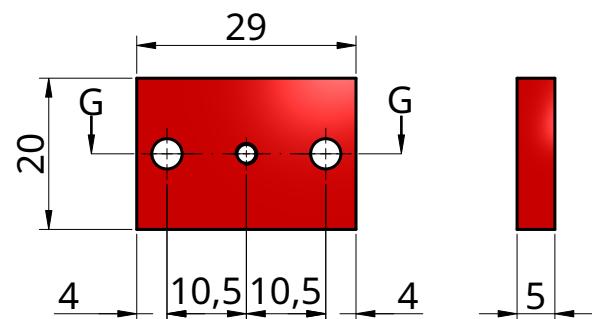
**Material** Alu 6061

**Finish** Bead blasting  
Anodizing

**Color** Red

**Threads** Yes

**Tolerance** No



Ø2,5 THRU  
M3x0,5 THRU

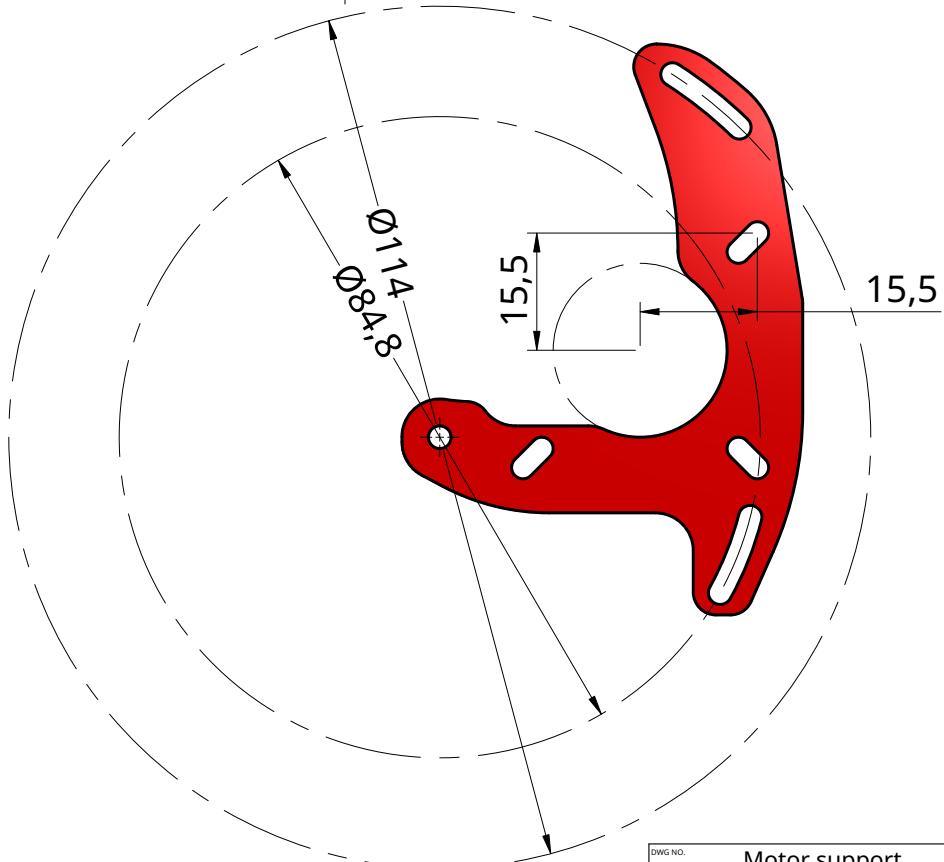
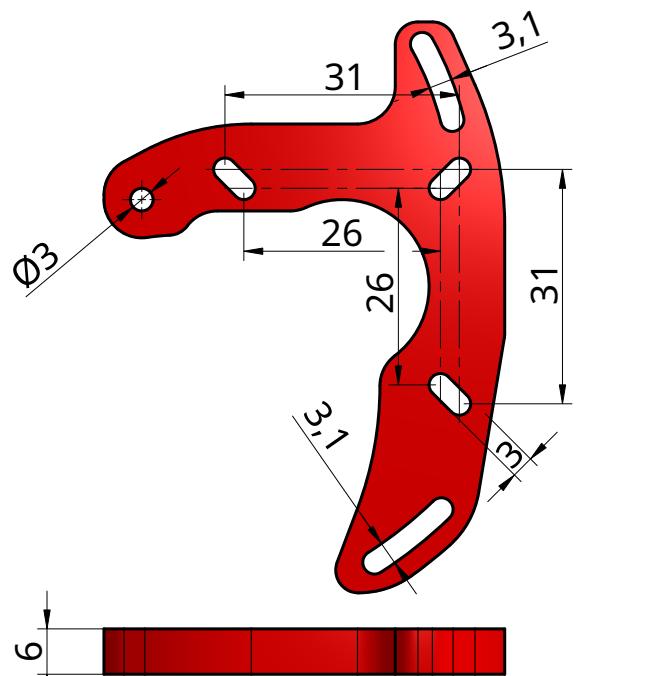
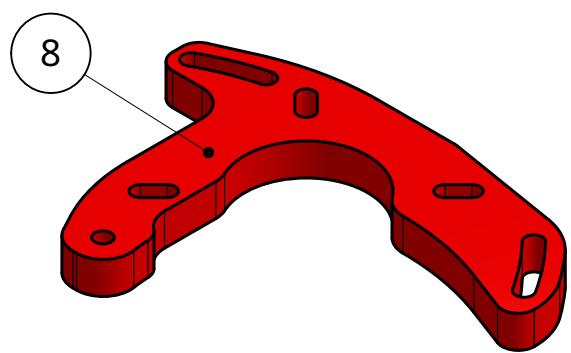


G - G

## Motor support

Use STEP file to machine

<b>Quantity</b>	2 (for a single HEMY)
<b>Material</b>	Alu 6061
<b>Finish</b>	Bead blasting Anodizing
<b>Color</b>	Red
<b>Threads</b>	No
<b>Tolerance</b>	No



## CW carrier

**Quantity** 1 (for a single HEMY)

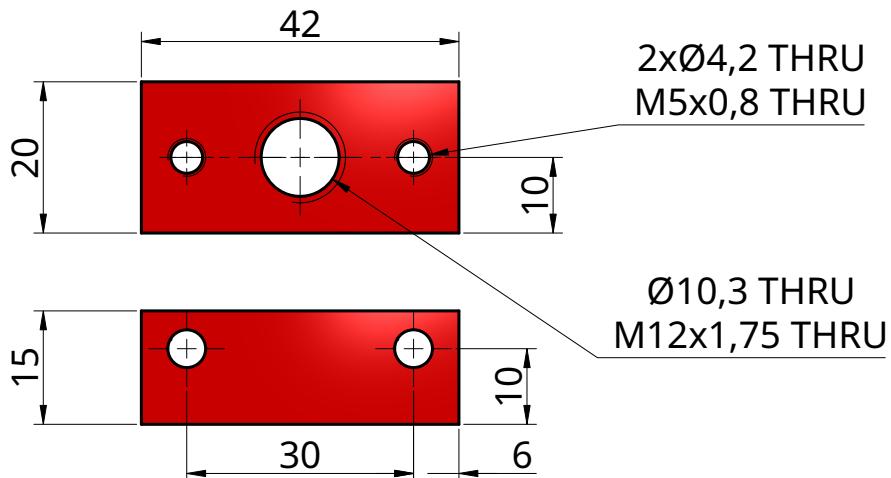
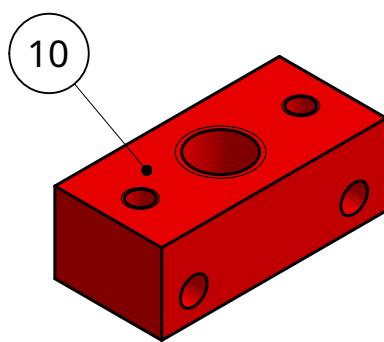
**Material** Alu 6061

**Finish** Bead blasting  
Anodizing

**Color** Red

**Threads** Yes

**Tolerance** No



## Barrell

**Quantity** 1 (for a single HEMY base)

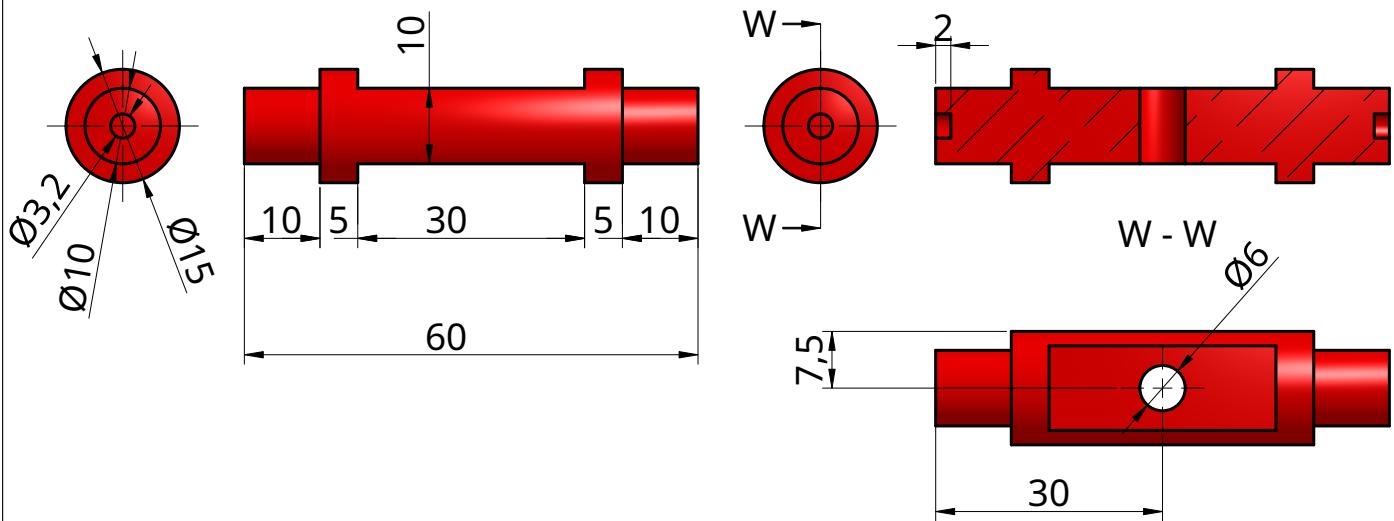
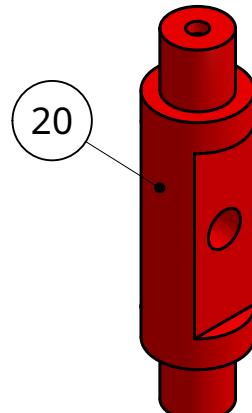
**Material** Alu 6061

**Finish** Bead blasting  
Anodizing

**Color** Red

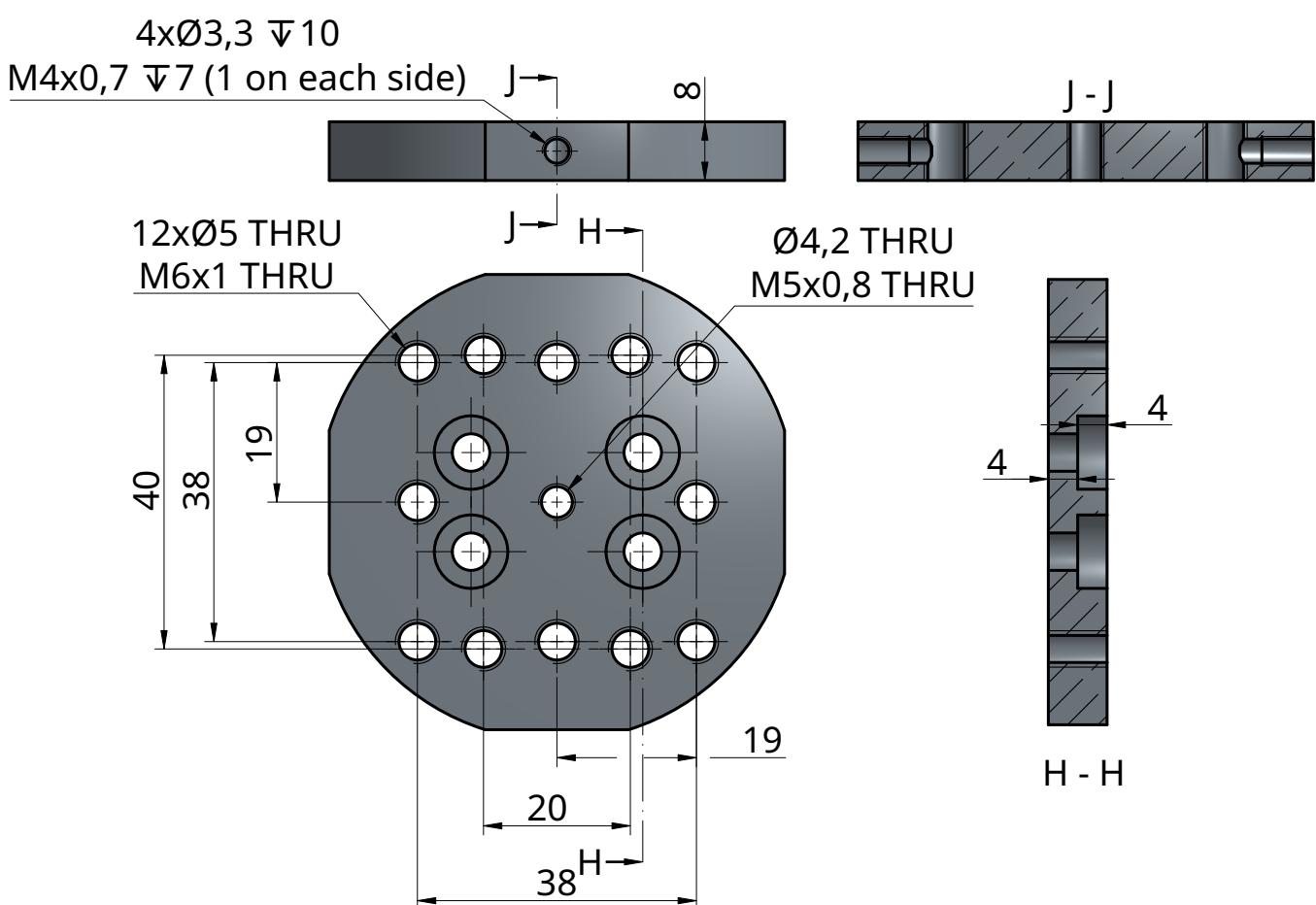
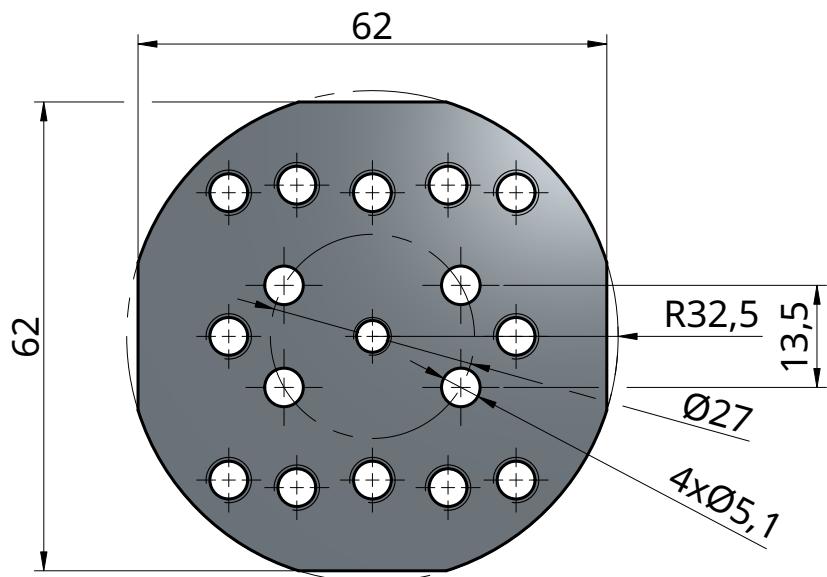
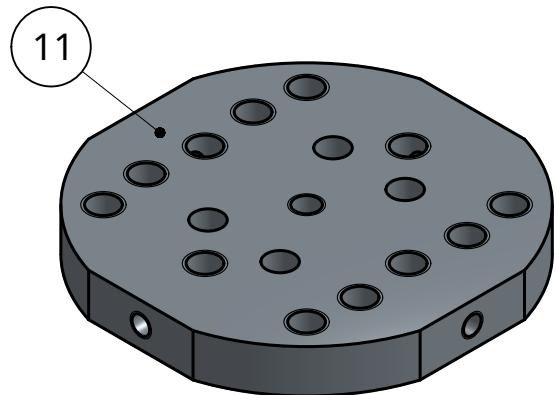
**Threads** No

**Tolerance** No



# Harmonic vixen plug

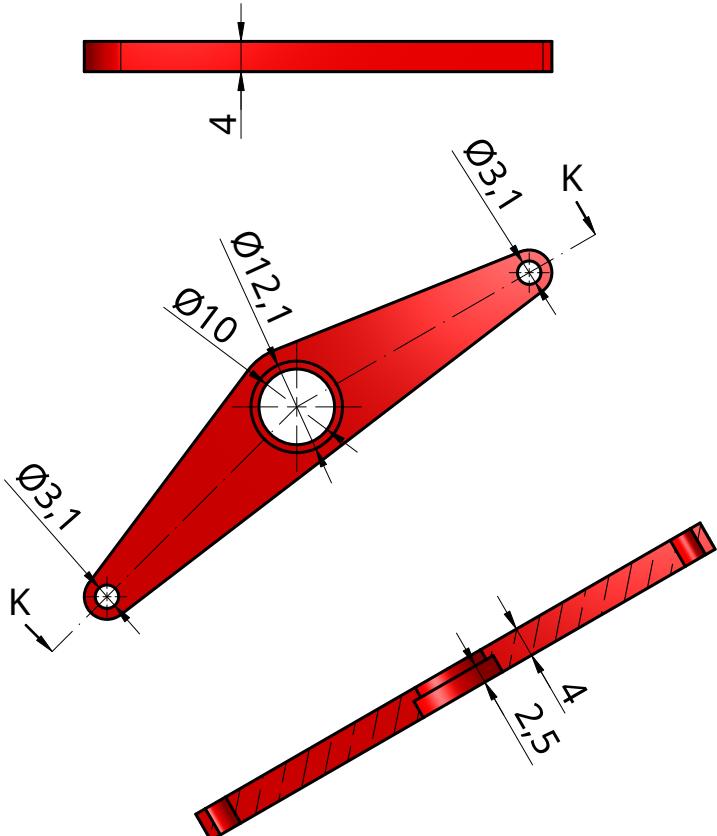
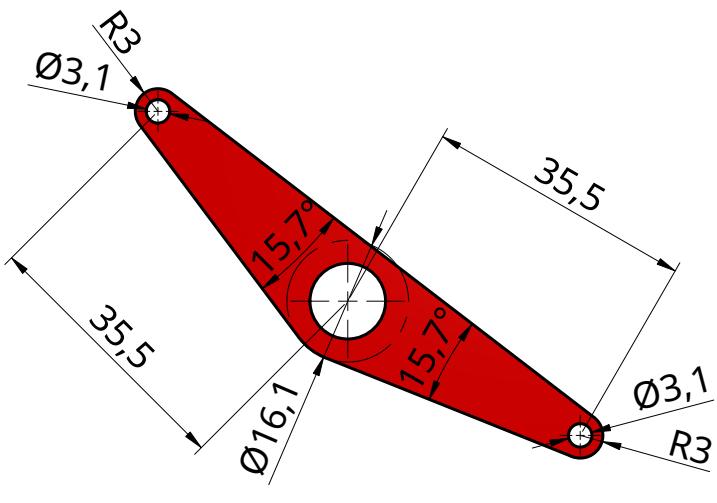
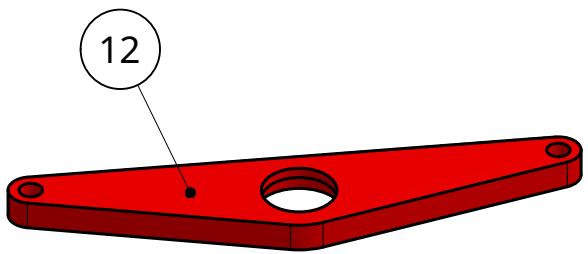
<b>Quantity</b>	1 or 2 (for a single HEMY)
<b>Material</b>	Alu 6061
<b>Finish</b>	Bead blasting Anodizing
<b>Color</b>	Dark grey
<b>Threads</b>	Yes
<b>Tolerance</b>	No



# Back axes bearing housing

Use STEP file to machine

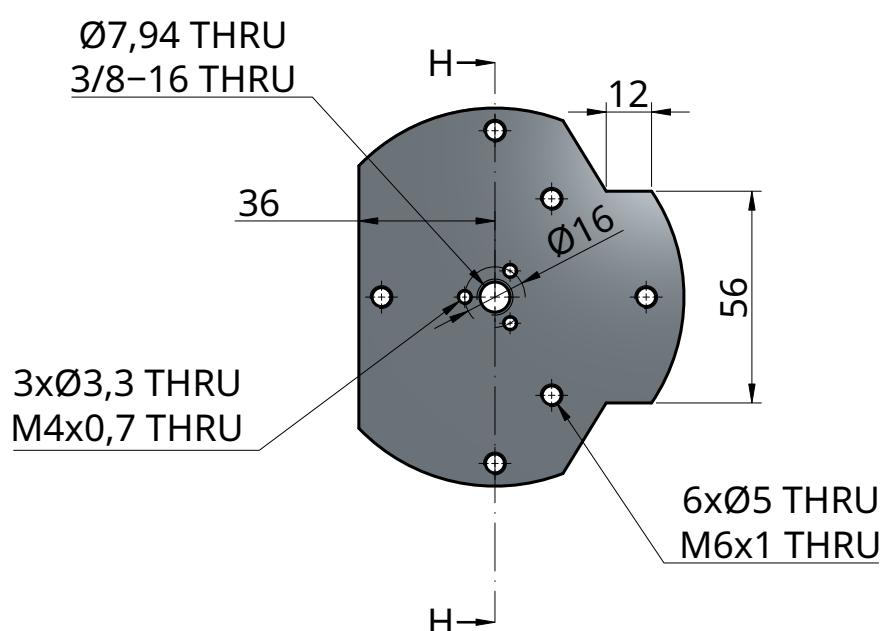
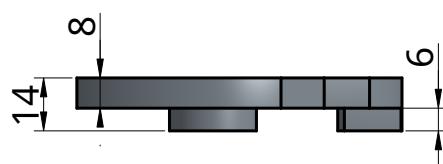
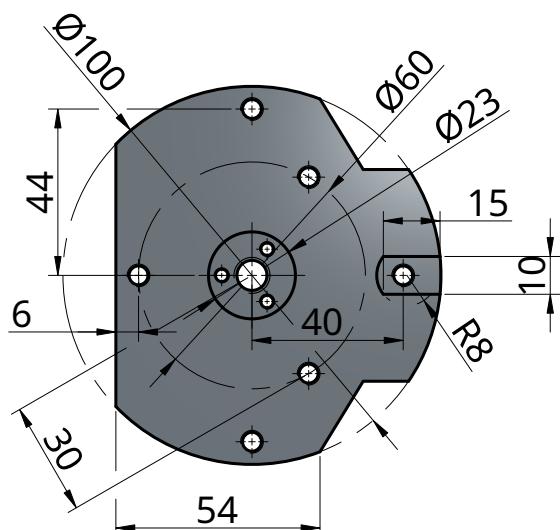
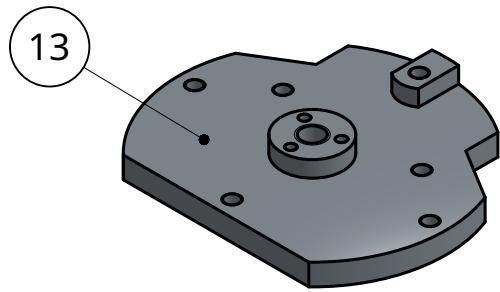
<b>Quantity</b>	2 (for a single HEMY)
<b>Material</b>	Alu 6061
<b>Finish</b>	Bead blasting Anodizing
<b>Color</b>	Red
<b>Threads</b>	No
<b>Tolerance</b>	No



K - K

## Base tripod

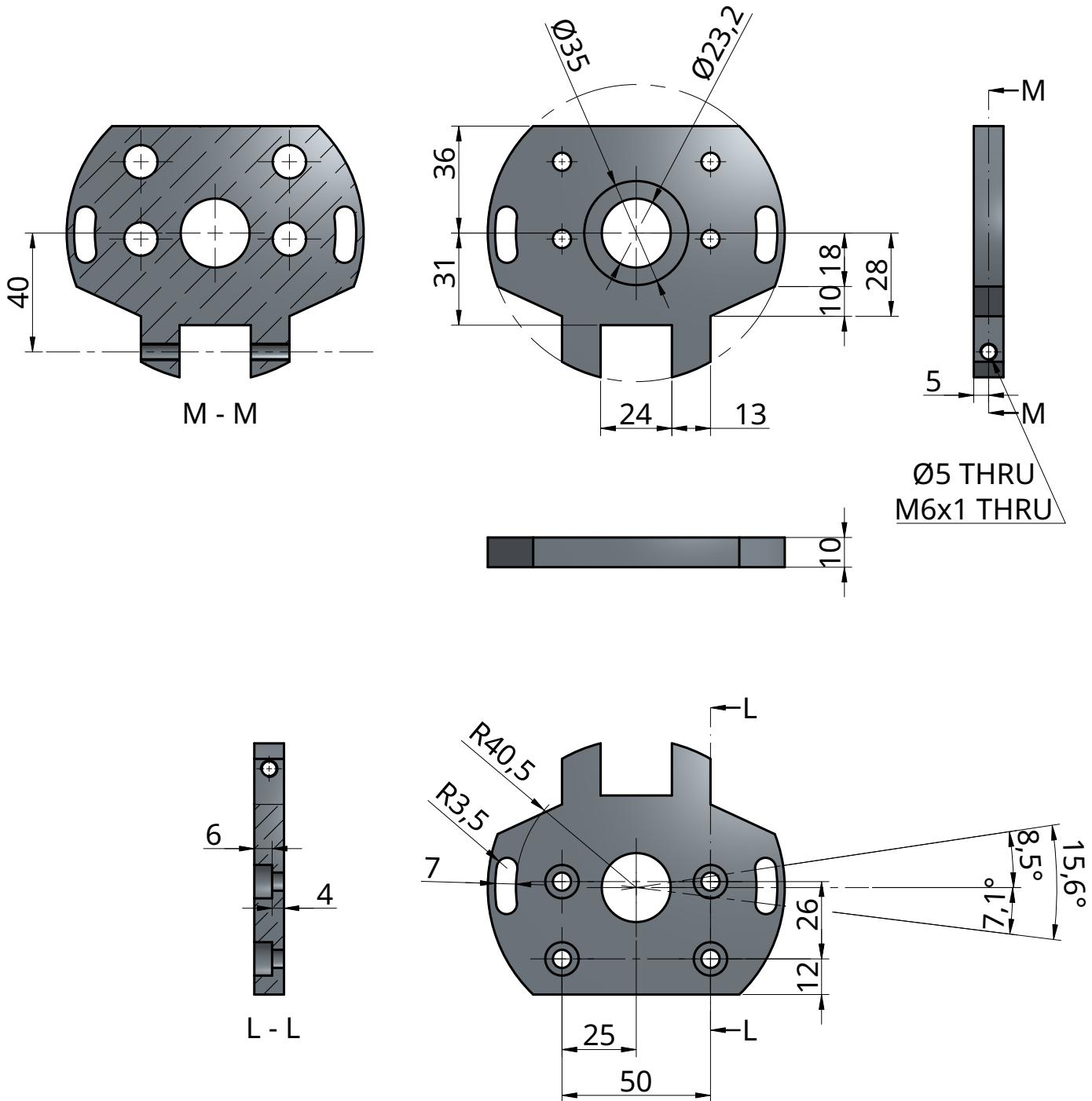
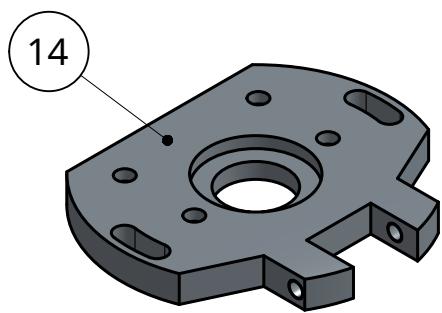
<b>Quantity</b>	1 (for a single HEMY base)
<b>Material</b>	Alu 6061
<b>Finish</b>	Bead blasting Anodizing
<b>Color</b>	Dark grey
<b>Threads</b>	Yes
<b>Tolerance</b>	No



H - H

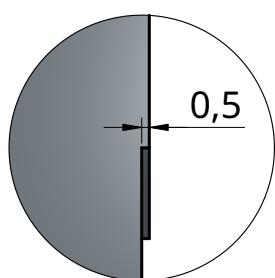
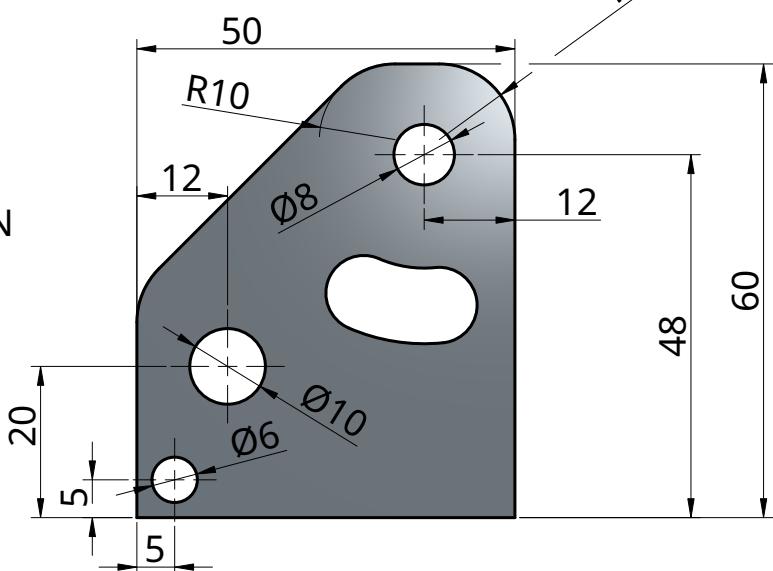
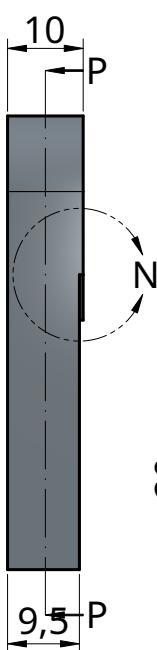
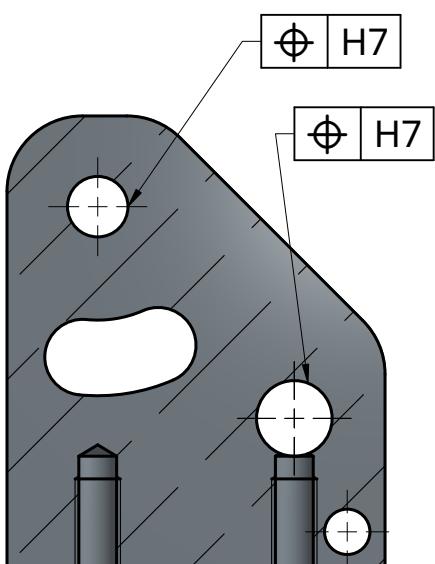
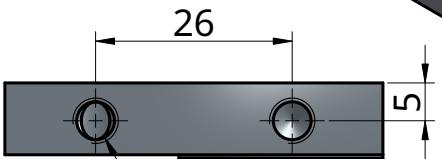
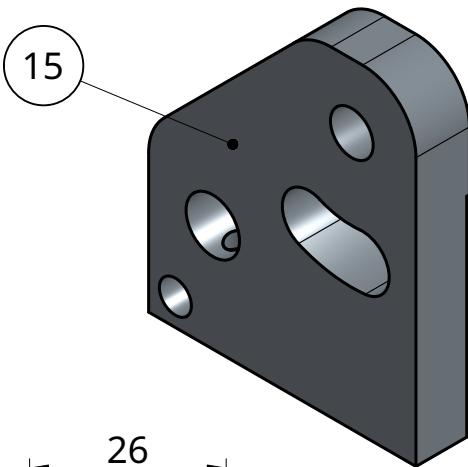
## Base Az

<b>Quantity</b>	1 (for a single HEMY base)
<b>Material</b>	Alu 6061
<b>Finish</b>	Bead blasting Anodizing
<b>Color</b>	Dark grey
<b>Threads</b>	Yes
<b>Tolerance</b>	No

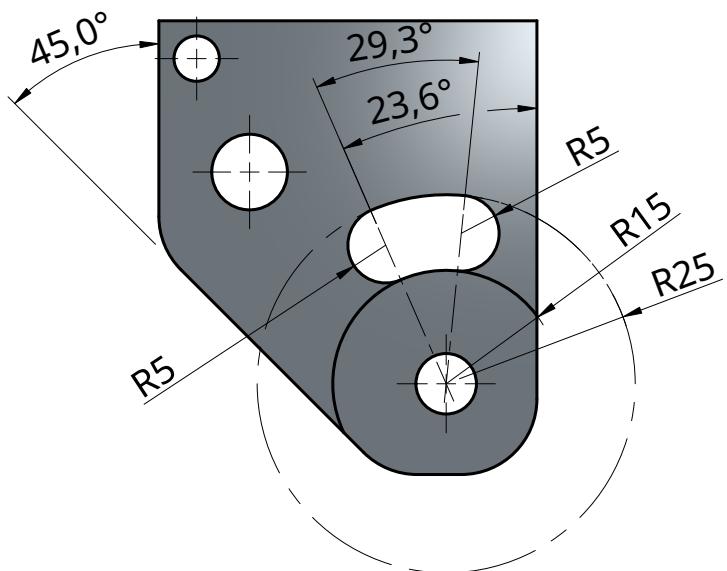


## Lateral R (sym. L)

<b>Quantity</b>	1 (for a single HEMY base)
<b>Material</b>	Alu 6061
<b>Finish</b>	Bead blasting Anodizing
<b>Color</b>	Dark grey
<b>Threads</b>	Yes
<b>Tolerance</b>	Yes

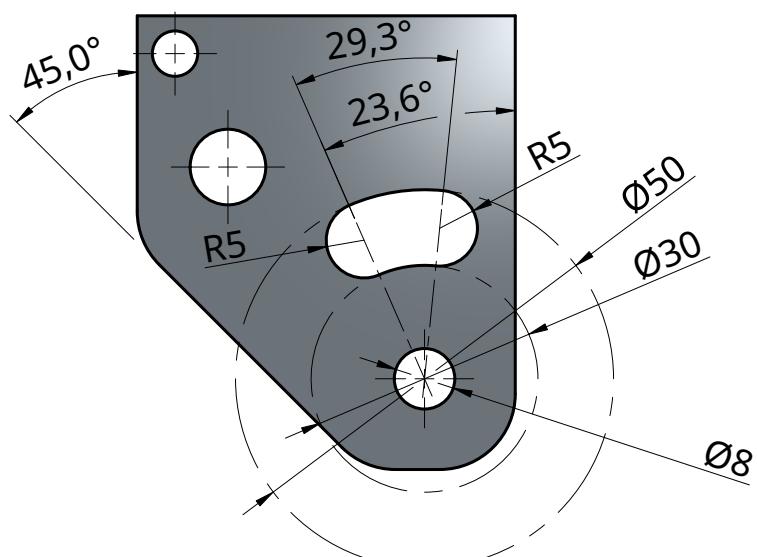
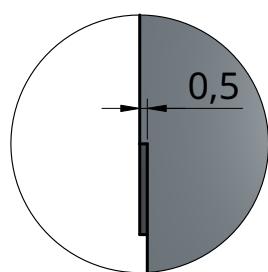
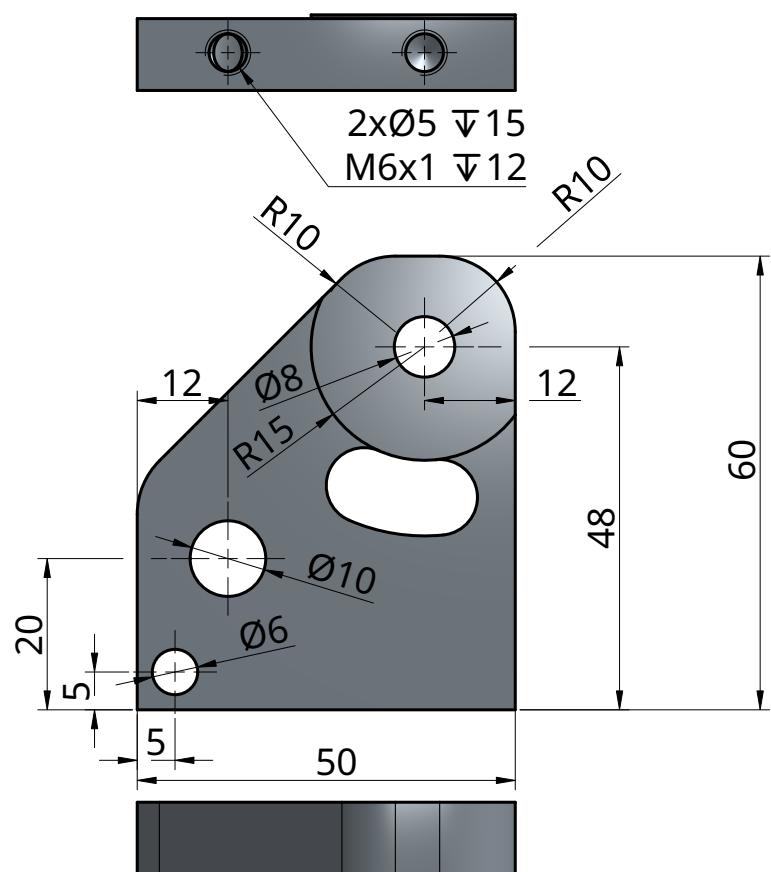
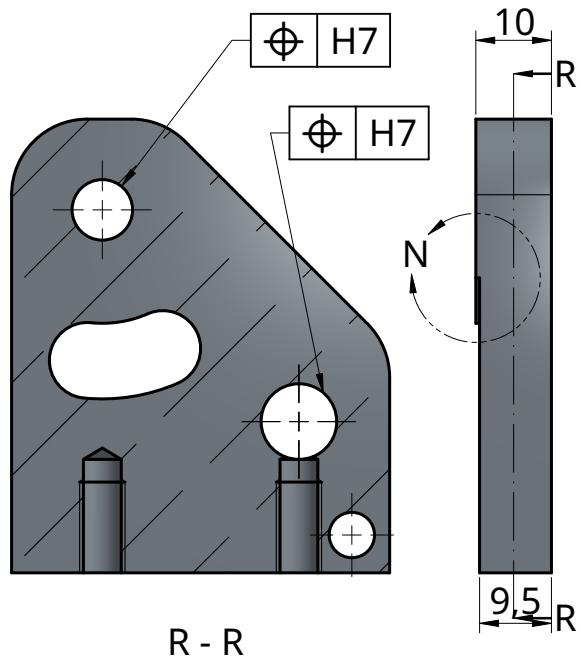
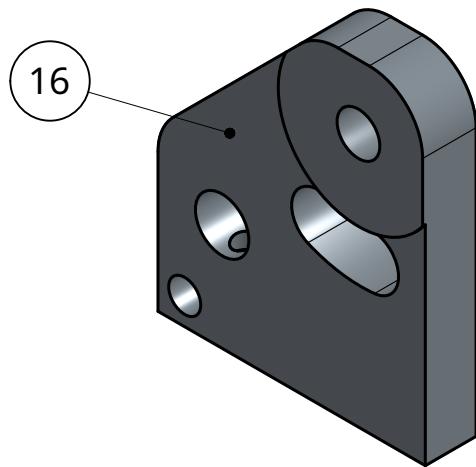


N  
2:1



## Lateral L (sym. R)

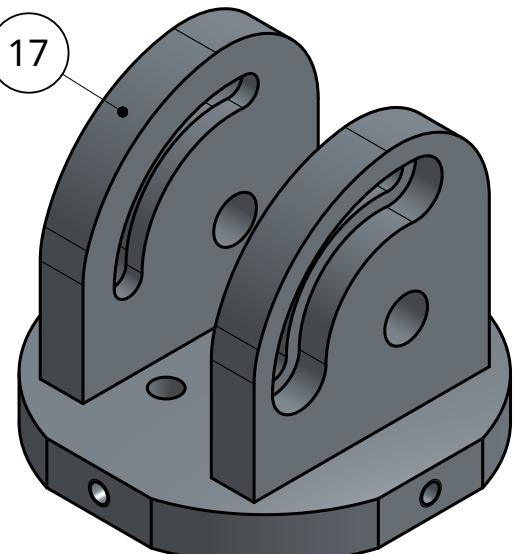
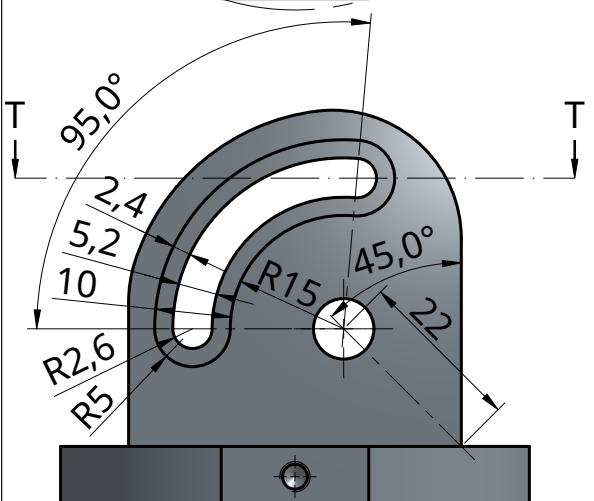
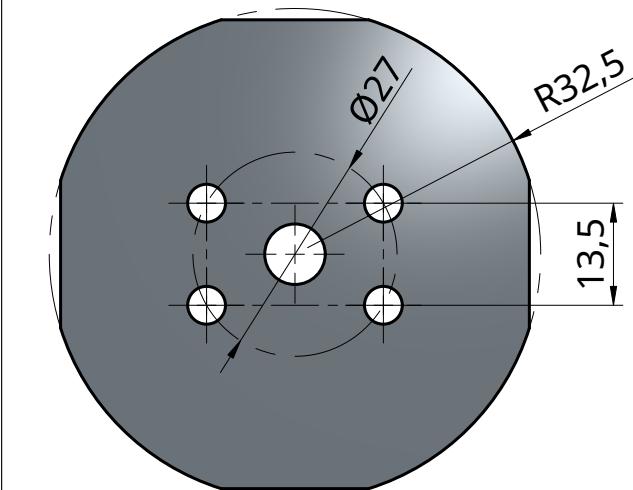
<b>Quantity</b>	1 (for a single HEMY base)
<b>Material</b>	Alu 6061
<b>Finish</b>	Bead blasting Anodizing
<b>Color</b>	Dark grey
<b>Threads</b>	Yes
<b>Tolerance</b>	Yes



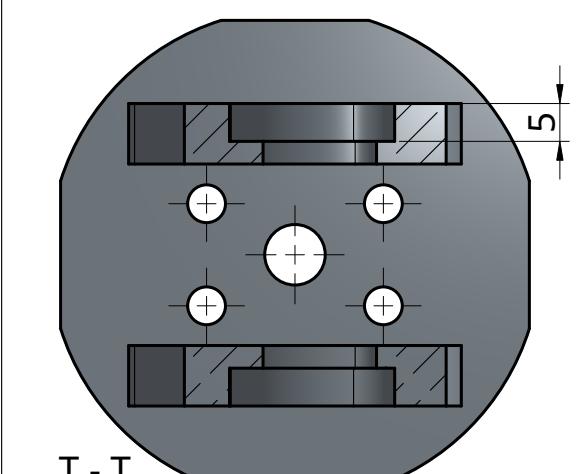
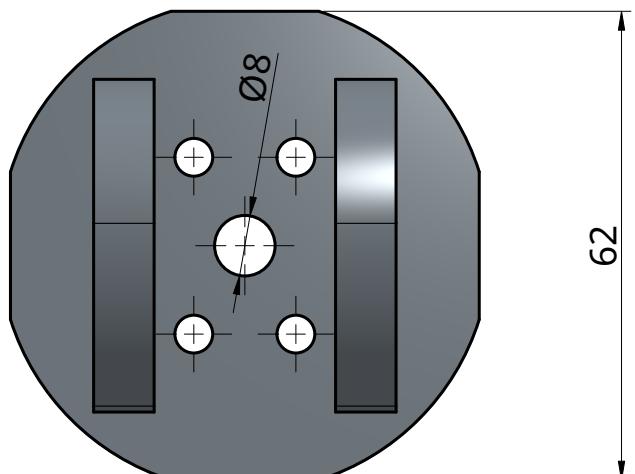
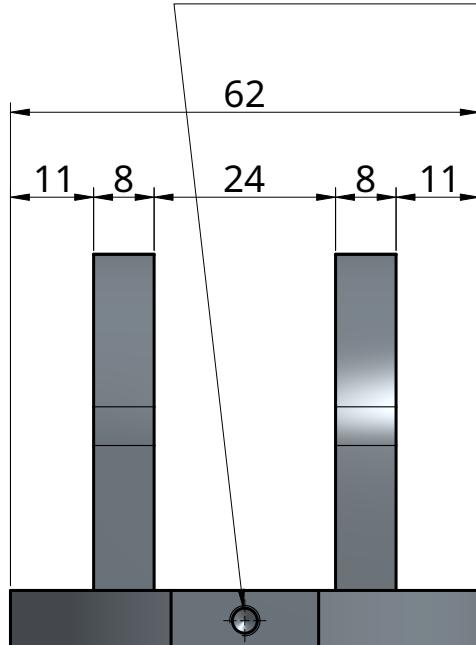
## Rotation Alt

Use STEP file to machine

<b>Quantity</b>	1 (for a single HEMY base)
<b>Material</b>	Alu 6061
<b>Finish</b>	Bead blasting Anodizing
<b>Color</b>	Dark grey
<b>Threads</b>	Yes
<b>Tolerance</b>	No

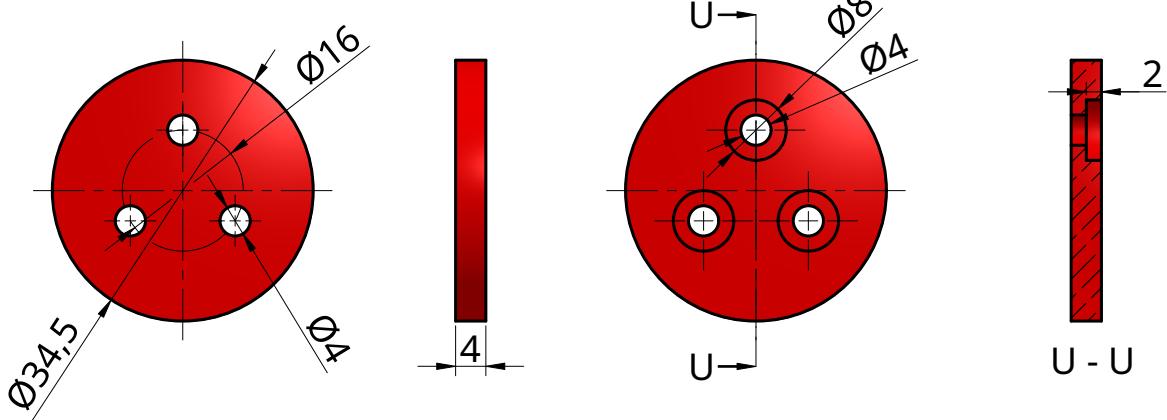


4xØ3,3 T15  
M4x0,7 T12 (1 on each side)



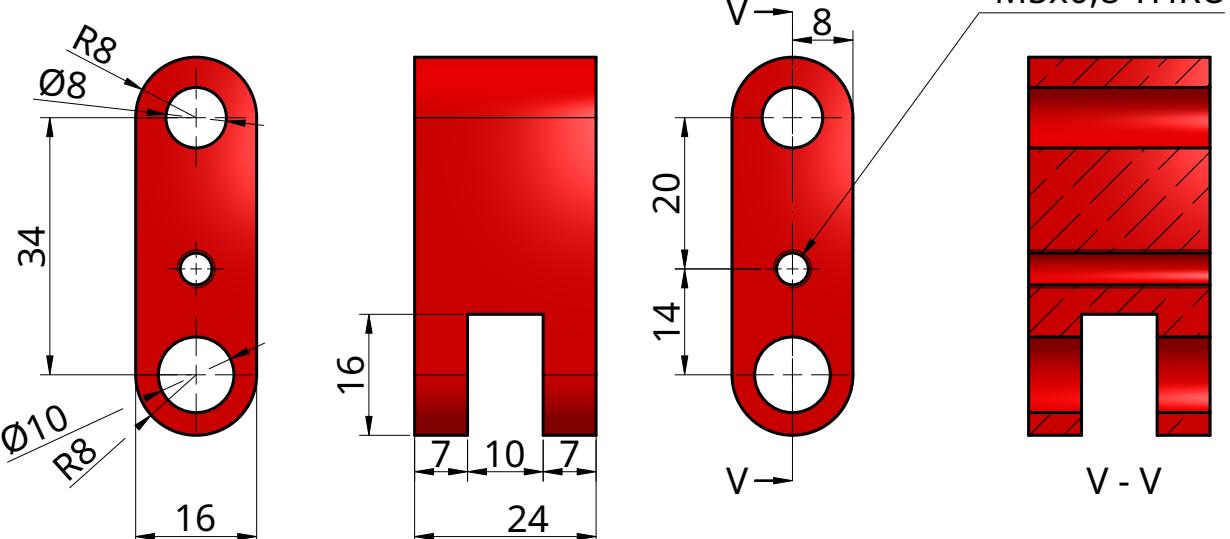
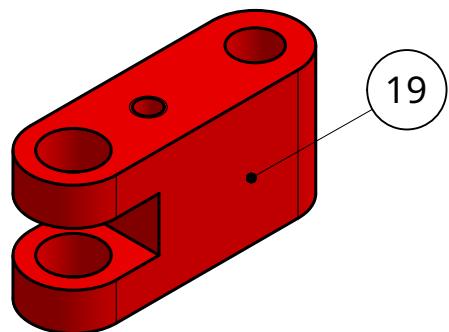
## Base Az hold

<b>Quantity</b>	1 (for a single HEMY base)
<b>Material</b>	Alu 6061
<b>Finish</b>	Bead blasting Anodizing
<b>Color</b>	Red
<b>Threads</b>	No
<b>Tolerance</b>	No



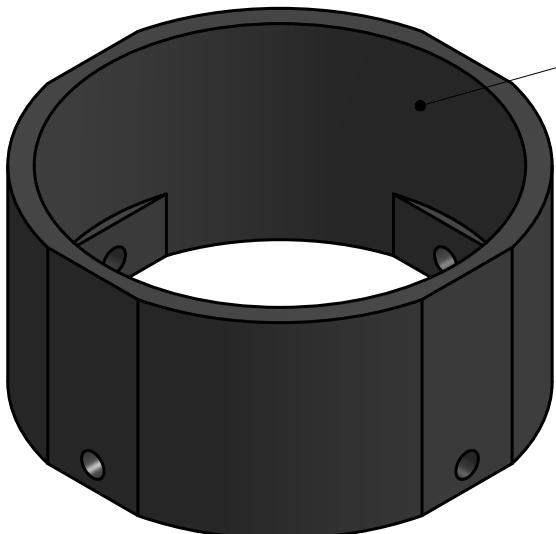
## Setting Alt

<b>Quantity</b>	1 (for a single HEMY base)
<b>Material</b>	Alu 6061
<b>Finish</b>	Bead blasting Anodizing
<b>Color</b>	Red
<b>Threads</b>	Yes
<b>Tolerance</b>	No

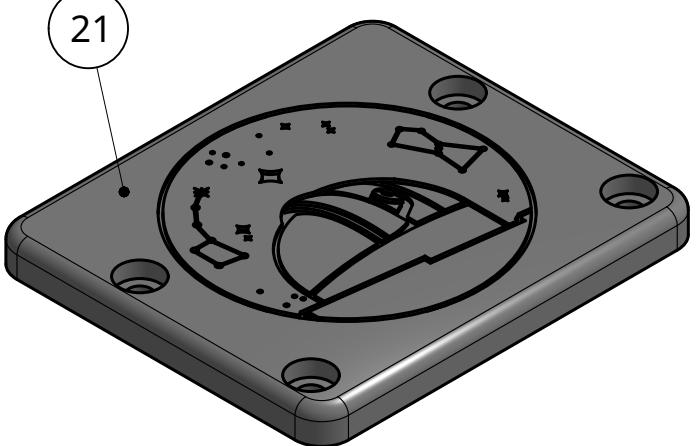


# 3D printed parts

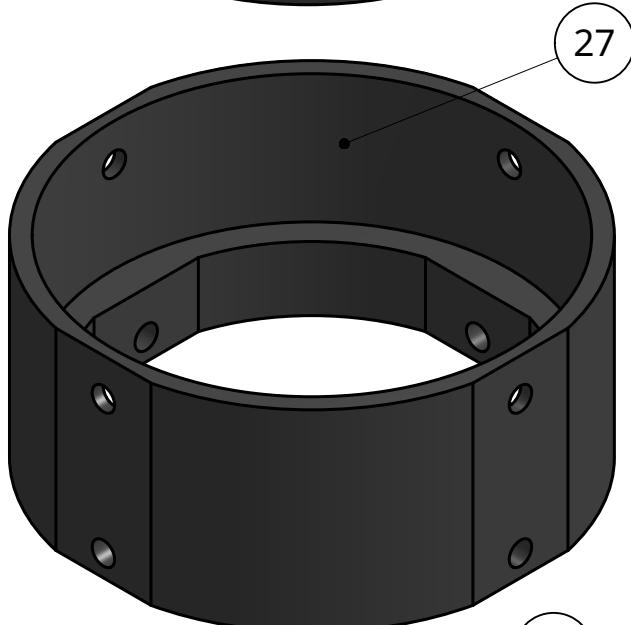
<b>3D Technology</b>	SLS(Nylon)
<b>Material</b>	3201PA-F Nylon
<b>Finish</b>	None
<b>Color</b>	Black
<b>Quantity</b>	One of each



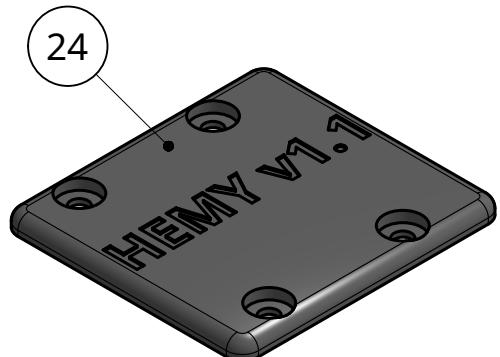
26



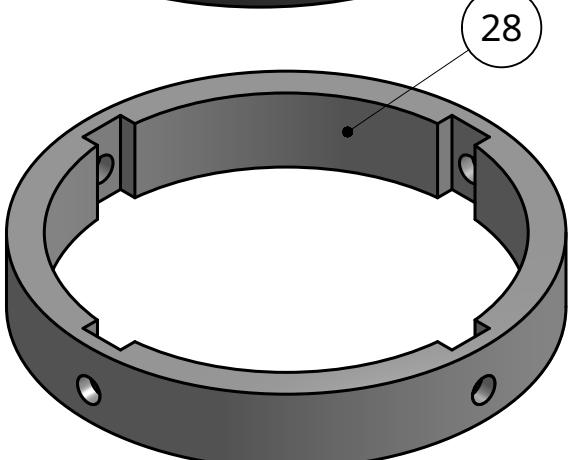
21



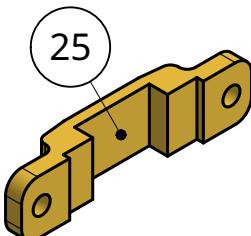
27



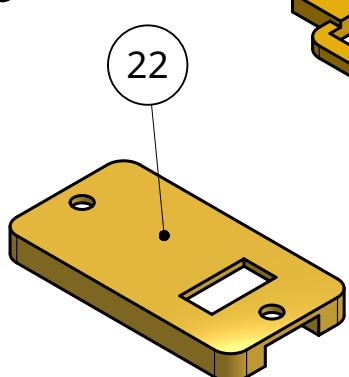
24



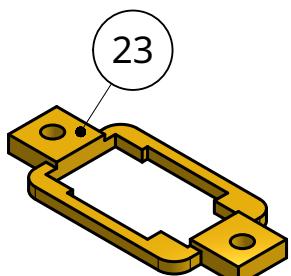
28



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