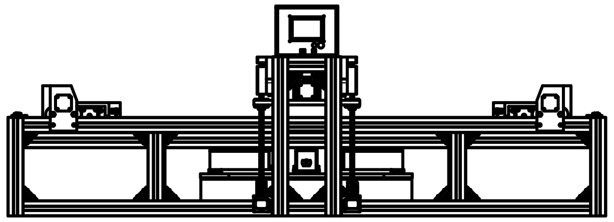
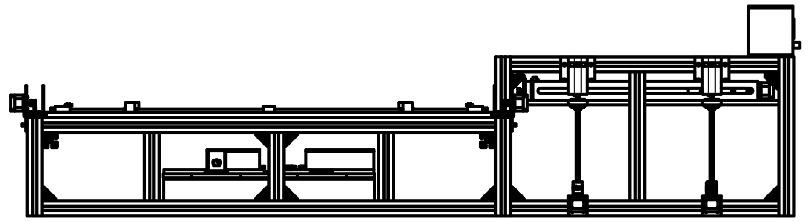
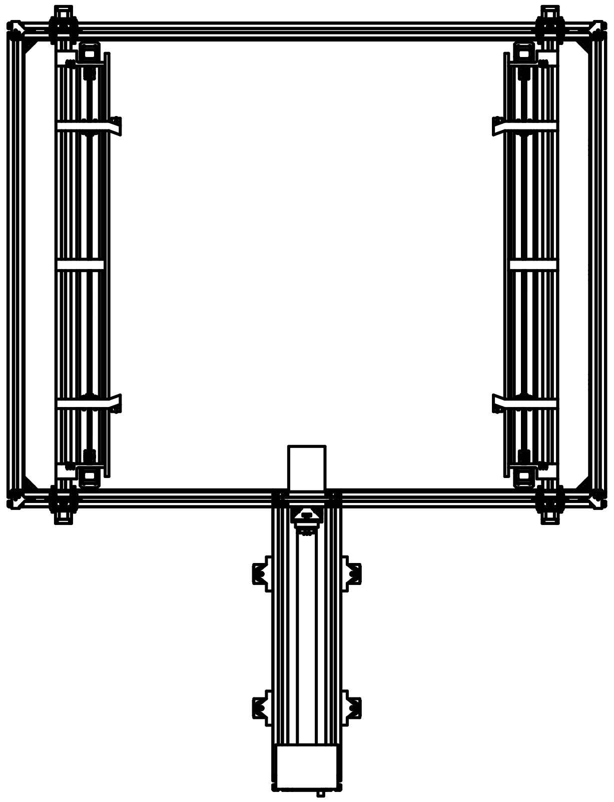
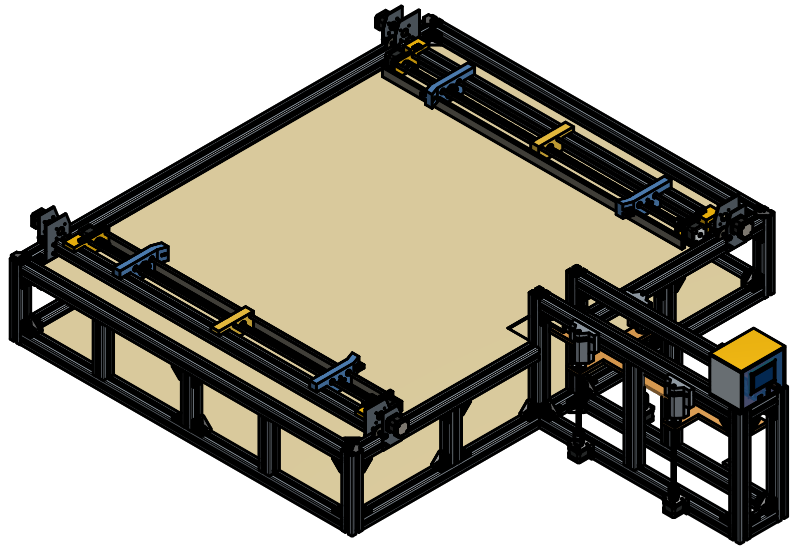








	Units
Nema 17	14
calibrated cylinder Rail Shaft of 8mm	14 Meters
Radial Ball Bearing 608RS	4
Linear bearing WD LM8UU	8
Brass T8 Screw Nut For 8 mm	6
Threaded rod m8	7 Meters
Flexible Couplings 5mm to 8mm	10
Toothed belt	5 Meters
Arduino / Mega 2560	1
RAMPS 1.4	1
Driver A4988	14
LCD 12864	1
Micro Switch	14
IR Infrared Obstacle Avoidance Sensor Module	5

FDA 641 DESIGNS

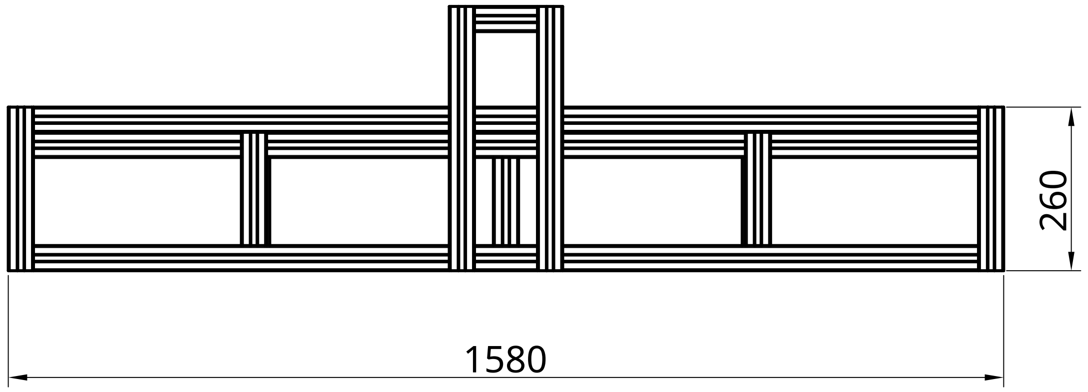
	NAME	SIGNATURE	DATE
DRAWN	DUASO. F		2018-04-13
CHECKED			
APPROVED	DAVID CANAS		

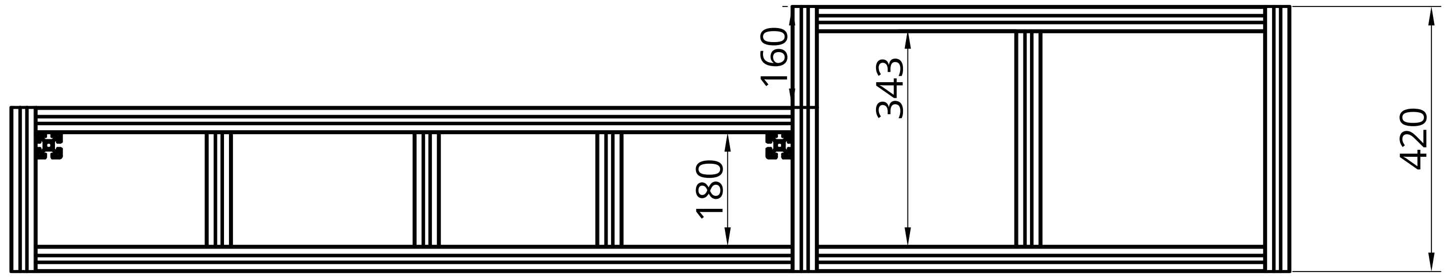
TITLE Drone Supercharger

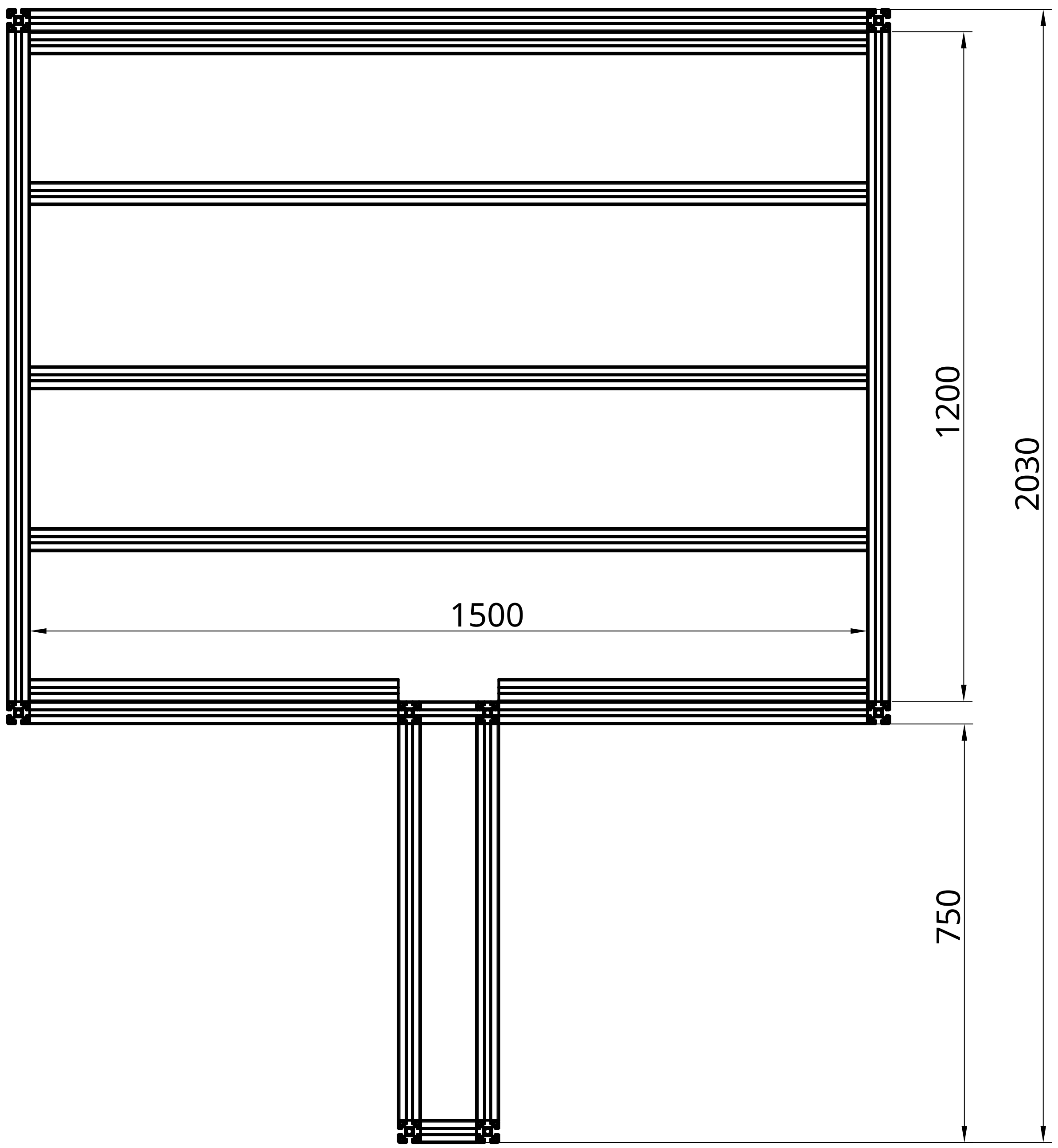
SIZE A3

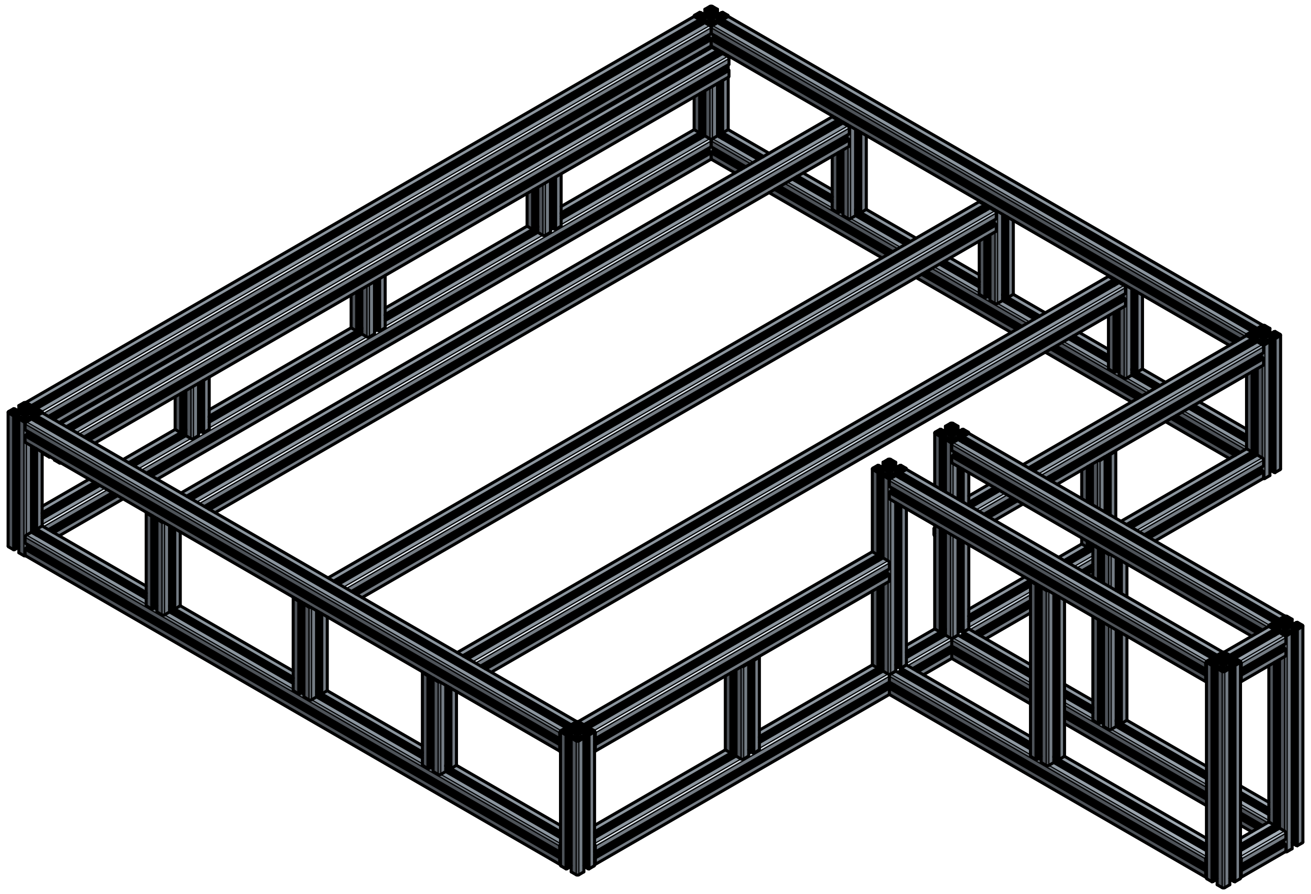
DWG NO. ----

SCALE 1:20

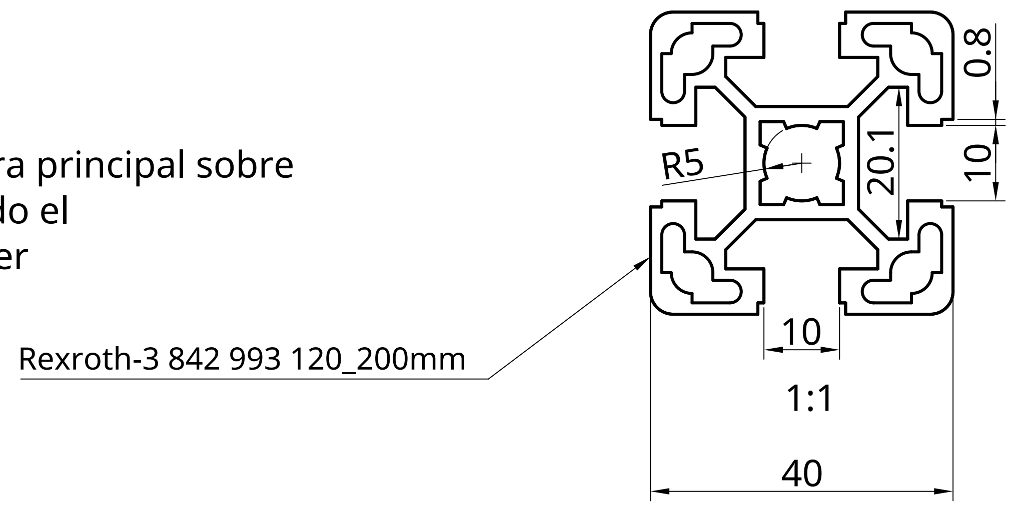




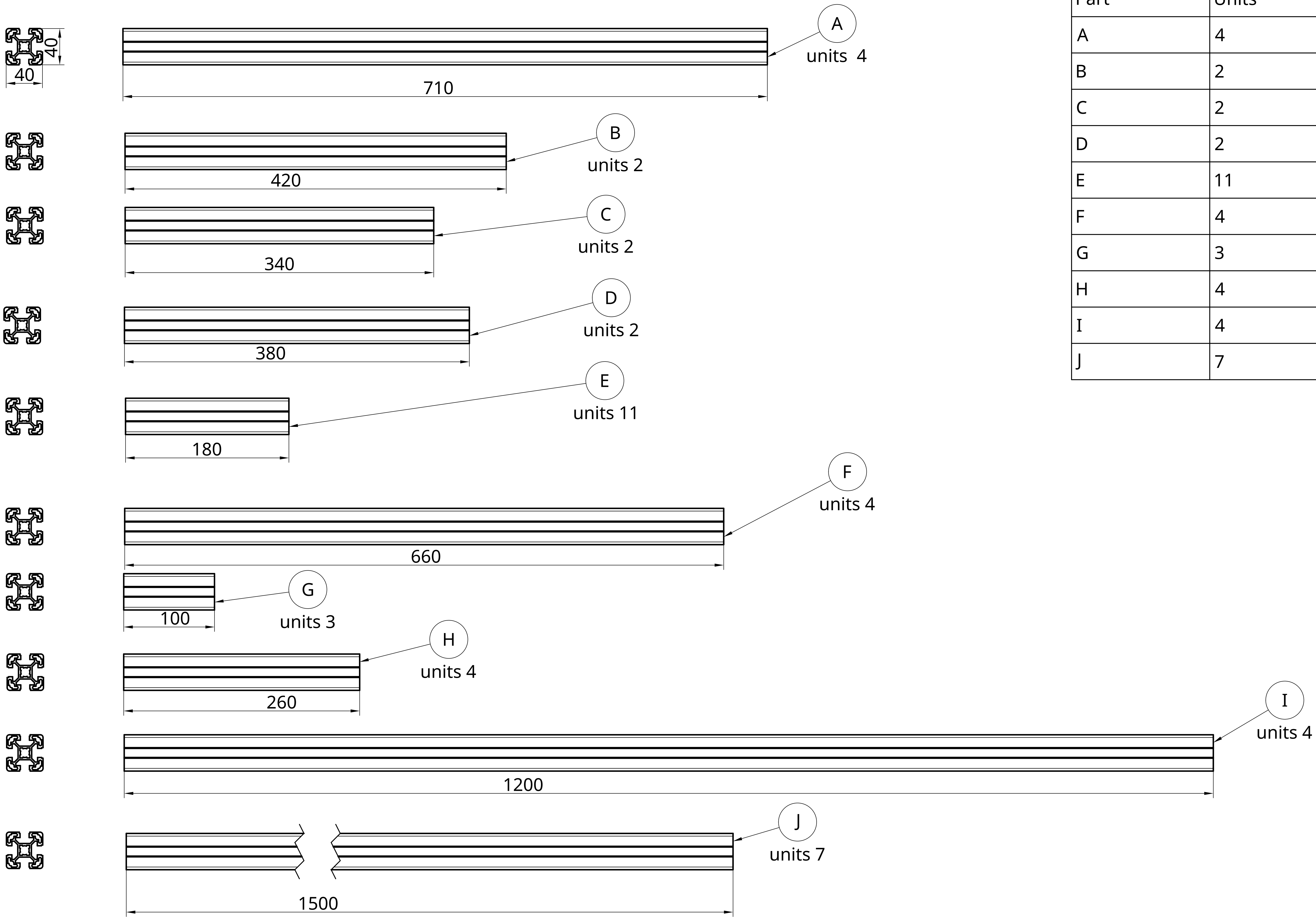




Esta es la estructura principal sobre la que irá montando el drone-supercharger

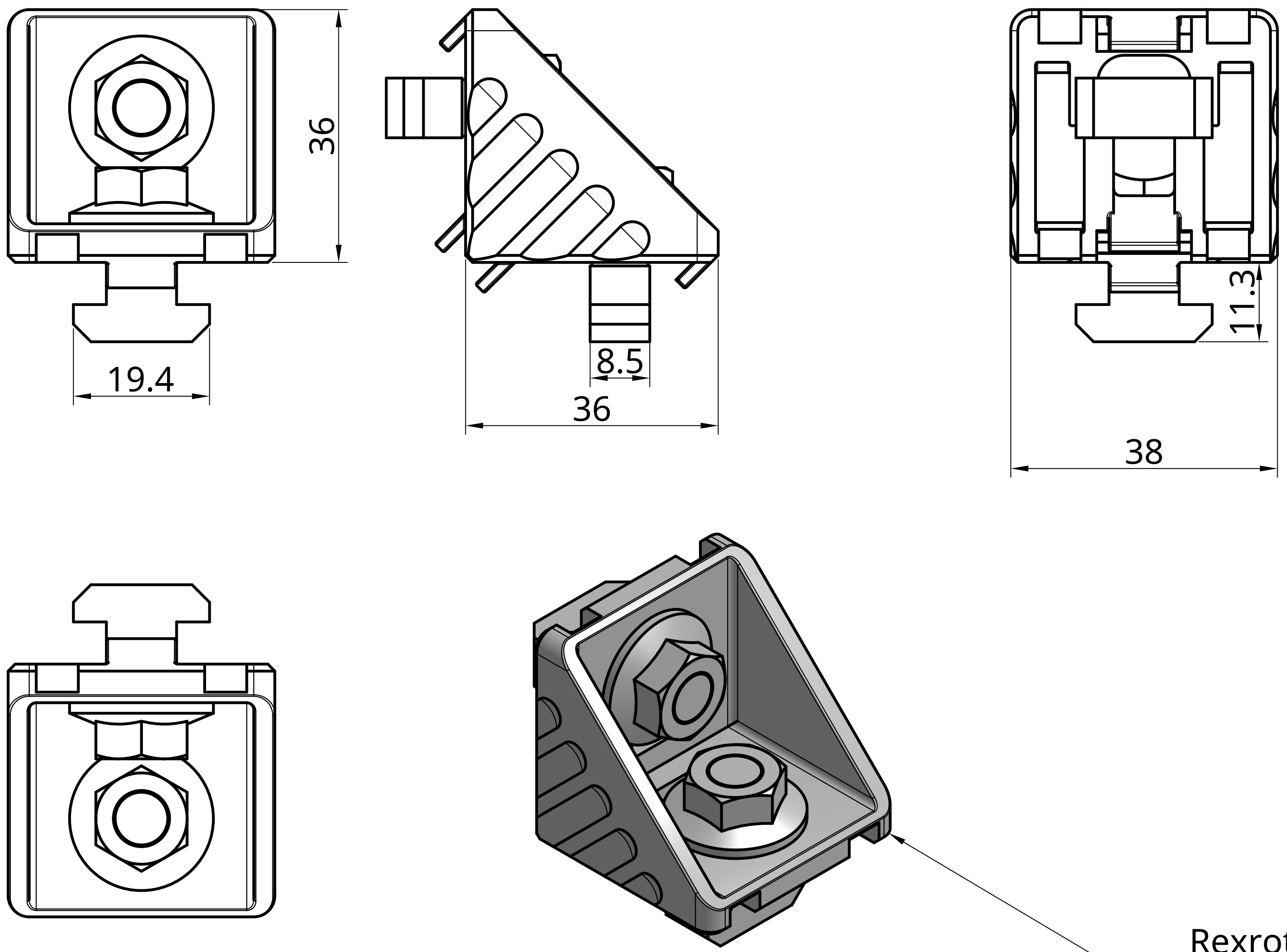


DWG NO.	SIZE	SCALE	SHEET	REV.
Frame	A3	1:12	2 of 29	-



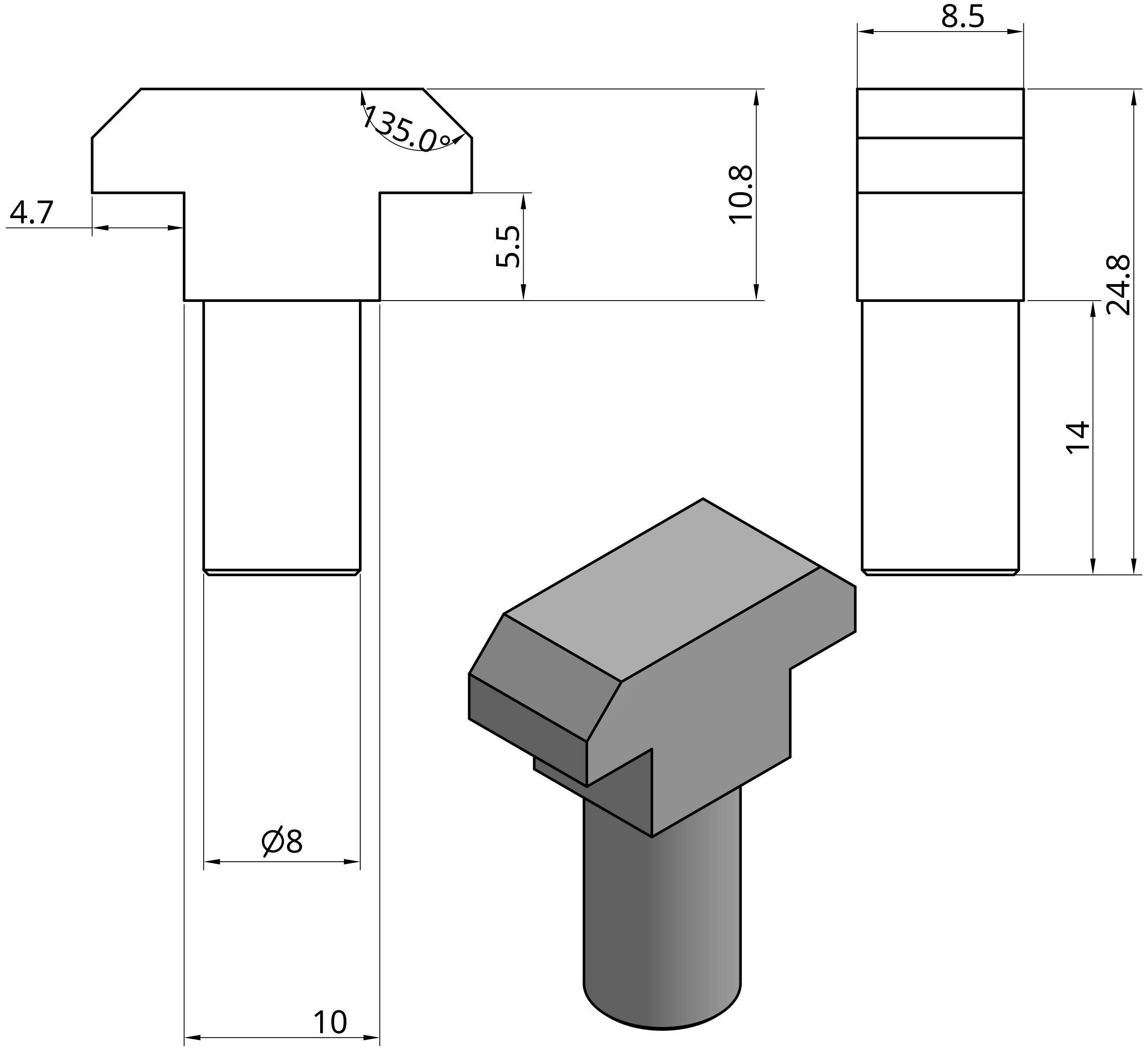
Part	Units	Dimensions
A	4	710 mm
B	2	420 mm
C	2	340 mm
D	2	380 mm
E	11	180 mm
F	4	660 mm
G	3	100 mm
H	4	260 mm
I	4	1200 mm
J	7	1500 mm

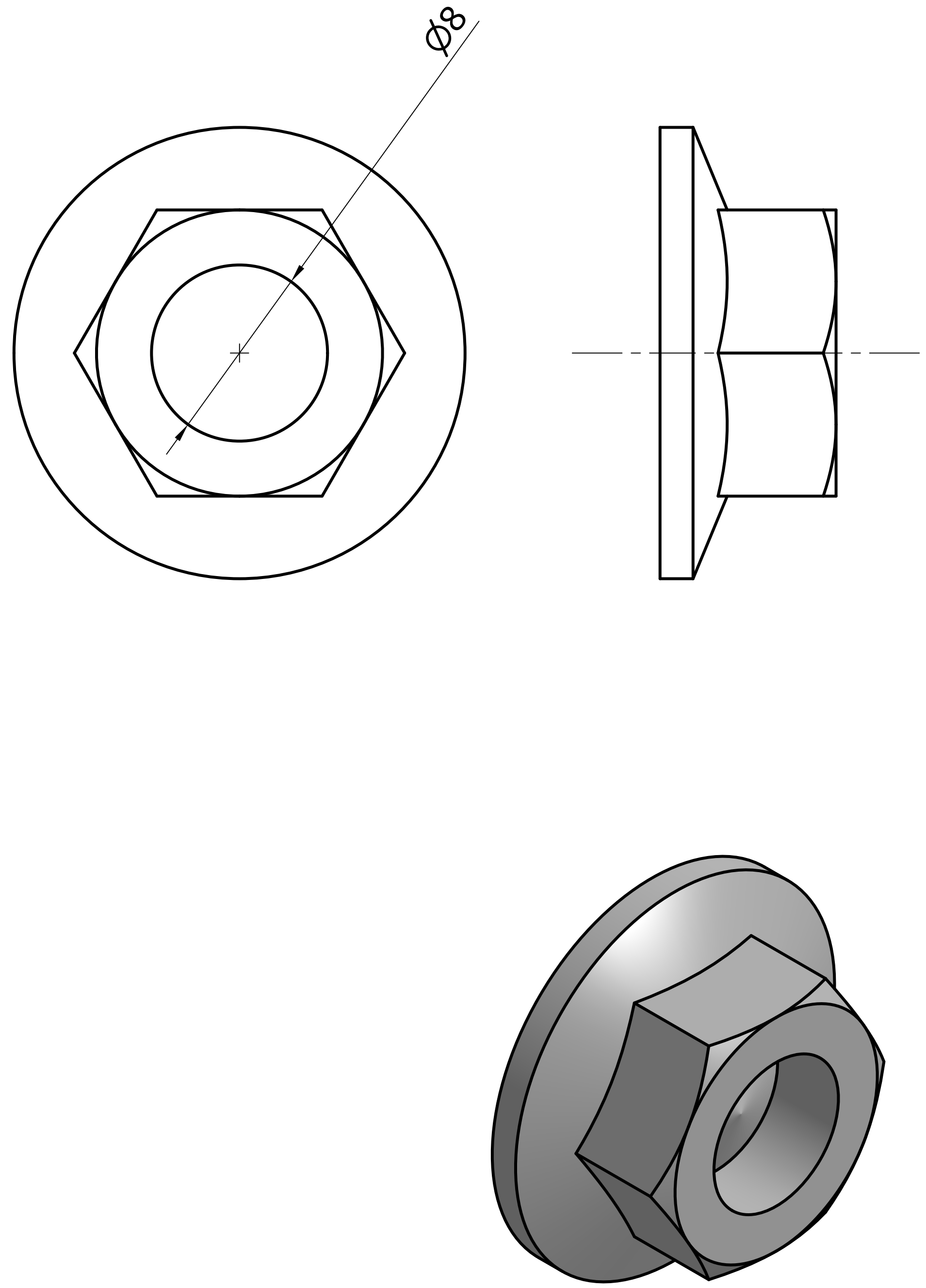
DWG NO.	SIZE	SCALE	SHEET	REV.
BOM Slot profiles BOSCH	A3	1:4	3 of 29	-



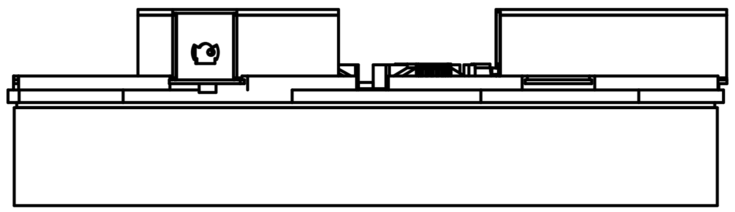
Rexroth-3 842 528 383
bosch Part Number/Name: 3842529005

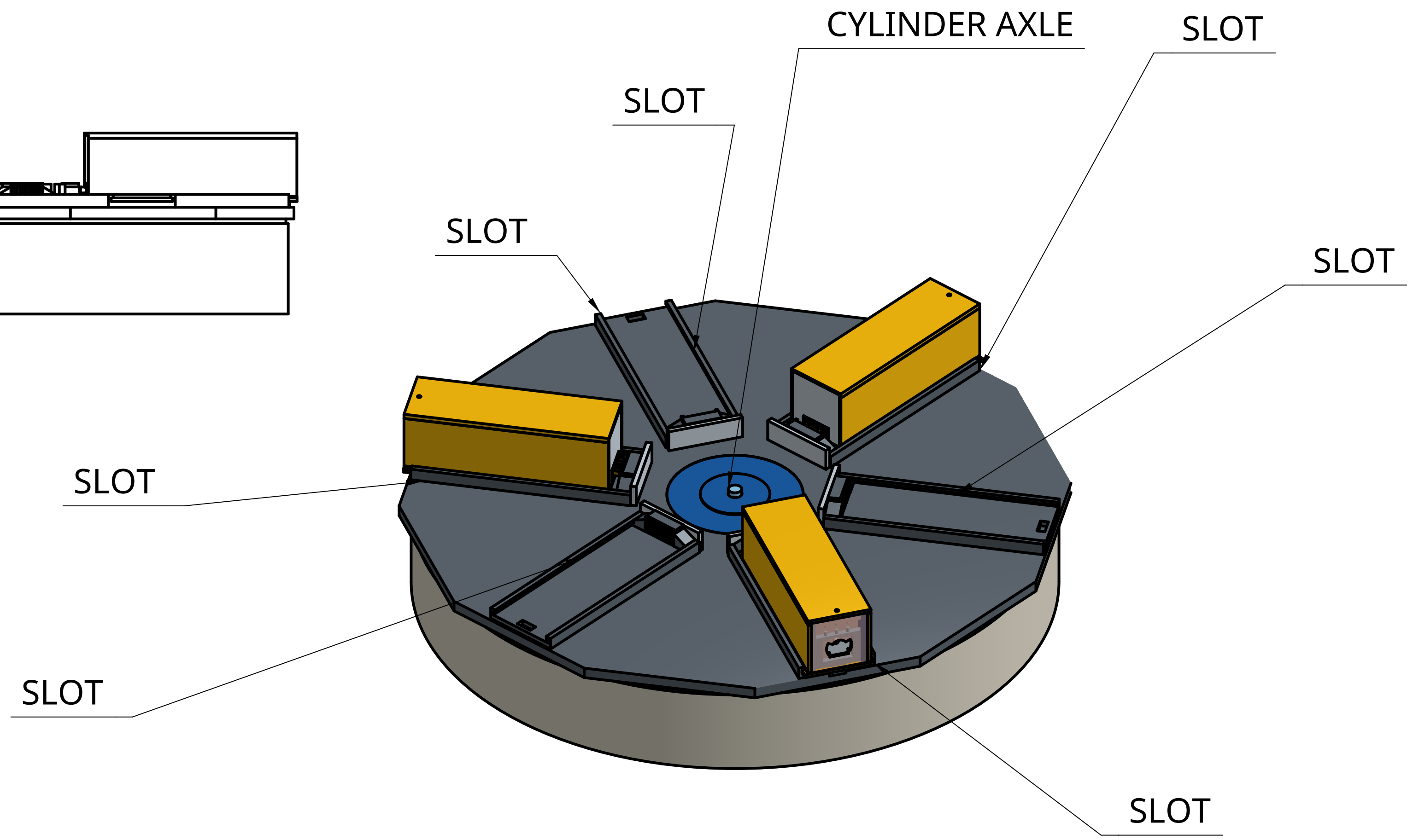
DWG NO.	SIZE	SCALE	SHEET	REV.
IN THE SLOT	A3	1:1	4 of 29	-

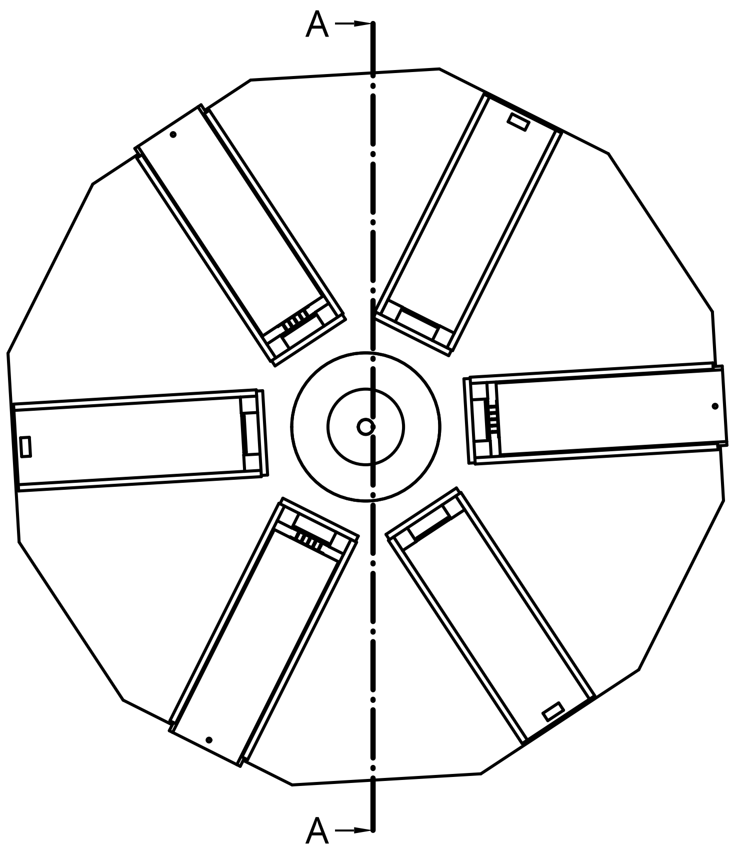


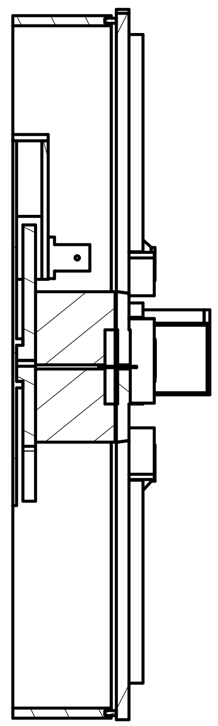


DWG NO.	SIZE	SCALE	SHEET	REV.
IN THE SLOT	A3	3:1	5 of 29	-





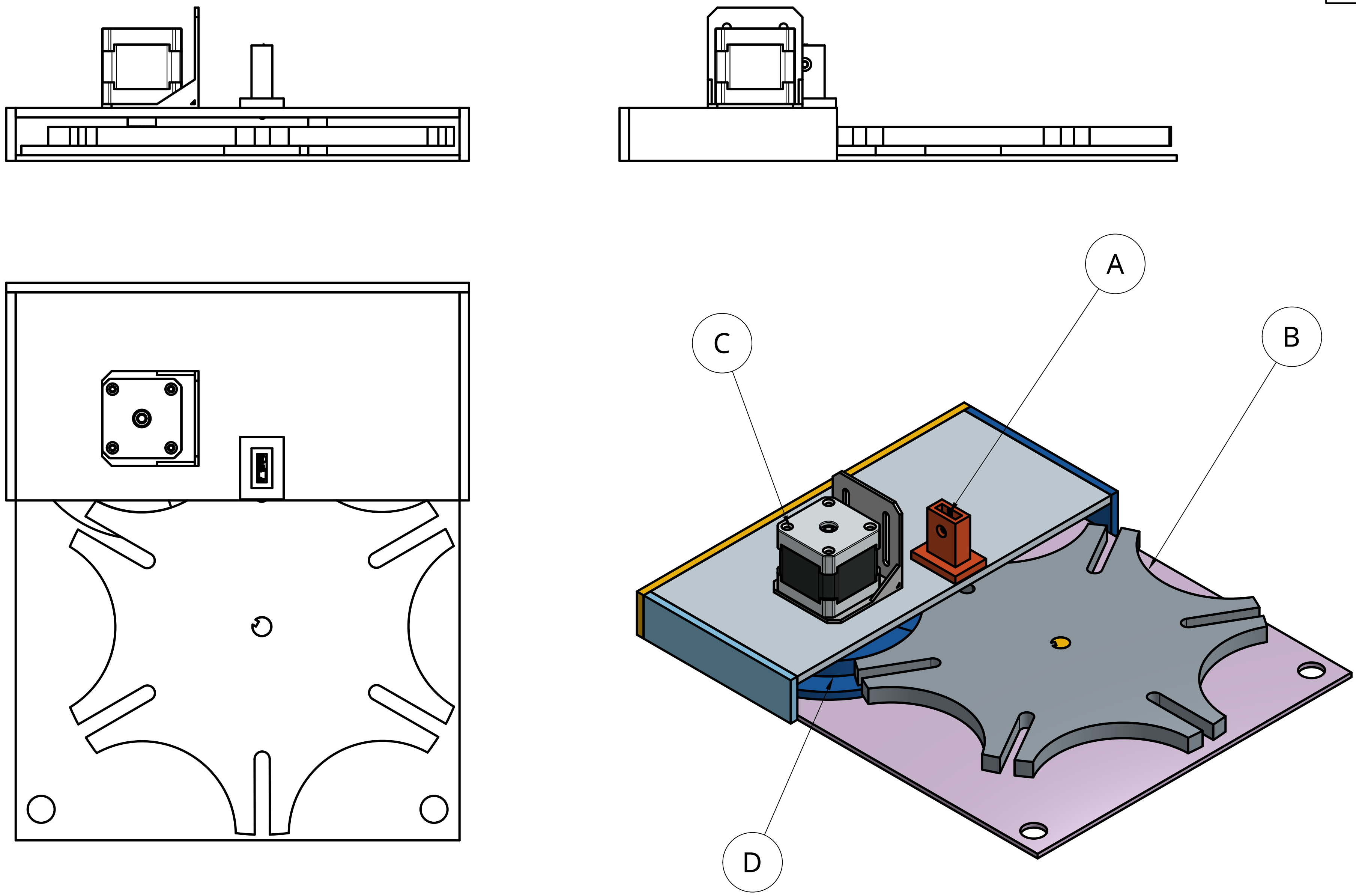




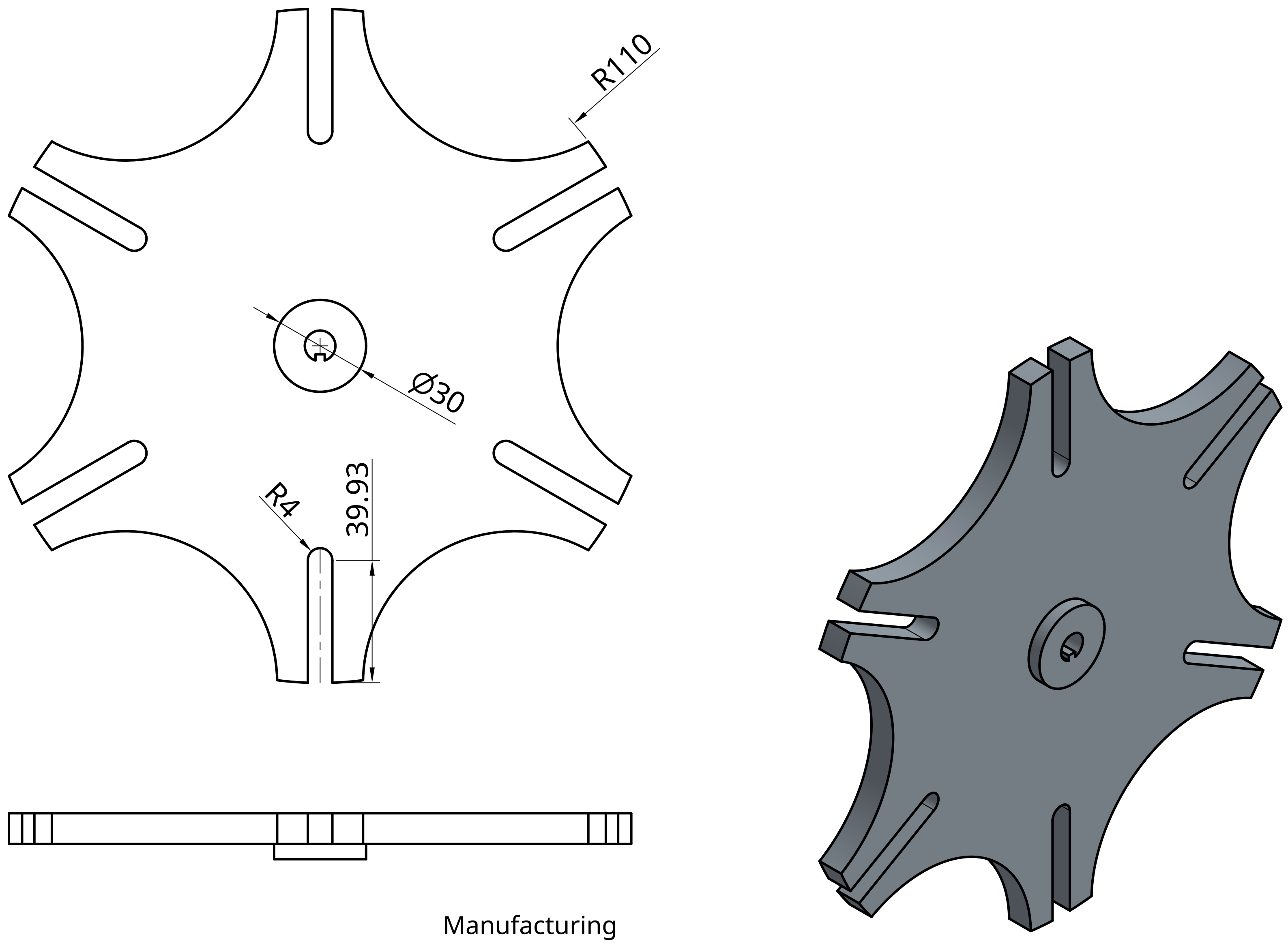
A - A

DWG NO.	SIZE	SCALE	SHEET	REV.
Cylinder	A3	1:6	6 of 29	-

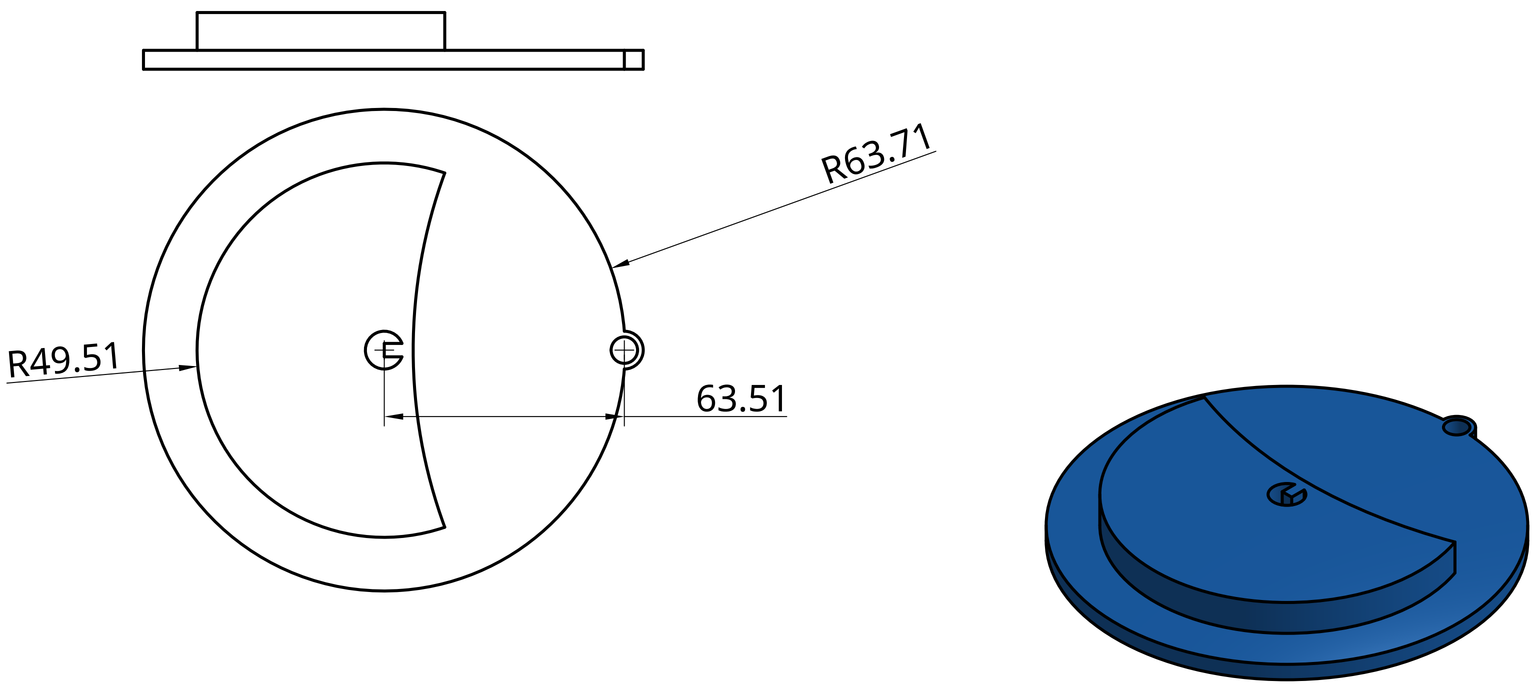
A	SENSOR DE POSICIÓN
B	
C	NEMA TO MOVI
D	



DWG NO.	SIZE	SCALE	SHEET	REV.
GENEVA DRIVE	A3	1:3	7 of 29	-

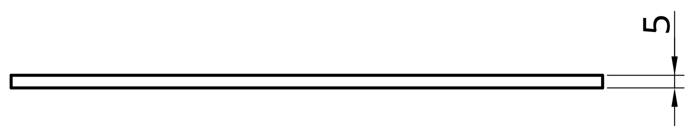


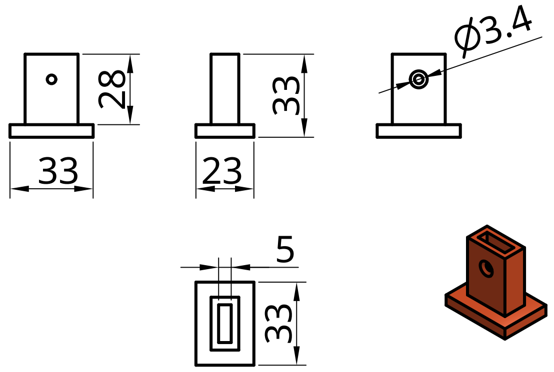
Manufacturing
Printing 3d



Manufacturing
Printing 3d

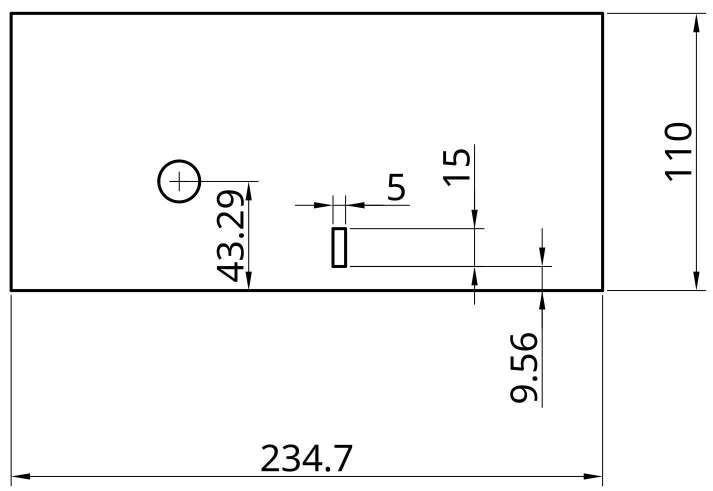
DWG NO.	SIZE	SCALE	SHEET	REV.
PART (1) GENEVA DRIVE	A3	1:2	8 of 29	-

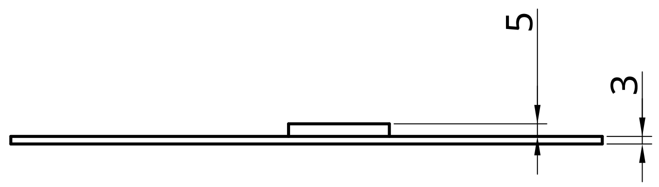


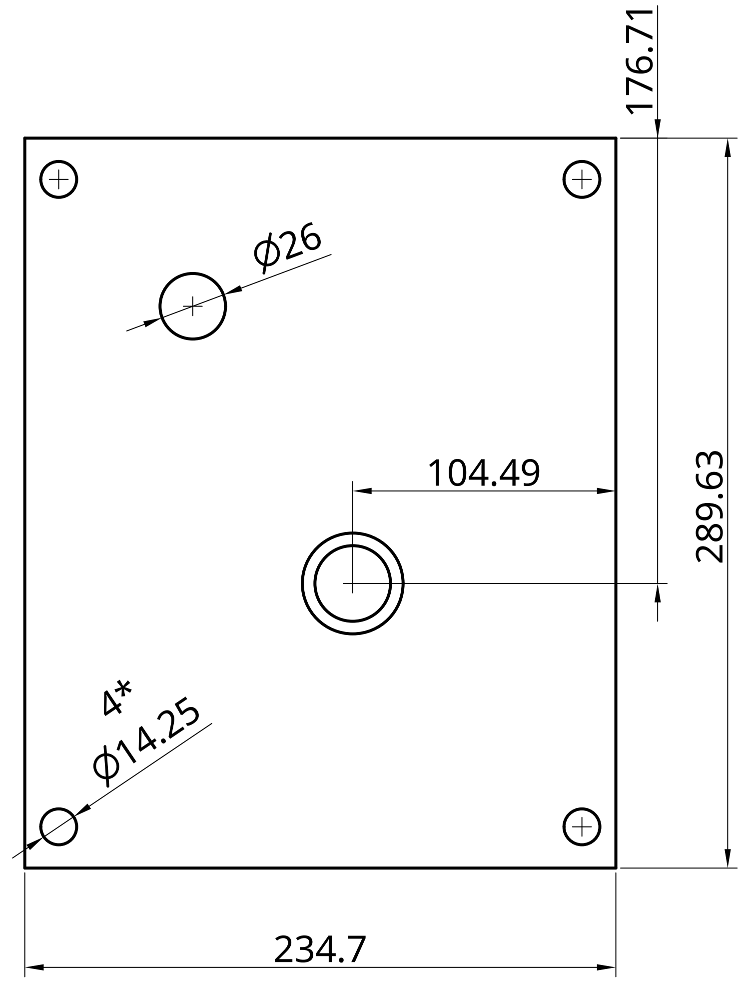


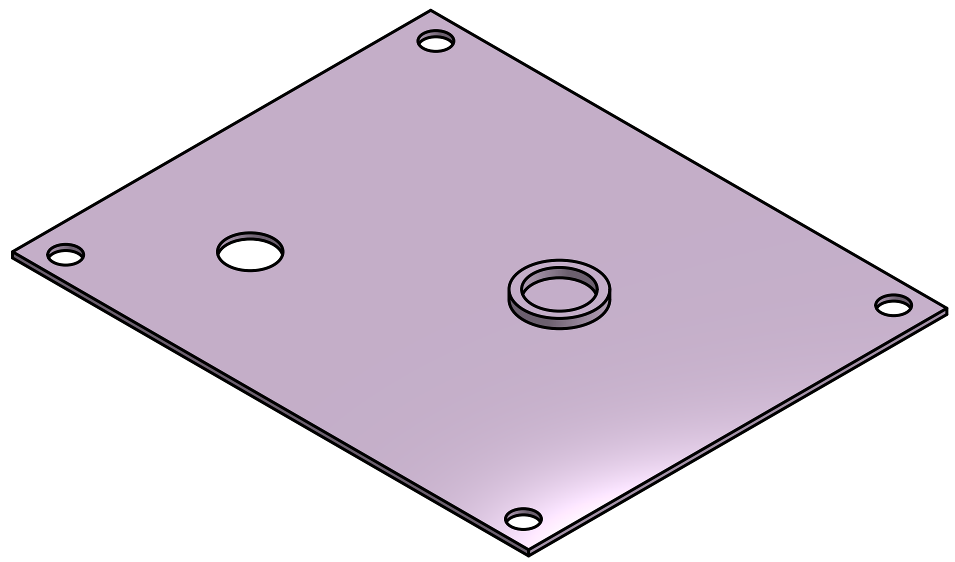
Manufacturing
Printing 3d

Manufacturing
Printing 3d









Manufacturing
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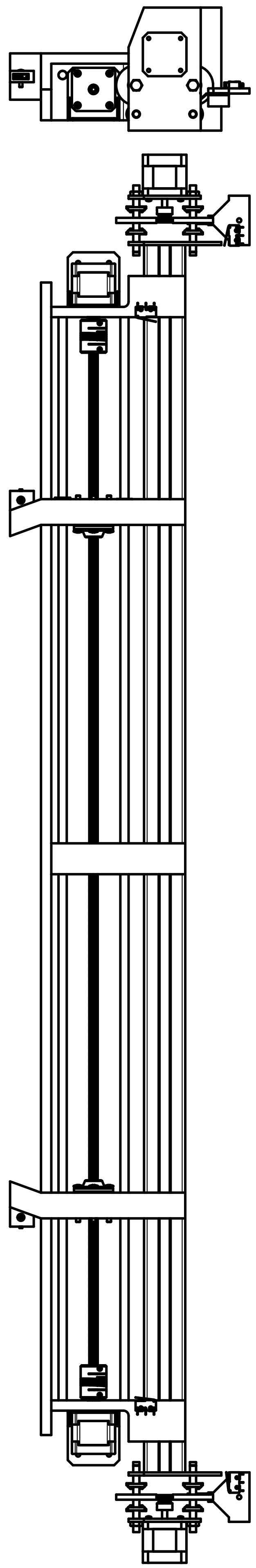
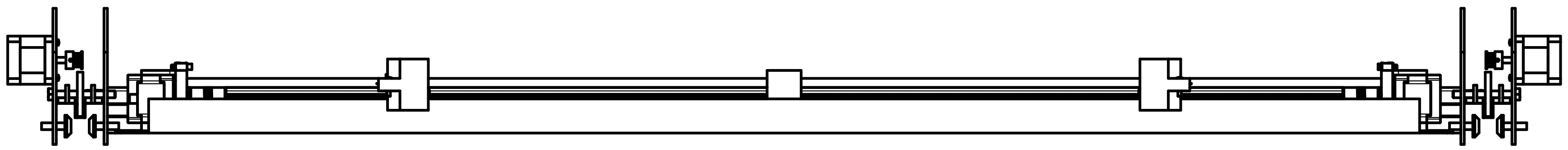
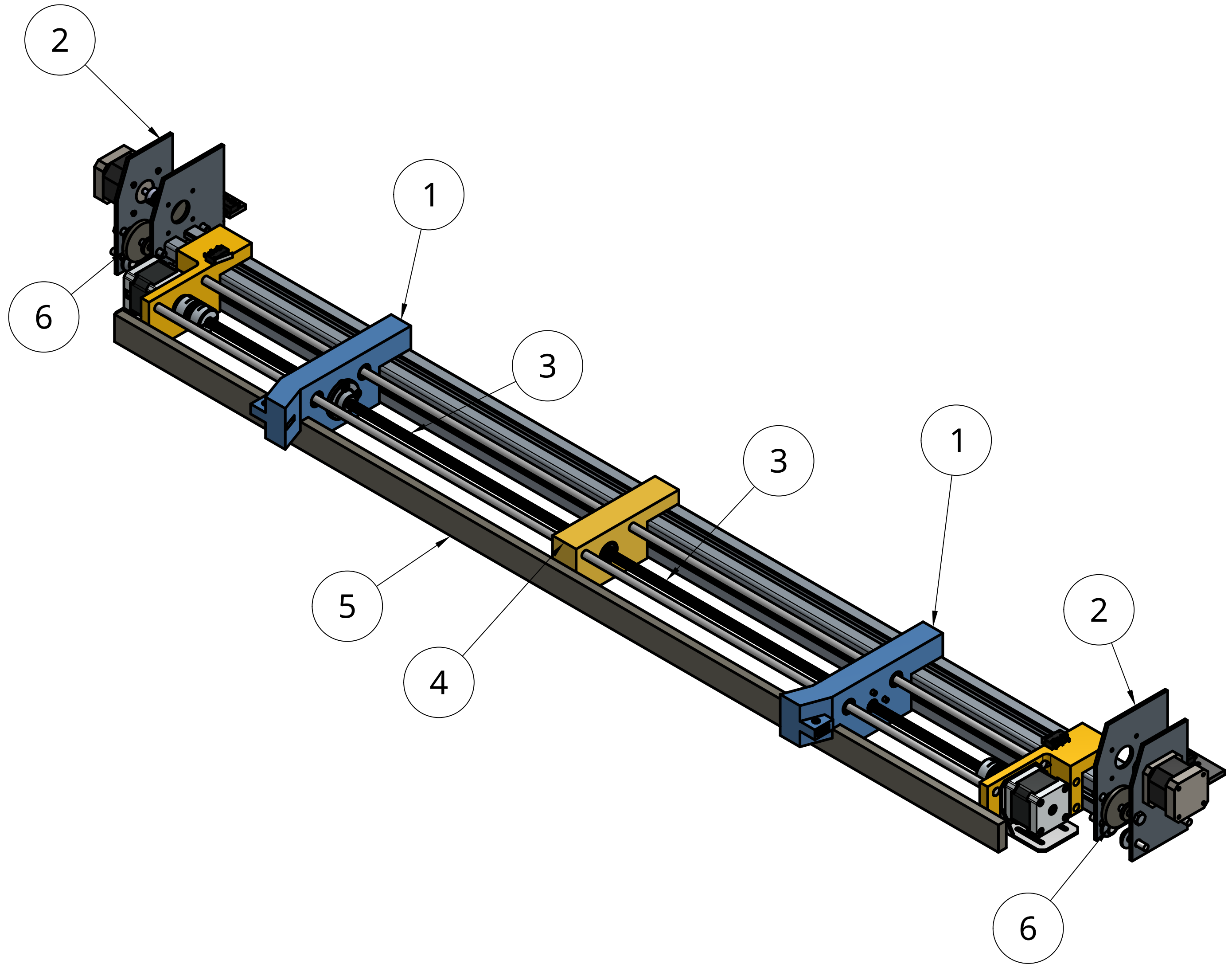
DWG NO.	SIZE	SCALE	SHEET	REV.
PART (2) GENEVA DRIVE	A3	1:3	9 of 29	-

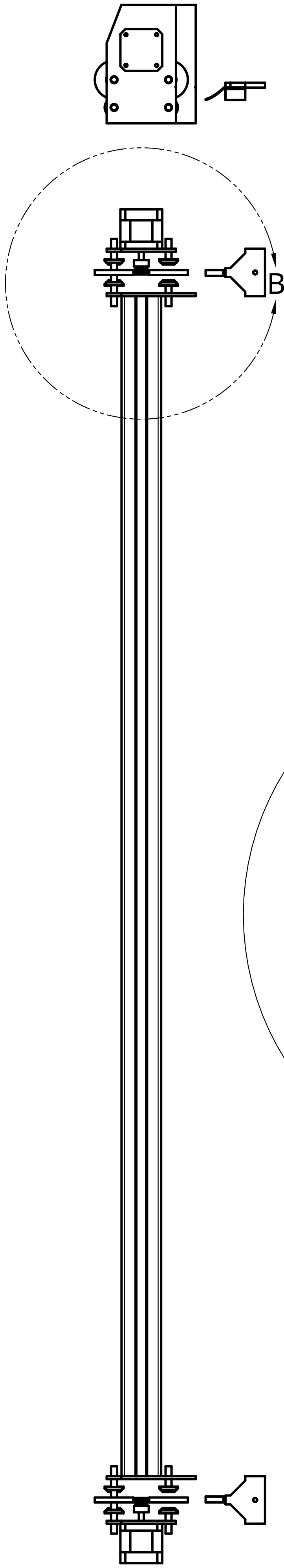
PARTS	1
pusher sovel	1
Longitudinal steppers	2
Spindles	3
Bearings hosting	4
Protector/Pusher	5

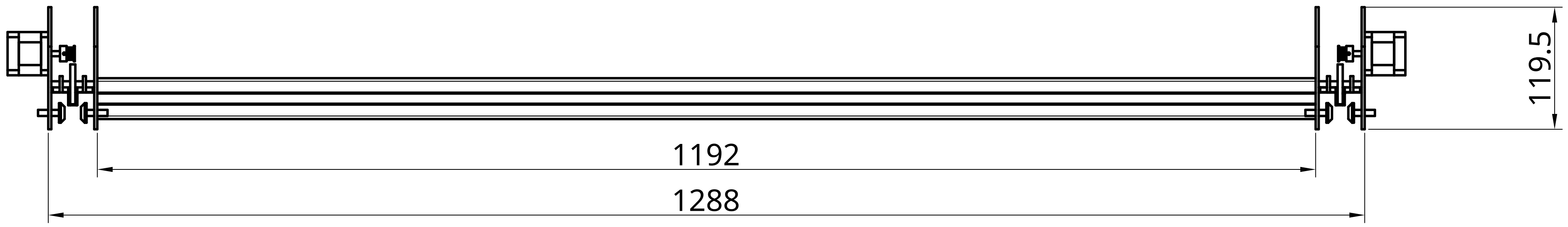


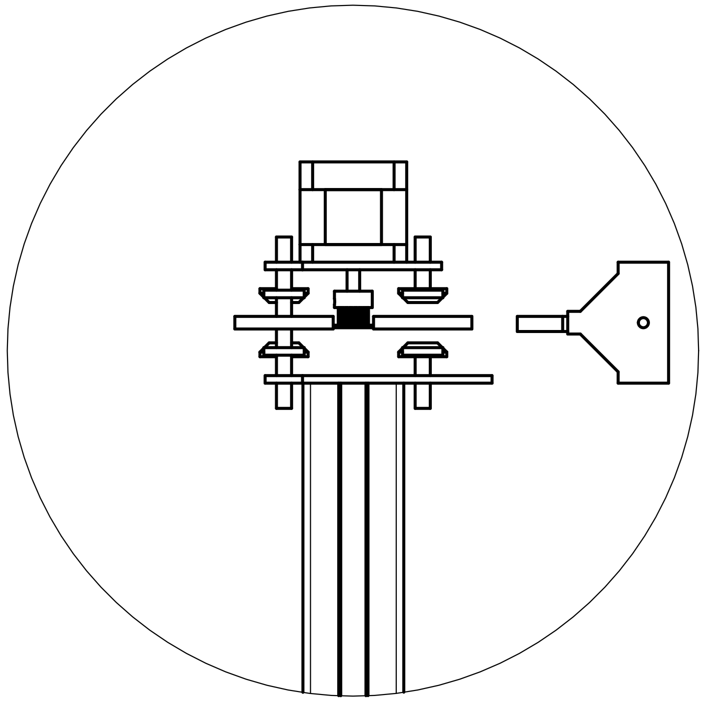




DWG NO.	SIZE	SCALE	SHEET	REV.
Centering system	A3	1:6	10 of 29	-



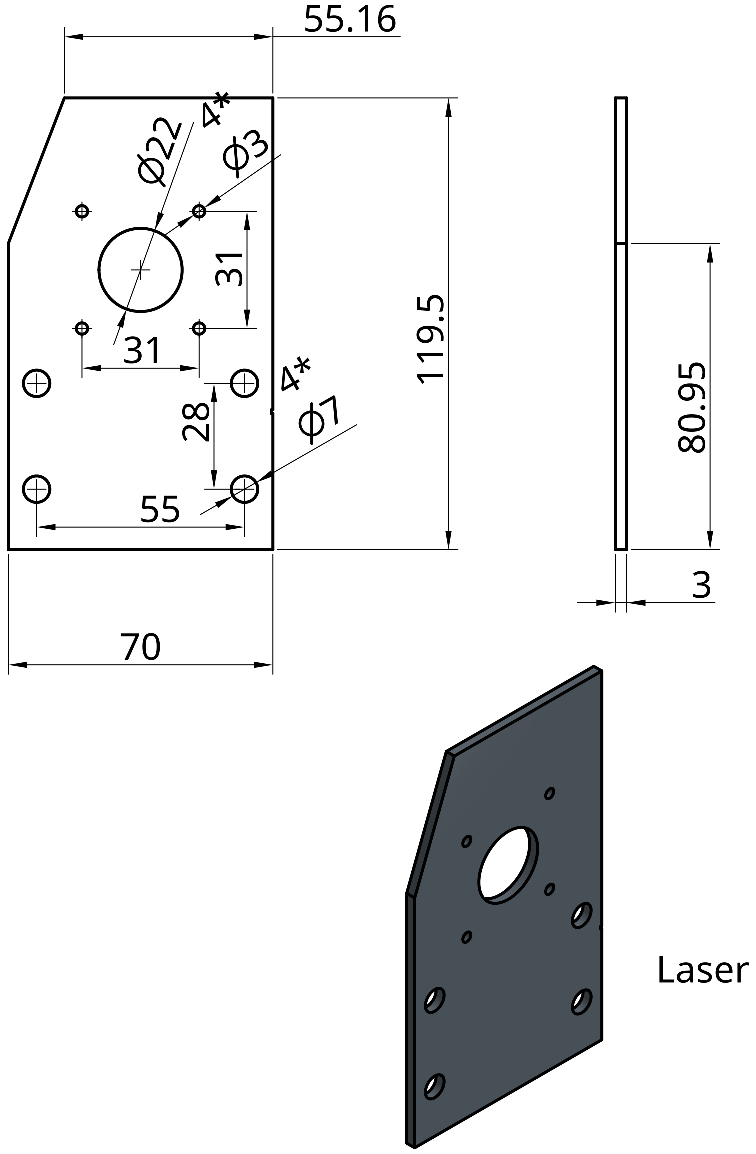




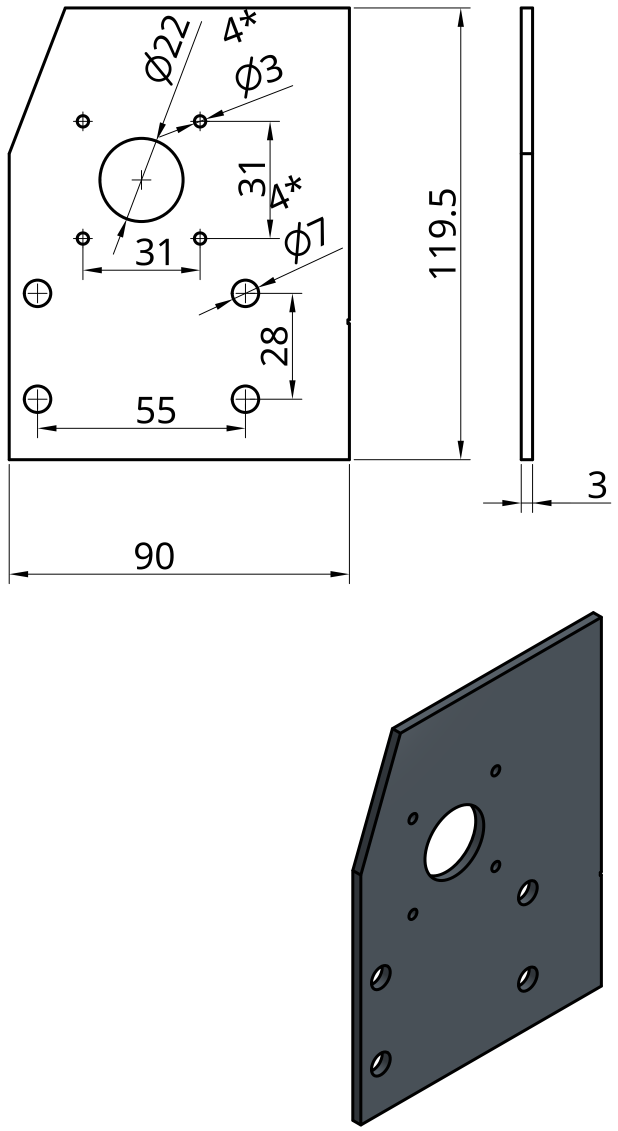
B
1:3

ROAD LANE

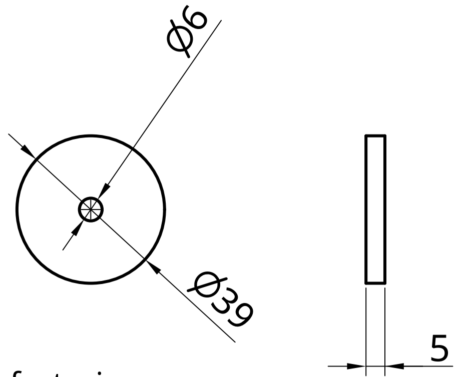
DWG NO.	SIZE	SCALE	SHEET	REV.
Subset Centering system	A3	1:6	11 of 29	-



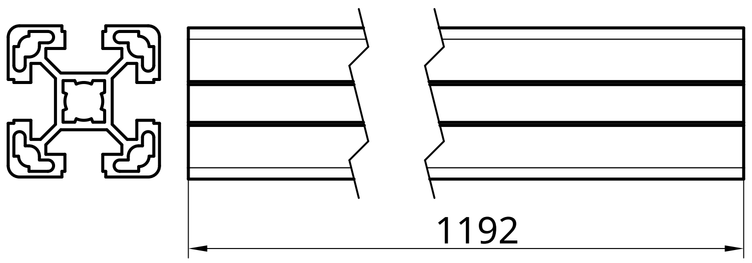
Laser Cut

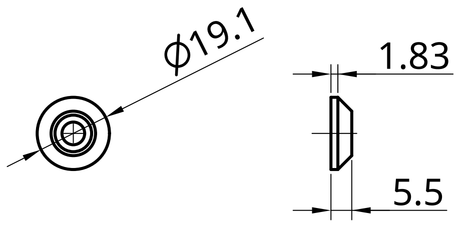


Laser Cut

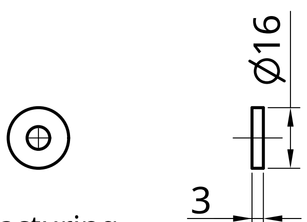


Manufacturing
Printing 3d



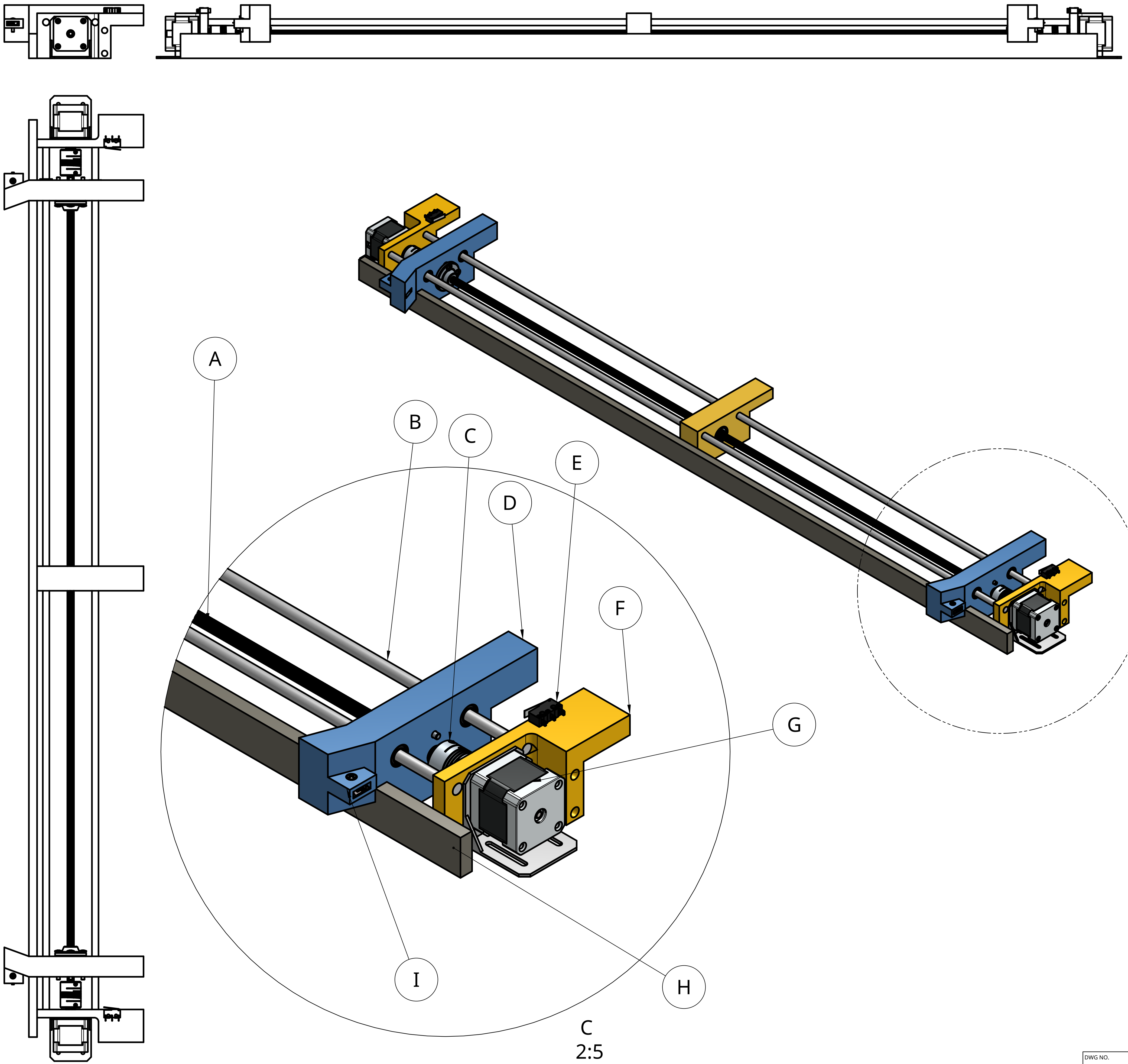


Manufacturing
Printing 3d



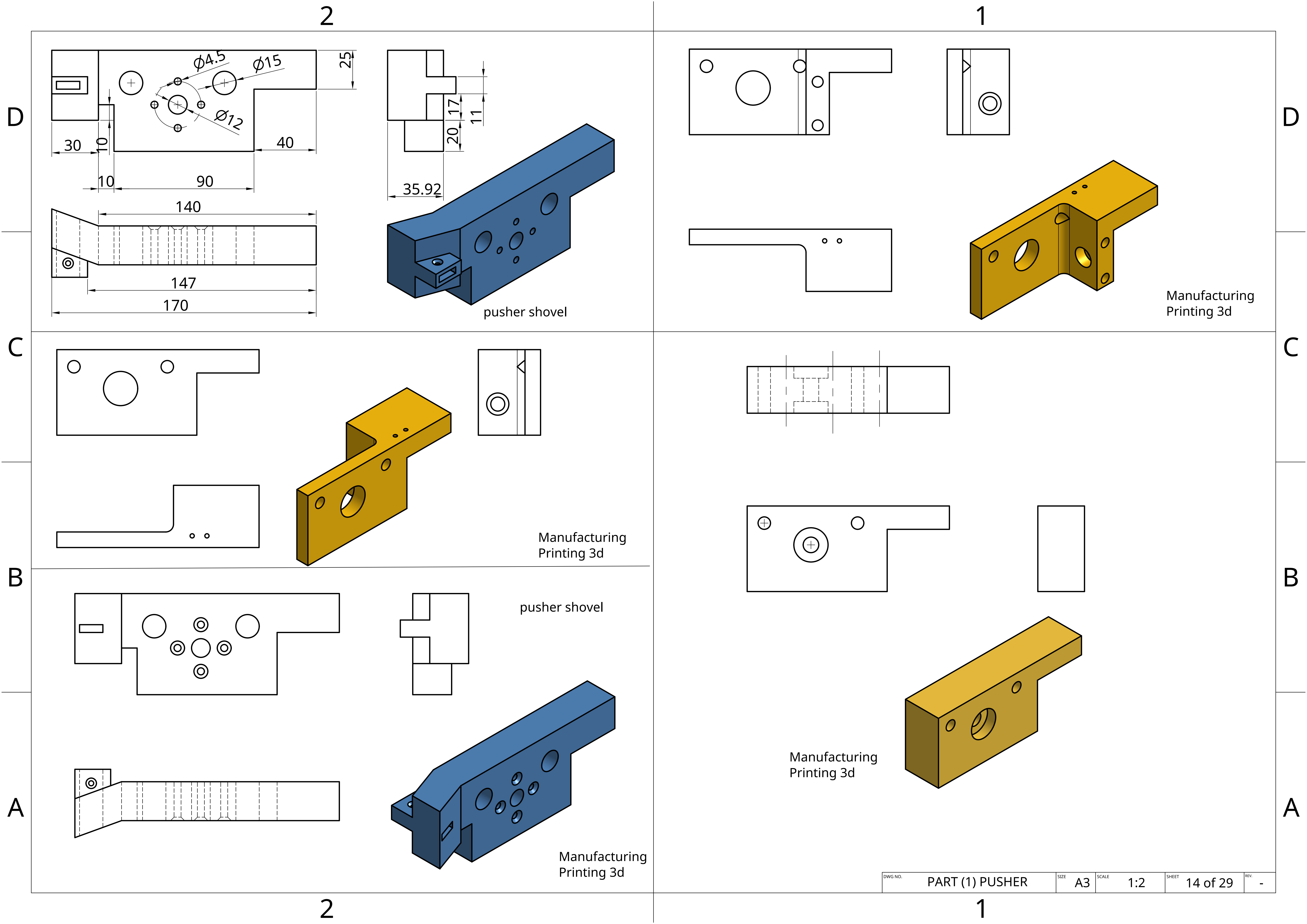
Manufacturing
Printing 3d

DWG NO.	SIZE	SCALE	SHEET	REV.
PART (1) Centering system	A3	1:2	12 of 29	-



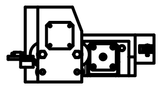
A	Threaded rod m8
B	
C	
D	Pusher shovel
E	
F	
G	NEMA 17
H	
I	

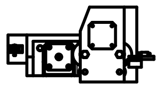
DWG NO.	SIZE	SCALE	SHEET	REV.
Pusher	A3	1:5	13 of 29	-

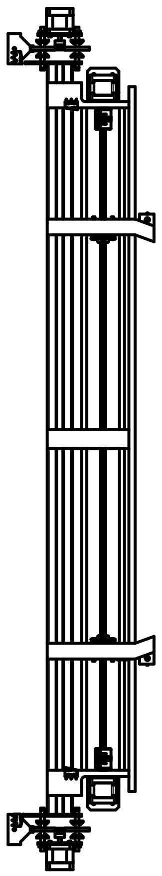


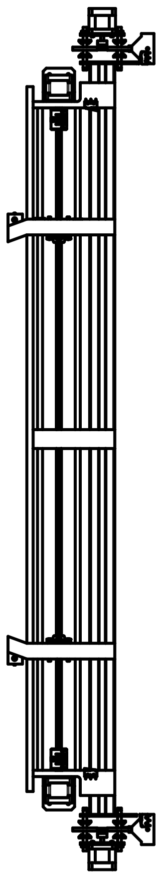
DWG NO.	SIZE	SCALE	SHEET	REV.
PART (1) PUSHER	A3	1:2	14 of 29	-

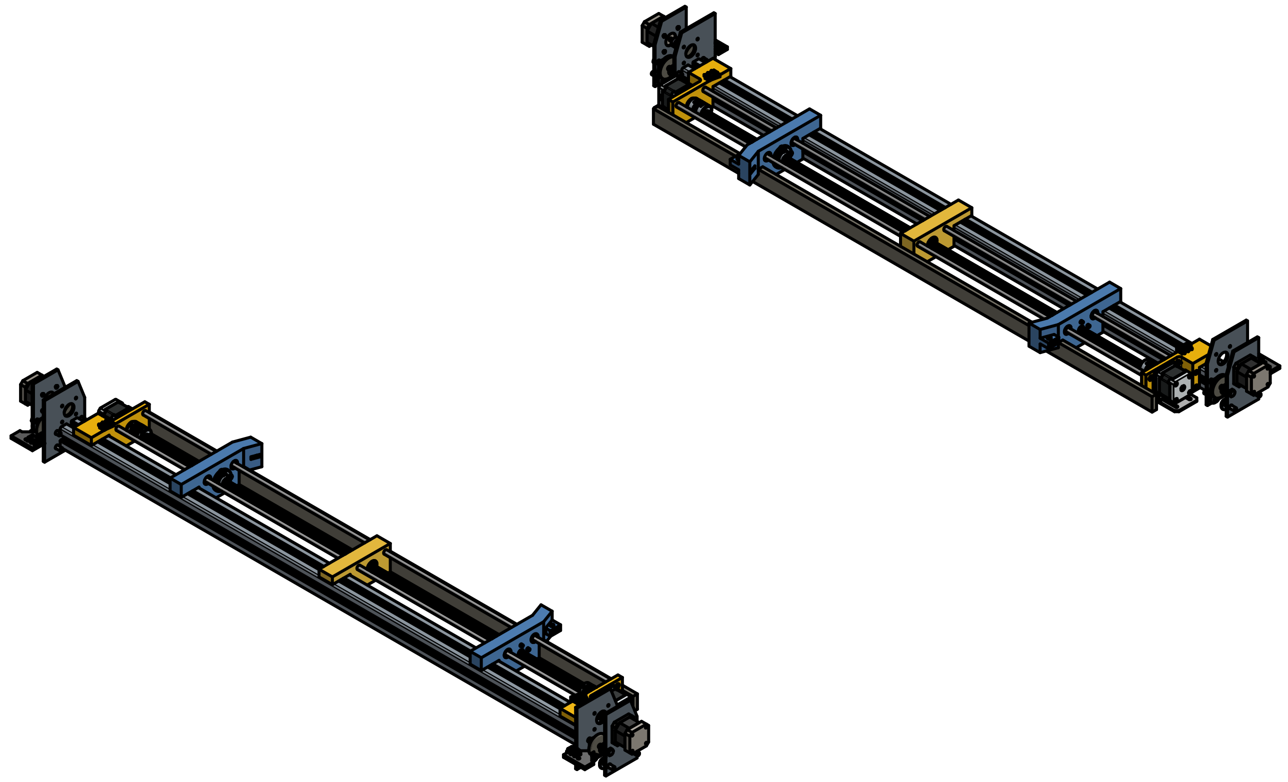
These are the two couples who are confronted, they work as a team.



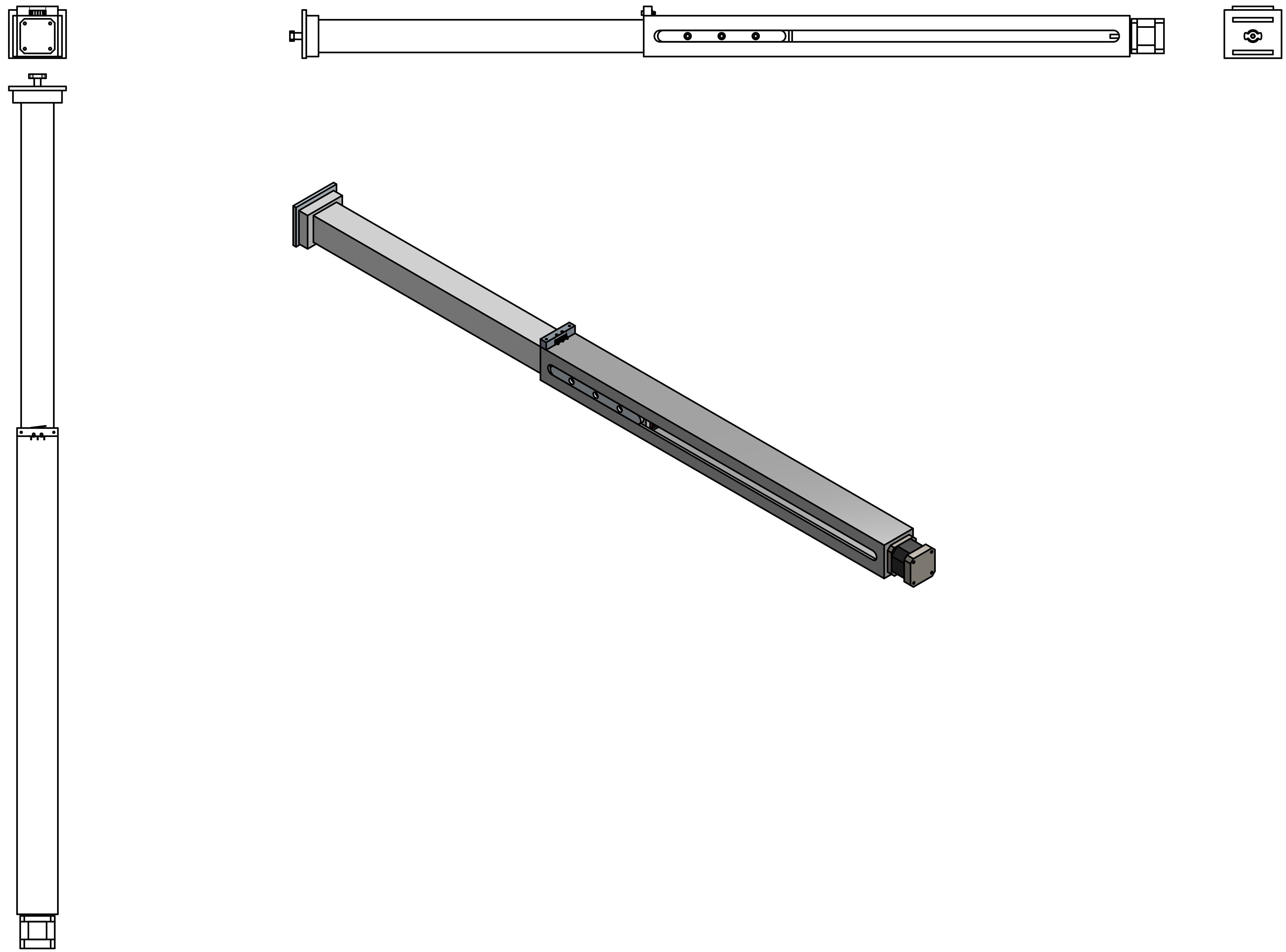




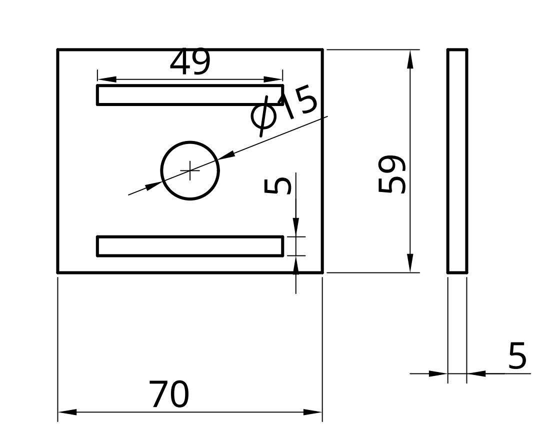




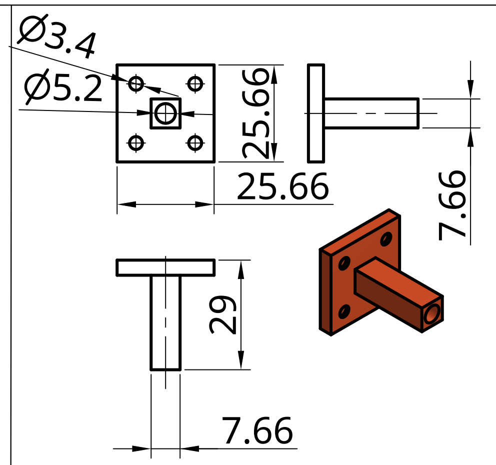
DWG NO.	SIZE	SCALE	SHEET	REV.
Team Centering system	A3	1:12	15 of 29	-



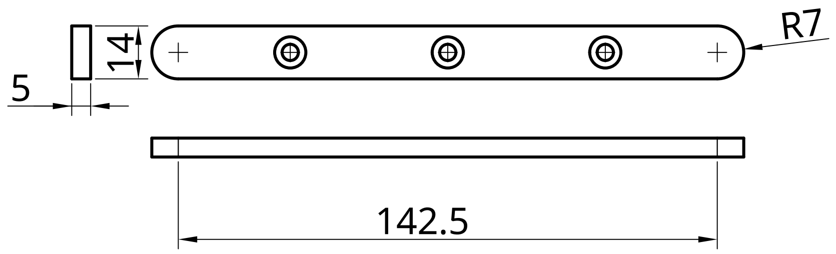
DWG NO.	SIZE	SCALE	SHEET	REV.
Arm	A3	1:5	16 of 29	-



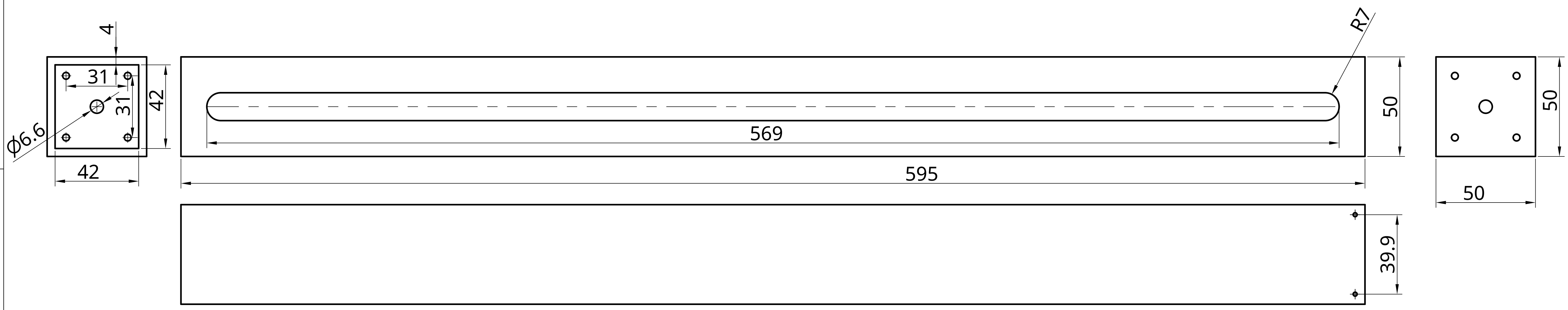
Manufacturing
Printing 3d



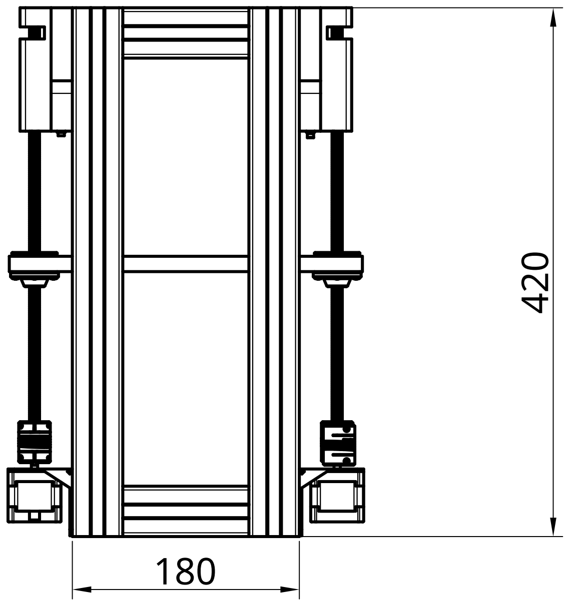
Manufacturing
Printing 3d

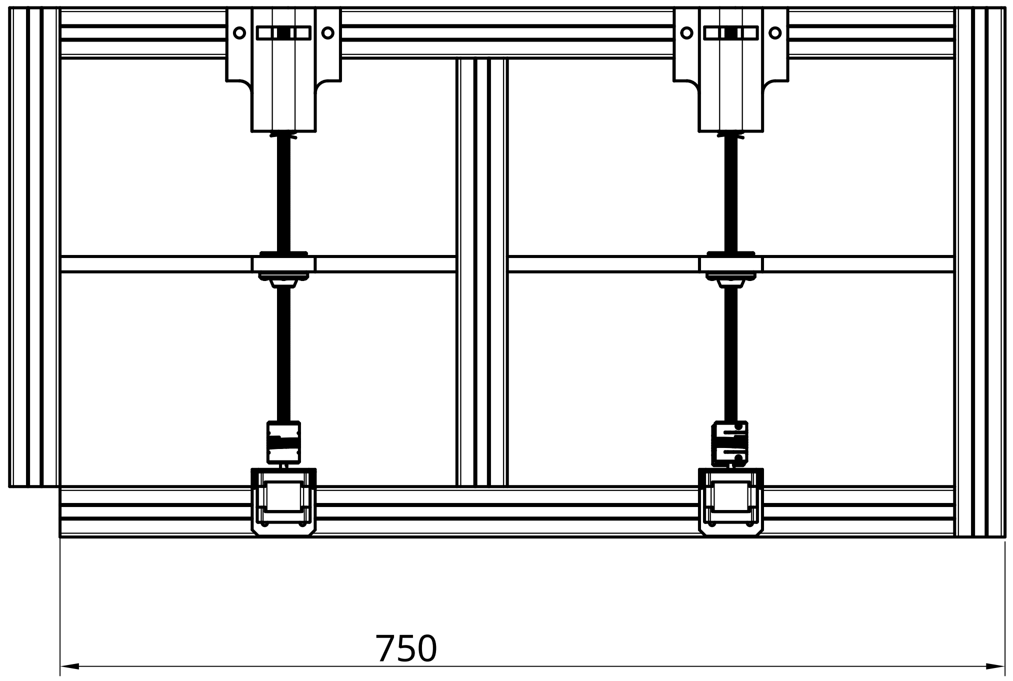


Manufacturing
Printing 3d

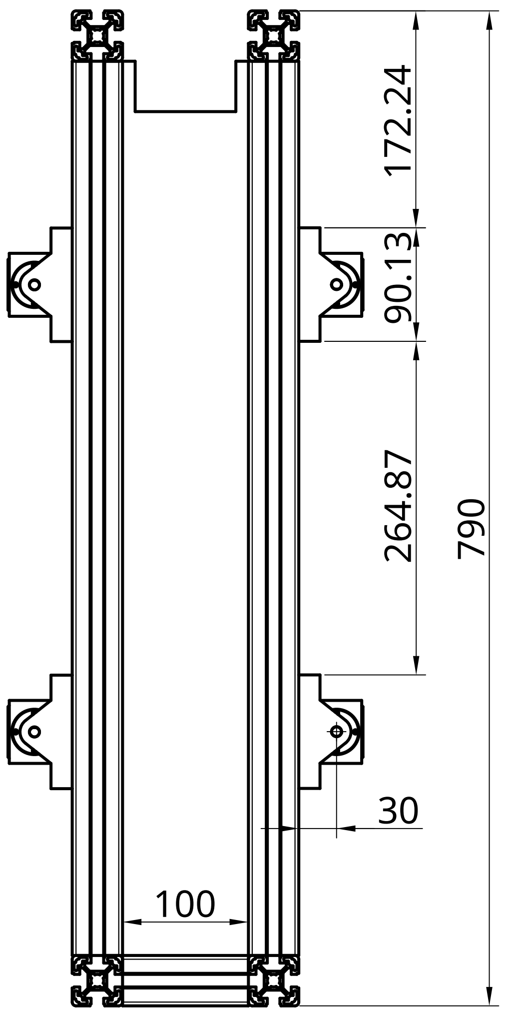


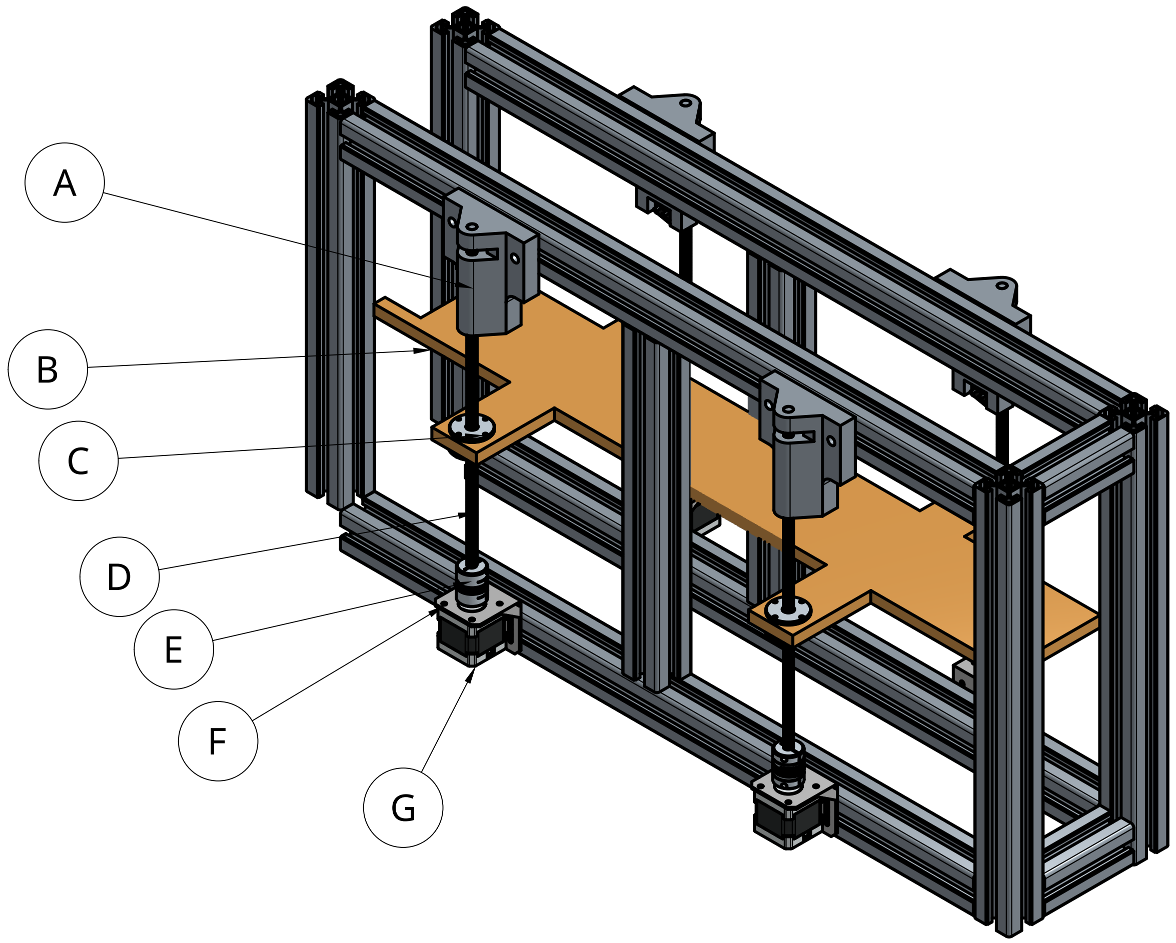
DWG NO.	SIZE	SCALE	SHEET	REV.
PART ARM	A3	1:2	17 of 29	-



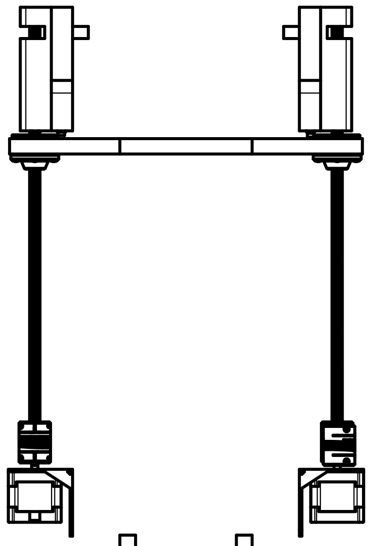


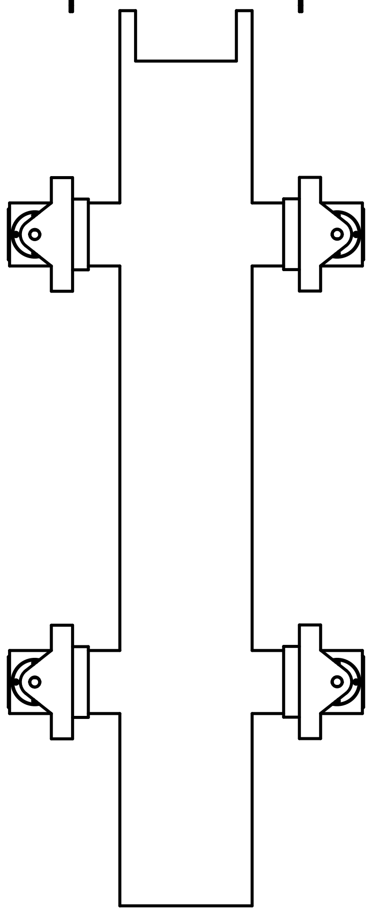
	UNIT	
A	4	
B	1	TABLE LIFTER
C		
D		
E		
F		
G	4	NEMA
H		
I		

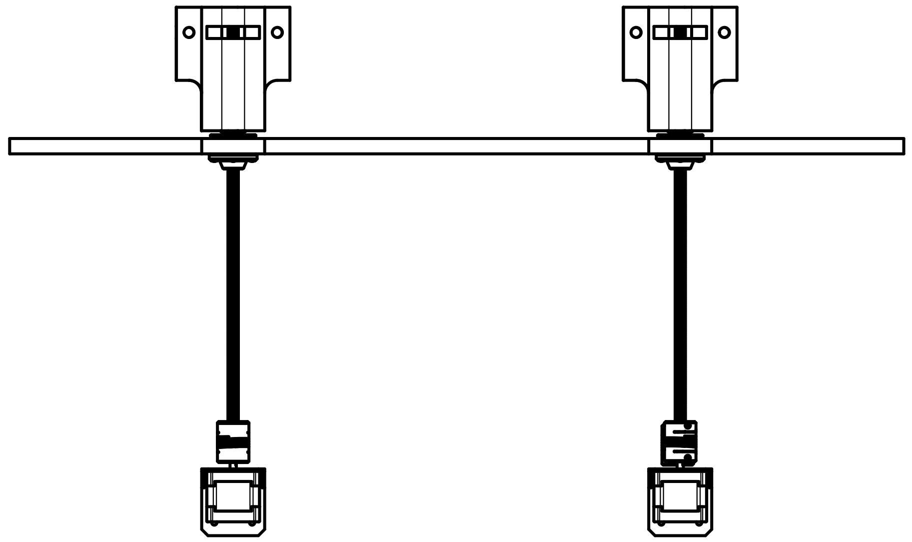


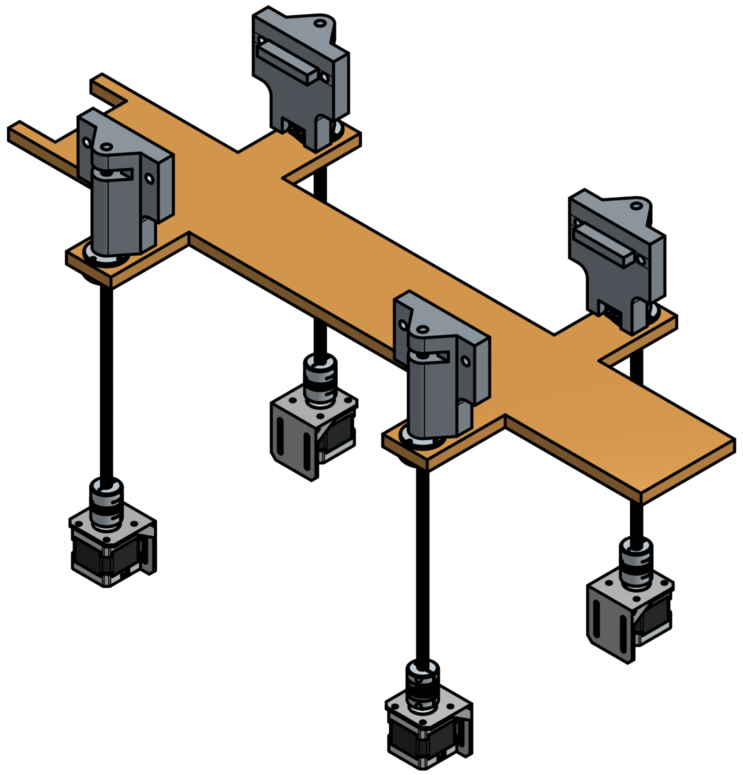


DWG NO.	SIZE	SCALE	SHEET	REV.
Lifter Frame	A3	1:6	18 of 29	-

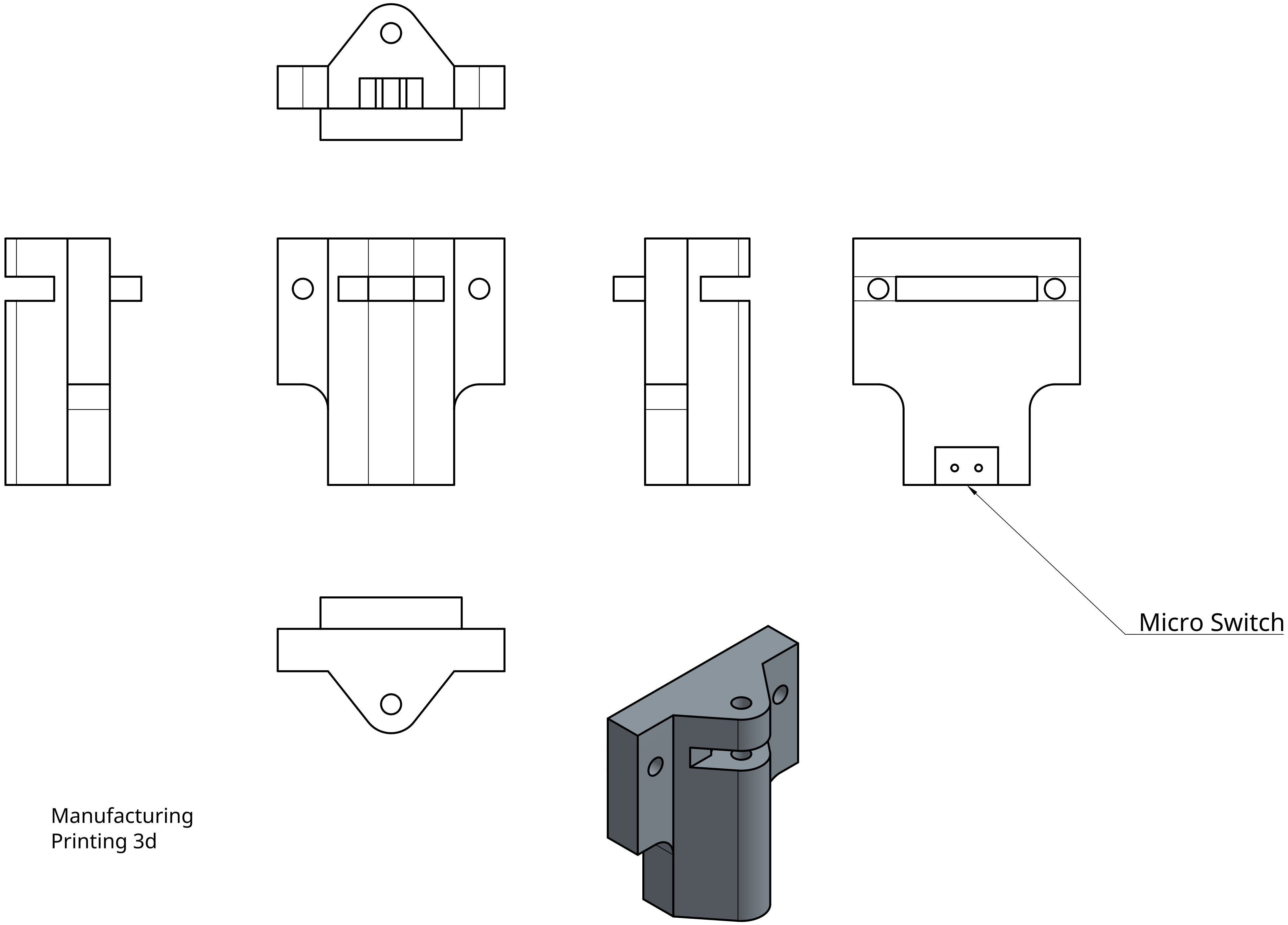






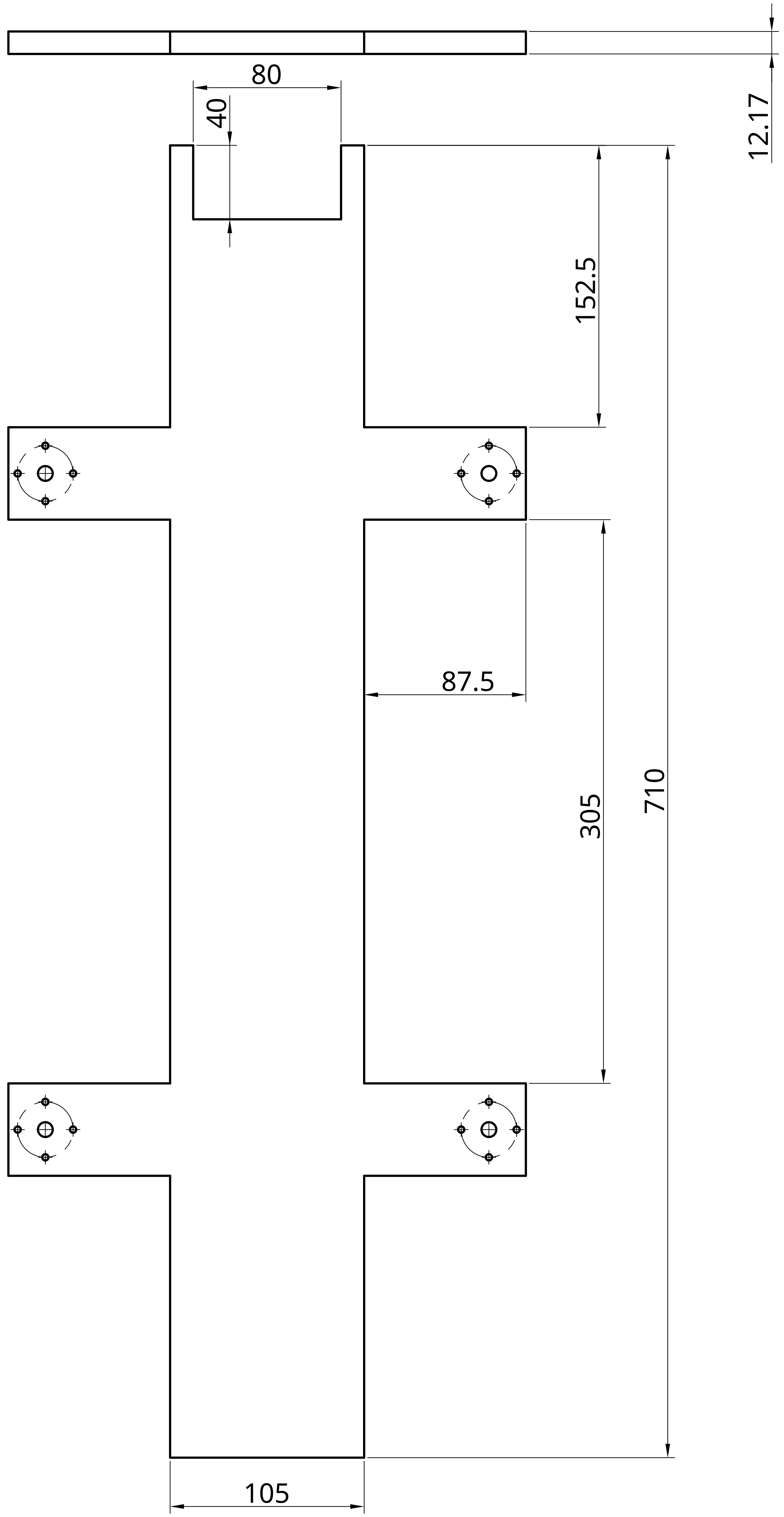


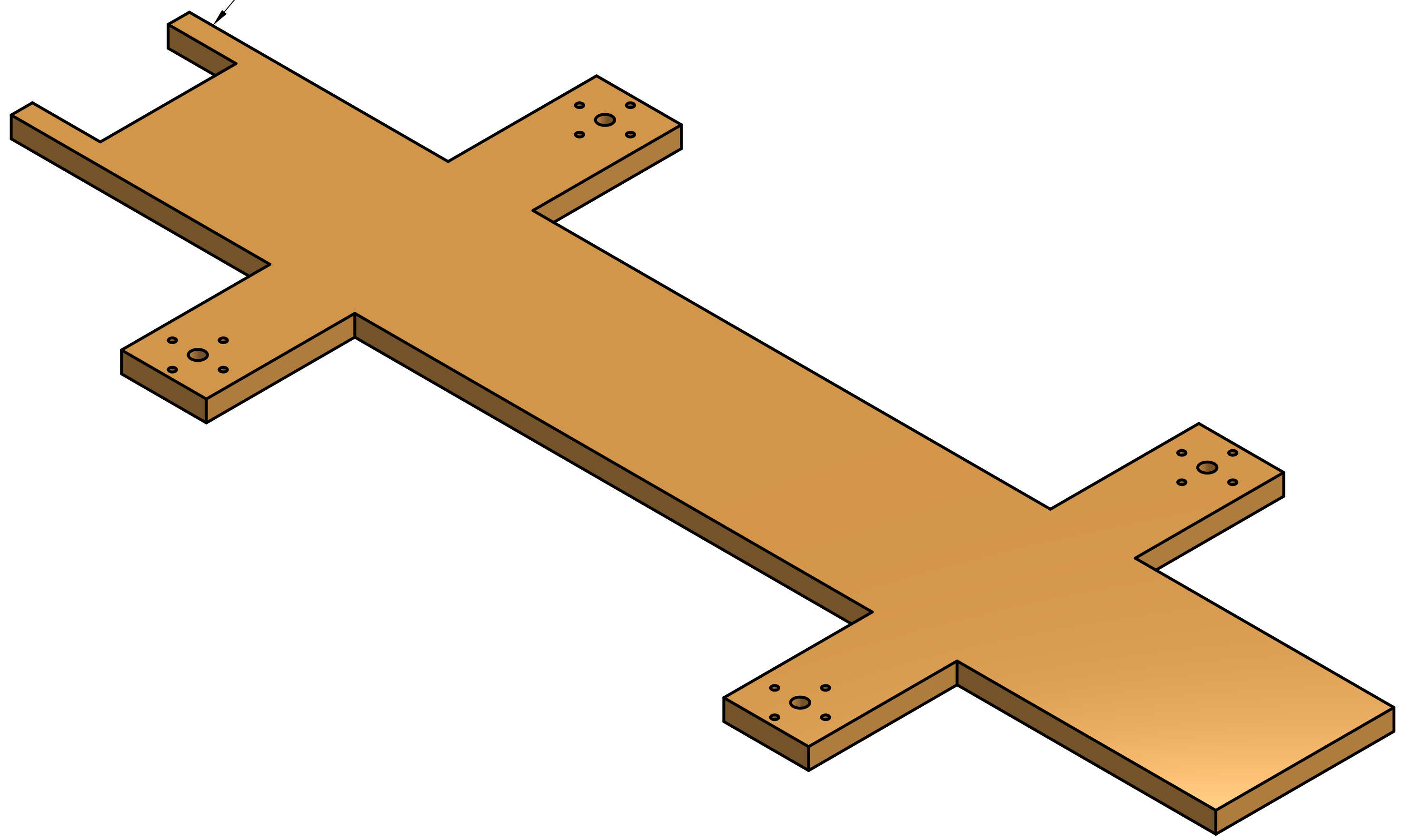
DWG NO.	SIZE	SCALE	SHEET	REV.
Lifter	A3	1:6	19 of 29	-



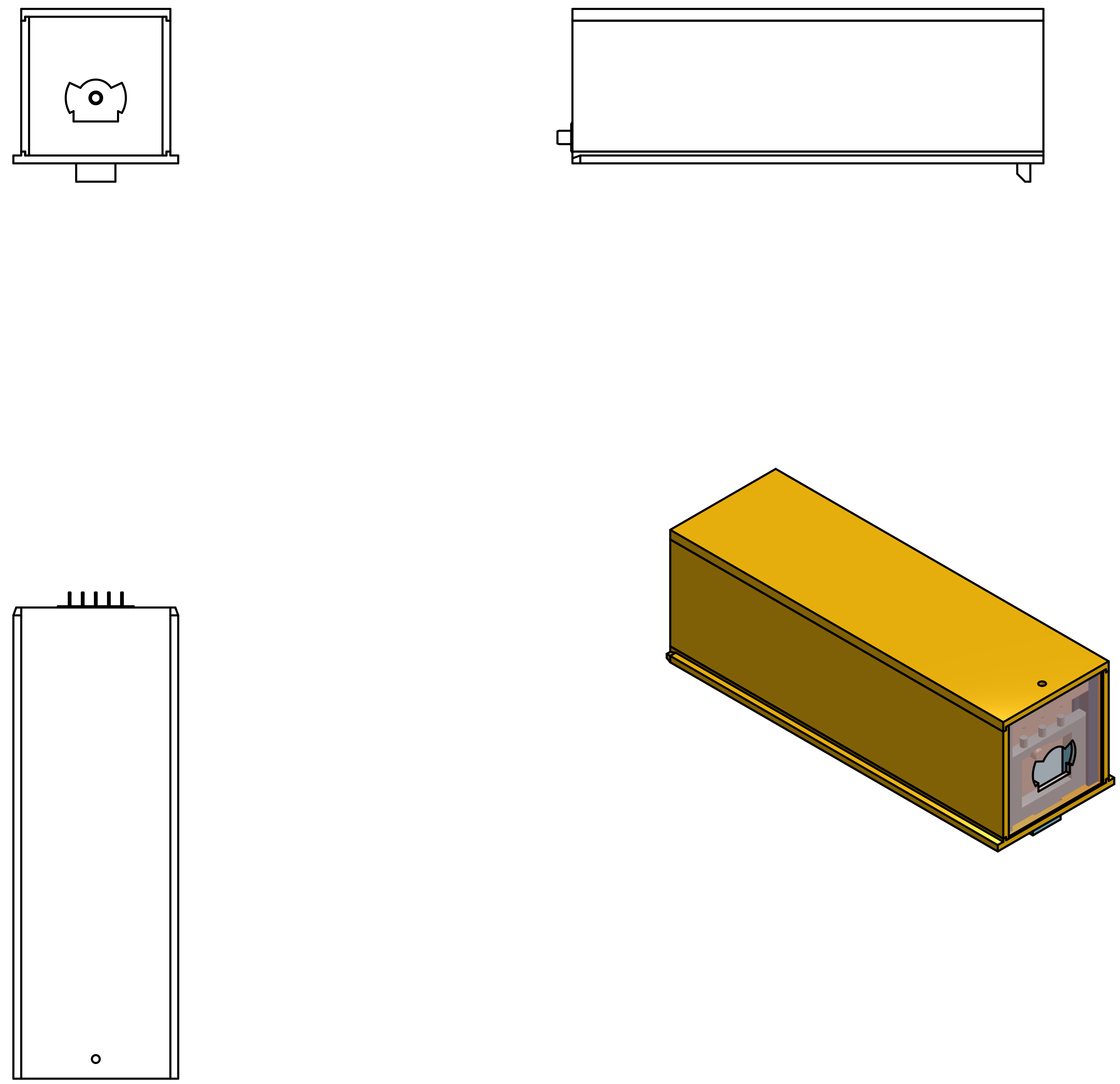
Manufacturing
Printing 3d

DWG NO.	SIZE	SCALE	SHEET	REV.
----	A3	1:2	20 of 29	-



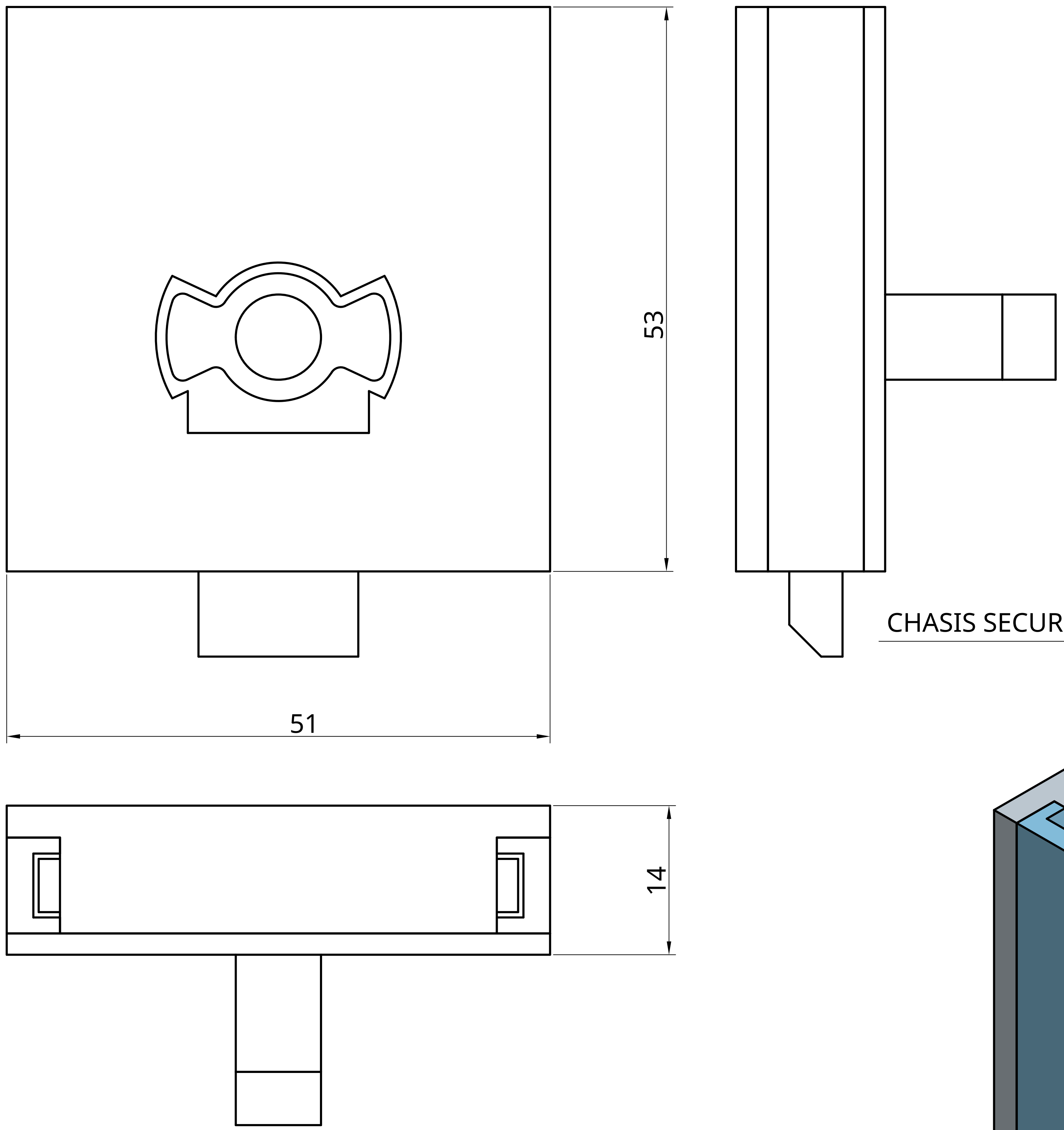


DWG NO.	SIZE	SCALE	SHEET	REV.
PART (2) Lifter	A3	1:3	21 of 29	-

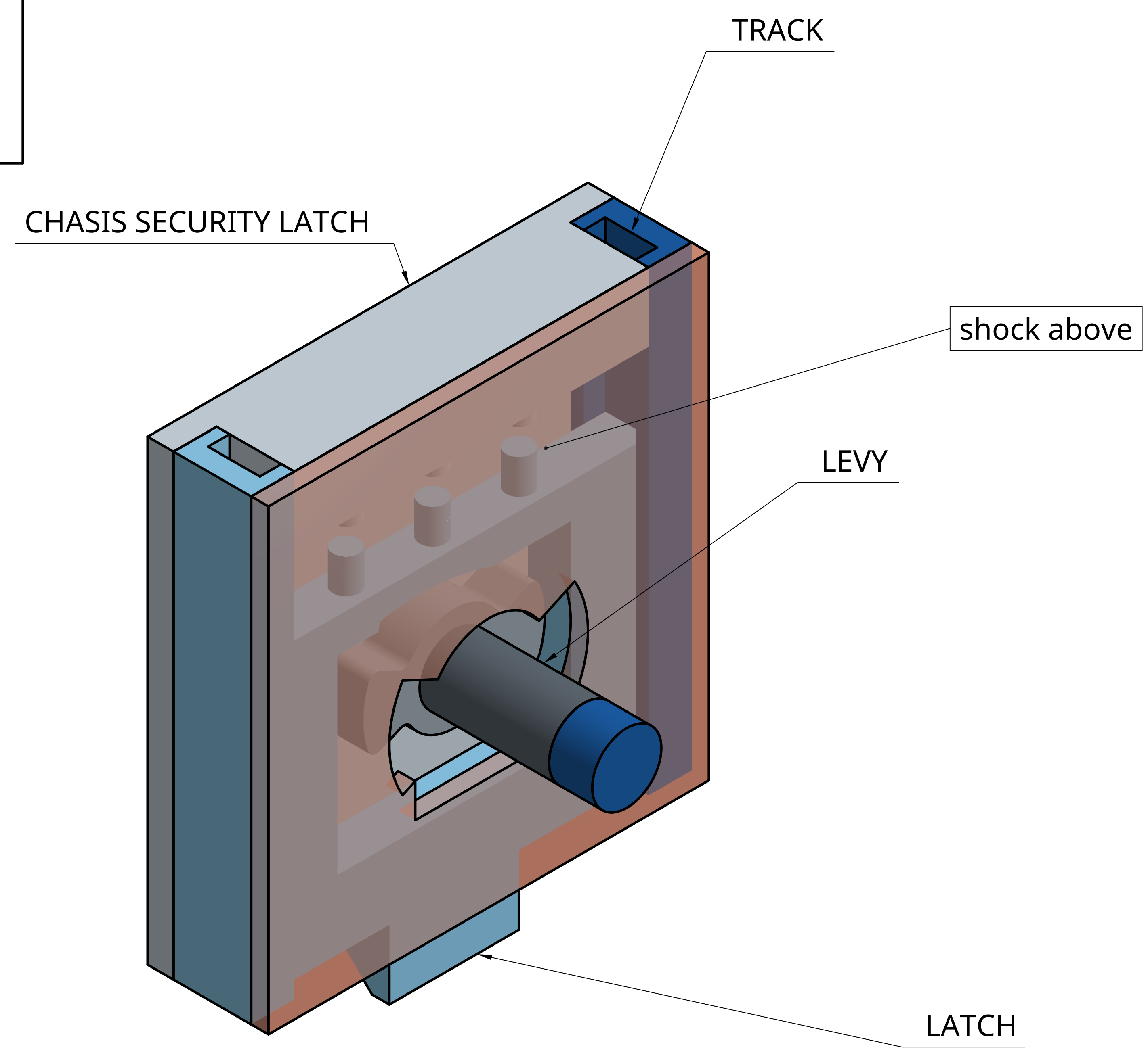


Battery holder box with safety latch. It is a fundamental part in the battery extraction and replacement.

DWG NO.	SIZE	SCALE	SHEET	REV.
SET BATTERY BOX	A3	1:2	22 of 29	-



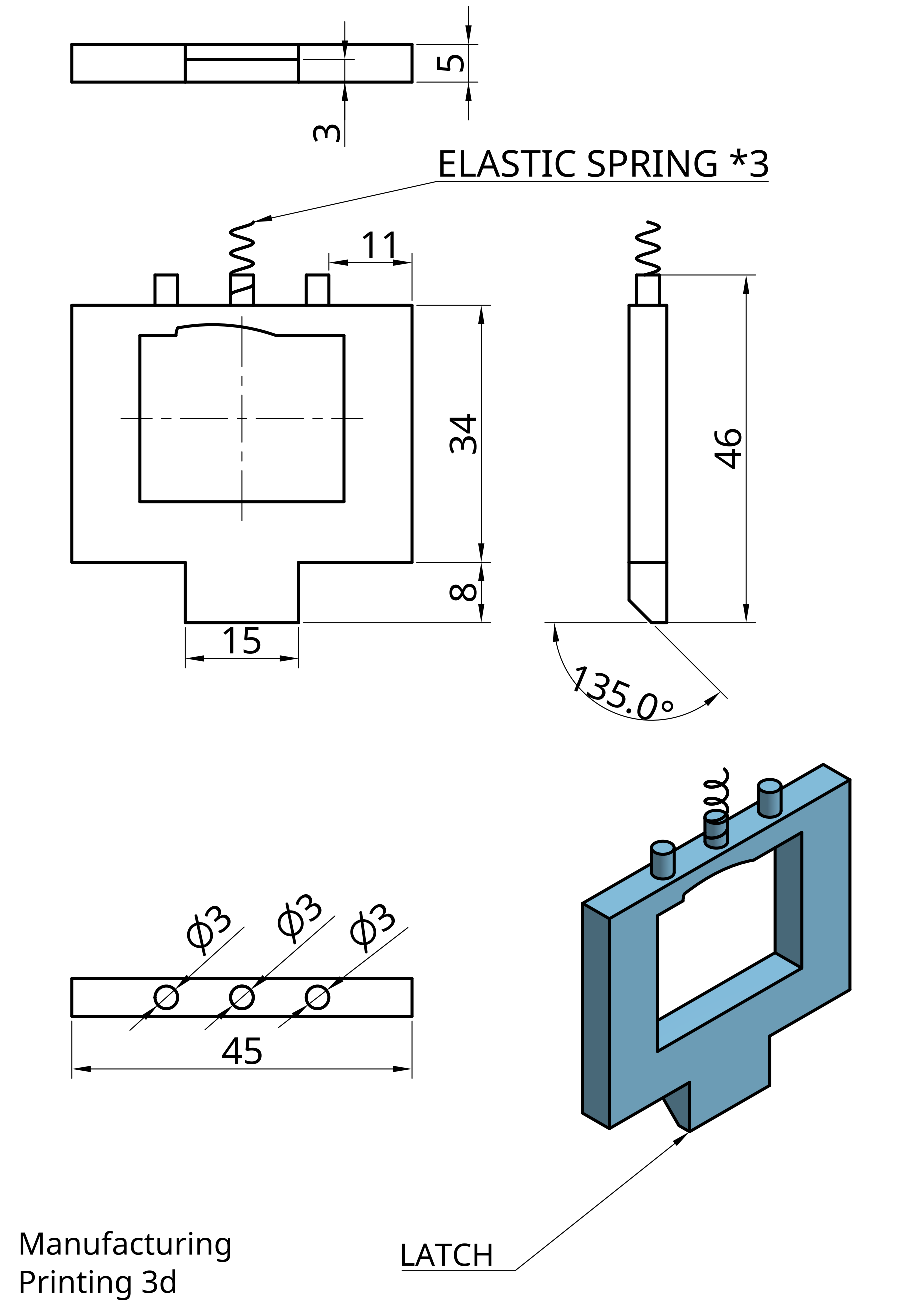
These clamps make up the safety latch system

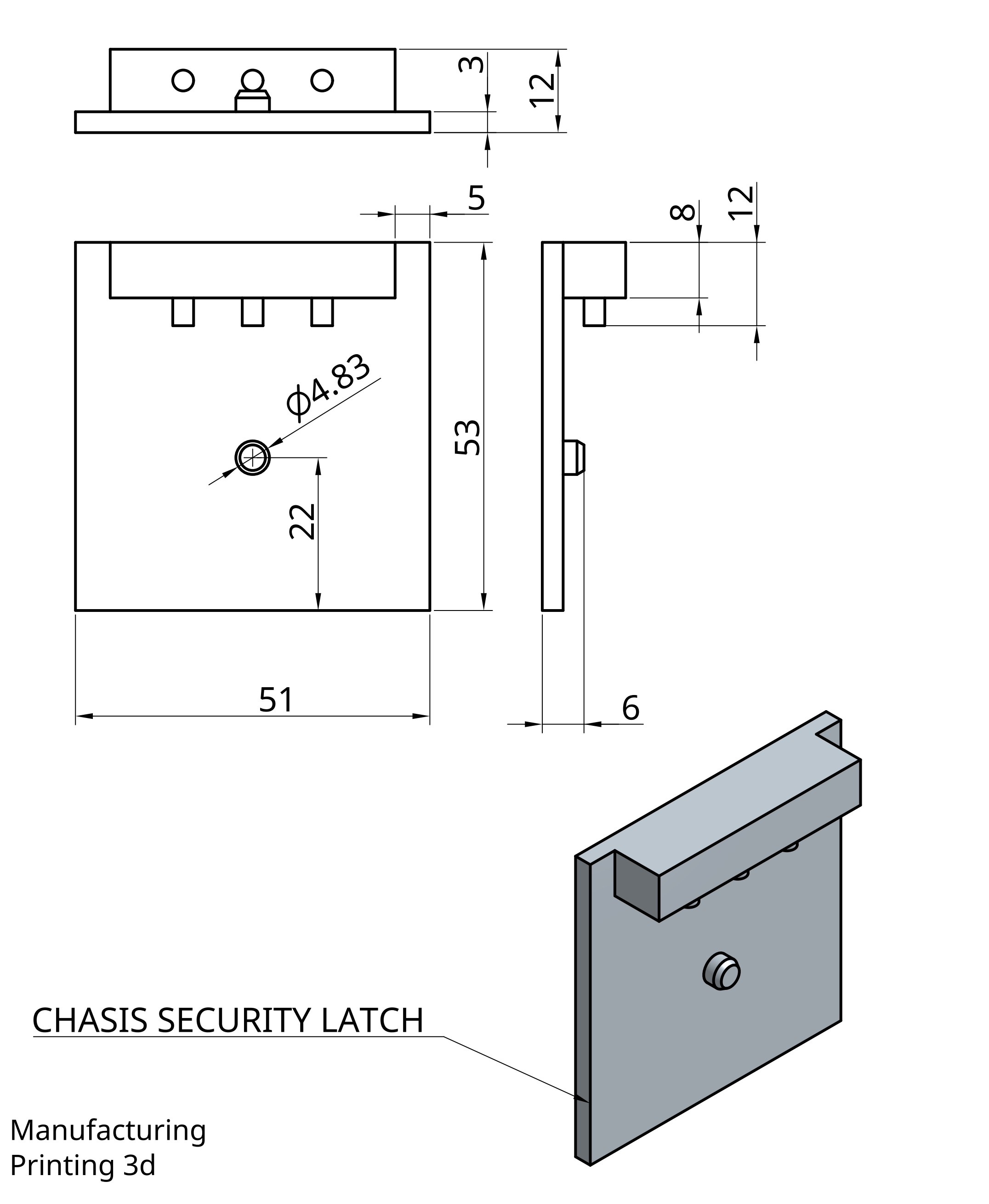


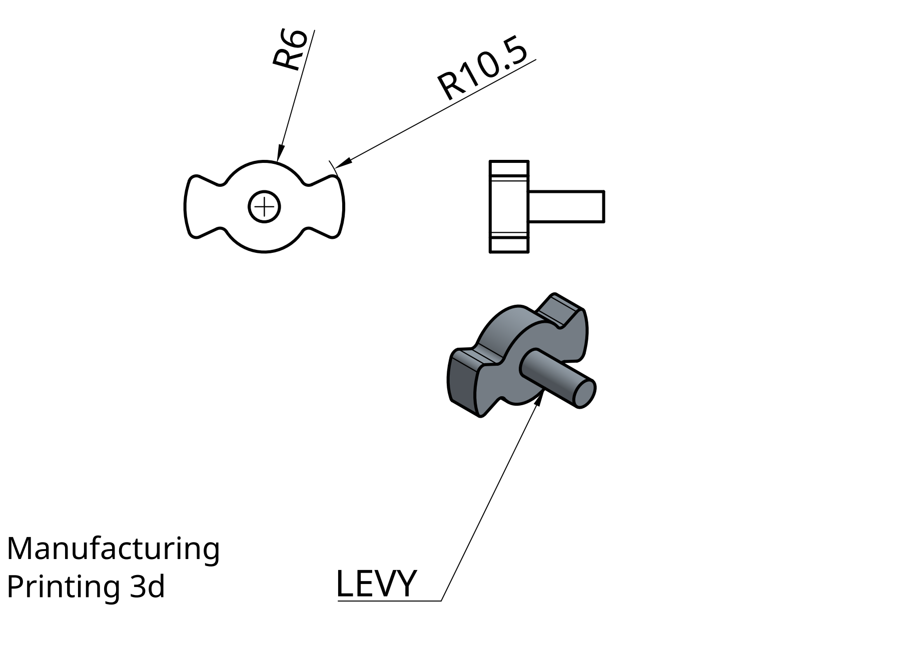
Manufacturing
Printing 3d

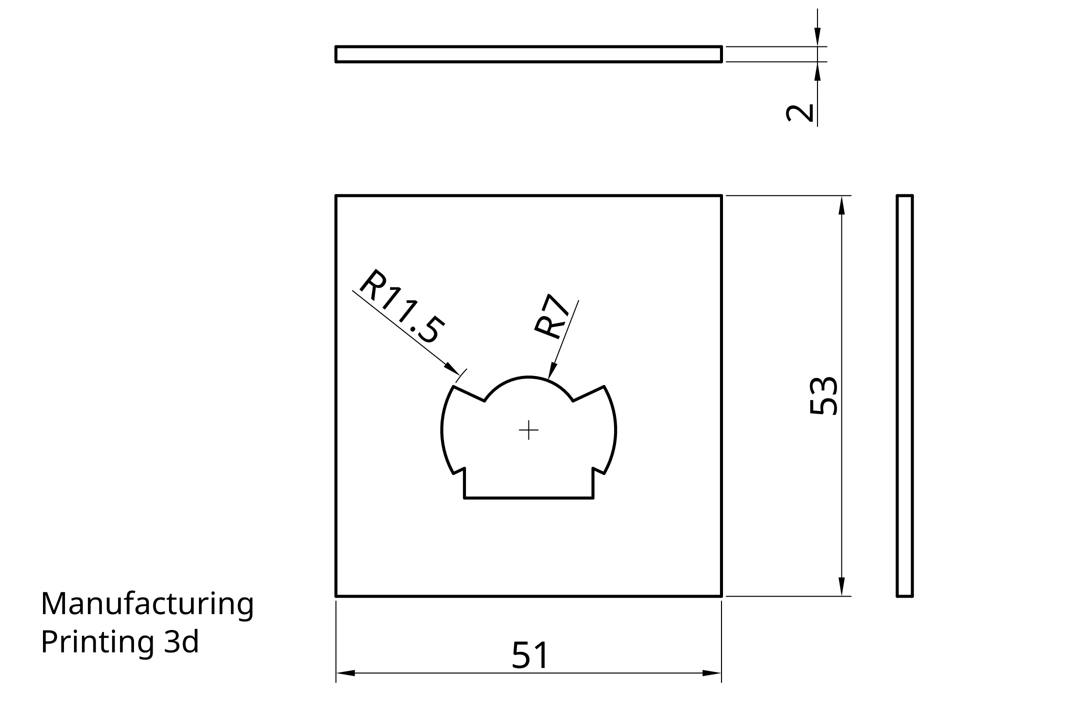
DWG NO.	SIZE	SCALE	SHEET	REV.
SUBSET BATTERY BOX SECURITY LATCH	A3	2:1	23 of 29	-

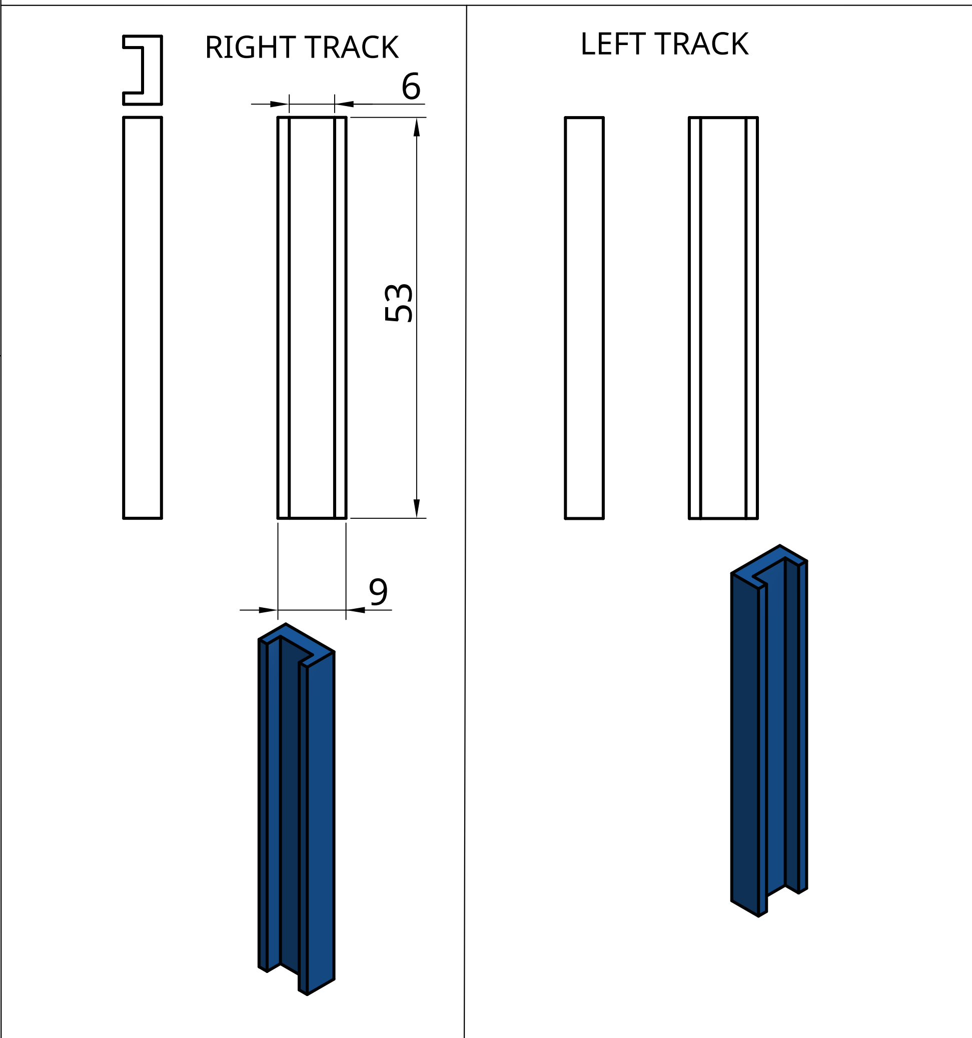
PARTS	Units
LATCH	1
CHASISSECURITY LATCH	1
TRACK	1
RIGHT TRACK	1
LEFT TRACK	1





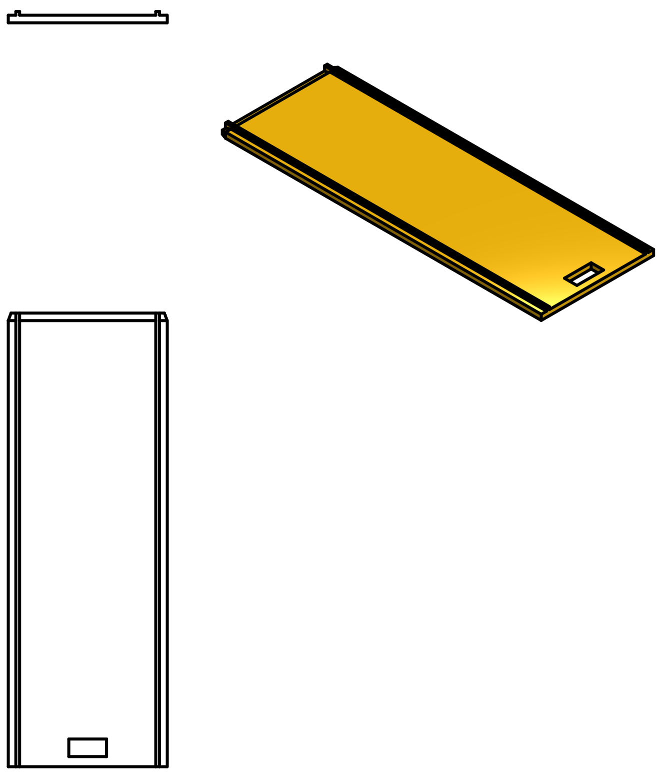






DWG NO.	SIZE	SCALE	SHEET	REV.
LEVY TRACK	A3	1:1	24 of 29	-

PARTS	Units
LEFT SIDE SECTION	1
SUPERIOR SECTION	1
LOWER SECTION	1
RIGHT SIDE SECTION	1
REAR SECTION	1



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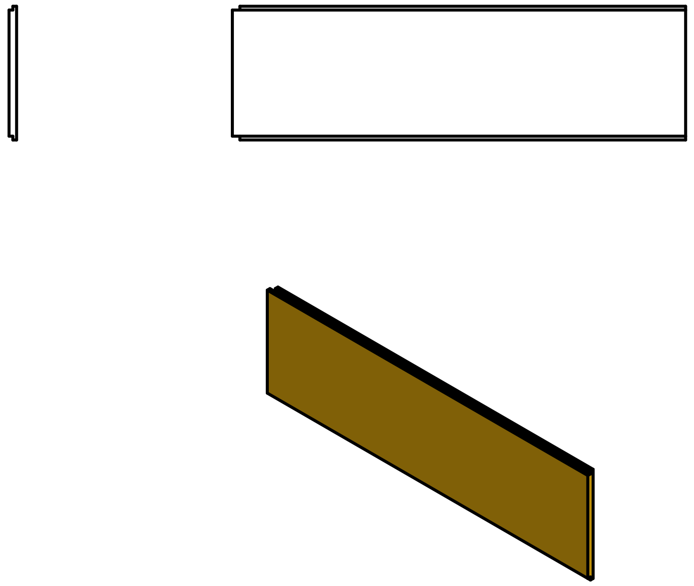
LOWER SECTION



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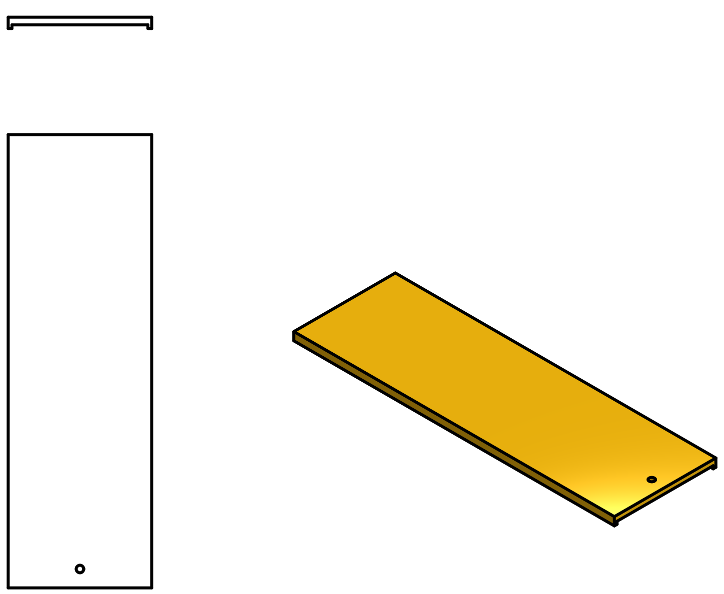
LEFT SIDE SECTION



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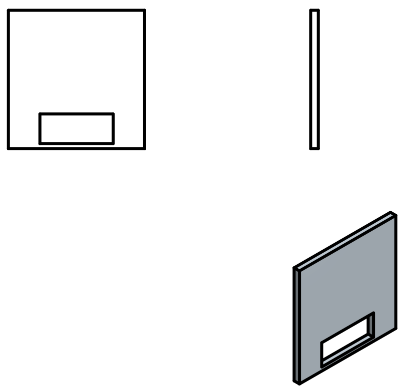
SUPERIOR SECTION



Manufacturing
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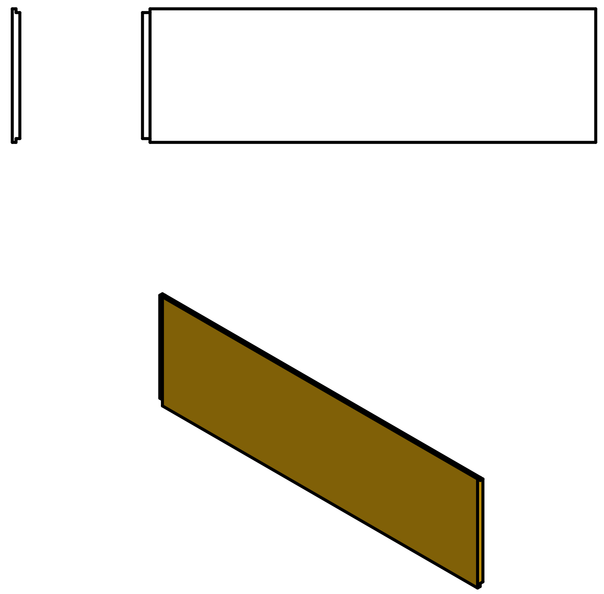
REAR SECTION



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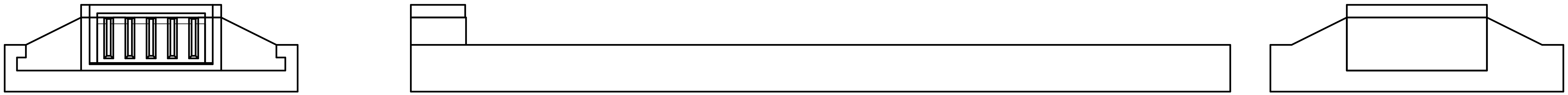
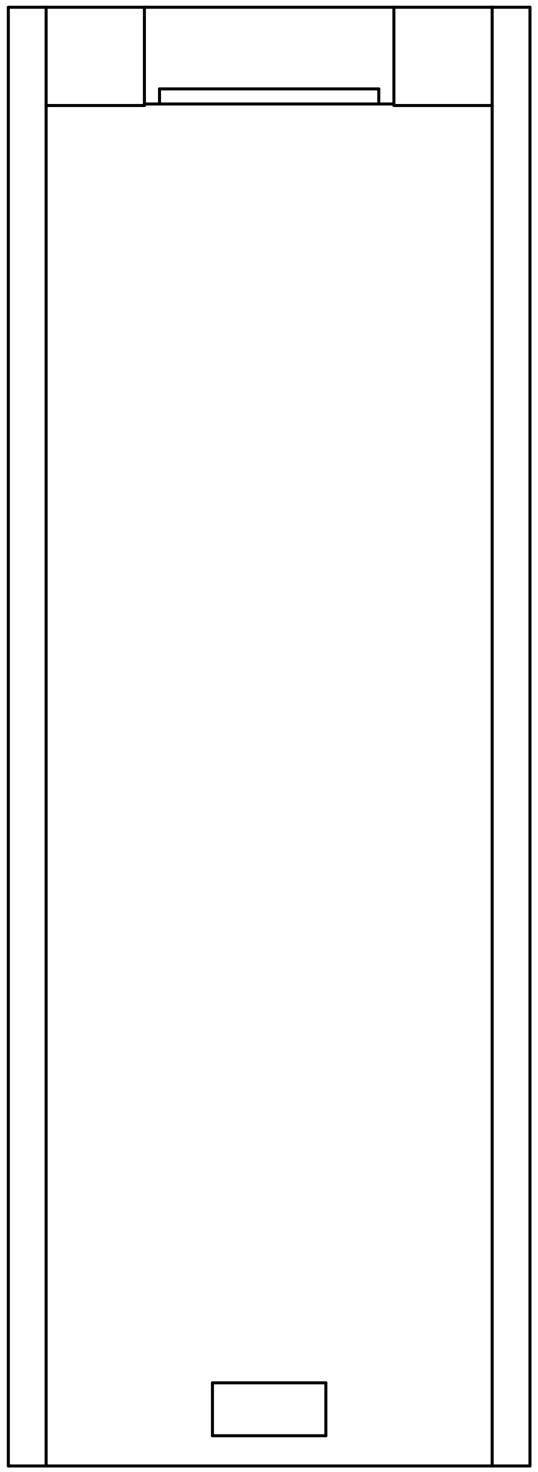
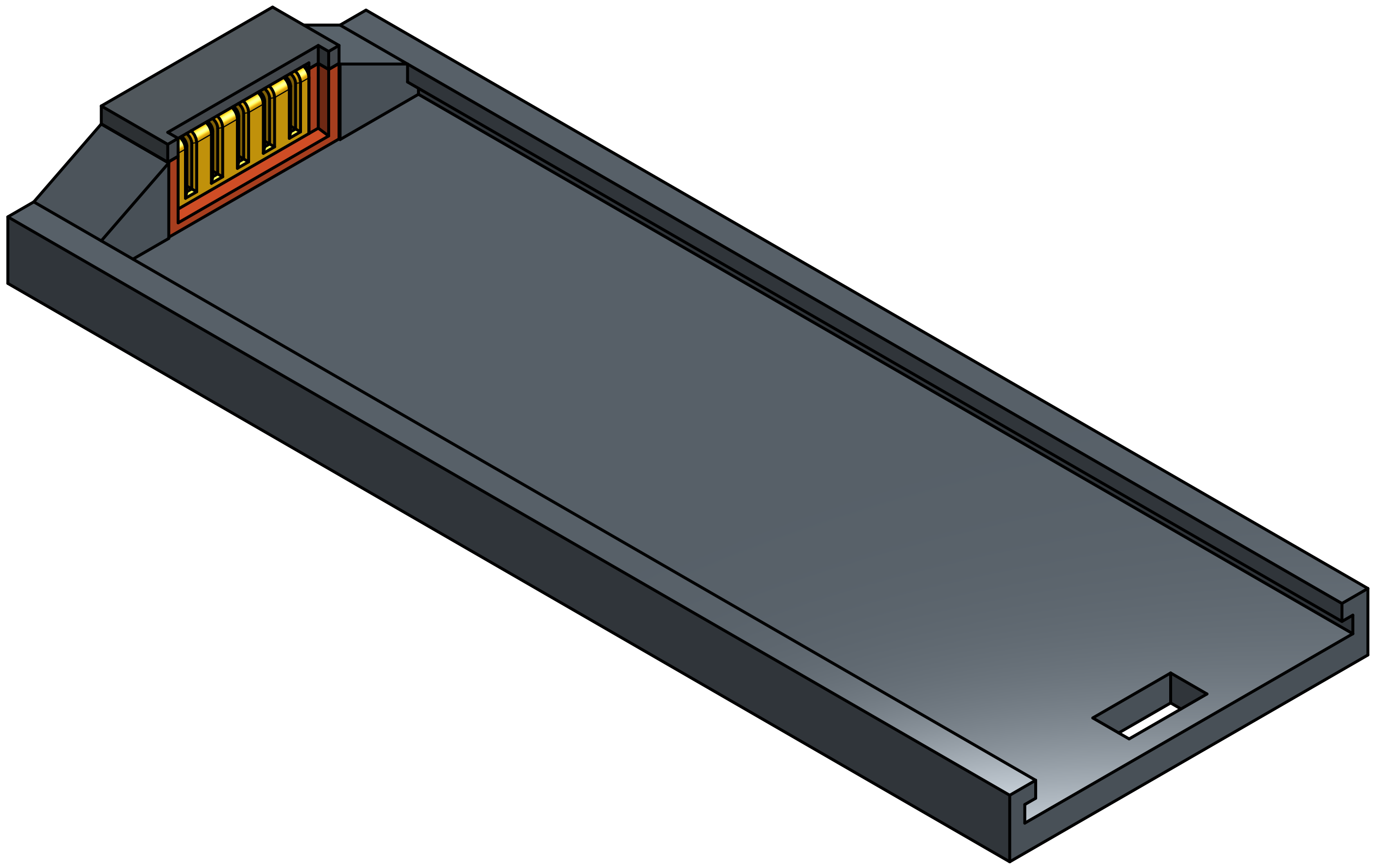
RIGHT SIDE SECTION

DWG NO.	SIZE	SCALE	SHEET	REV.
BOX PART	A3	1:3	25 of 29	-

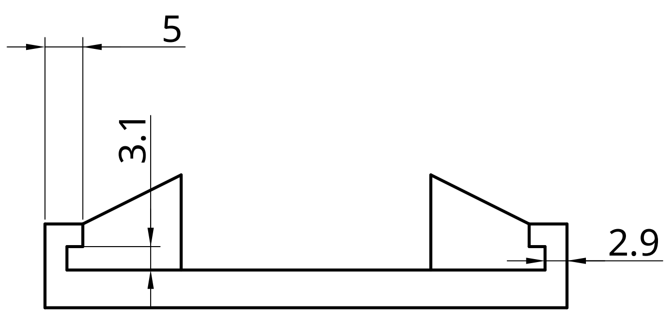


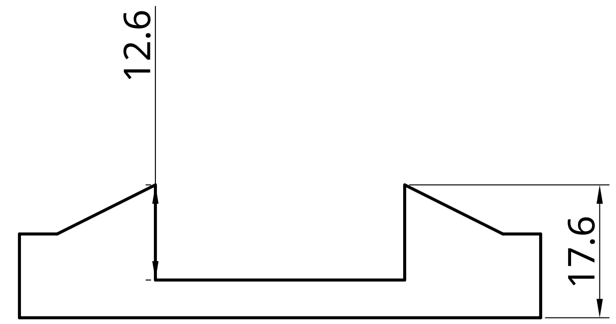


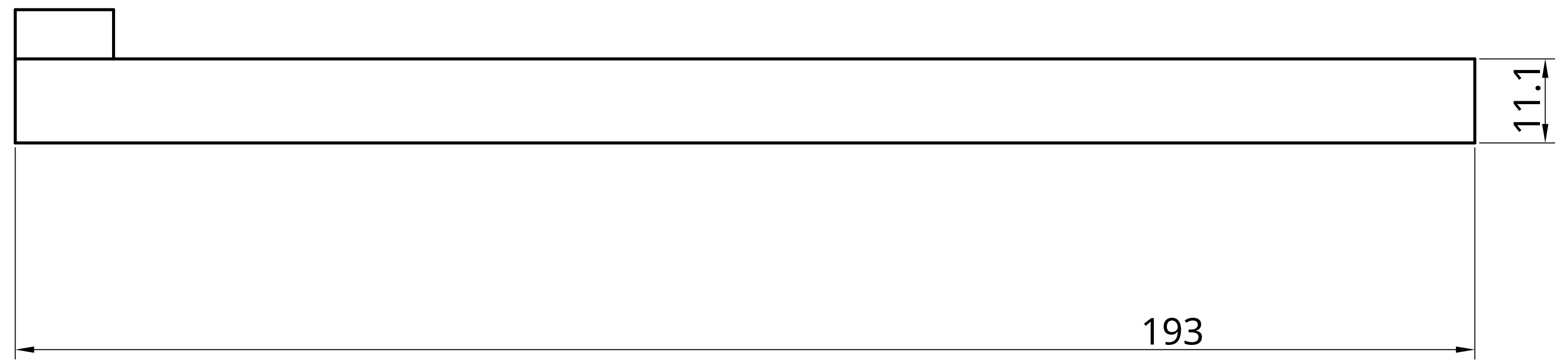
Power transmission system and fastened to
the drone

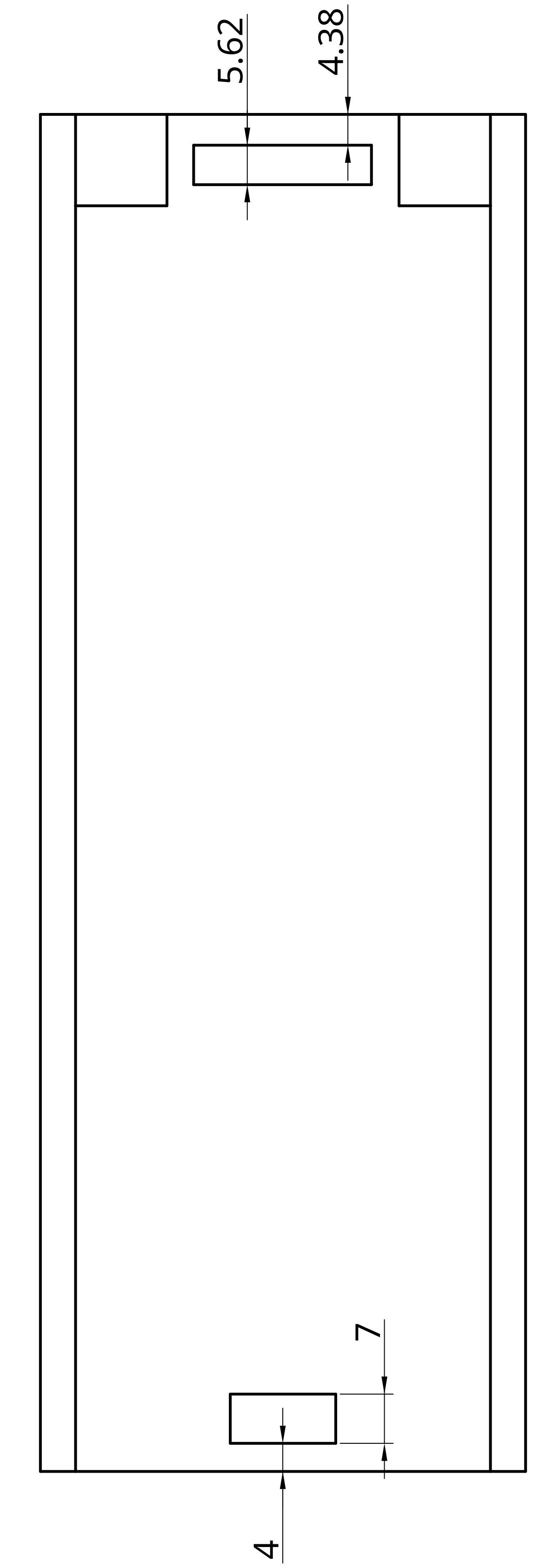


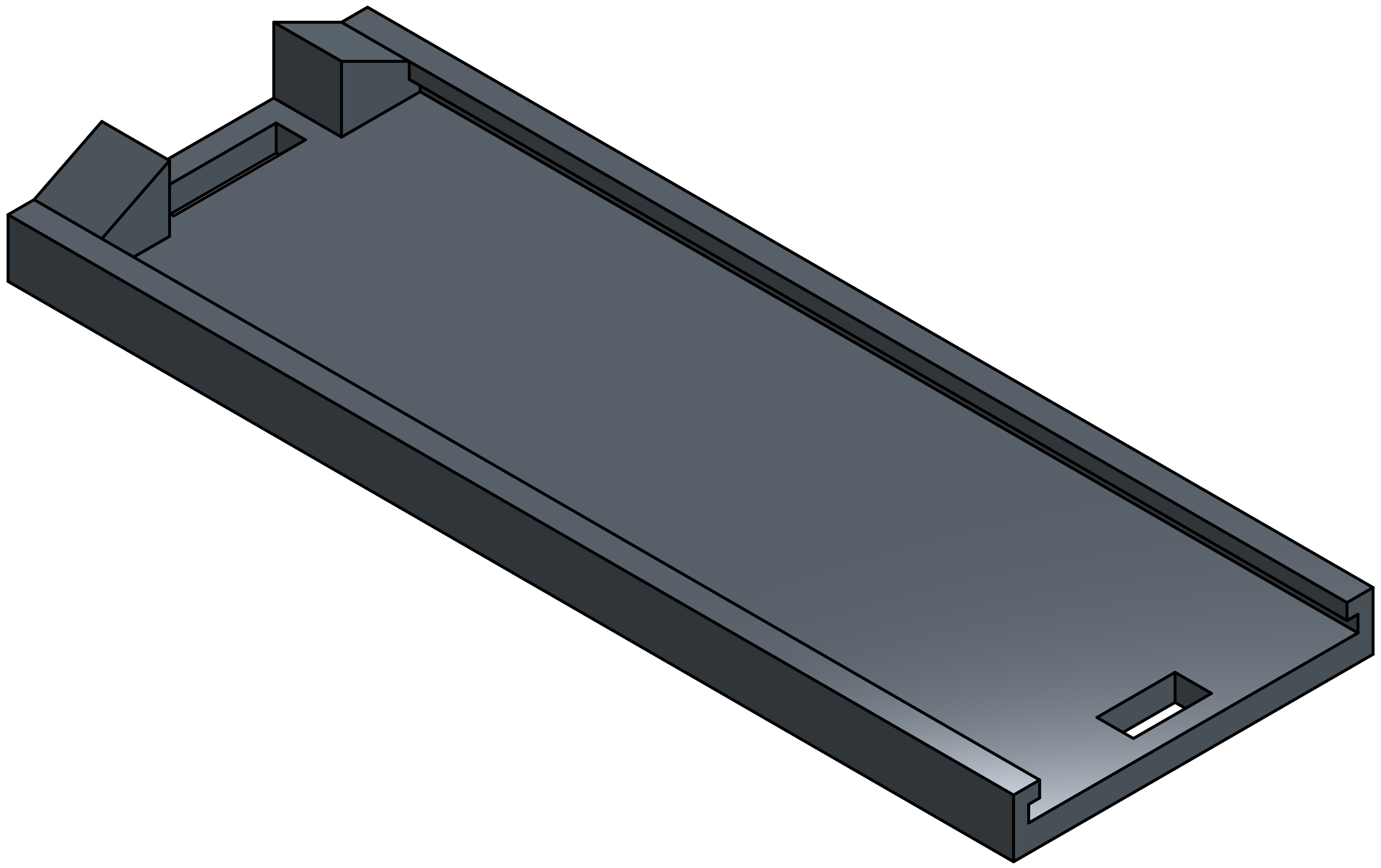
DWG NO.	SIZE	SCALE	SHEET	REV.
ENTER BASE BATTERY	A3	1:1	26 of 29	-











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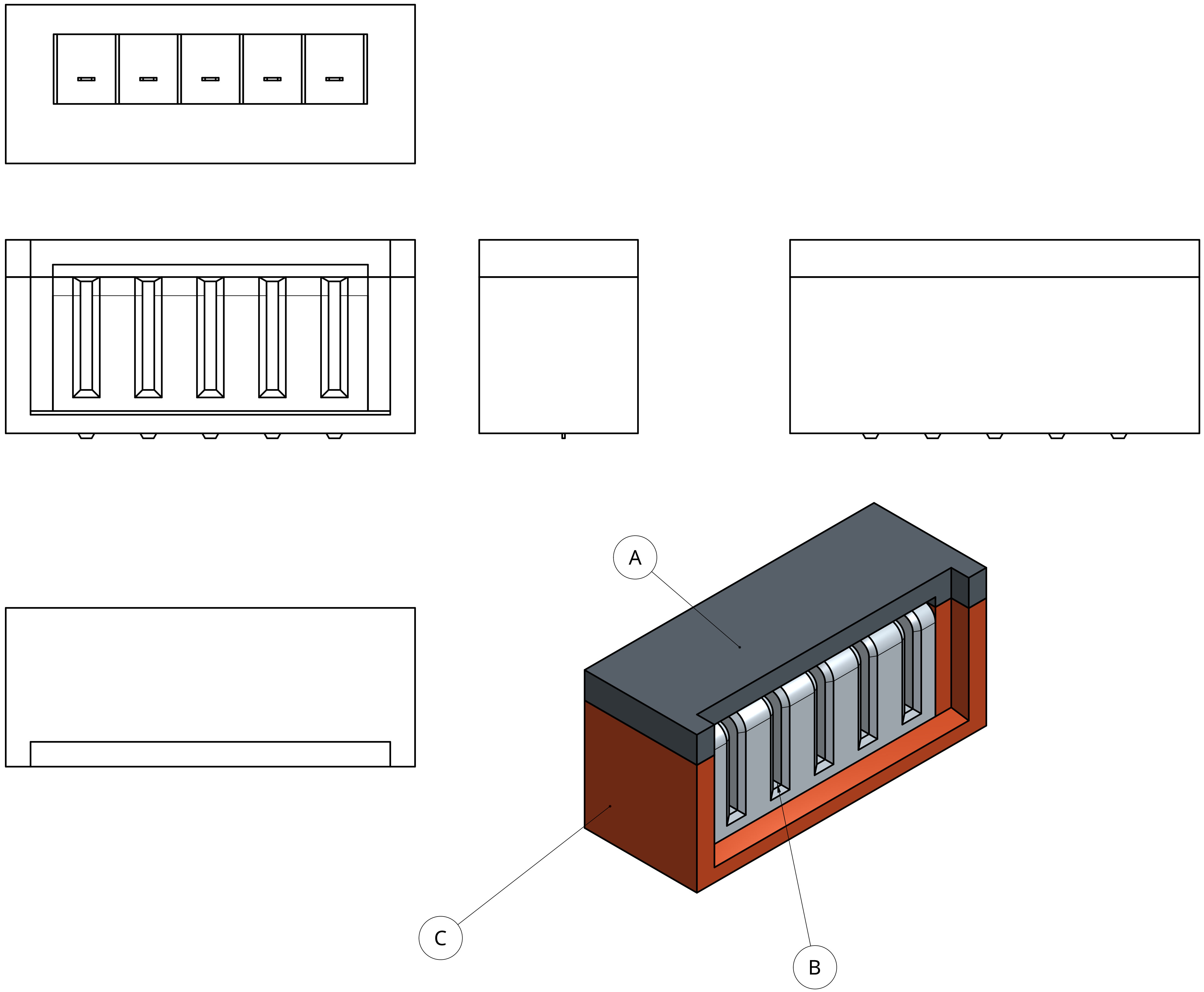
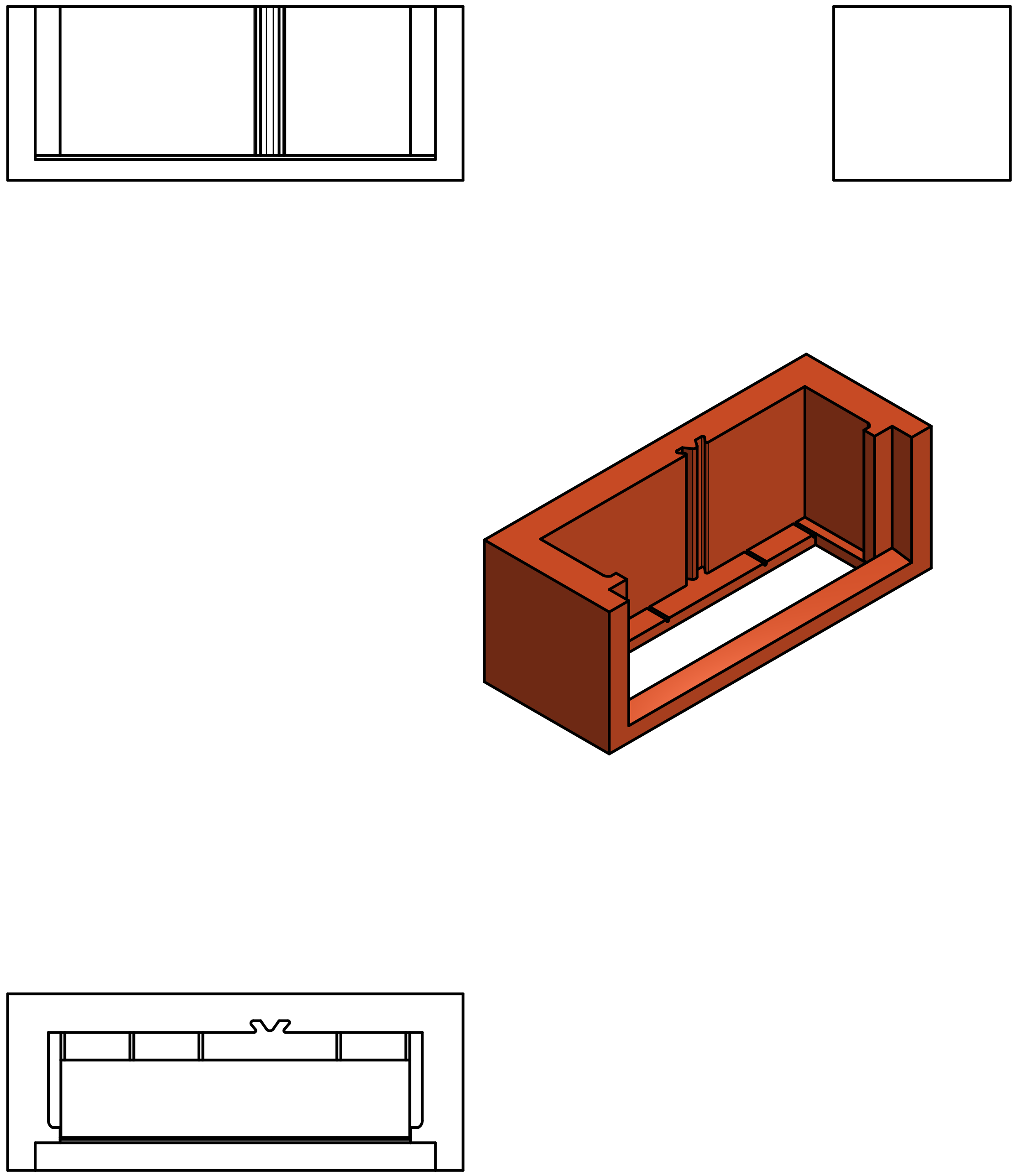
DWG NO.	SIZE	SCALE	SHEET	REV.
SET ENTER BASE BATTERY	A3	1:1	27 of 29	-



DWG NO.	SIZE	SCALE	SHEET	REV.
----	A3	3:1	28 of 29	-



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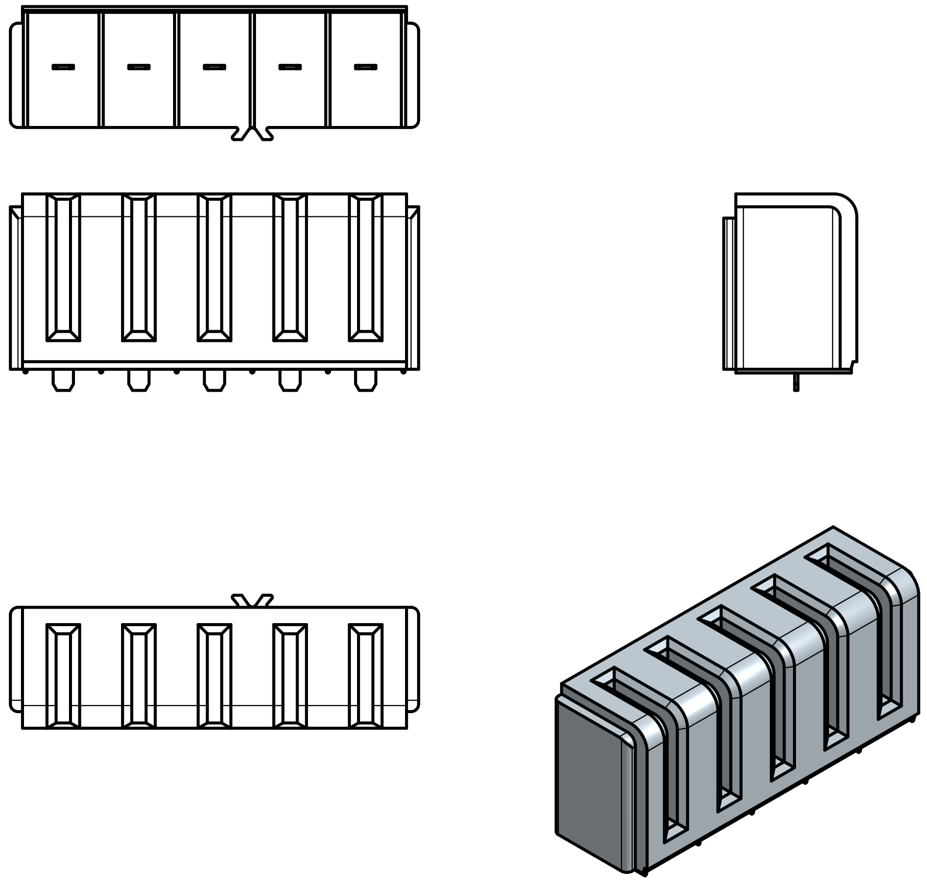

Manufacturing
Printing 3d

DWG NO.	SIZE	SCALE	SHEET	REV.
CHASIS FEMALE CONNECTOR SYSTEM	A3	2:1	29 of 29	-