

UNLESS OTHERWISE SPECIFIED:  
DIMENSIONS ARE IN MILLIMETERS  
SURFACE FINISH:  
TOLERANCES:  
LINEAR:  
ANGULAR:

FINISH:

DEBURR AND  
BREAK SHARP  
EDGES

DO NOT SCALE DRAWING

REVISION

	NAME	SIGNATURE	DATE		
DRAWN					
CHK'D					
APPV'D					
MFG					
Q.A					

MATERIAL:

WEIGHT:

TITLE:

final assembly

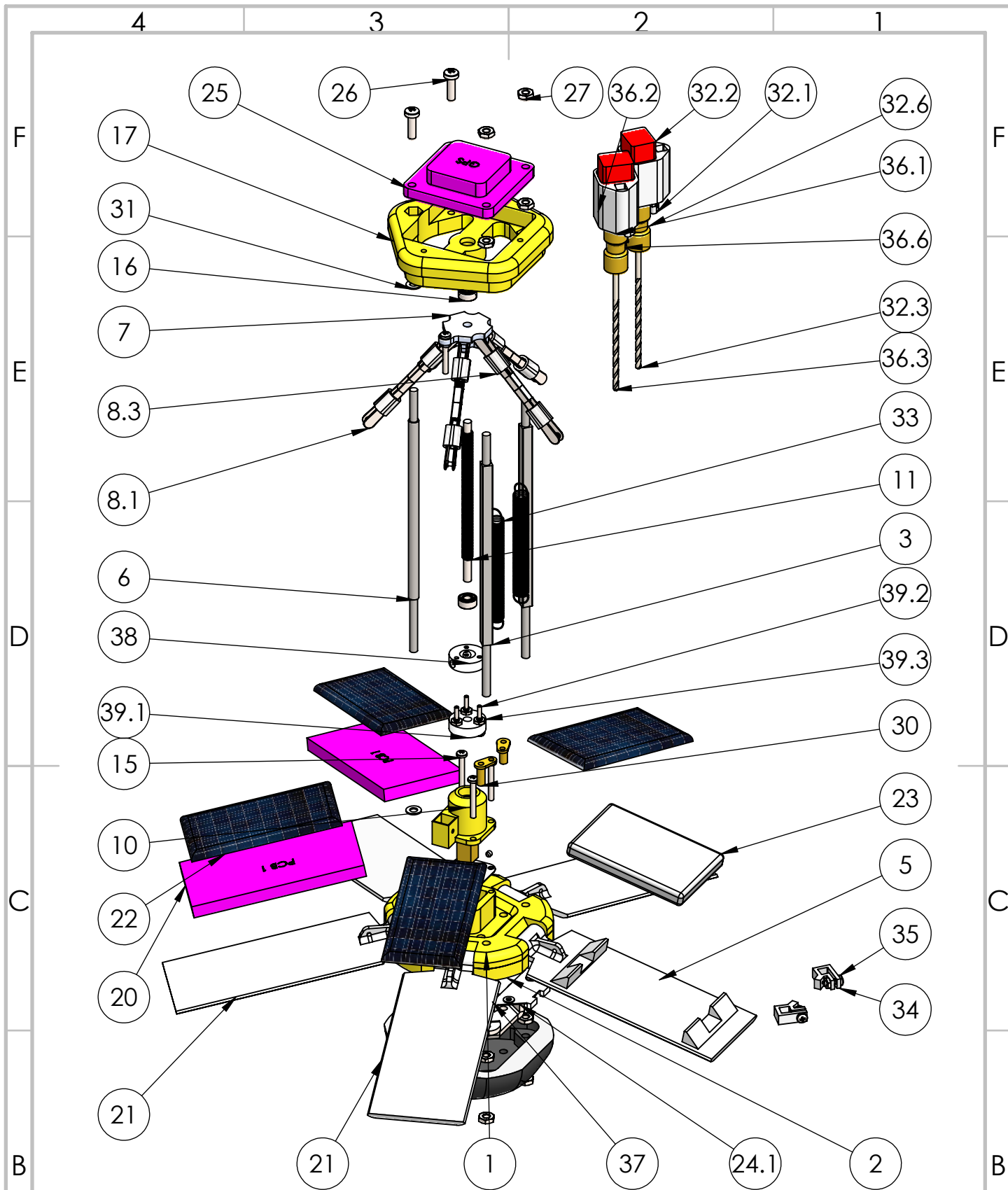
DWG NO.

drawings

A4

SCALE:1:1.5

SHEET 1 OF 17



UNLESS OTHERWISE SPECIFIED:  
DIMENSIONS ARE IN MILLIMETERS  
SURFACE FINISH:  
TOLERANCES:  
LINEAR:  
ANGULAR:

FINISH:

DEBURR AND  
BREAK SHARP  
EDGES

DO NOT SCALE DRAWING

REVISION

	NAME	SIGNATURE	DATE	
DRAWN				
CHK'D				
APPV'D				
MFG				
Q.A				

MATERIAL:

WEIGHT:

TITLE:

exploded view

DWG NO.

drawings

A4

SCALE:1:2

SHEET 2 OF 17

[illegible]

	4	3	2	1	
	ITEM NO.	PART NUMBER	MATERIAL	QTY.	
F	23	battery 960 mAh	LiPo	1	F
	24	shield	laser cut steel sheet	1	
	24.1		Sheet	-	
	25	GPS		1	
E	26	pan head cross recess screw_din		2	E
	27	Hexagon Thin Nut ISO 4035 - M3 - N		13	
	28	DIN EN ISO 7045 - M3 x 16 - Z - 16N		2	
	29	damper	molded rubber	1	
	30	drill contact	brass	2	
D	31	DIN 988-3x6x0.5		2	D
	32	drill right		1	
	32.1	drill motor holder		1	
	32.2	motor	450 RPM 6V geared motor	1	
	32.3	drill bit	HSS steel	1	
	32.4	DIN 914 - M2 x 3-N		2	
	32.5	DIN EN ISO 7045 - M1.6 x 3 - Z - 3N		2	
C	32.6	2-3mm coupler	brass	1	C
	33	extension spring	stainless steel custom made	2	
	34	spring holder	3d printed	2	
	35	pan head cross recess screw_din		2	
	36	drill left		1	
	36.1	drill motor holder	cnc POM	1	
	36.2	motor	450 RPM 6V geared motor	1	
B	36.3	drill bit	HSS steel	1	B
	36.4	DIN 914 - M2 x 3-N		2	
	36.5	DIN EN ISO 7045 - M1.6 x 3 - Z - 3N		2	
UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN MILLIMETERS SURFACE FINISH: TOLERANCES: LINEAR: ANGULAR:		FINISH:	DEBURR AND BREAK SHARP EDGES	DO NOT SCALE DRAWING	REVISION
A	NAME	SIGNATURE	DATE	TITLE:	
	DRAWN			bill of materials	
	CHK'D				
	APPV'D				
	MFG				
	Q.A			MATERIAL:	DWG NO.
					drawings
			WEIGHT:	SCALE:1:2	A4
				SHEET 4 OF 17	
	4	3	2	1	

F

E

D

C

B

A

4

3

2

1

ITEM NO.	PART NUMBER	MATERIAL	QTY.
36.6	2-3mm coupler	brass	1
37	drill retainer	PLA 3d printed	1
38	parachute rope holder	PLA 3d printed	1
39	parachute retainer	PLA 3d printed	1
39.1	parachute release nut	PLA 3d printed	1
39.2	parachute retainer bolt	custom M2 bolt	3
39.3	Hexagon Thin Nut ISO 4035 - M2 - N		3

UNLESS OTHERWISE SPECIFIED:  
DIMENSIONS ARE IN MILLIMETERS  
SURFACE FINISH:  
TOLERANCES:  
LINEAR:  
ANGULAR:

FINISH:

DEBURR AND BREAK SHARP EDGES

DO NOT SCALE DRAWING

REVISION

NAME

SIGNATURE

DATE

DRAWN

CHK'D

APPVD

MFG

Q.A

TITLE:

bill of materials

MATERIAL:

WEIGHT:

DWG NO.

drawings

SCALE:1:1

SHEET 5 OF 17

A4

4

3

2

1

4 3 2 1

F

F

E

E

D

D

C

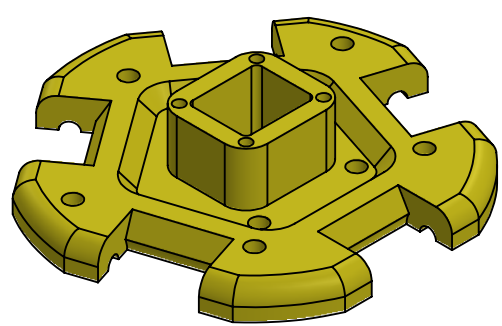
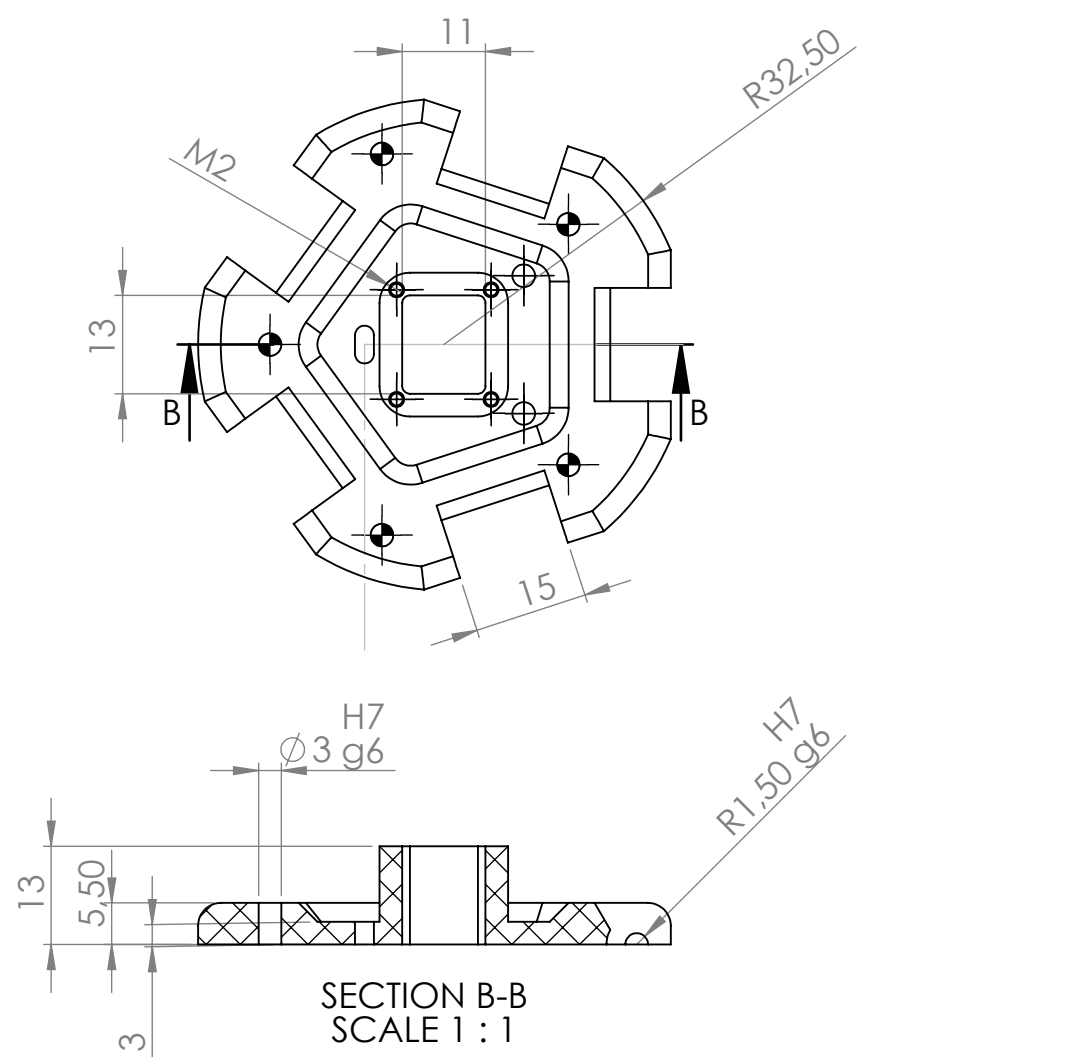
C

B

B

A

A



UNLESS OTHERWISE SPECIFIED:  
DIMENSIONS ARE IN MILLIMETERS  
SURFACE FINISH:  
TOLERANCES:  
LINEAR:  
ANGULAR:

FINISH:

DEBURR AND  
BREAK SHARP  
EDGES

DO NOT SCALE DRAWING

REVISION

	NAME	SIGNATURE	DATE		
DRAWN					
CHK'D					
APPV'D					
MFG					
Q.A					

MATERIAL:

WEIGHT:

TITLE:  
**level0 top**

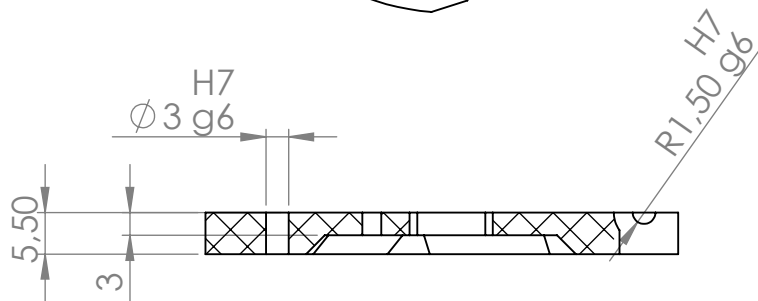
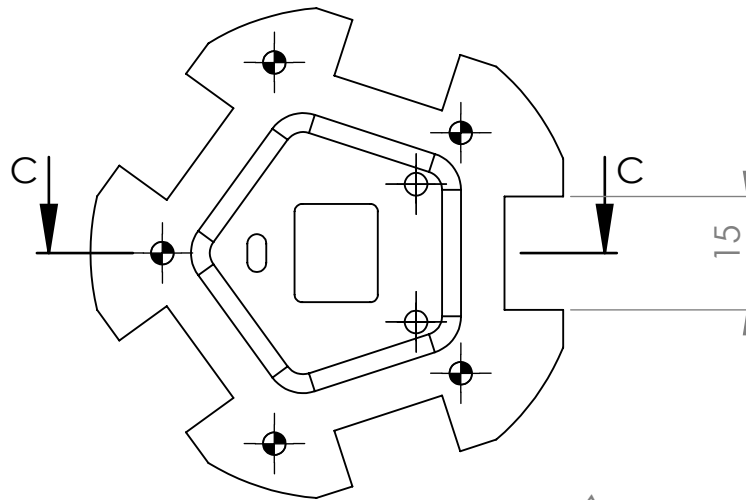
DWG NO.  
**drawings**

SCALE:1:1

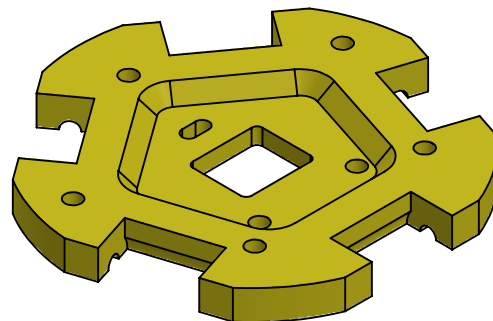
SHEET 6 OF 17

A4

4 3 2 1



SECTION C-C  
SCALE 1 : 1



UNLESS OTHERWISE SPECIFIED:  
DIMENSIONS ARE IN MILLIMETERS  
SURFACE FINISH:  
TOLERANCES:  
LINEAR:  
ANGULAR:

FINISH:

DEBURR AND  
BREAK SHARP  
EDGES

DO NOT SCALE DRAWING

REVISION

	NAME	SIGNATURE	DATE		
DRAWN					
CHK'D					
APPV'D					
MFG					
Q.A					

MATERIAL:

WEIGHT:

TITLE:

level 0 bottom

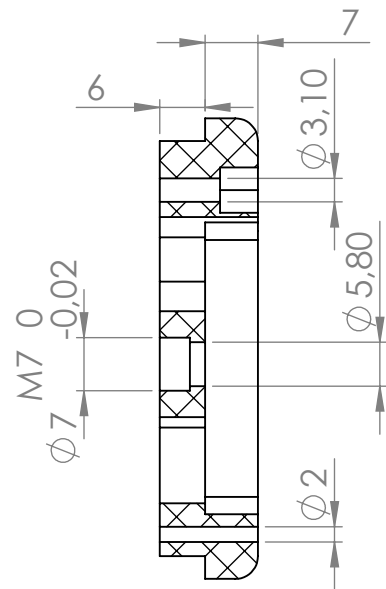
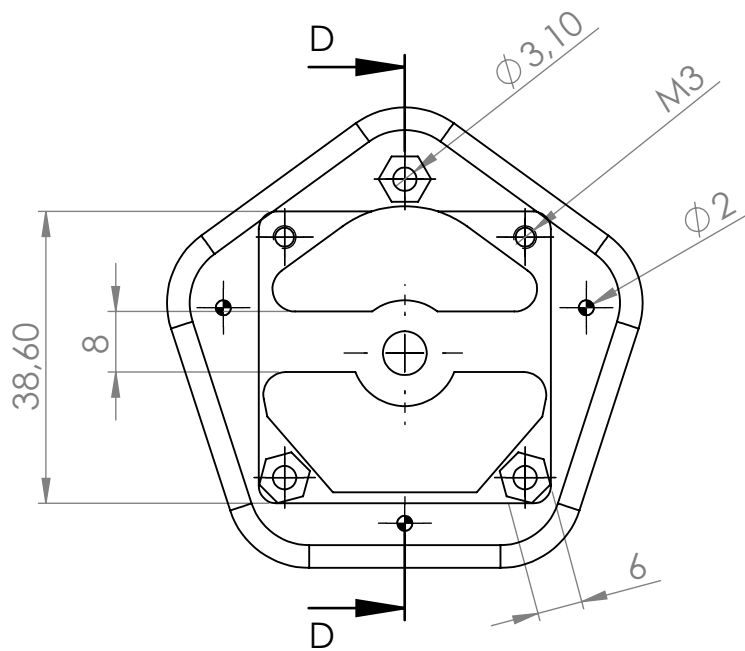
DWG NO.

drawings

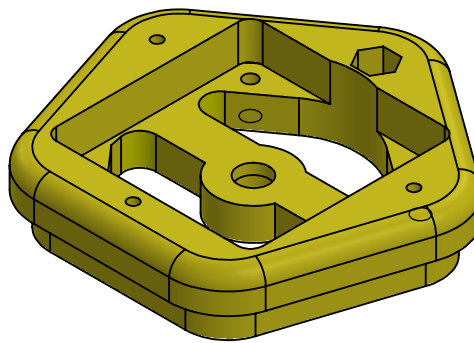
A4

SCALE:1:1

SHEET 7 OF 17



SECTION D-D  
SCALE 1 : 1



UNLESS OTHERWISE SPECIFIED:  
DIMENSIONS ARE IN MILLIMETERS  
SURFACE FINISH:  
TOLERANCES:  
LINEAR:  
ANGULAR:

FINISH:

DEBURR AND  
BREAK SHARP  
EDGES

DO NOT SCALE DRAWING

REVISION

	NAME	SIGNATURE	DATE	
DRAWN				
CHK'D				
APPV'D				
MFG				
Q.A				

MATERIAL:

WEIGHT:

TITLE:

level 1

DWG NO.

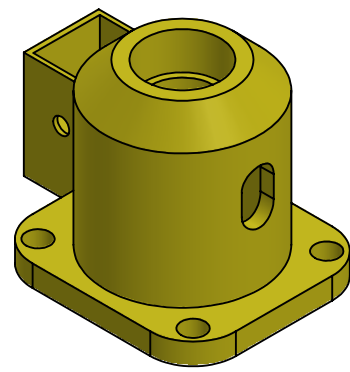
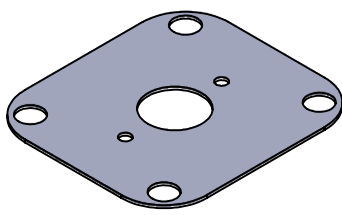
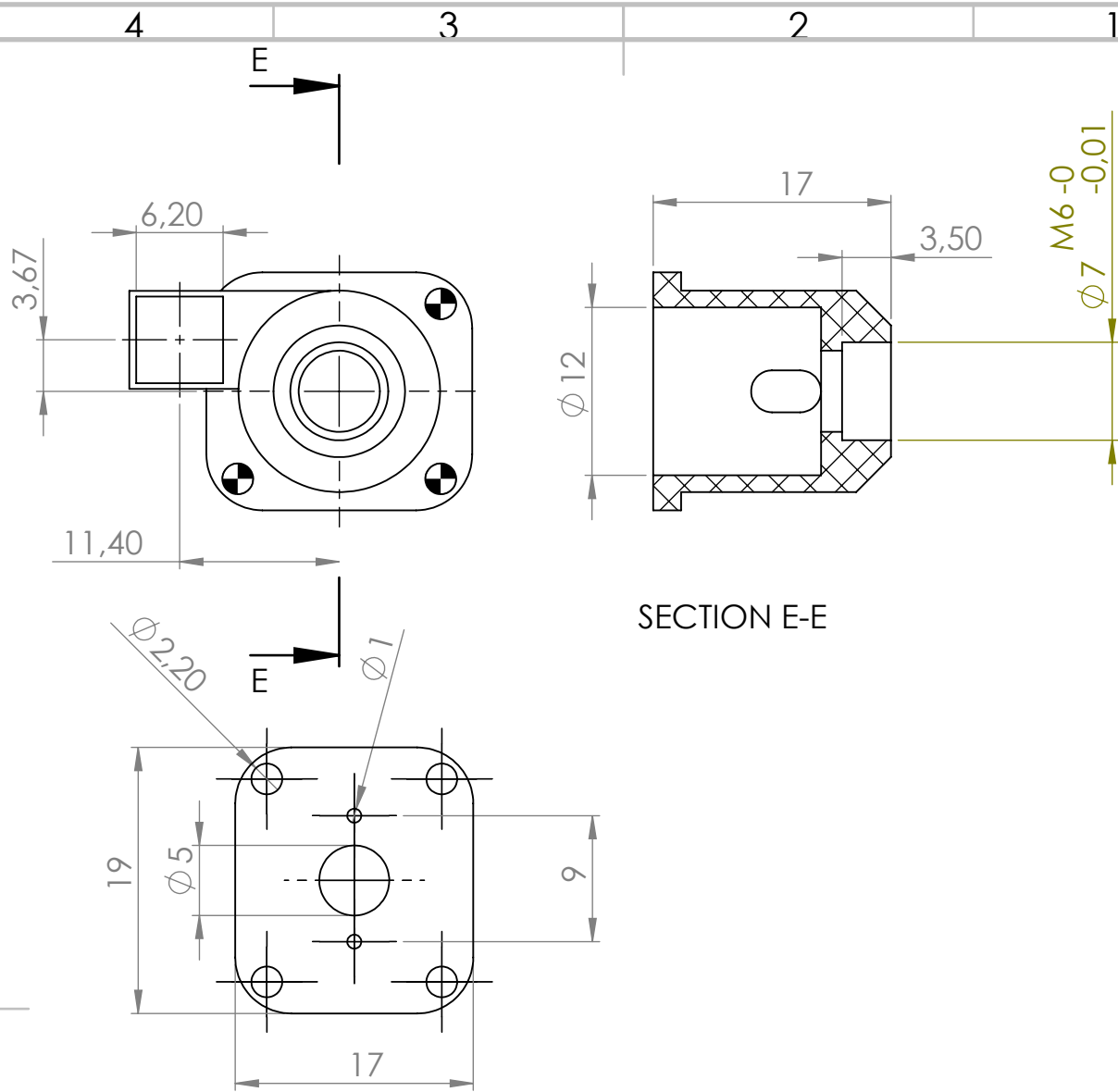
drawings

A4

SCALE:1:1

SHEET 8 OF 17





UNLESS OTHERWISE SPECIFIED:  
DIMENSIONS ARE IN MILLIMETERS  
SURFACE FINISH:  
TOLERANCES:  
LINEAR:  
ANGULAR:

FINISH:

DEBURR AND  
BREAK SHARP  
EDGES

DO NOT SCALE DRAWING

REVISION

	NAME	SIGNATURE	DATE	
DRAWN				
CHK'D				
APPV'D				
MFG				
Q.A				

MATERIAL:

WEIGHT:

TITLE: leg motor assembly drawings

DWG NO. A4

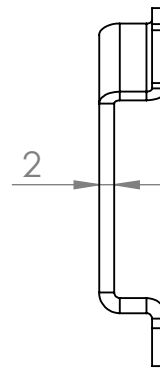
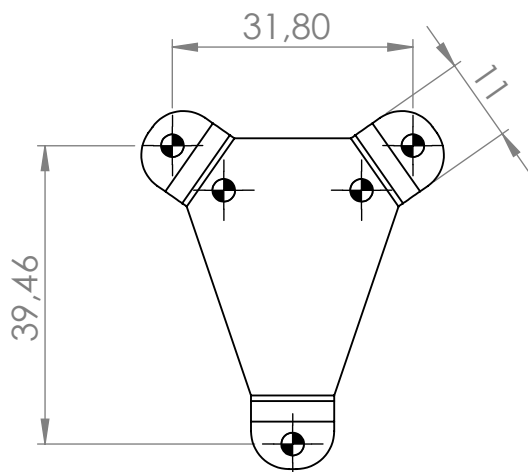
SCALE:2:1

SHEET 9 OF 17

4 3 2 1

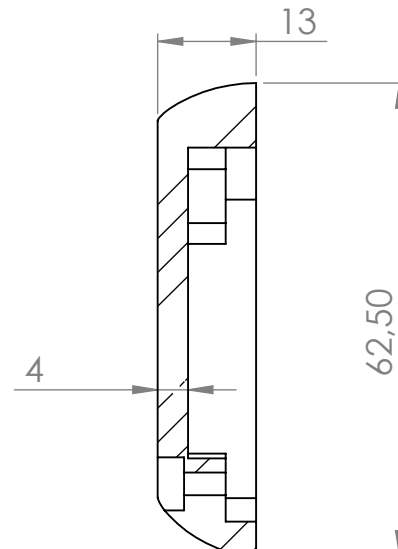
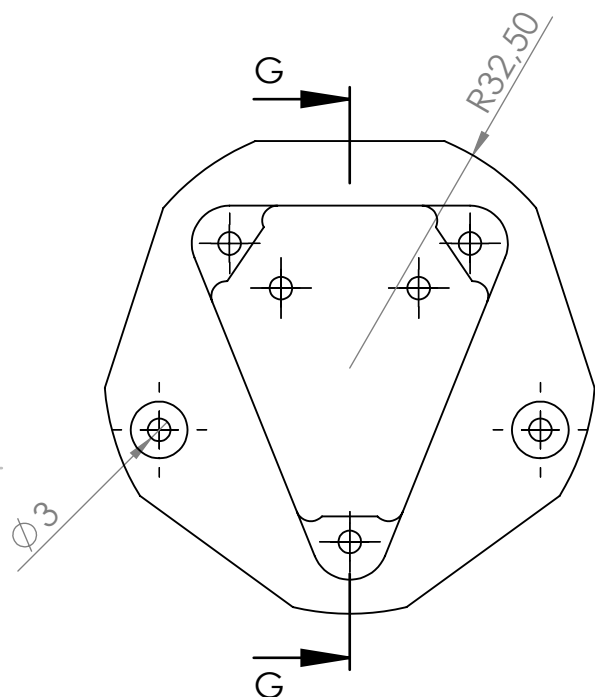
F

F



E

E



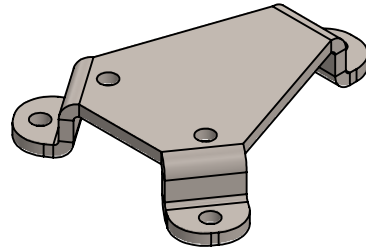
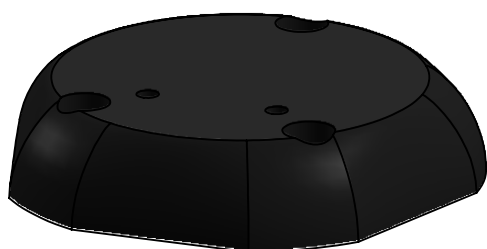
SECTION G-G

D

D

C

C



B

B

UNLESS OTHERWISE SPECIFIED:  
DIMENSIONS ARE IN MILLIMETERS  
SURFACE FINISH:  
TOLERANCES:  
LINEAR:  
ANGULAR:

FINISH:

DEBURR AND  
BREAK SHARP  
EDGES

DO NOT SCALE DRAWING

REVISION

	NAME	SIGNATURE	DATE		
DRAWN					
CHK'D					
APPV'D					
MFG					
Q.A					

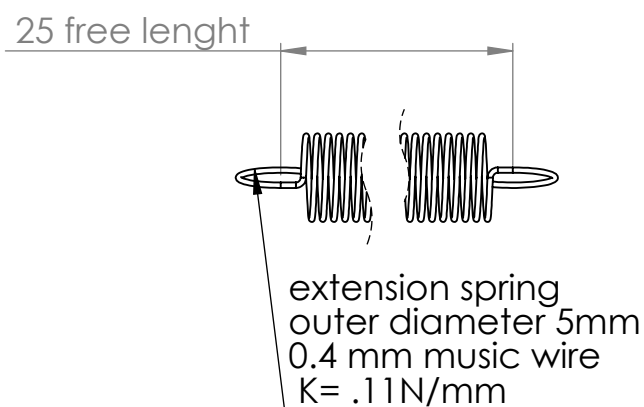
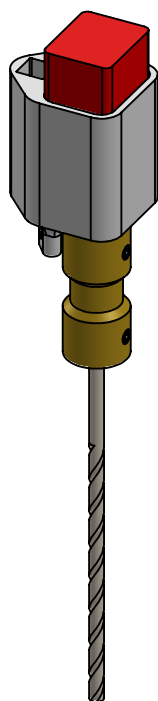
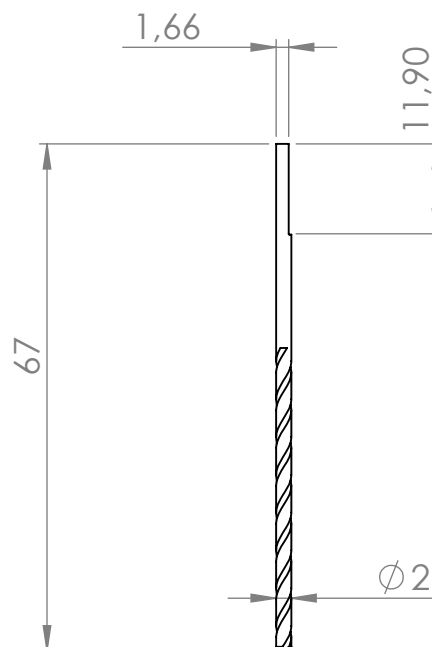
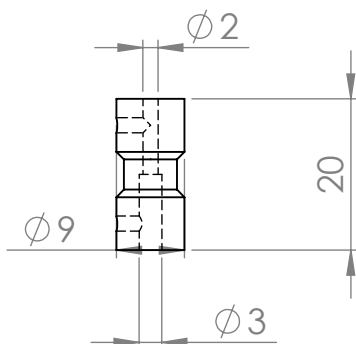
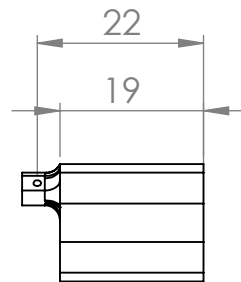
TITLE:		landing system	
DWG NO.		drawings	
SCALE:1:1		SHEET 10 OF 17	

A4

A

A

4 3 2 1

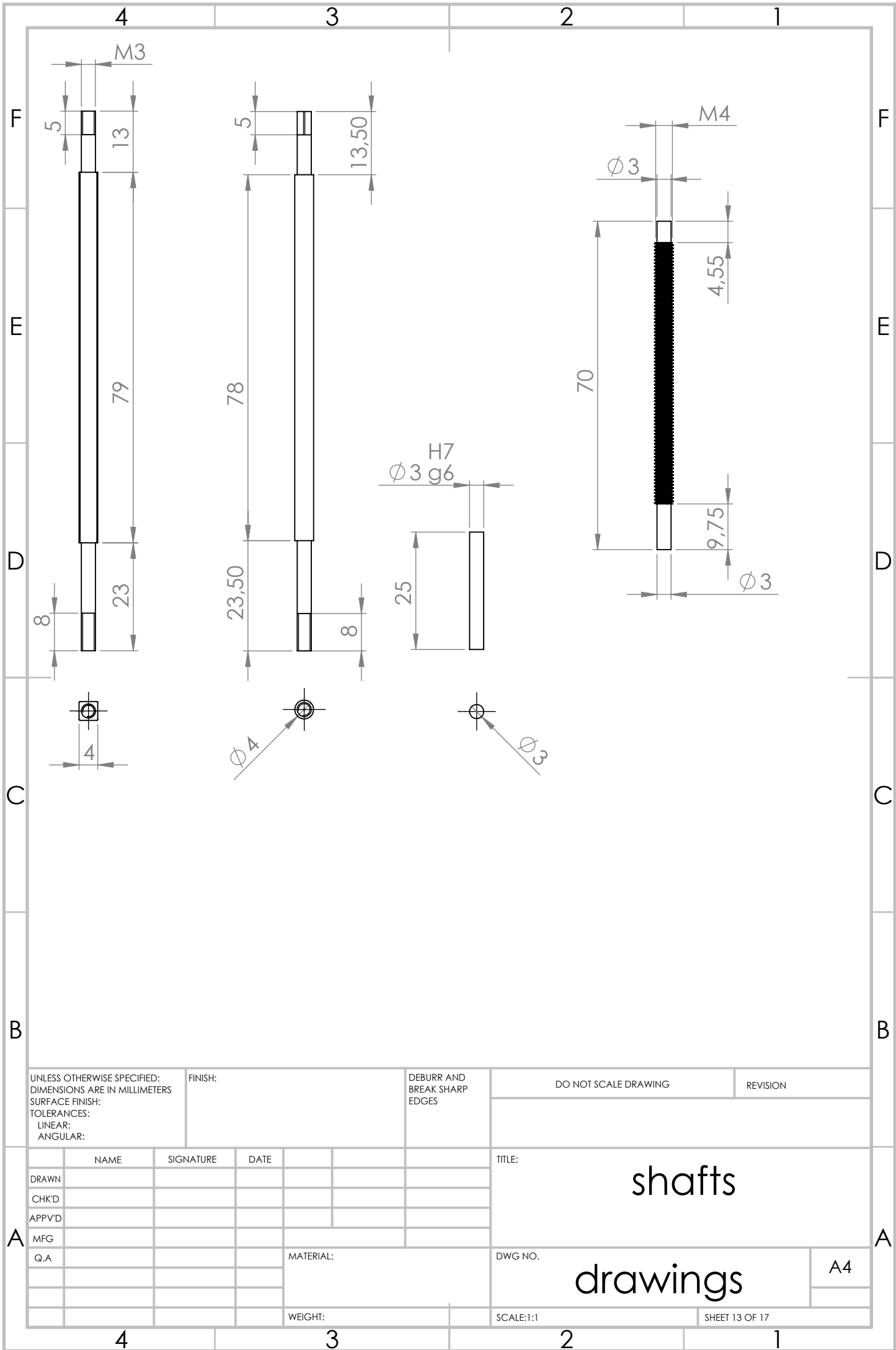


REVISION

SHEET 11 OF 17

WEIGHT:





UNLESS OTHERWISE SPECIFIED:  
DIMENSIONS ARE IN MILLIMETERS  
SURFACE FINISH:  
TOLERANCES:  
LINEAR:  
ANGULAR:

FINISH:

DEBURR AND  
BREAK SHARP  
EDGES

DO NOT SCALE DRAWING

REVISION

	NAME	SIGNATURE	DATE		
DRAWN					
CHK'D					
APPV'D					
MFG					
Q.A					

MATERIAL:

WEIGHT:

TITLE:

shafts

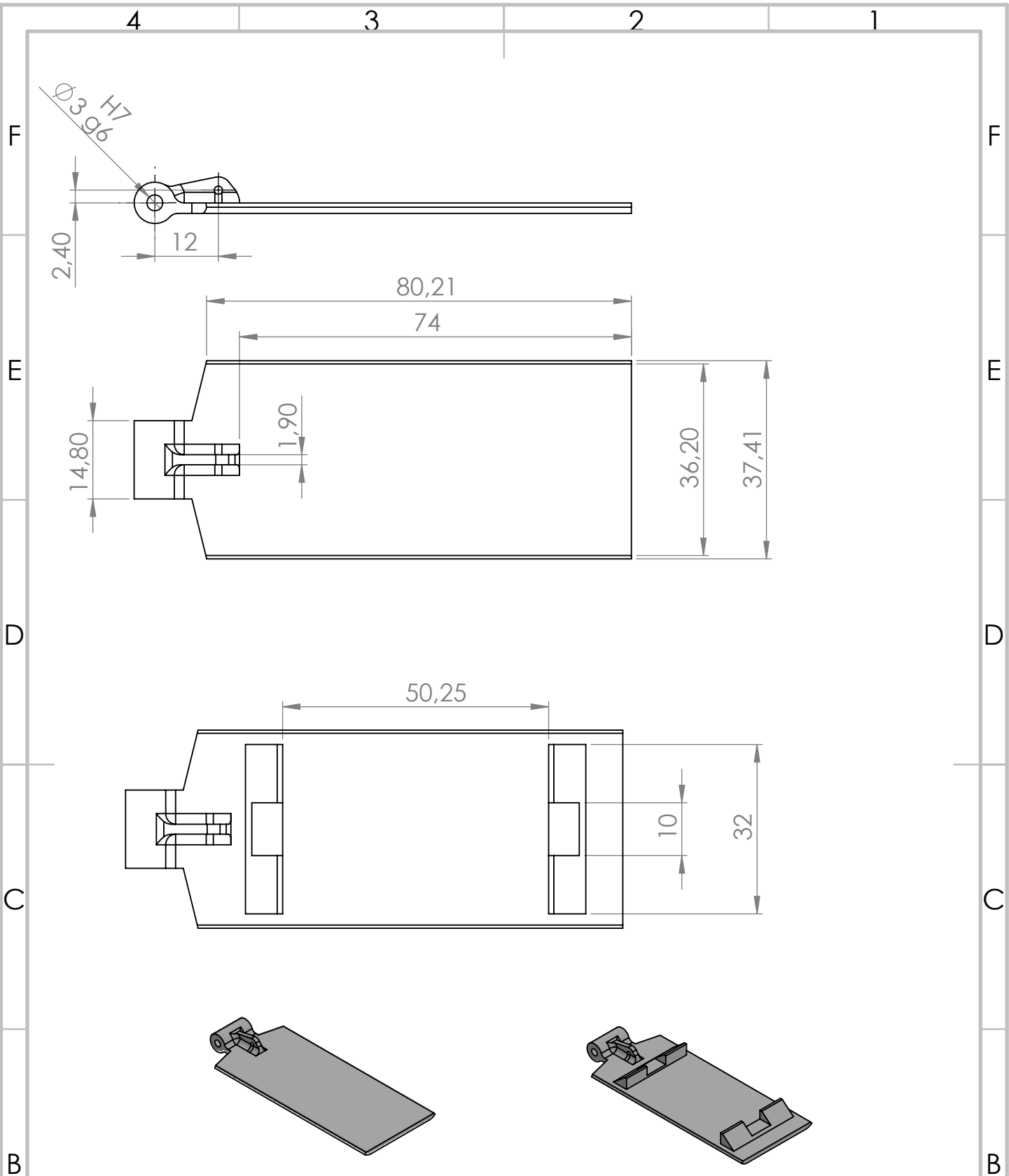
DWG NO.

drawings

A4

SCALE:1:1

SHEET 13 OF 17



UNLESS OTHERWISE SPECIFIED:  
DIMENSIONS ARE IN MILLIMETERS  
SURFACE FINISH:  
TOLERANCES:  
    LINEAR:  
    ANGULAR:

**FINISH:**

DEBURR AND  
BREAK SHARP  
EDGES

DO NOT SCALE DRAWING

REVISION

TITLE:

legs

DWG NO.

drawings

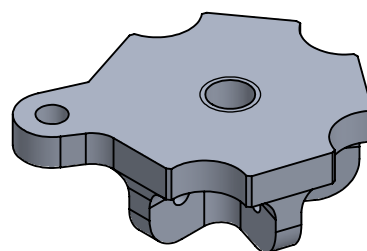
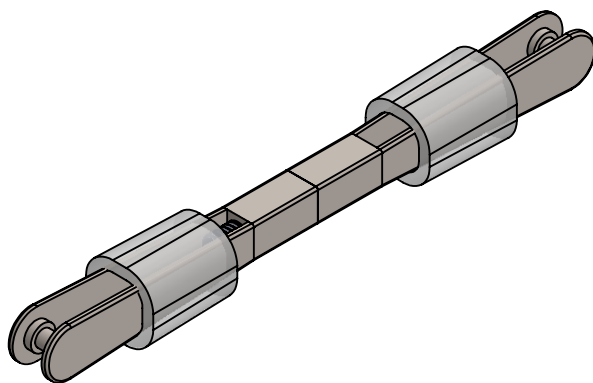
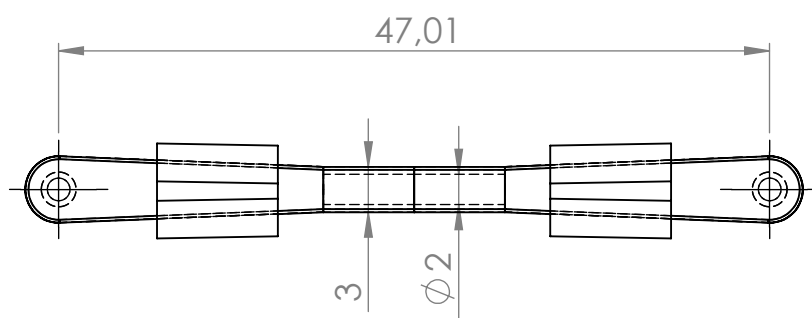
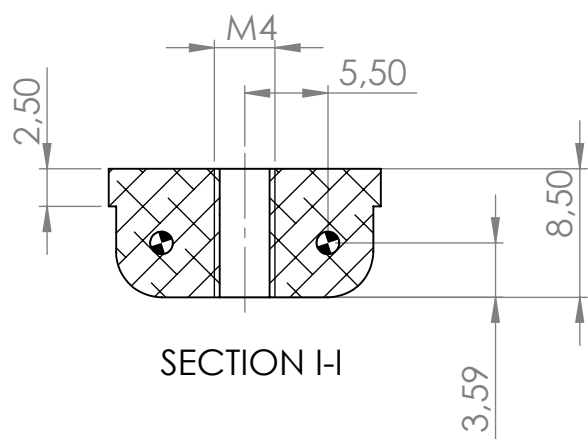
A4

**MATERIAL:**

WEIGHT:

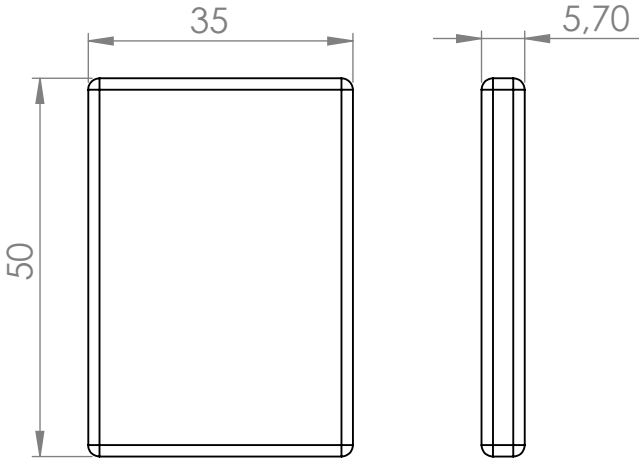
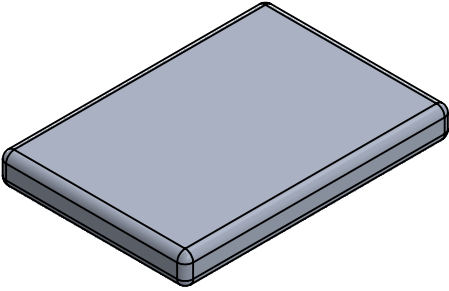
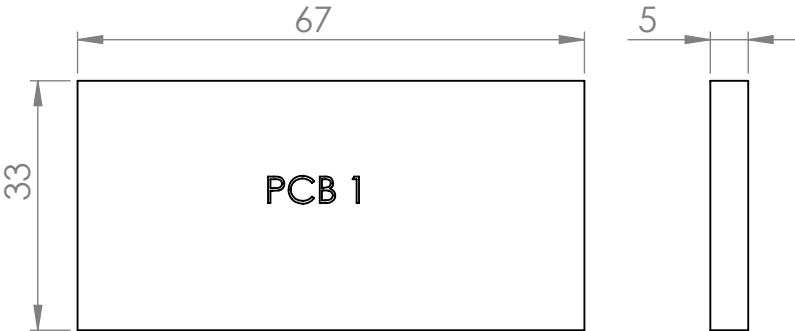
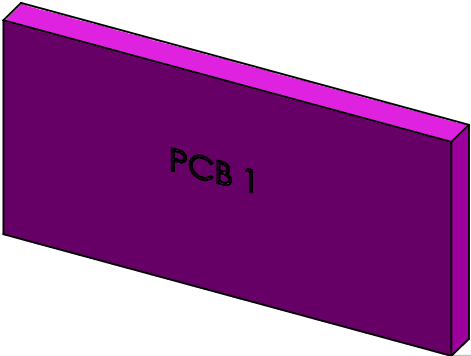
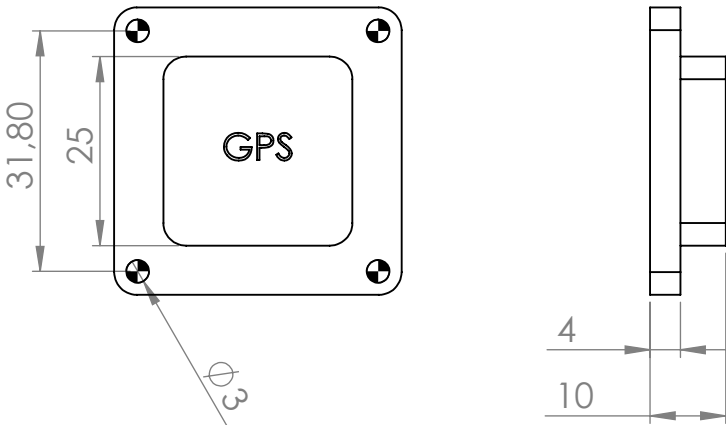
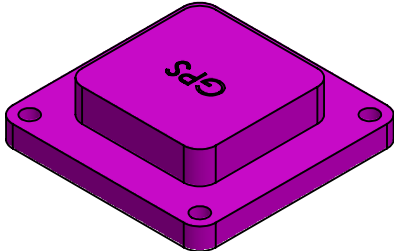
SCALE:1:1

SHEET 14 OF 17

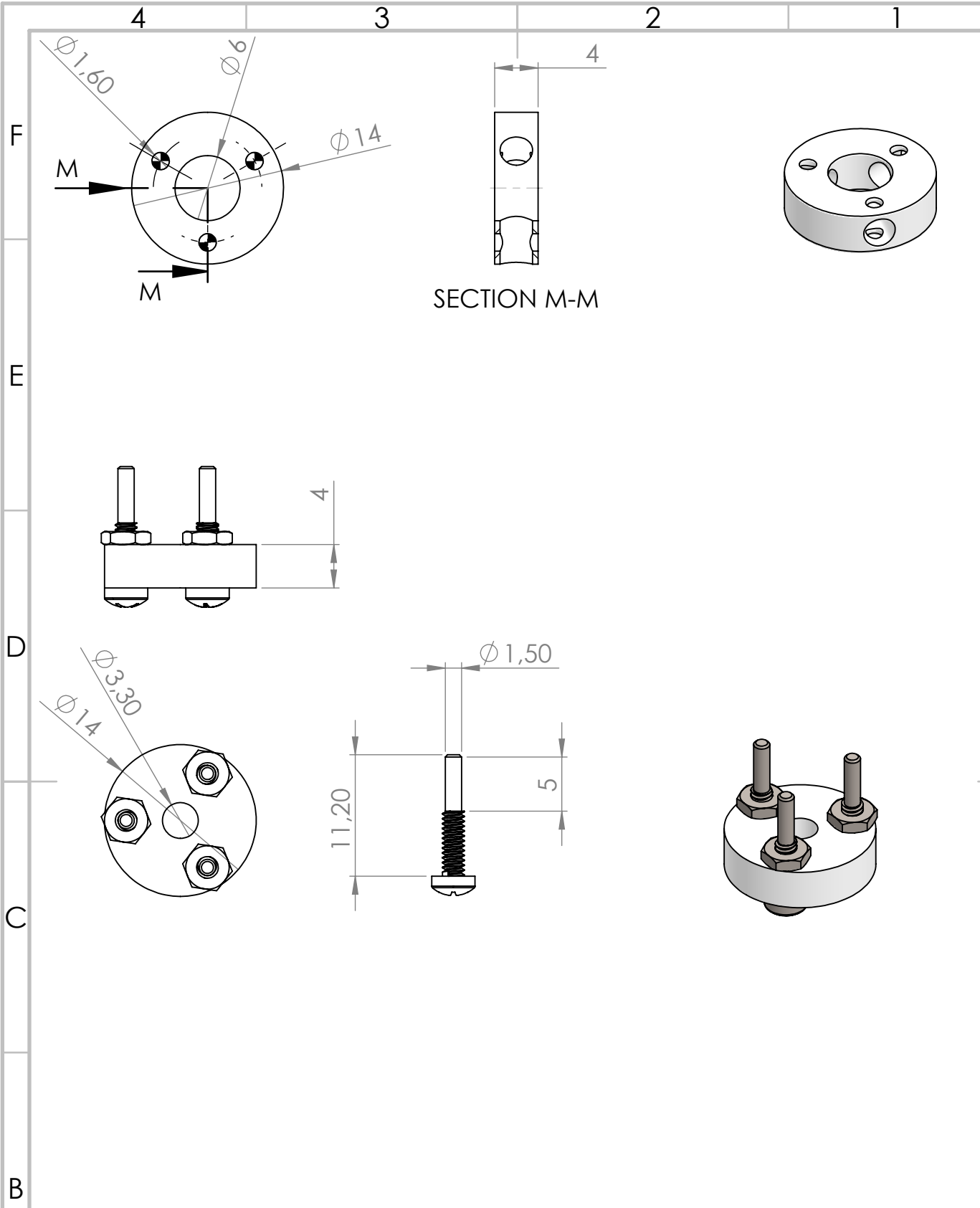


REVISION

SHEET 15 OF 17

	4	3	2	1	
F					F
E					E
D					D
C					C
B					B
A					A
UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN MILLIMETERS SURFACE FINISH: TOLERANCES: LINEAR: ANGULAR:		FINISH:		DEBURR AND BREAK SHARP EDGES	
DO NOT SCALE DRAWING		REVISION			
TITLE:  electronics					
DWG NO.  drawings		MATERIAL:		A4	
SCALE:1:1		WEIGHT:		SHEET 16 OF 17	





UNLESS OTHERWISE SPECIFIED:  
DIMENSIONS ARE IN MILLIMETERS  
SURFACE FINISH:  
TOLERANCES:  
LINEAR:  
ANGULAR:

FINISH:

DEBURR AND  
BREAK SHARP  
EDGES

DO NOT SCALE DRAWING

REVISION

	NAME	SIGNATURE	DATE		
DRAWN					
CHK'D					
APPV'D					
MFG					
Q.A					

MATERIAL:

WEIGHT:

TITLE:

parachute  
mount/release

DWG NO.

drawings

A4

SCALE:2:1

SHEET 17 OF 17