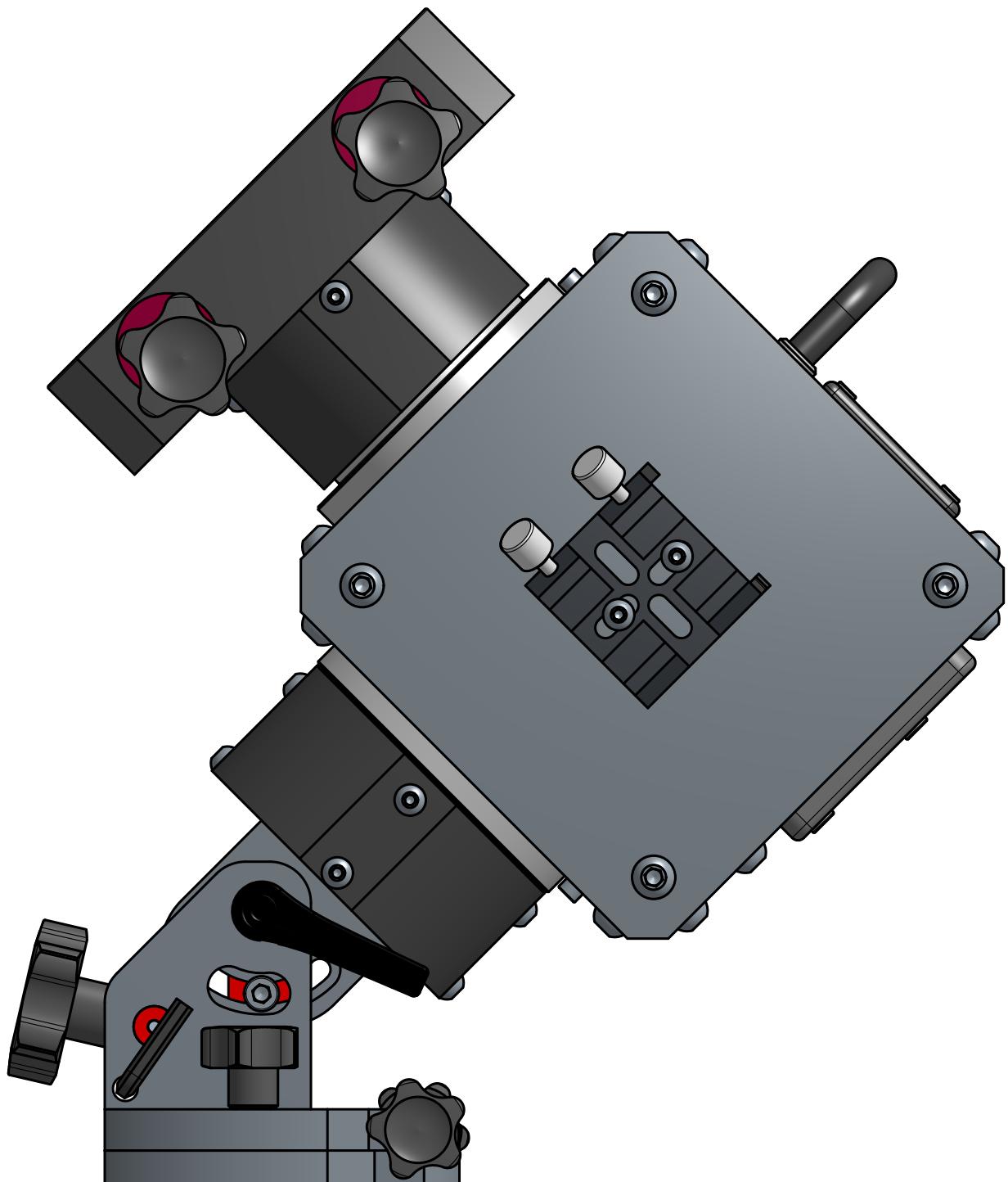


HEMY v1.1 - Parts catalog



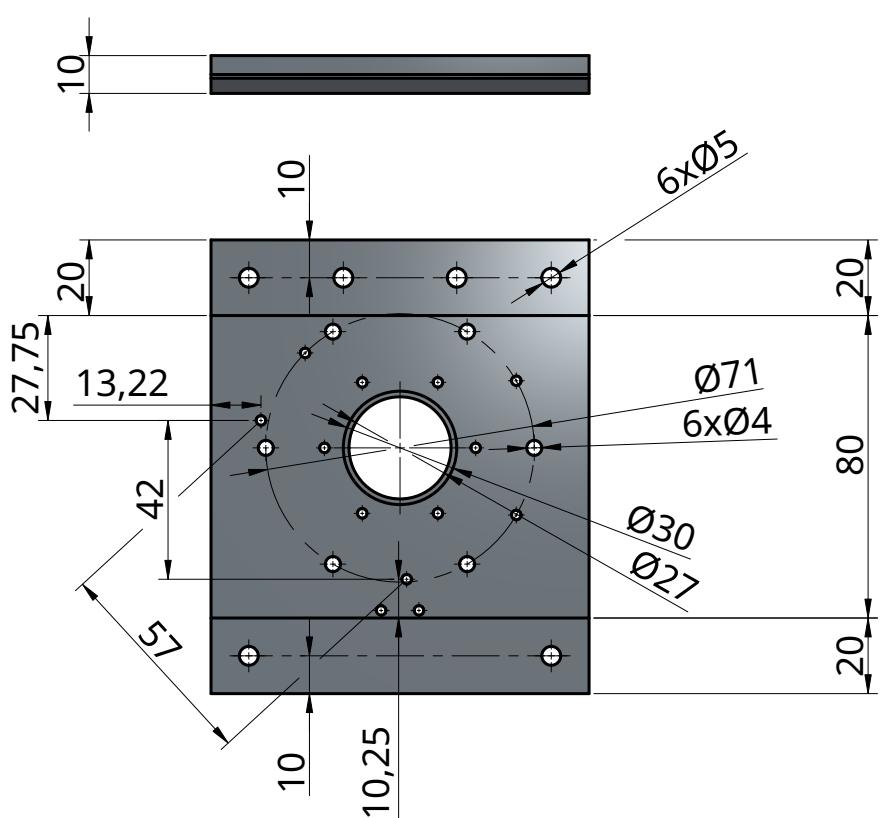
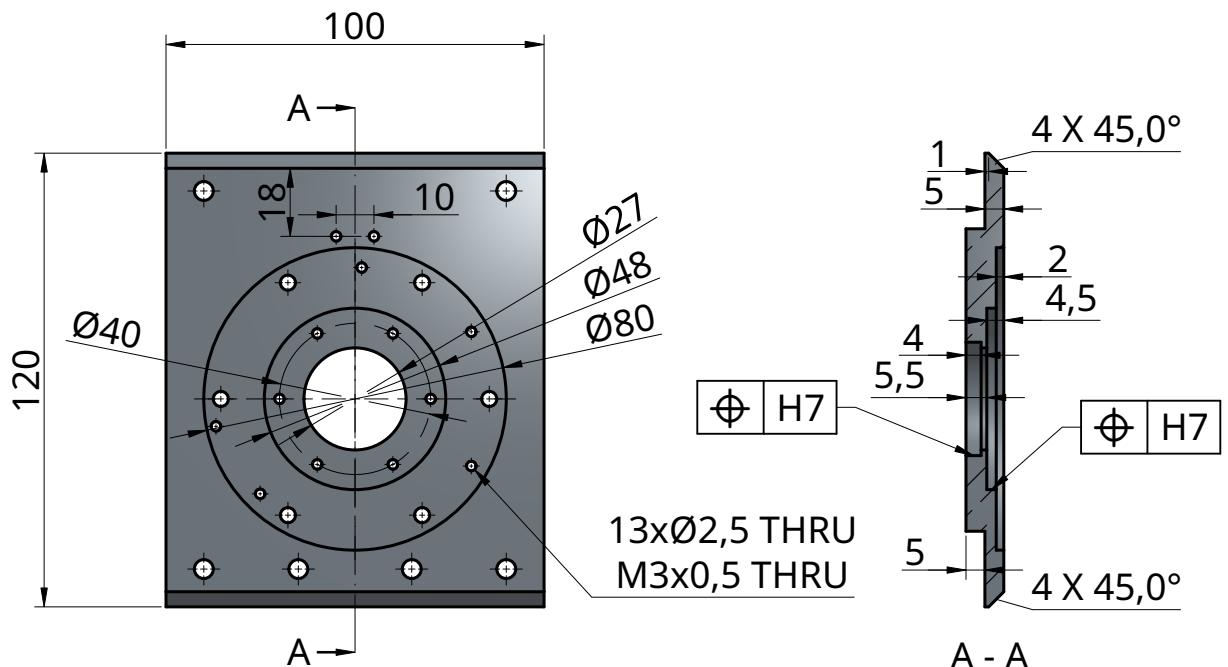
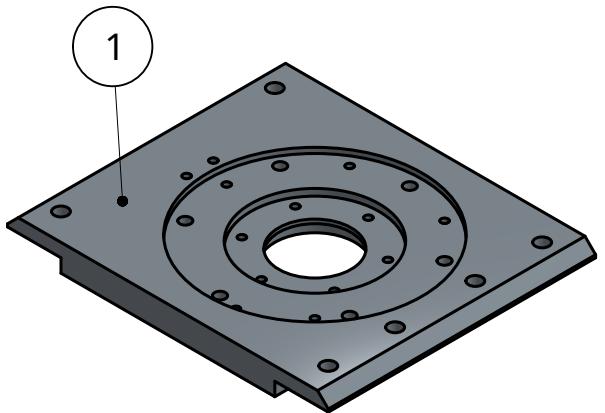
UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE IN MILLIMETERS ANGULAR = \pm ° SURFACE FINISH 		NAME	SIGNATURE	DATE	TITLE HEMY v1.1 Parts catalog	
	DRAWN	POLVINC		2024-12-04		
	CHECKED	POLVINC		2024-12-04		
	APPROVED					
DO NOT SCALE DRAWING						
BREAK ALL SHARP EDGES AND REMOVE BURRS						
FIRST ANGLE PROJECTION	MATERIAL	FINISH		SIZE A4	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	I3D01 - printed Club cover
22	1	I02	I3D02 - printed ESP-01s holder
23	1	I03	I3D03 - printed ESP-01s spacer
24	1	I04	I3D04 - printed GPS and Wifi cover
25	1	I05	I3D05 - printed GPS antenna support
26	1	I06	I3D06 - printed Harmonic skirt
27	1	I07	I3D07 - printed Harmonic skirt bearing housing
28	1	I08	I3D08 - printed Harmonic skirt lock bearing

Main Plate

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



R Plate

Quantity 1 (for a single HEMY)

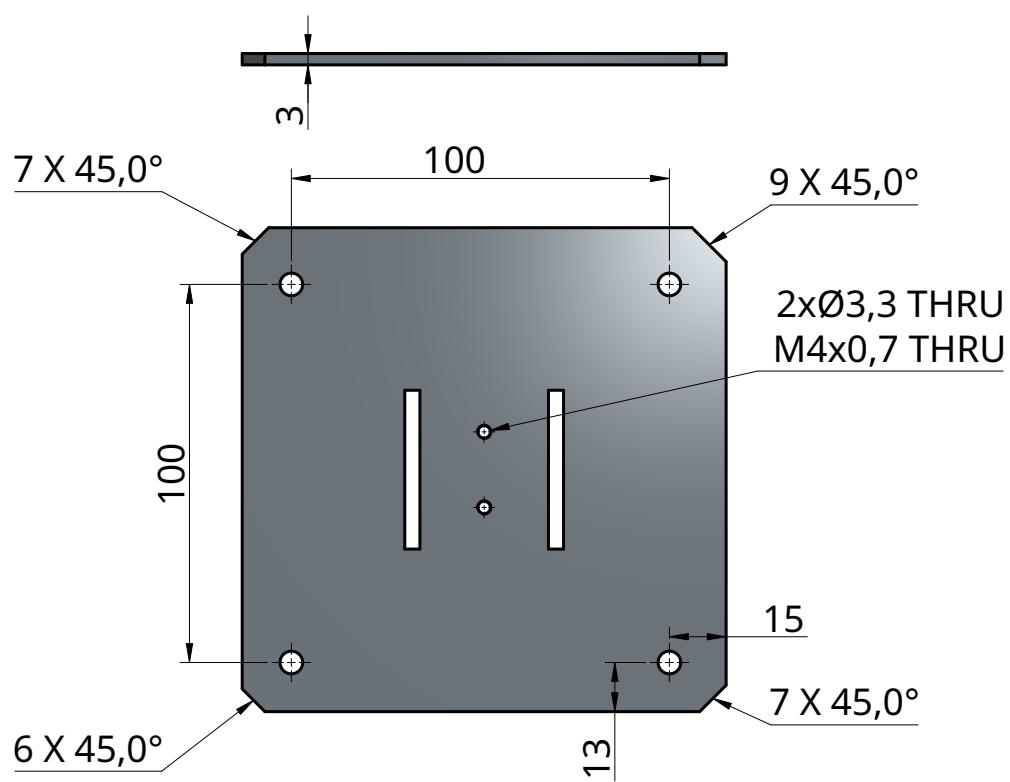
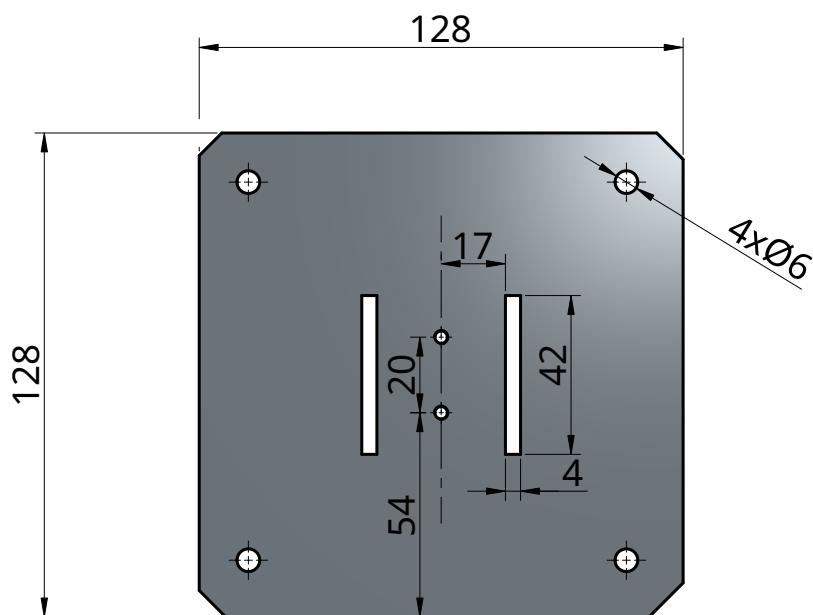
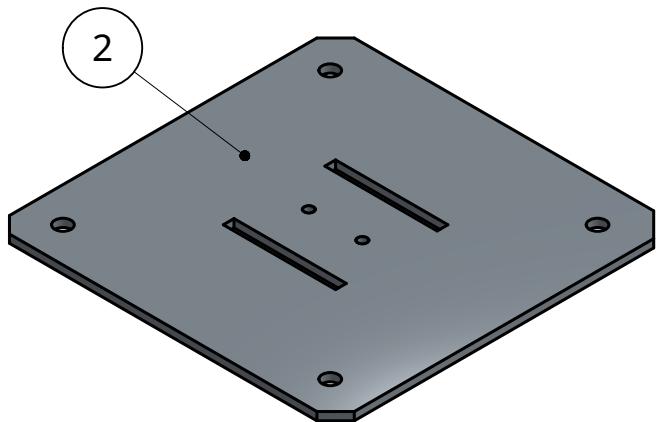
Material Alu 6061

Finish Bead blasting
Anodizing

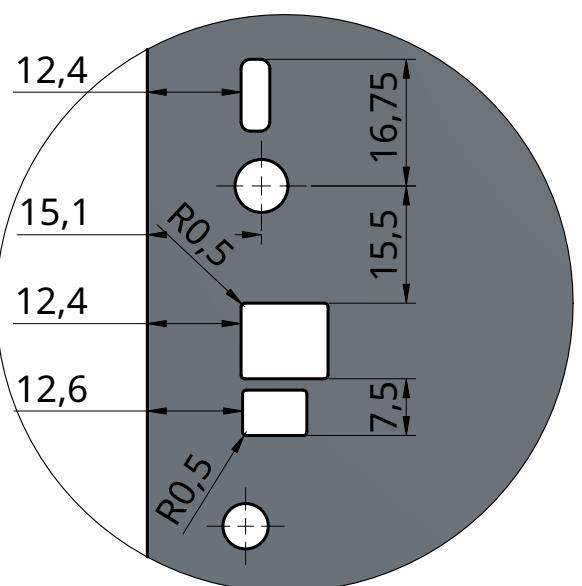
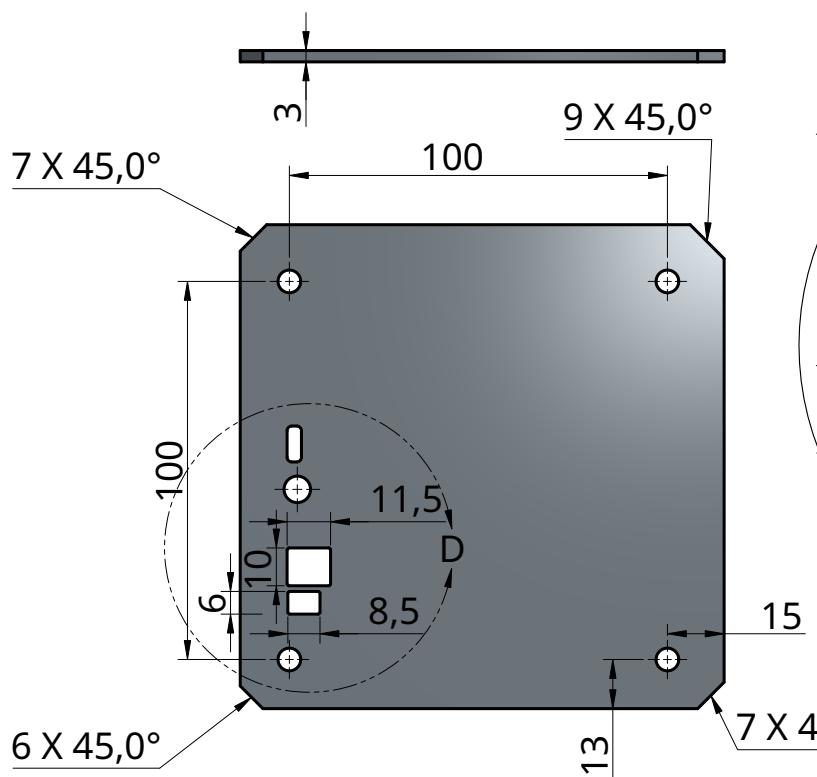
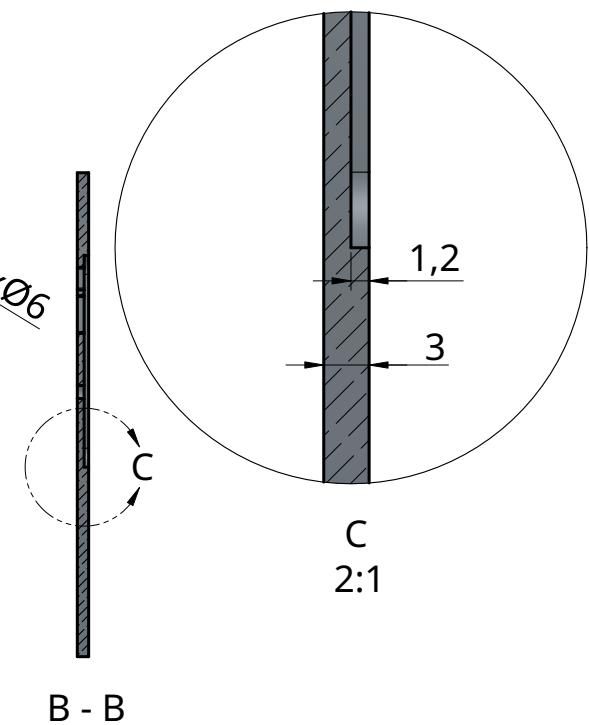
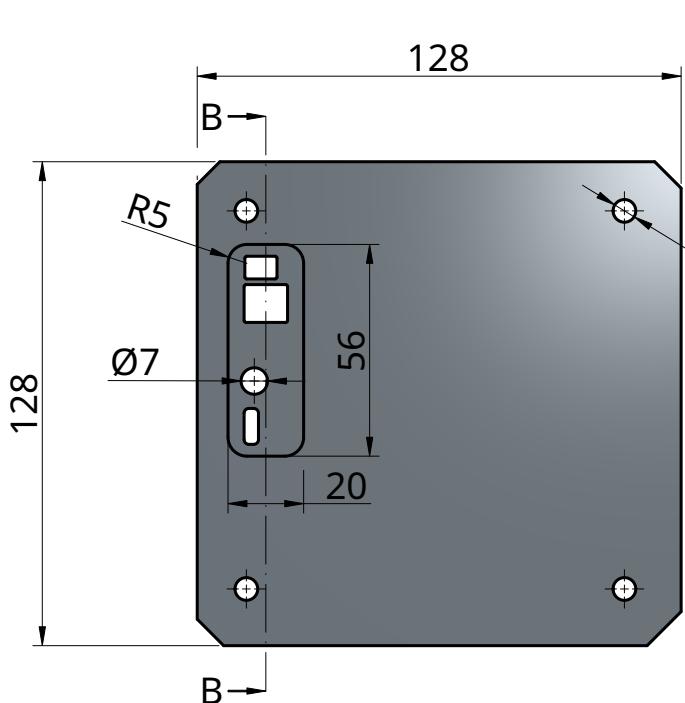
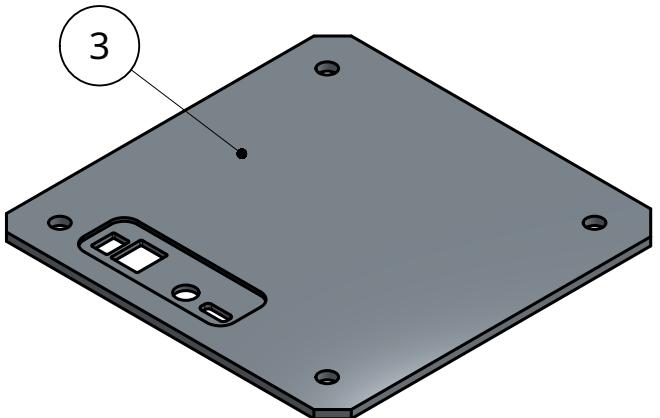
Color Dark grey

Threads Yes

Tolerance No



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



B Plate

Quantity 1 (for a single HEMY)

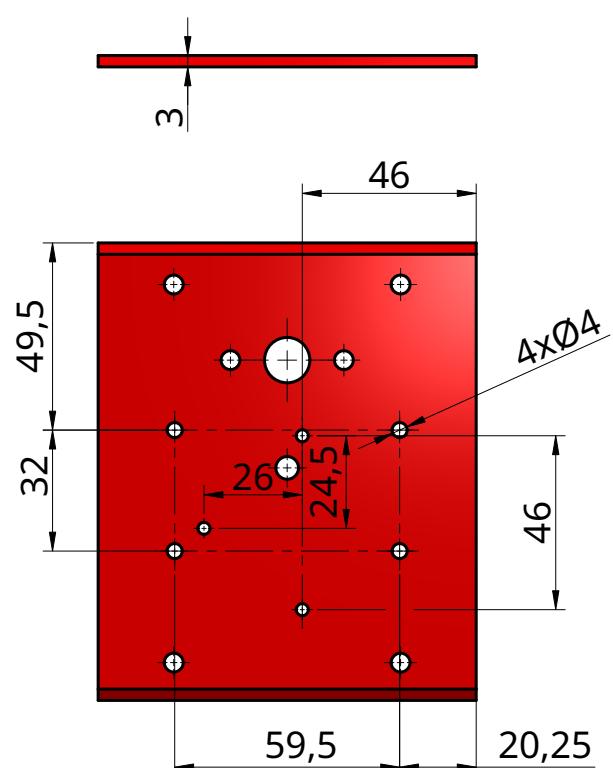
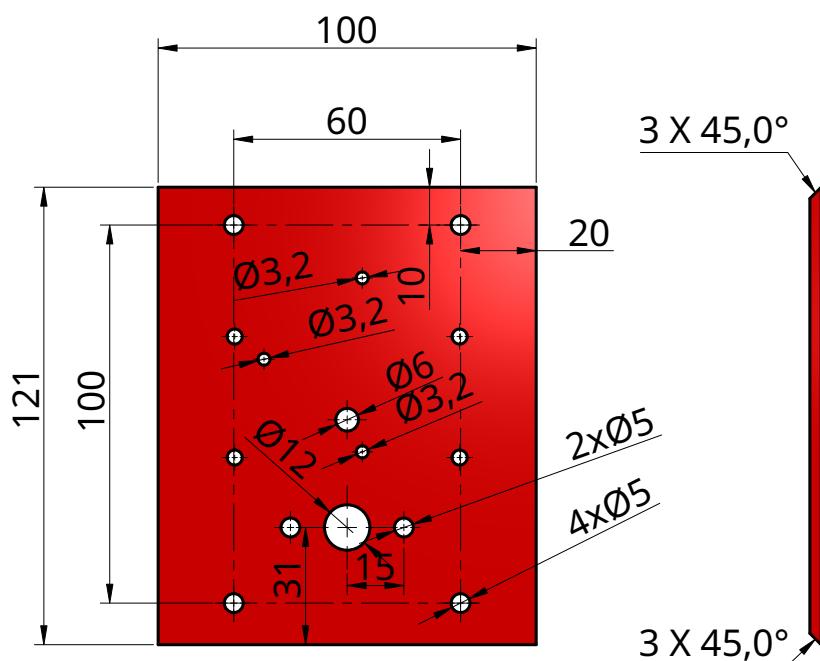
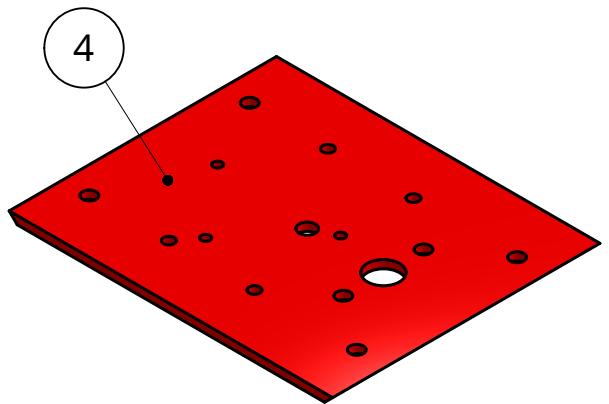
Material Alu 6061

Finish Bead blasting
Anodizing

Color Red

Threads No

Tolerance No



T Plate

Quantity 1 (for a single HEMY)

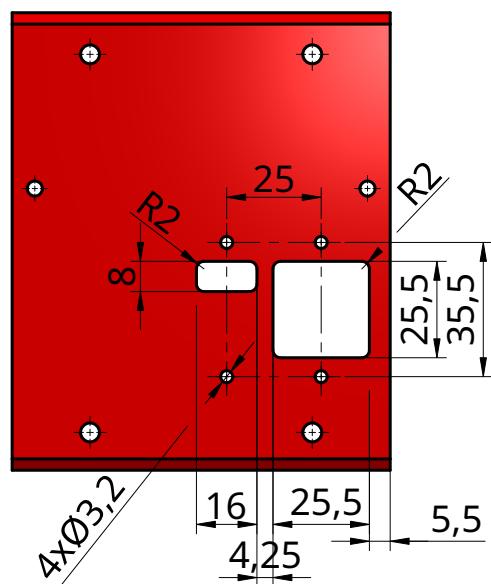
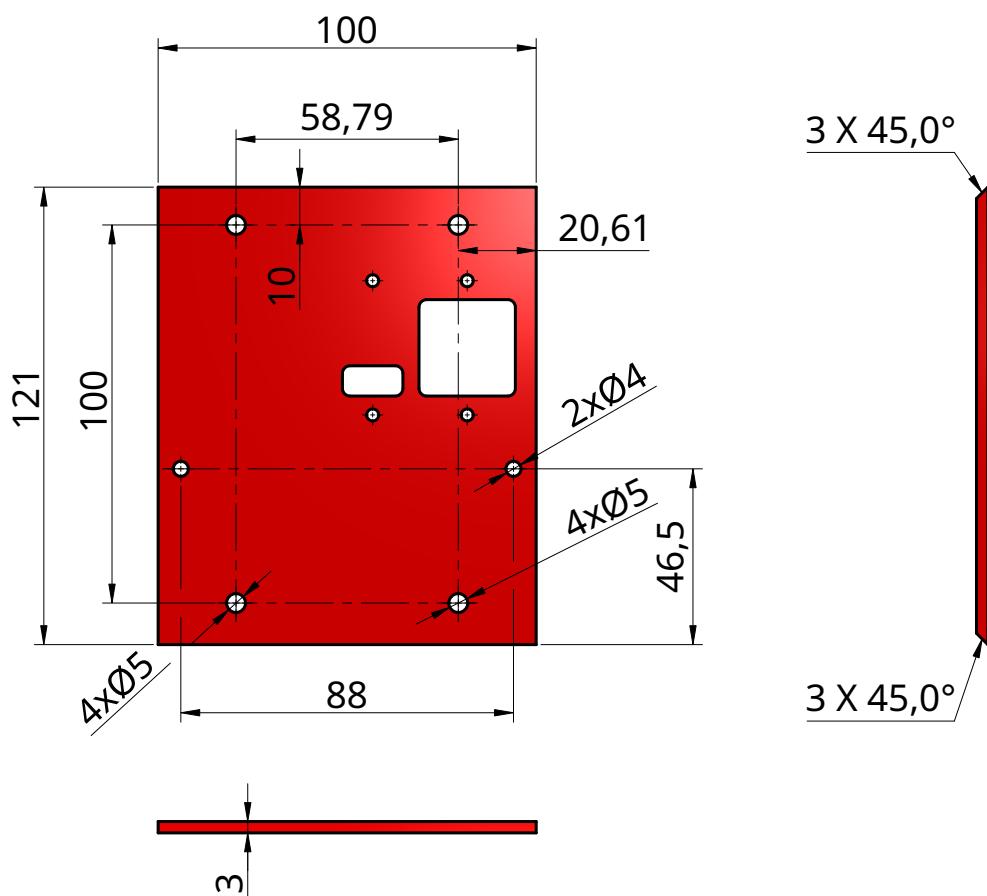
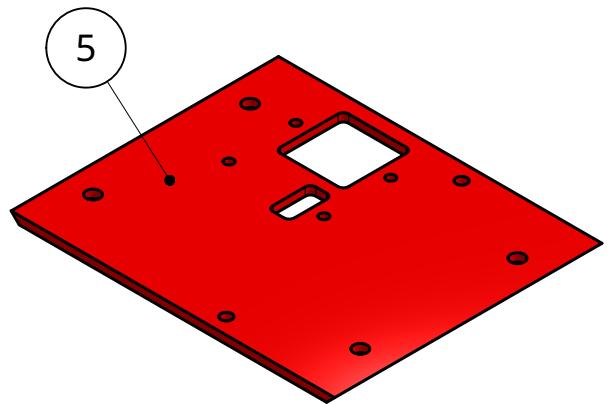
Material Alu 6061

Finish Bead blasting
Anodizing

Color Red

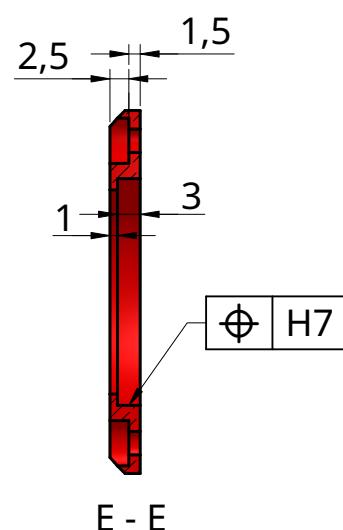
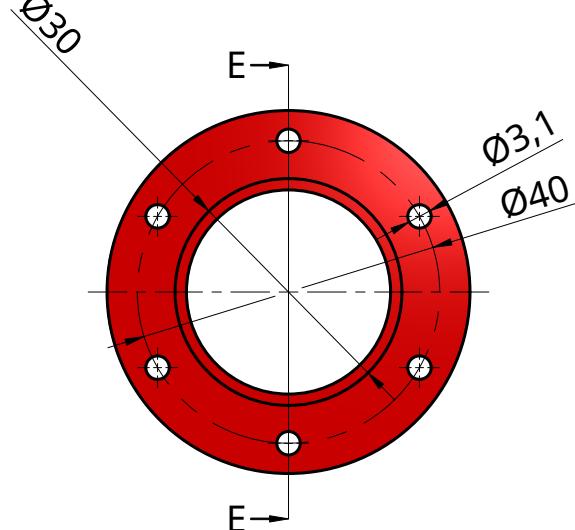
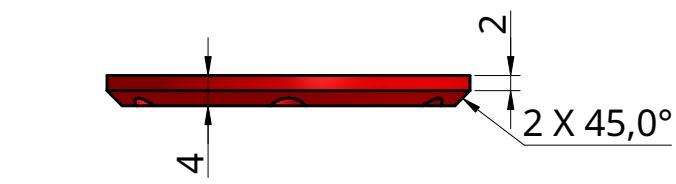
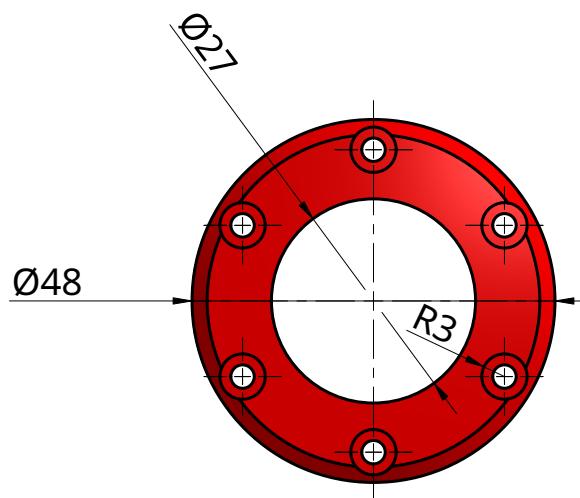
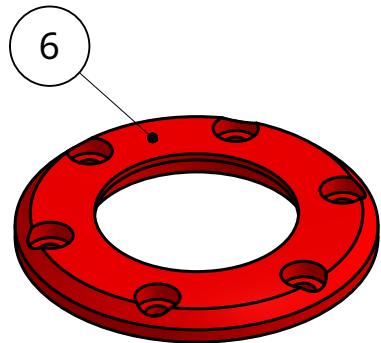
Threads No

Tolerance No



Bearing housing

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



Pulley spacer

Quantity 4 (for a single HEMY)

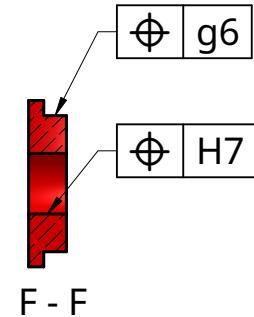
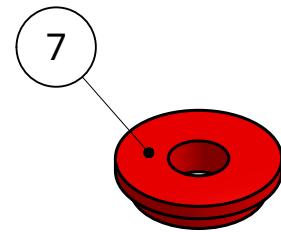
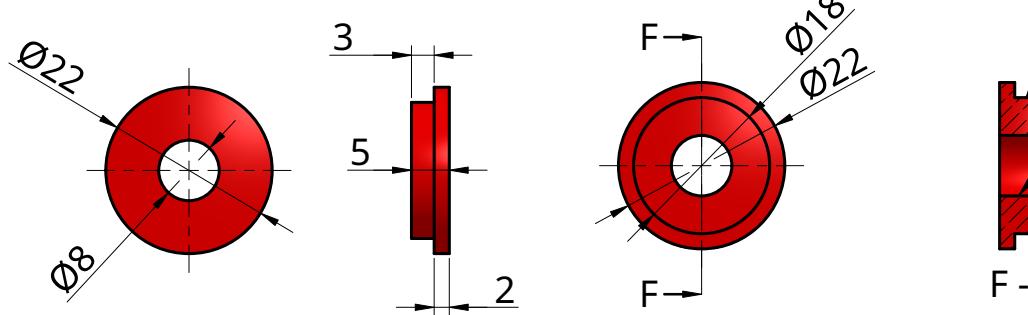
Material Alu 6061

Finish Bead blasting
Anodizing

Color Red

Threads No

Tolerance Yes



Spacer pivot motor

Quantity 2 (for a single HEMY)

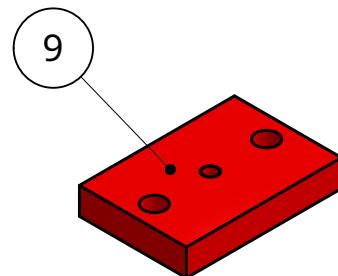
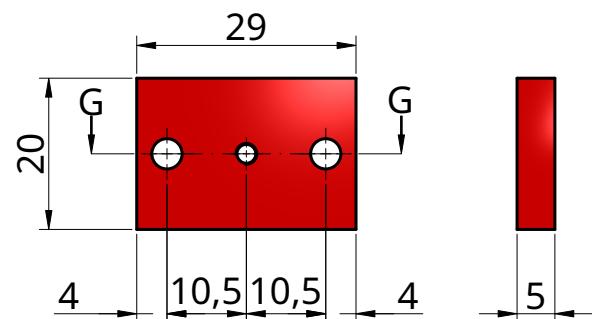
Material Alu 6061

Finish Bead blasting
Anodizing

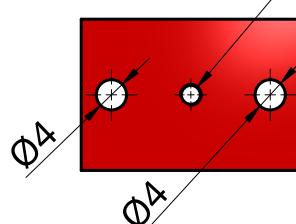
Color Red

Threads Yes

Tolerance No



Ø2,5 THRU
M3x0,5 THRU

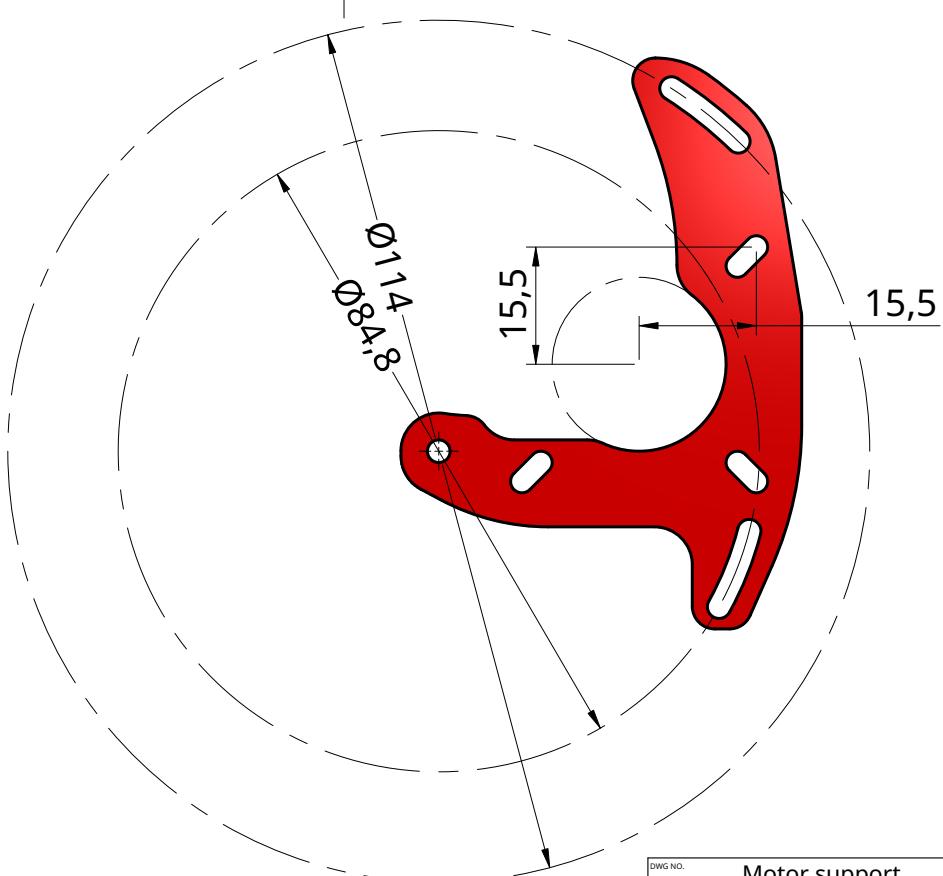
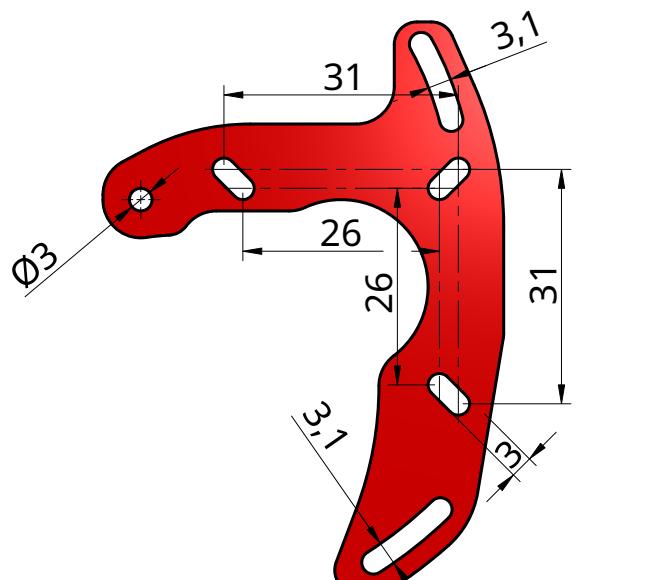
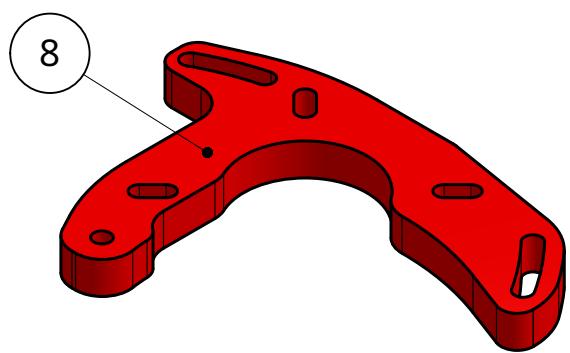


G - G

Motor support

Use STEP file to machine

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



CW carrier

Quantity 1 (for a single HEMY)

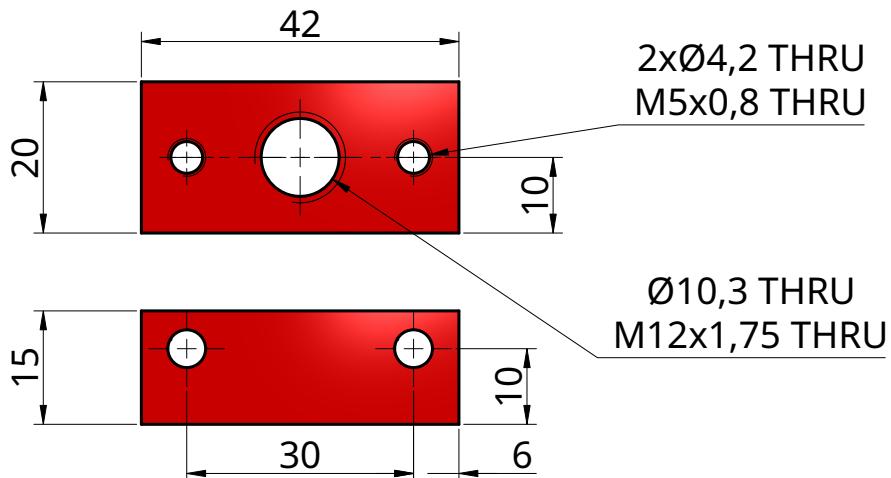
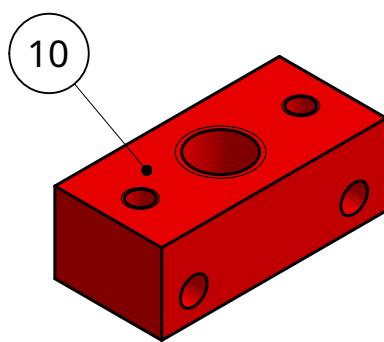
Material Alu 6061

Finish Bead blasting
Anodizing

Color Red

Threads Yes

Tolerance No



Barrell

Quantity 1 (for a single HEMY base)

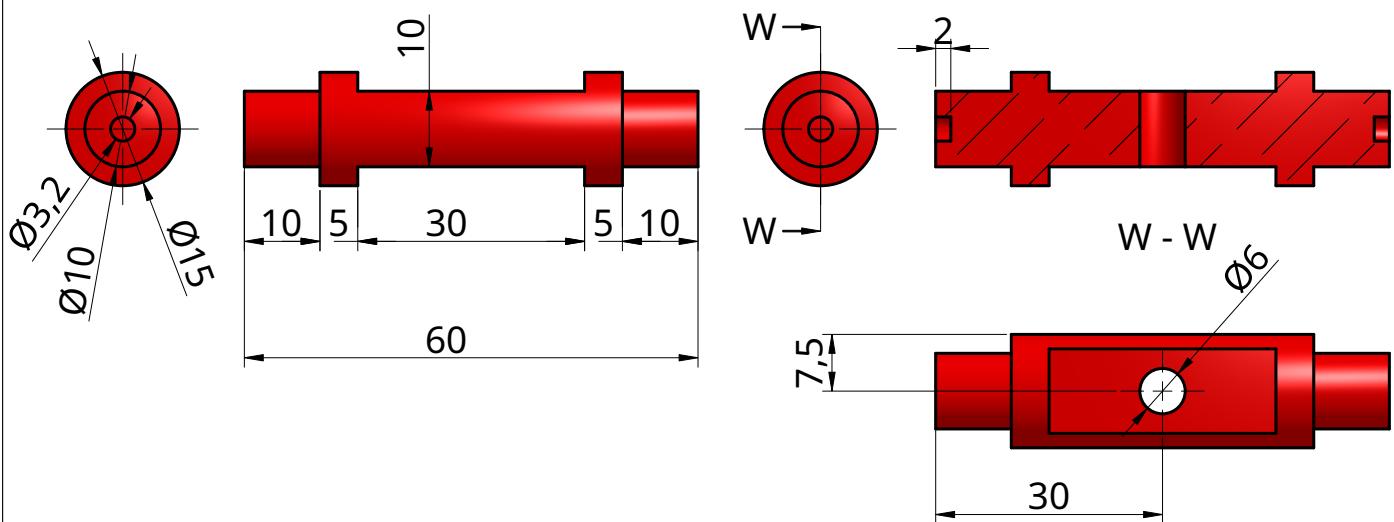
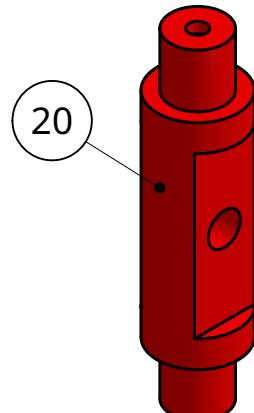
Material Alu 6061

Finish Bead blasting
Anodizing

Color Red

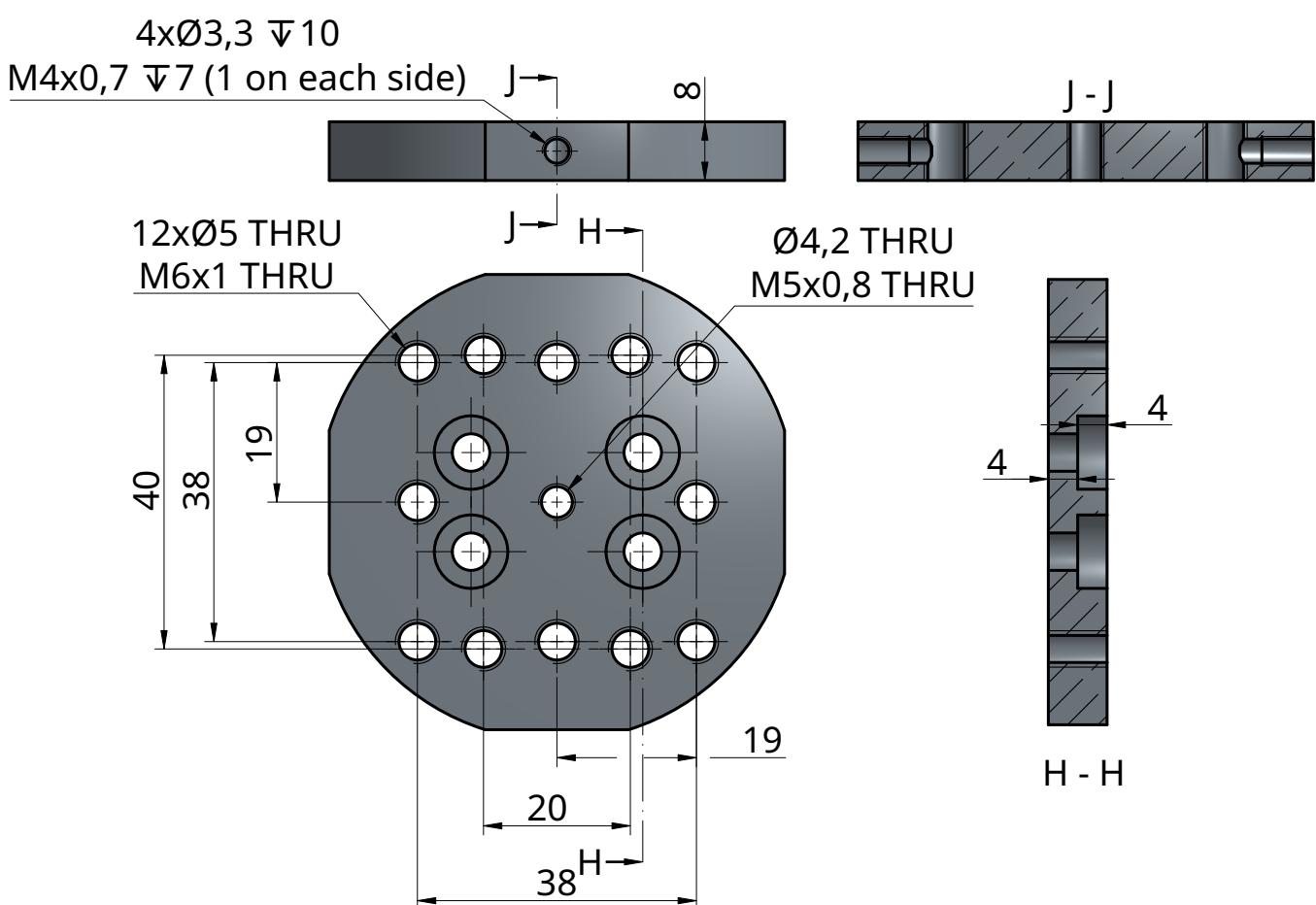
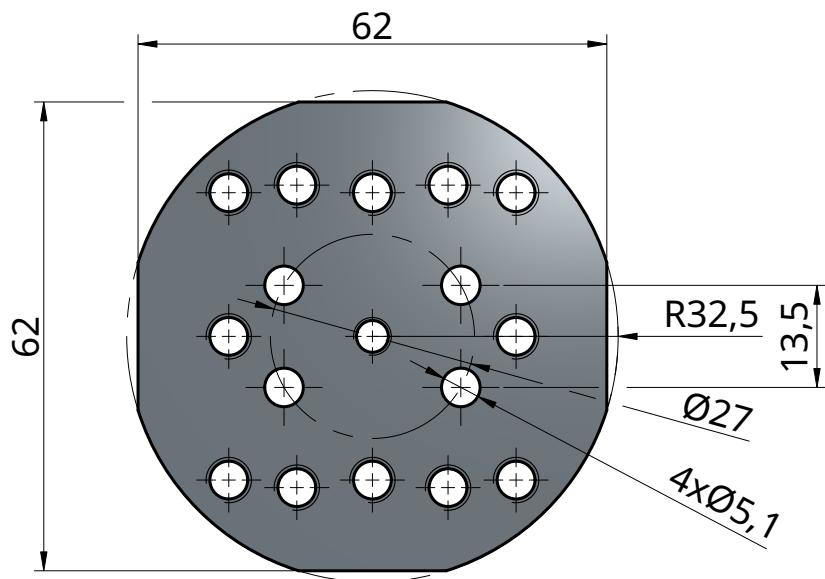
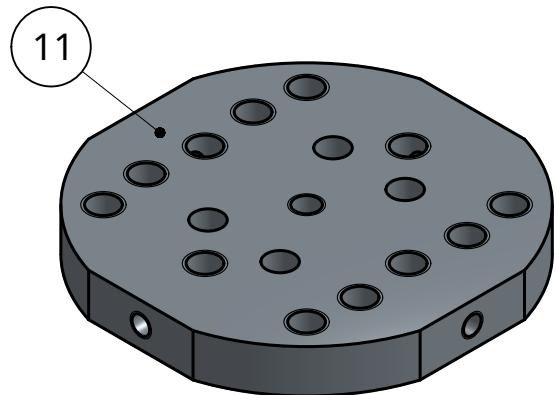
Threads No

Tolerance No



Harmonic vixen plug

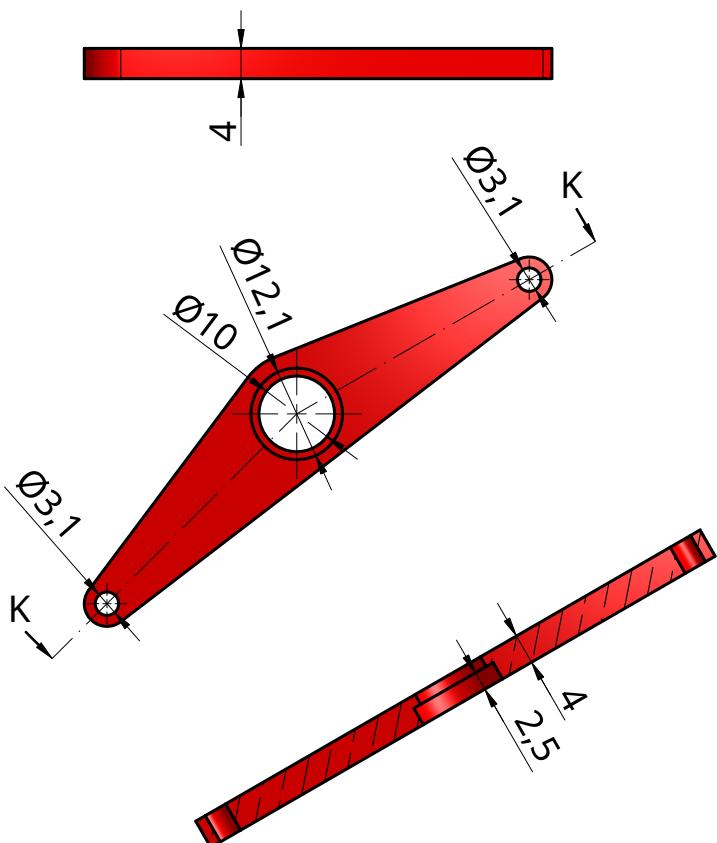
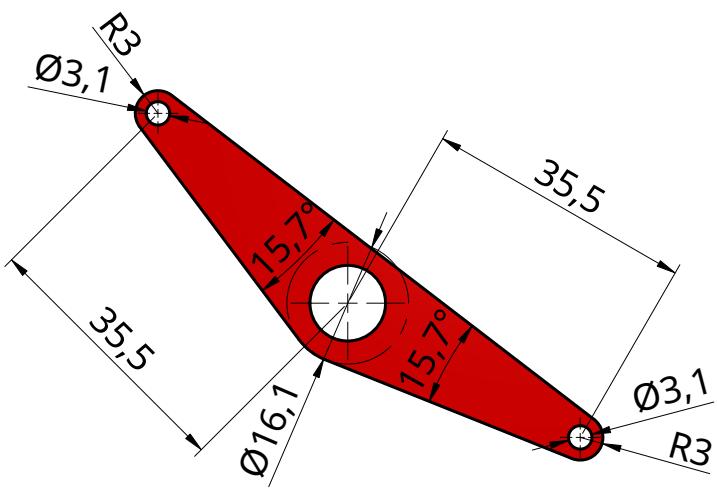
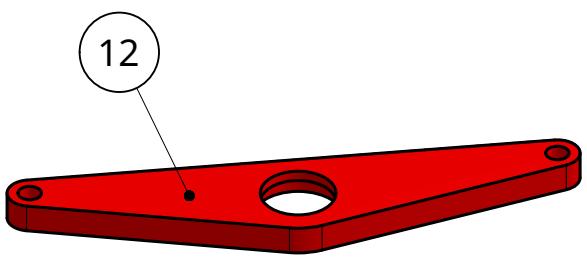
Quantity	1 or 2 (for a single HEMY)
Material	Alu 6061
Finish	Bead blasting Anodizing
Color	Dark grey
Threads	Yes
Tolerance	No



Back axes bearing housing

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

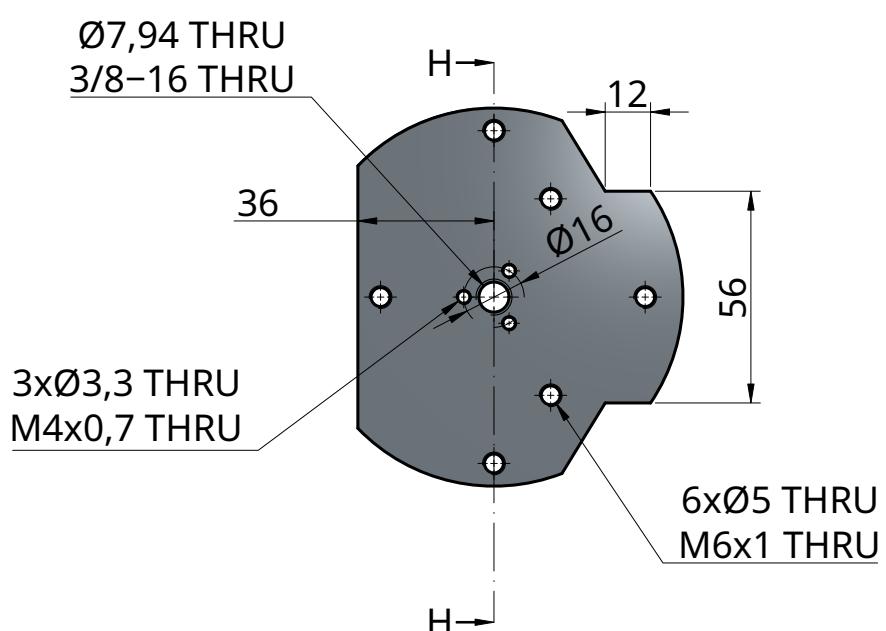
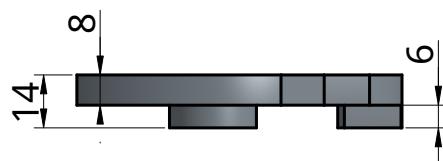
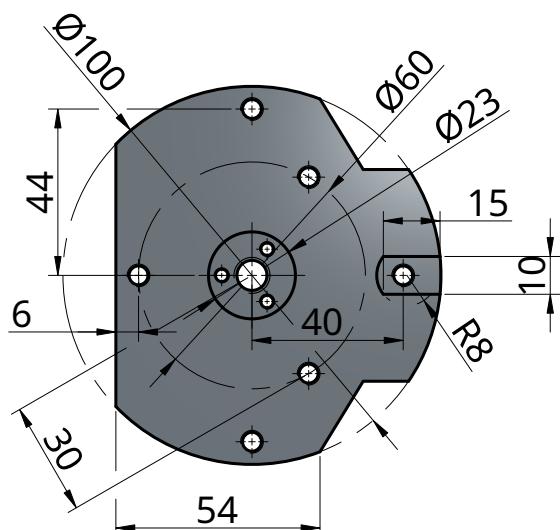
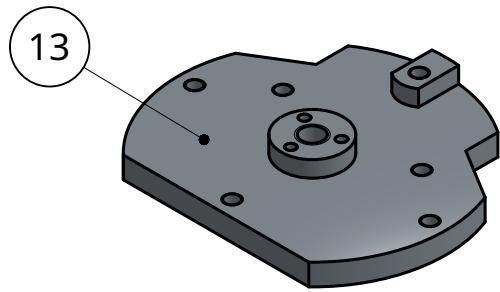
Use STEP file to machine



K - K

Base tripod

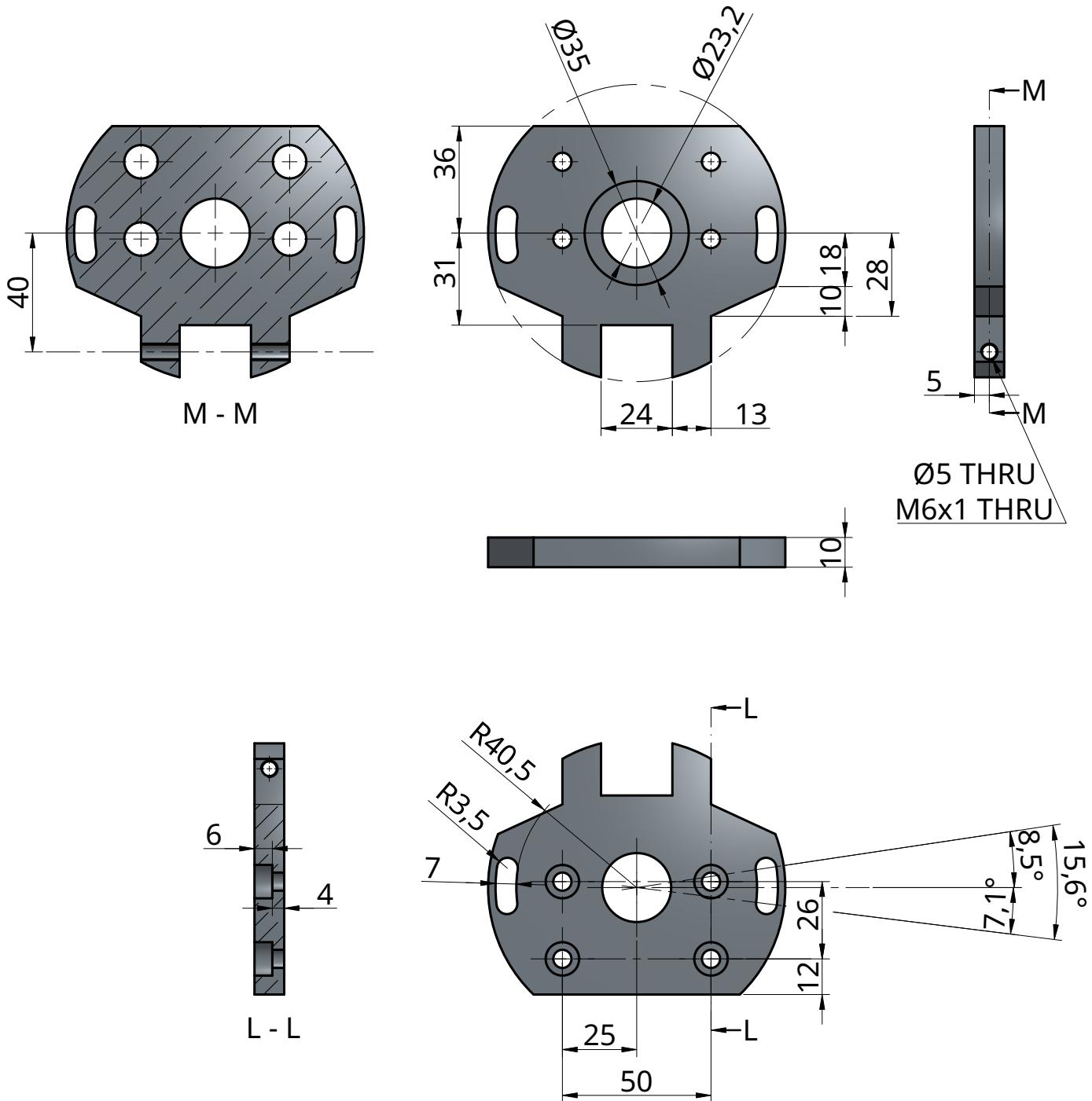
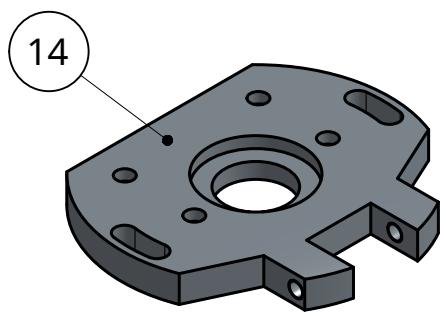
Quantity	1 (for a single HEMY base)
Material	Alu 6061
Finish	Bead blasting Anodizing
Color	Dark grey
Threads	Yes
Tolerance	No



H - H

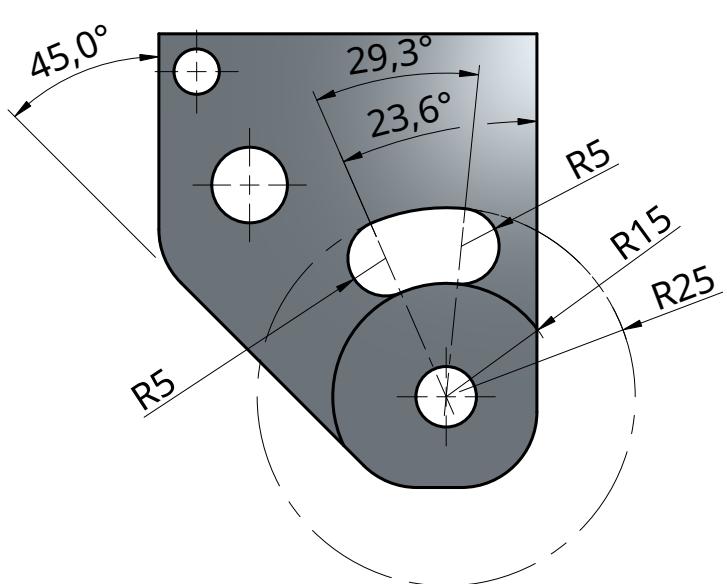
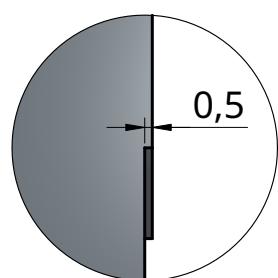
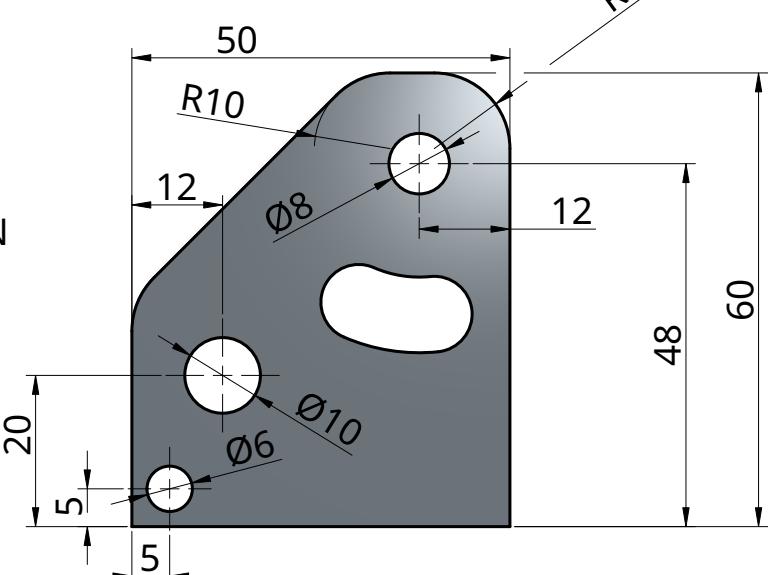
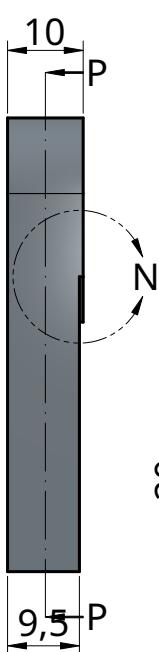
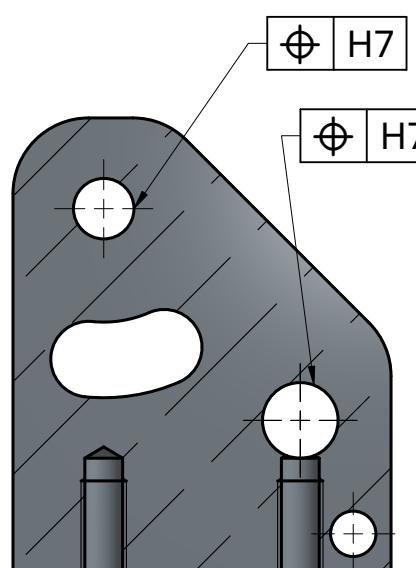
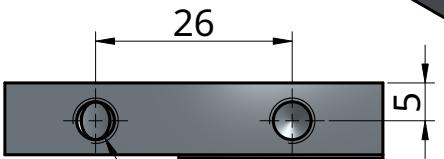
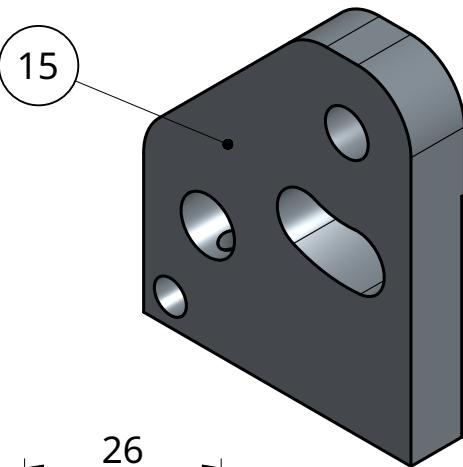
Base Az

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



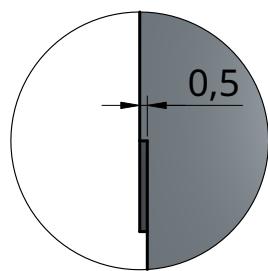
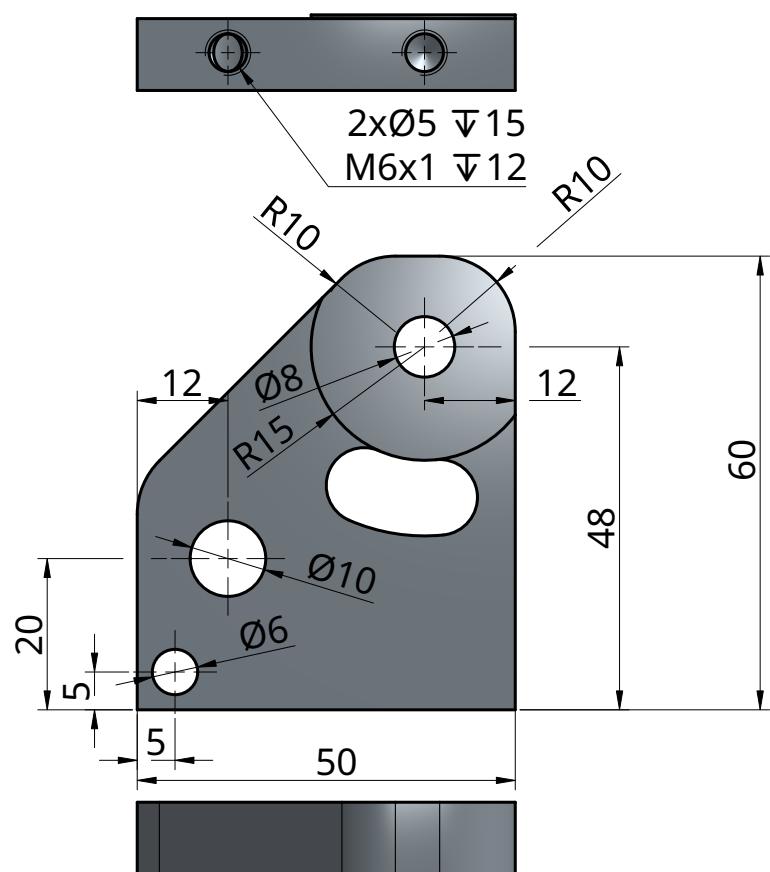
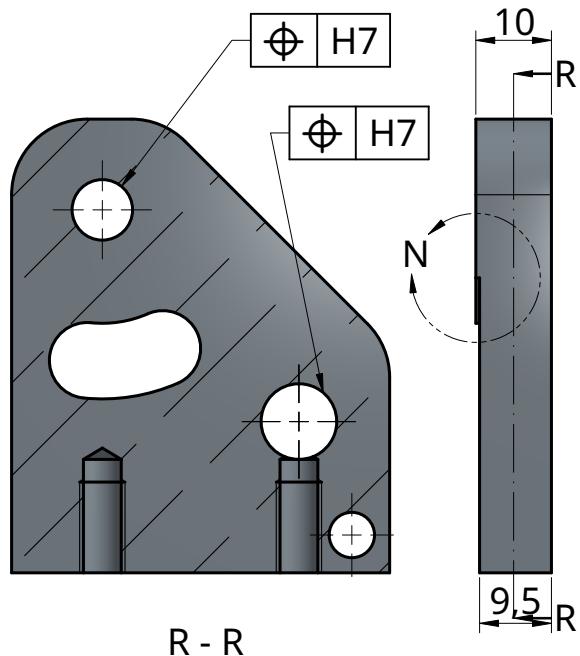
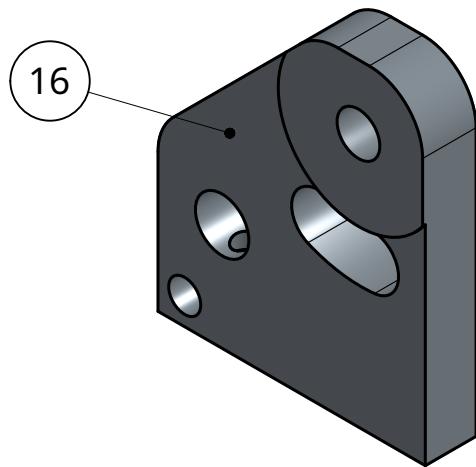
Lateral R (sym. L)

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

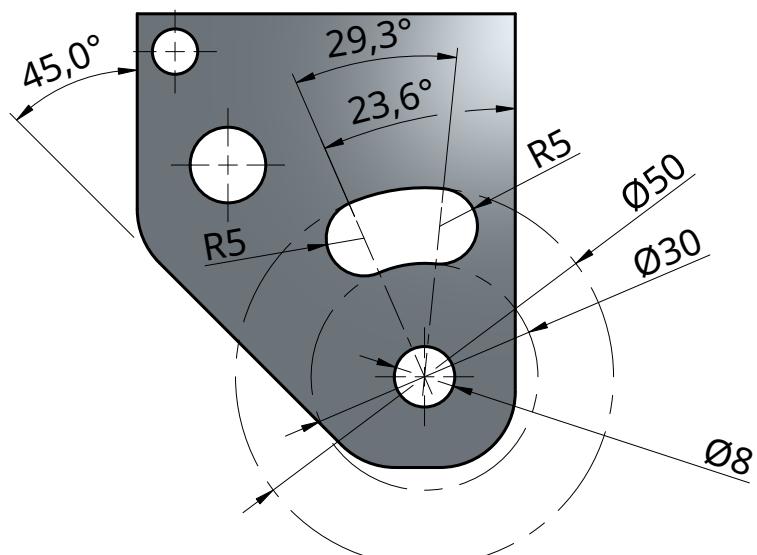


Lateral L (sym. R)

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



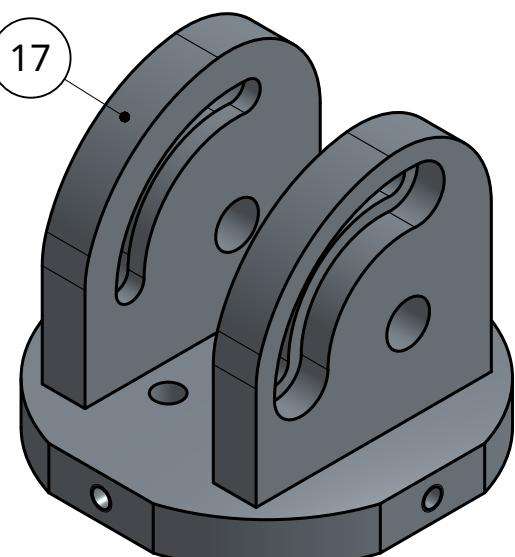
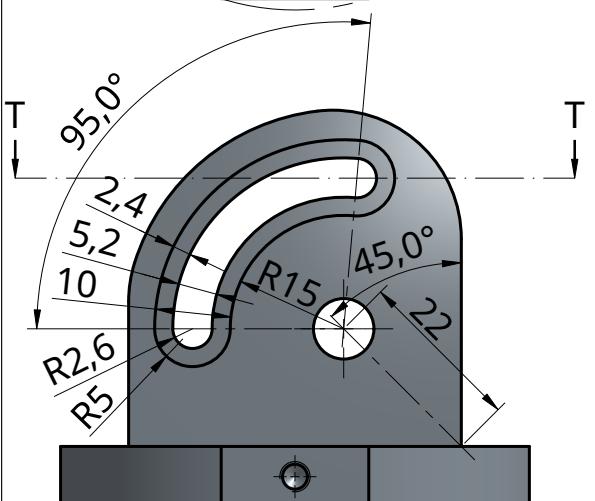
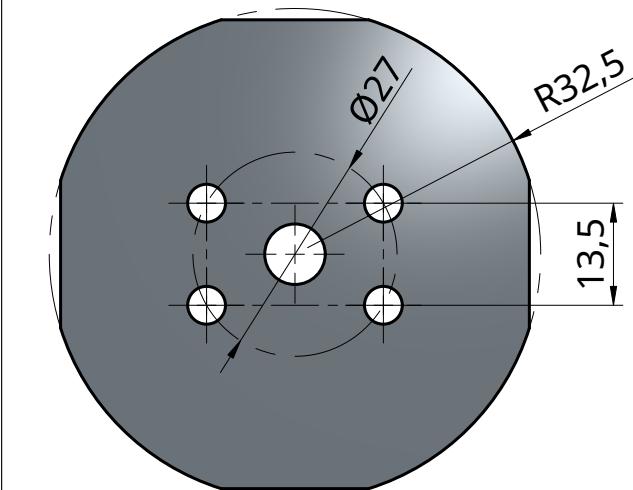
N
2:1



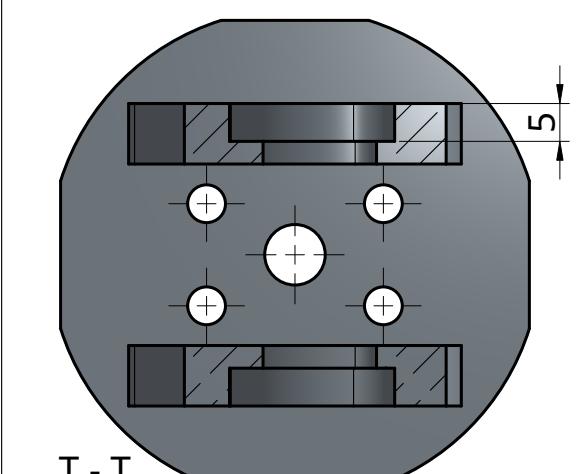
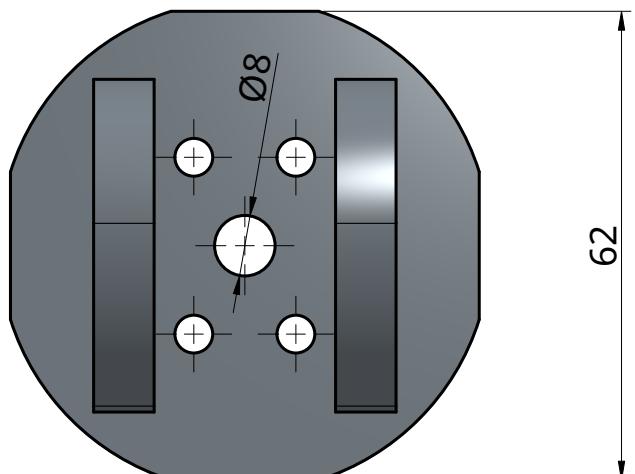
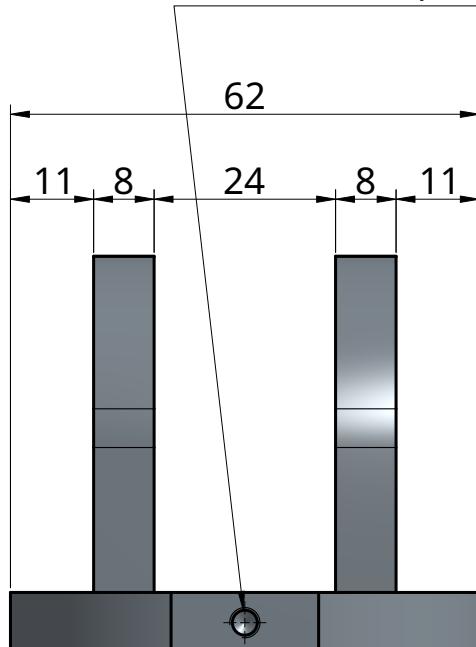
Rotation Alt

Use STEP file to machine

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

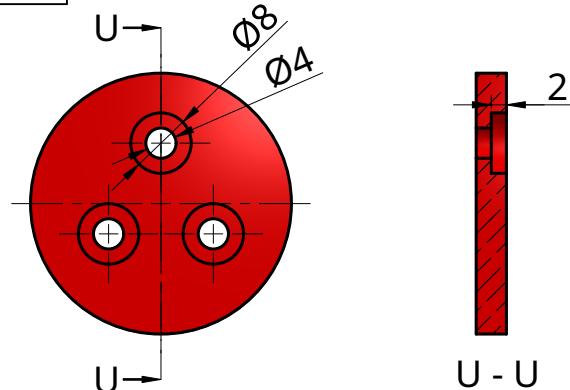
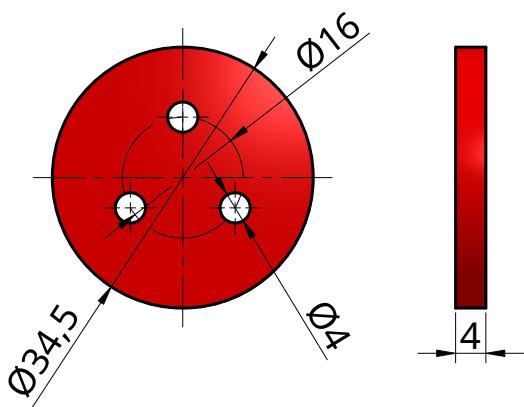
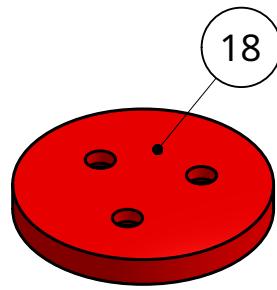


4xØ3,3 T15
M4x0,7 T12 (1 on each side)



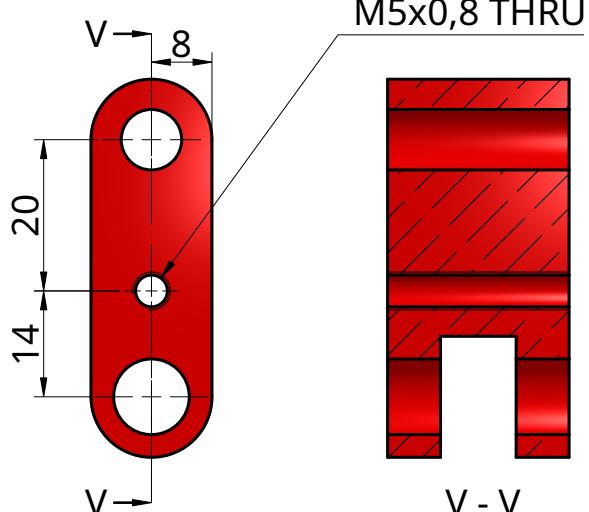
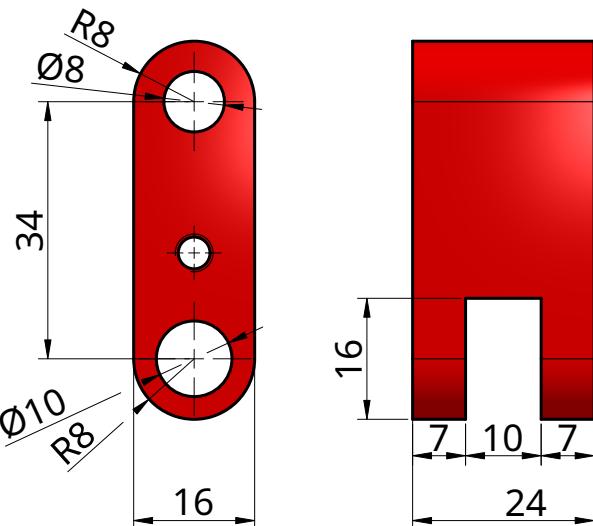
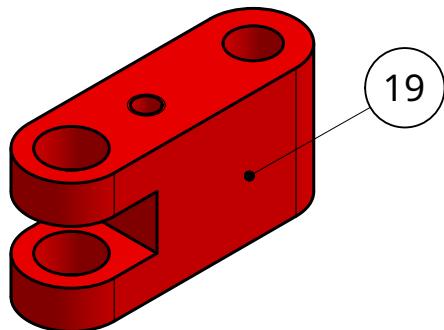
Base Az hold

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



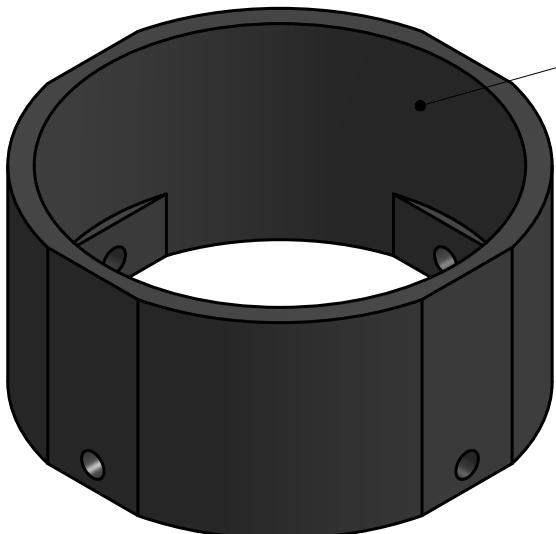
Setting Alt

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

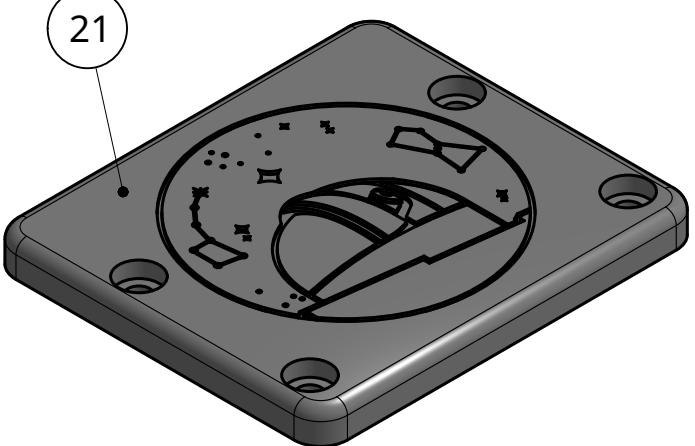


3D printed parts

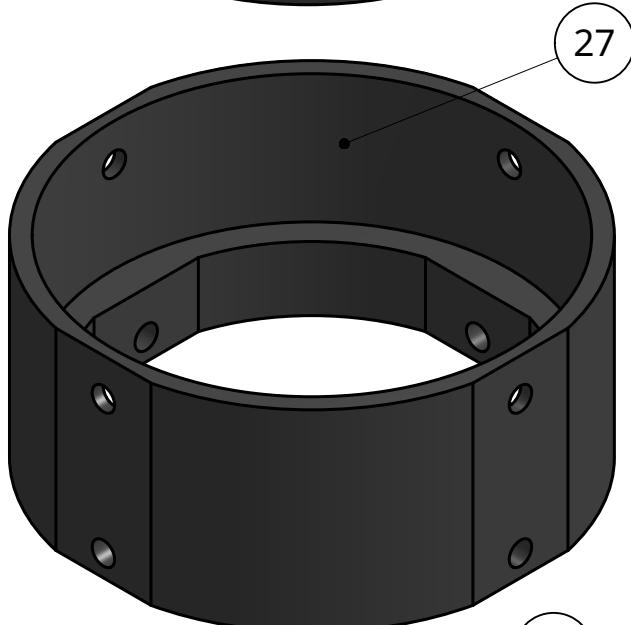
3D Technology	SLS(Nylon)
Material	3201PA-F Nylon
Finish	None
Color	Black
Quantity	One of each



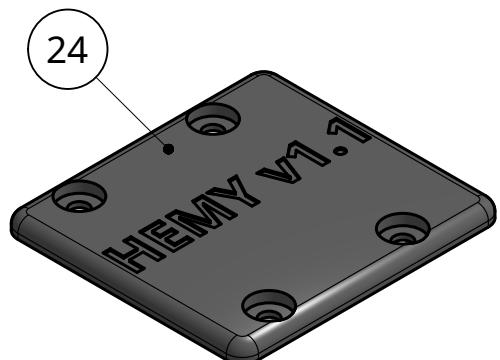
26



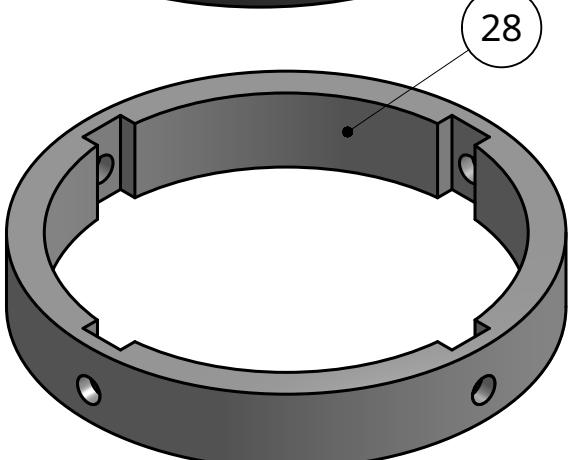
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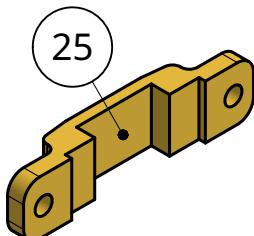
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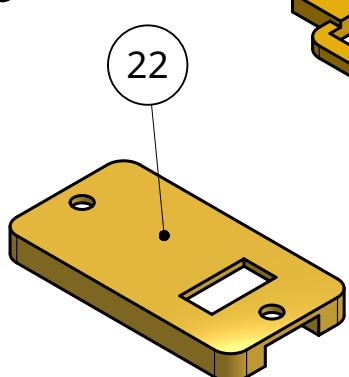
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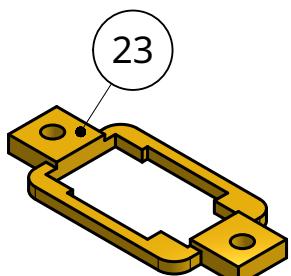
28



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