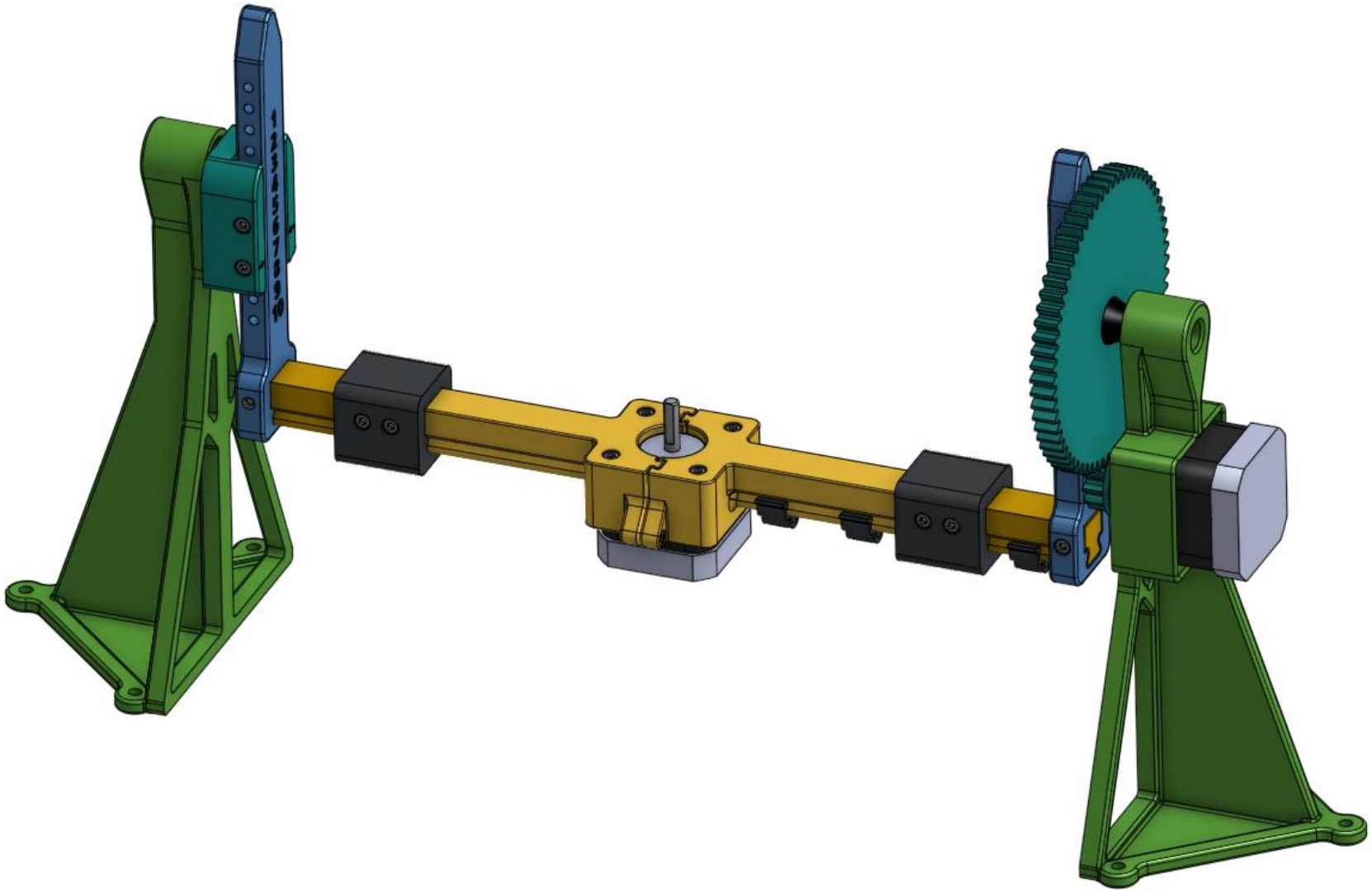
Assembly instructions for

OpenScan Classic Premium



Assembly of the standard version

(assembly of the extensionsions see pages 20-23)

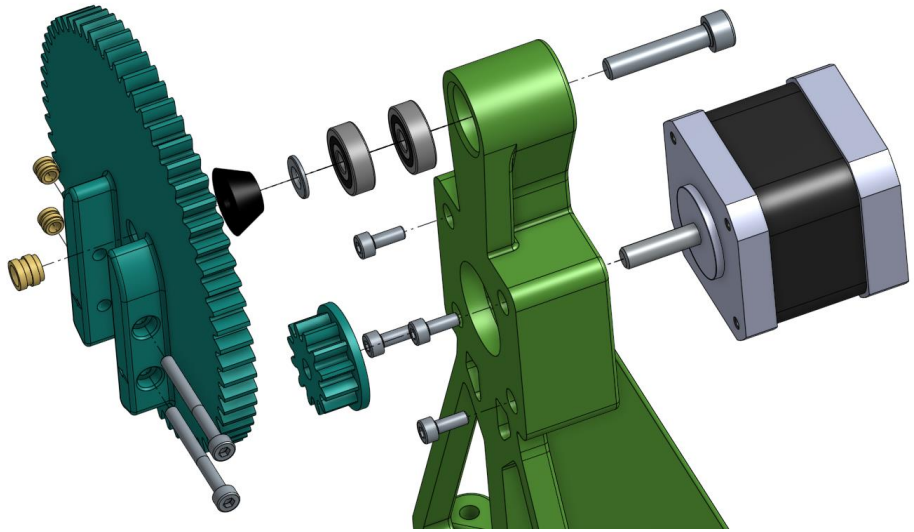
Bill of material (BOM)

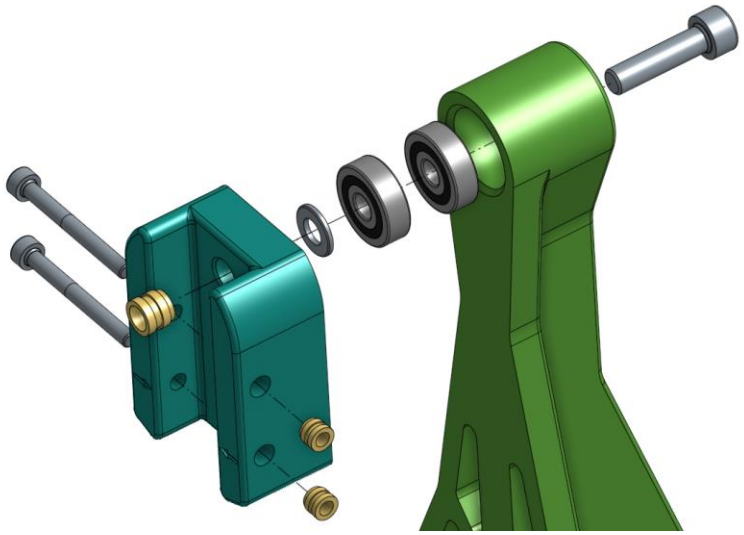
Description	Quantity
Hex socket head screw M3x8	8
Hex socket head screw M3x10	2
Hex socket head screw M3x25	2
Hex socket head screw M3x30	4
Hex socket head screw M5x20	1
Hex socket head screw M5x25	1
Washer M5	2
Heated Insert M3x4	8
Heated Insert M5x6	2
Ball bearing 625-2RS	4
Nema 17 Stepper Motor (>13Ncm)	1
Nema 17 Stepper Motor (>40Ncm)	1
Stand1_Nema17.step	1
Stand2.step	1
Spacer_Adapter_Gear.step (Measure shaft stick out for correct version)	1
Gear_Small.step	1
Adapter_Gear.step	1
Adapter.step	1
Rotary_Arm.step	2
Turntable_Base1.step	1
Turntable_Base2.step	1

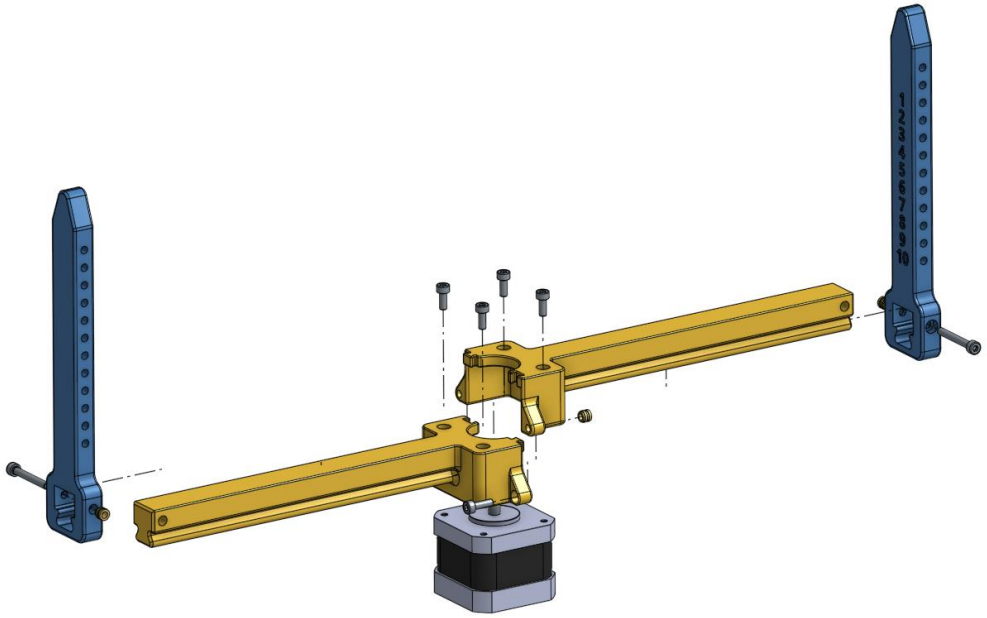
Assembly of the standard version

(assembly of the extensionsions see pages 20-23)

Overview

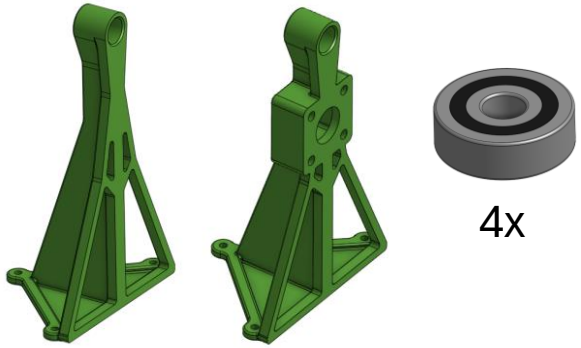






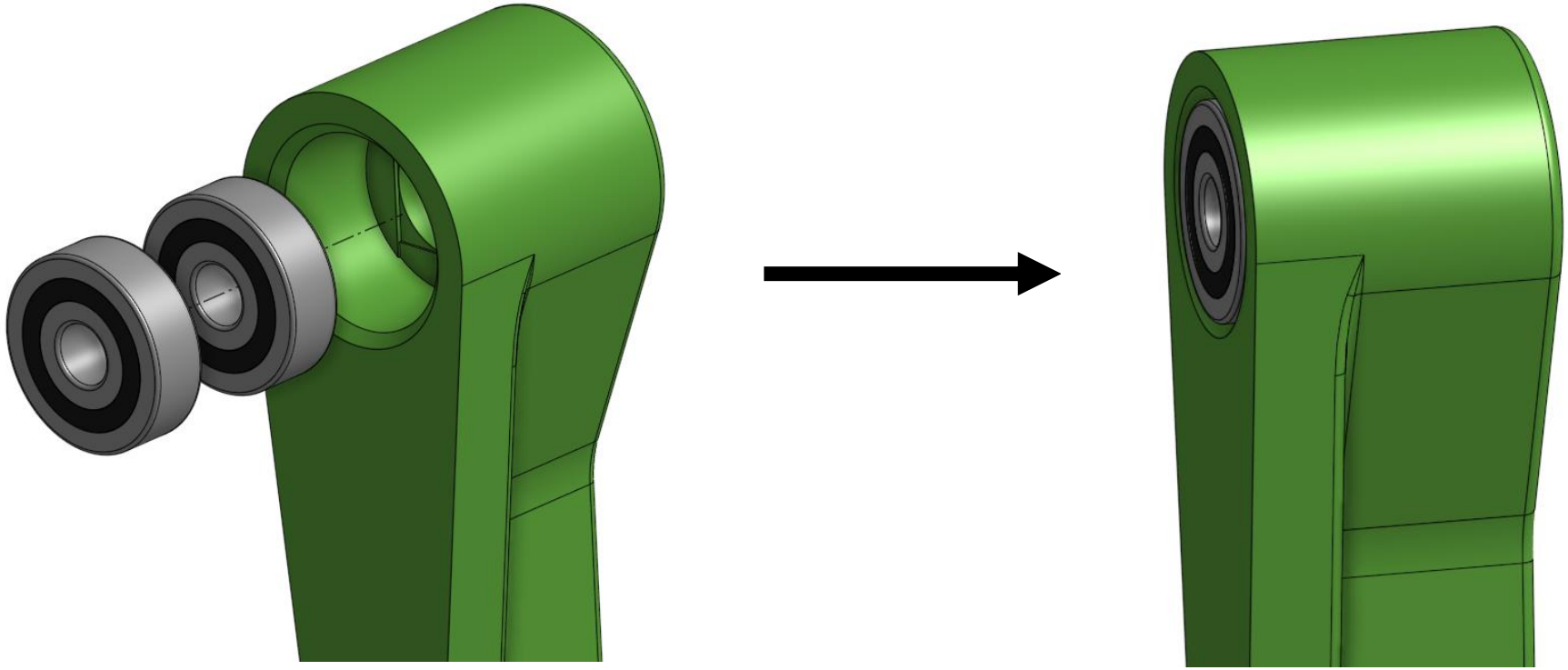
Assembly of the standard version

(assembly of the extensionsions see pages 20-23)



4x

Use a soft face hammer
or vice to drive in the bearings
until they sit flush



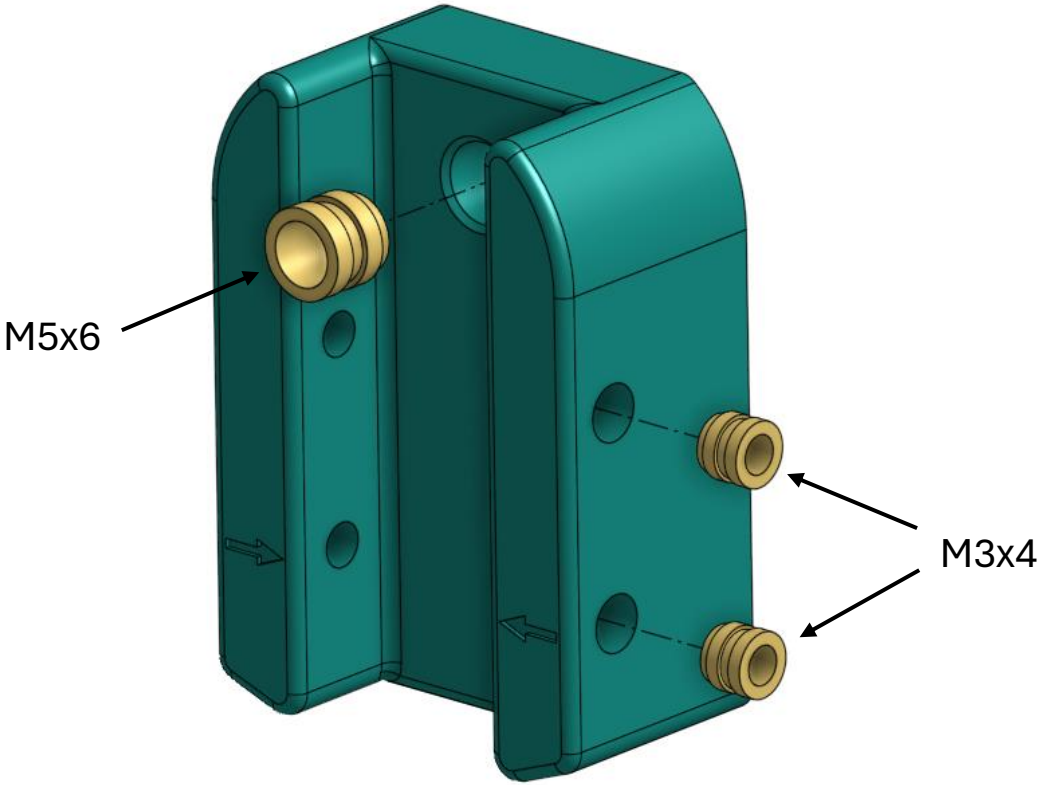
Assembly of the standard version

(assembly of the extensionsions see pages 20-23)

2x
M3x4

1x
M5x6

Use a soldering iron to put in the heated inserts
(Temperature: print temperature +10%)



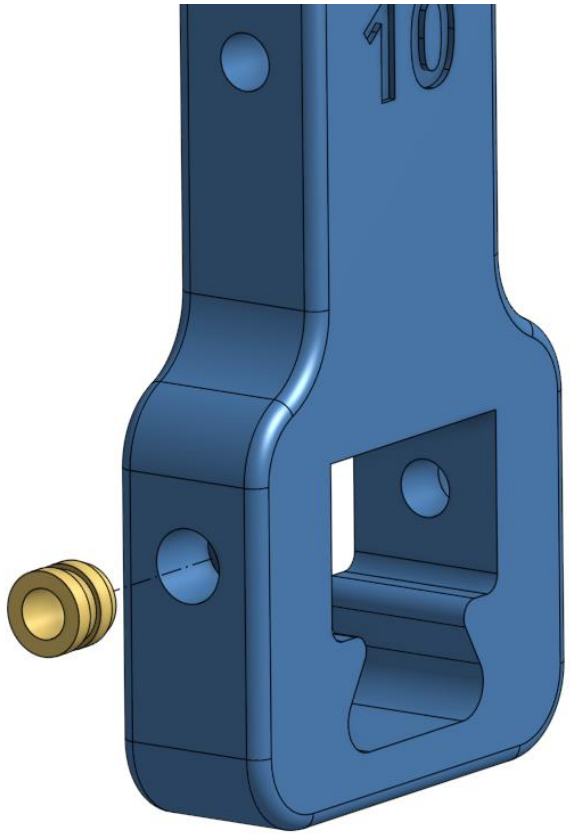
Assembly of the standard version

(assembly of the extensionsions see pages 20-23)

2x

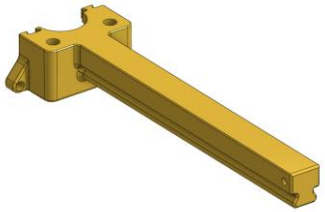
2x
M3x4

Use a soldering iron to put in the heated inserts
(Temperature: print temperature +10%)



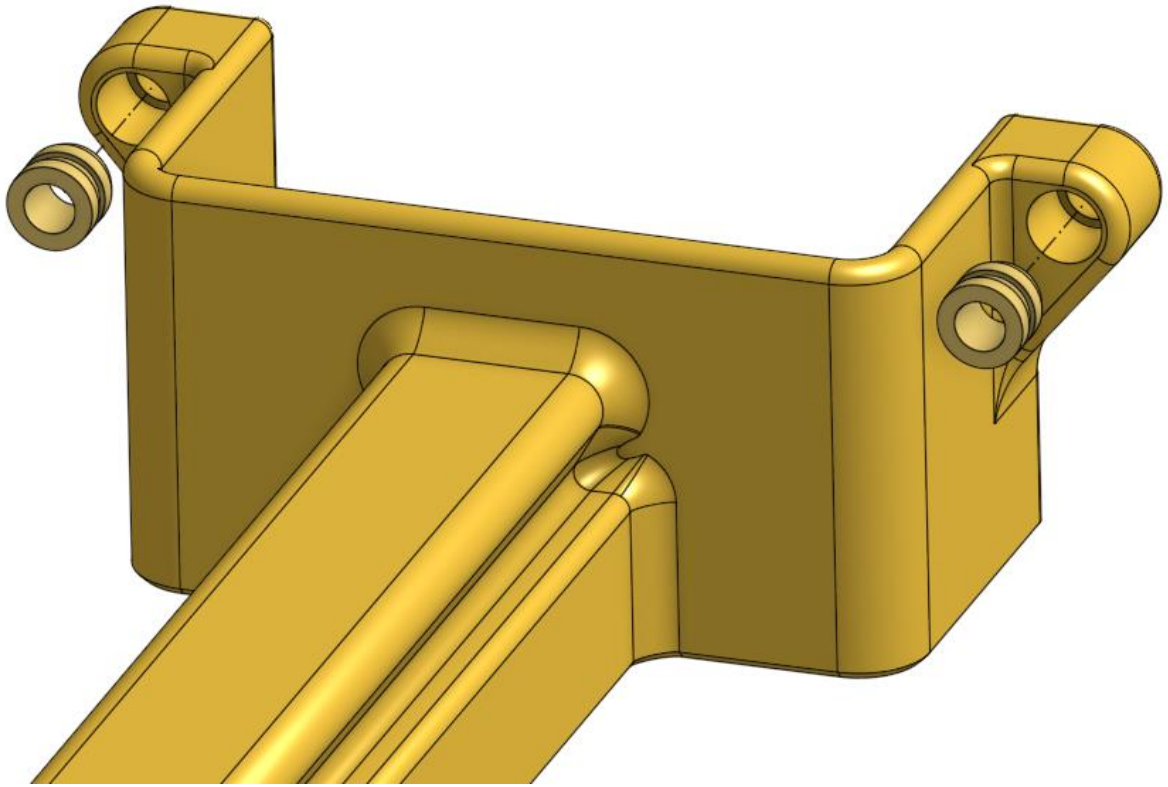
Assembly of the standard version

(assembly of the extensionsions see pages 20-23)



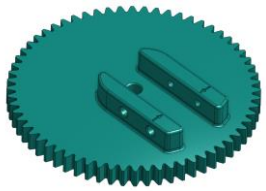
2x
M3x4

Use a soldering iron to put in the heated inserts
(Temperature: print temperature +10%)



Assembly of the standard version

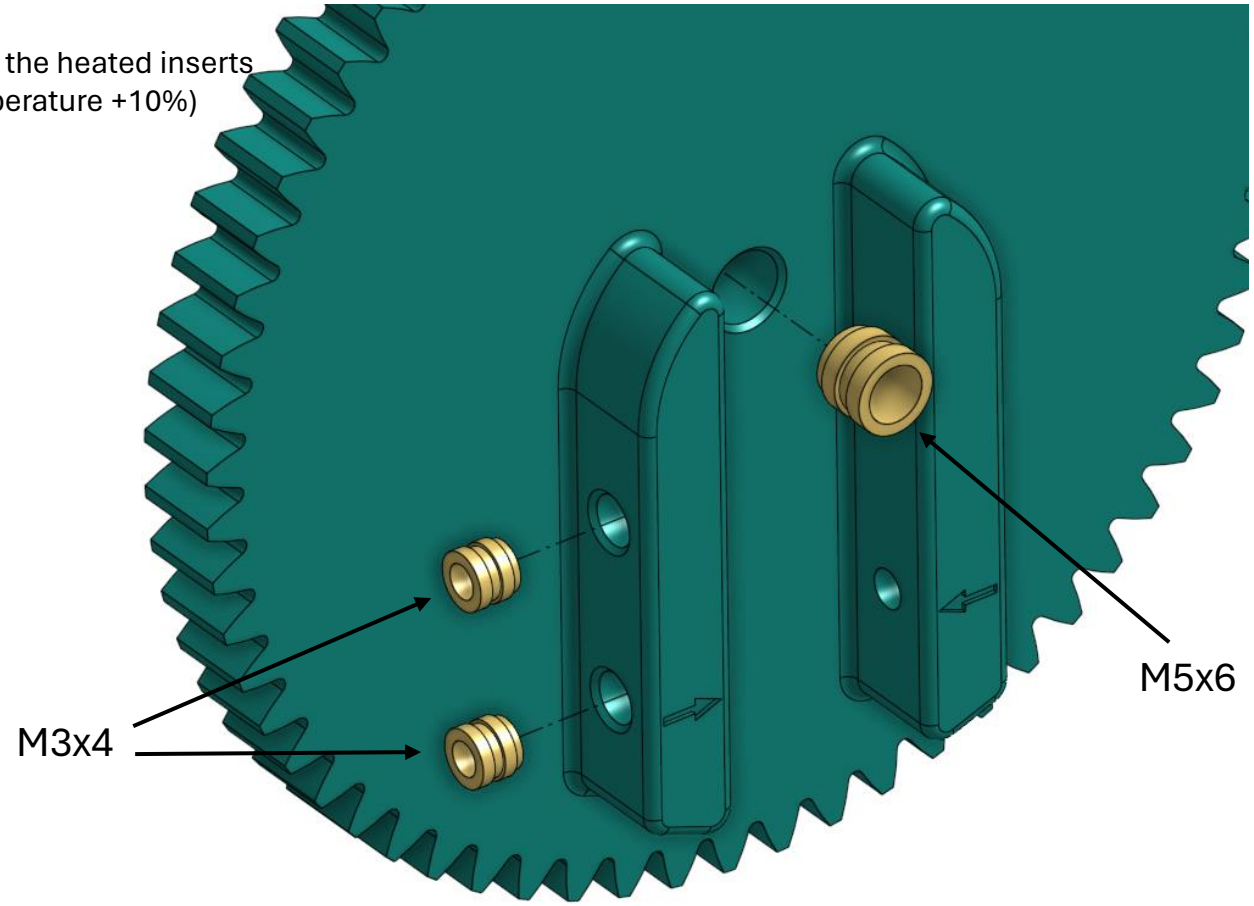
(assembly of the extensionsions see pages 20-23)



2x
M3x4

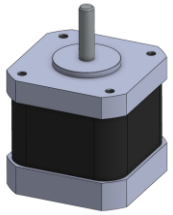
1x
M5x6

Use a soldering iron to put in the heated inserts
(Temperature: print temperature +10%)



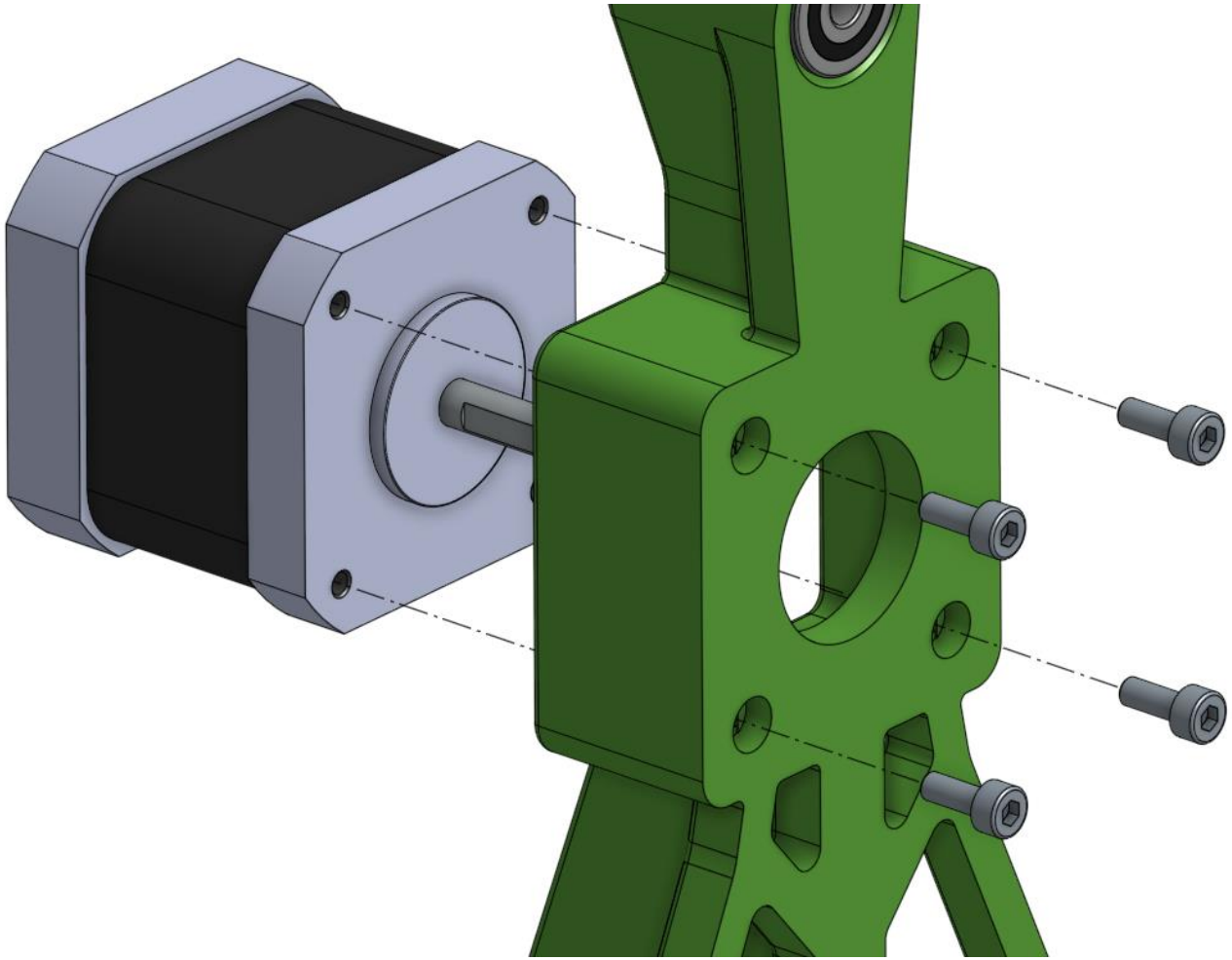
Assembly of the standard version

(assembly of the extensionsions see pages 20-23)



>40 Ncm

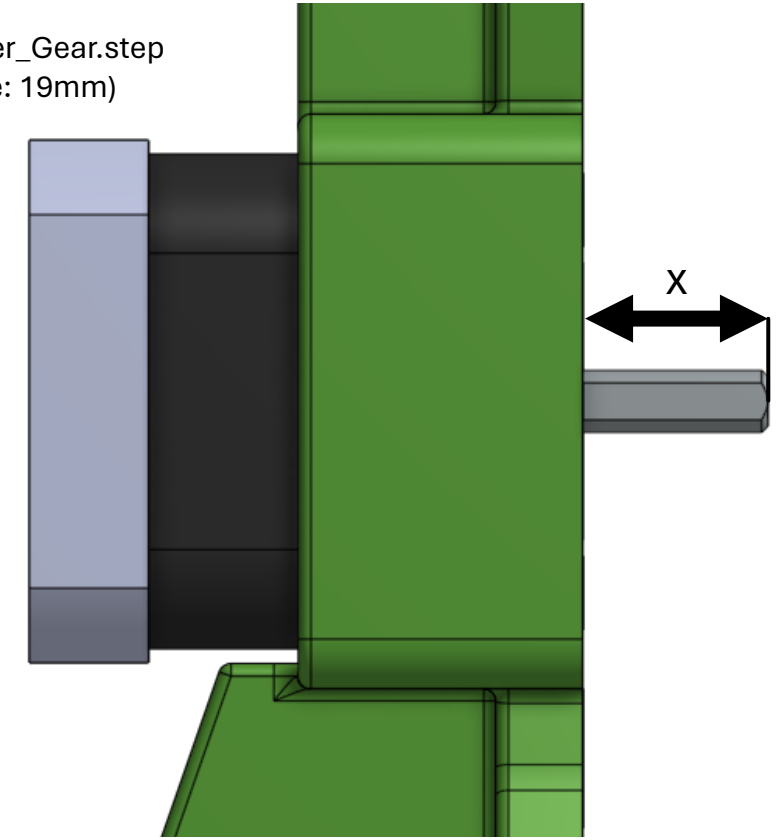
4x
M3x8



Assembly of the standard version

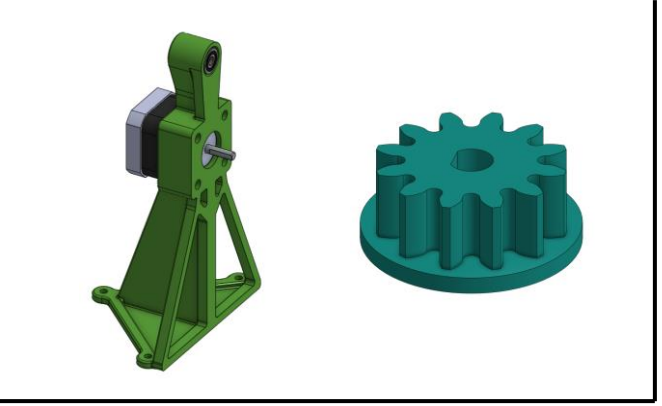
(assembly of the extensionsions see pages 20-23)

Measure the stick out of the stepper motor shaft from the face of the printed stand.
Print the next bigger version of Spacer_Adapter_Gear.step
(e.g. measured value: 17.8mm; printed file: 19mm)

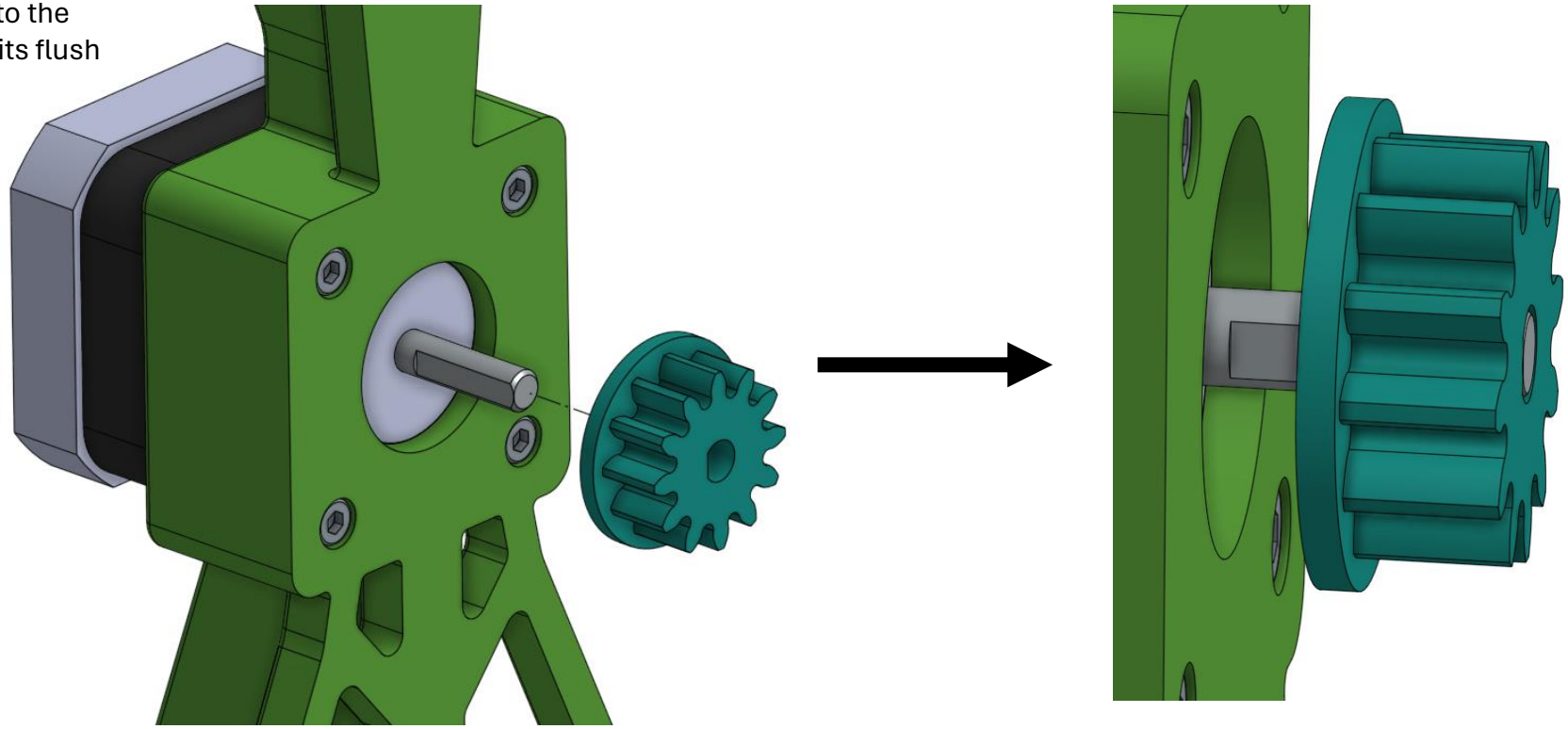


Assembly of the standard version

(assembly of the extensionsions see pages 20-23)

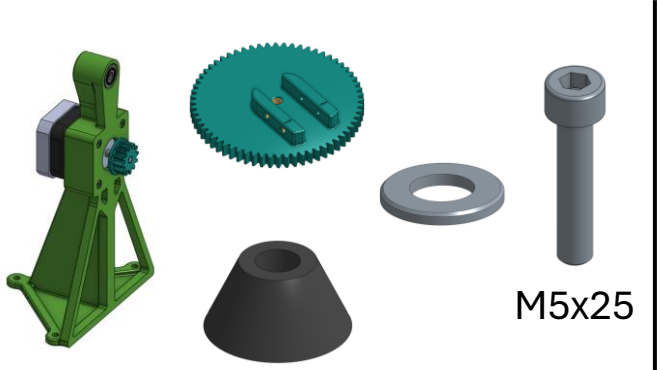


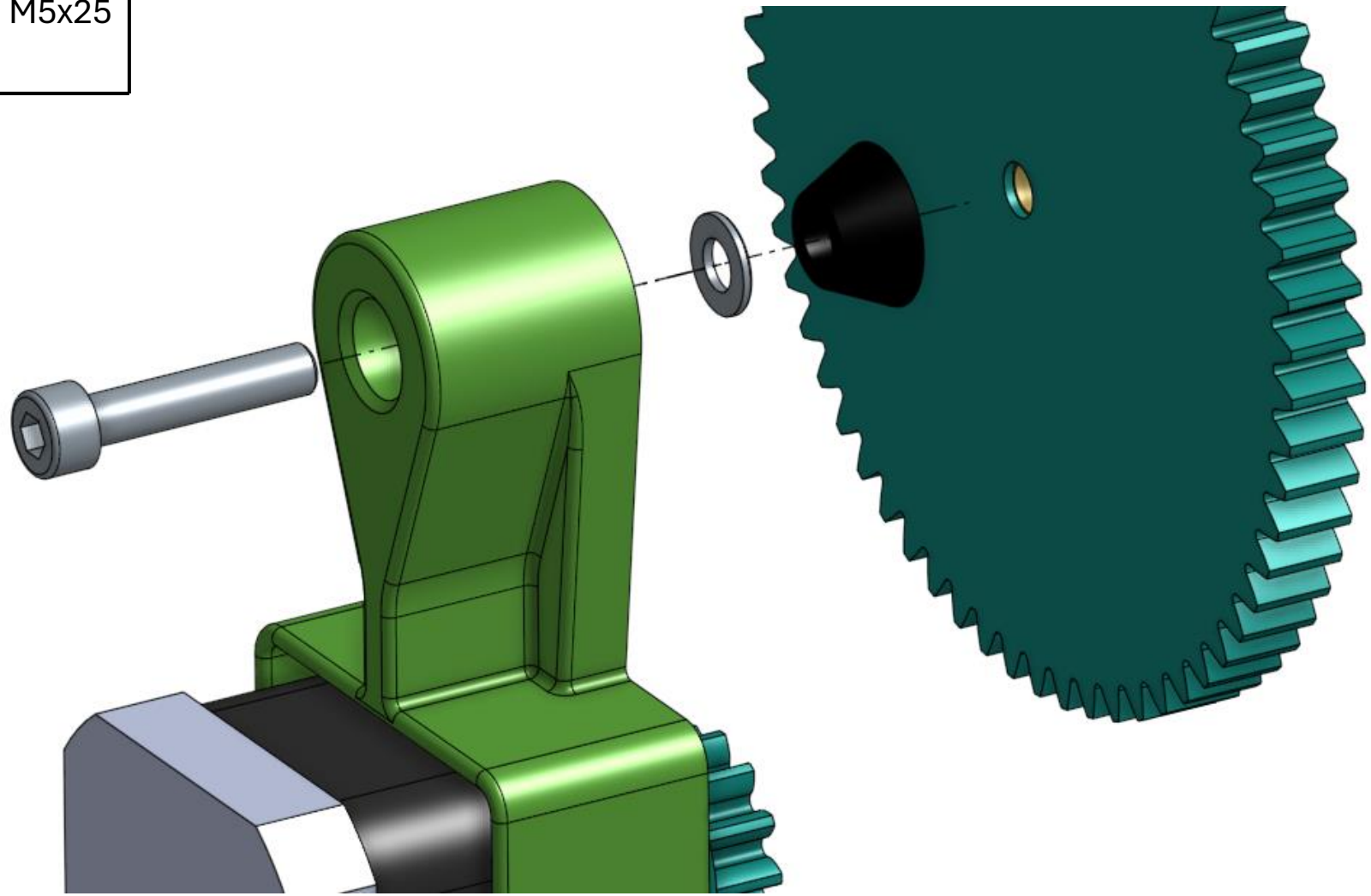
Use a soft face hammer to carefully drive the gear onto the stepper motor shaft until it sits flush



Assembly of the standard version

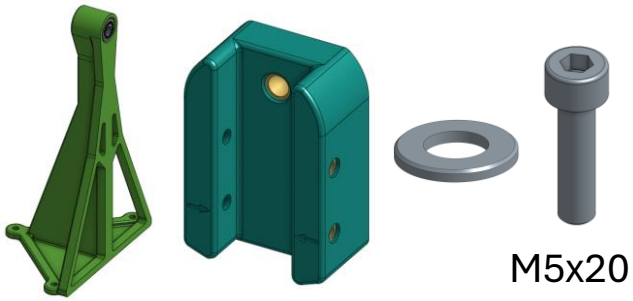
(assembly of the extensionsions see pages 20-23)



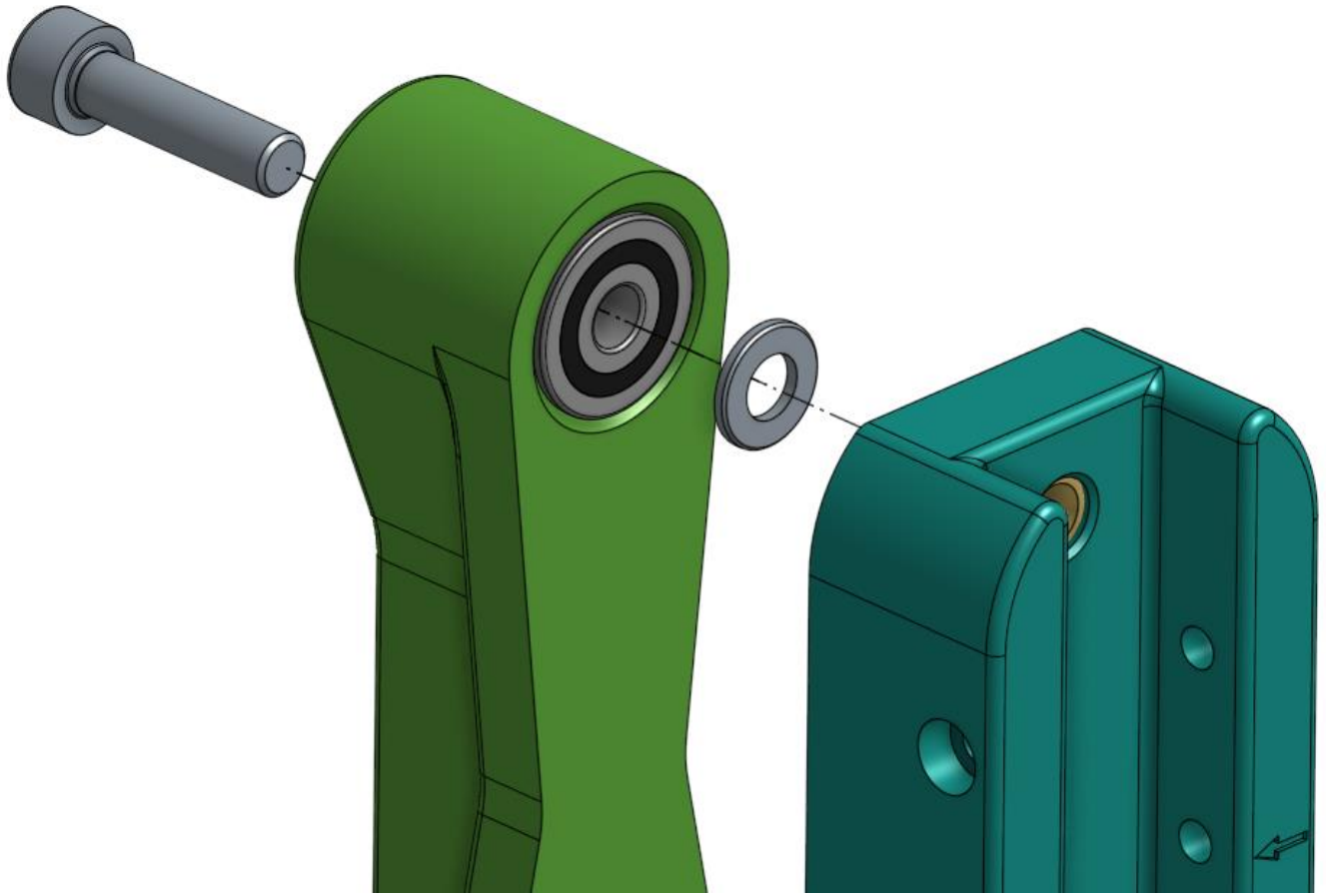


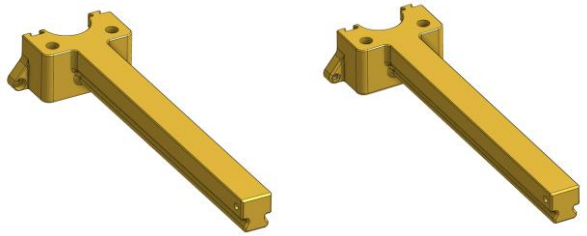
Assembly of the standard version

(assembly of the extensionsions see pages 20-23)



M5x20

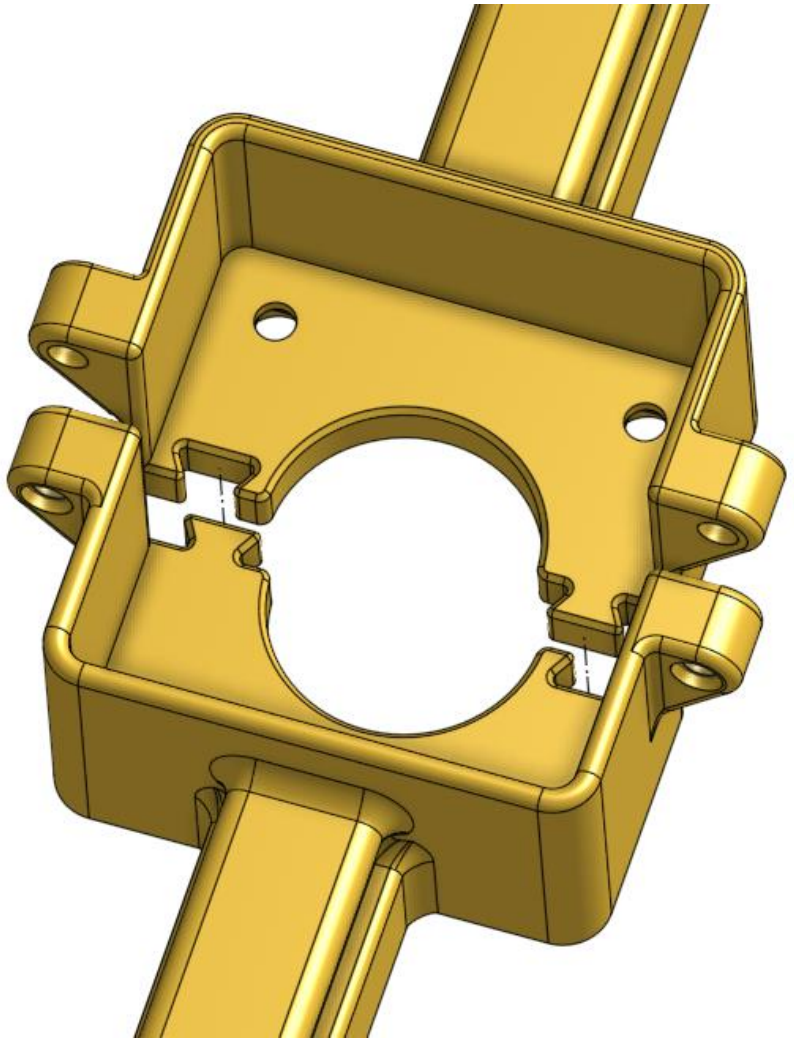


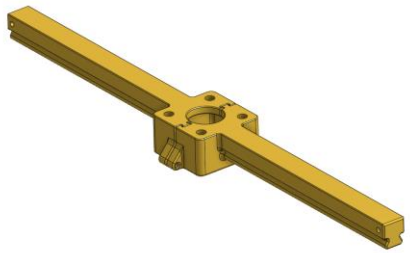


Assembly of the standard version

(assembly of the extensionsions see pages 20-23)

Use a soft face hammer to carefully slide the dovetail guides together until the faces sit flush

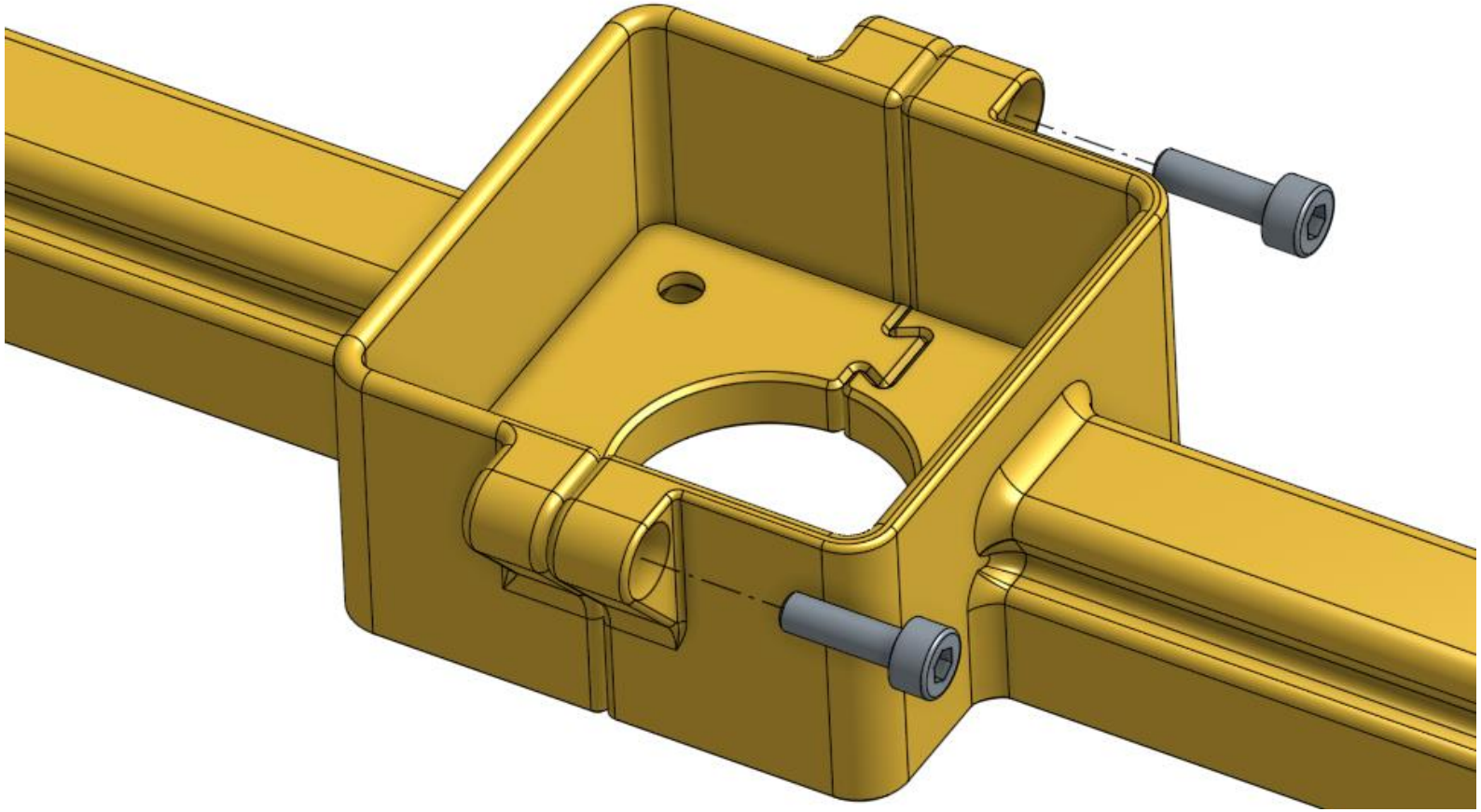


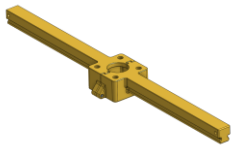


2x
M3x10

Assembly of the standard version

(assembly of the extensionsions see pages 20-23)



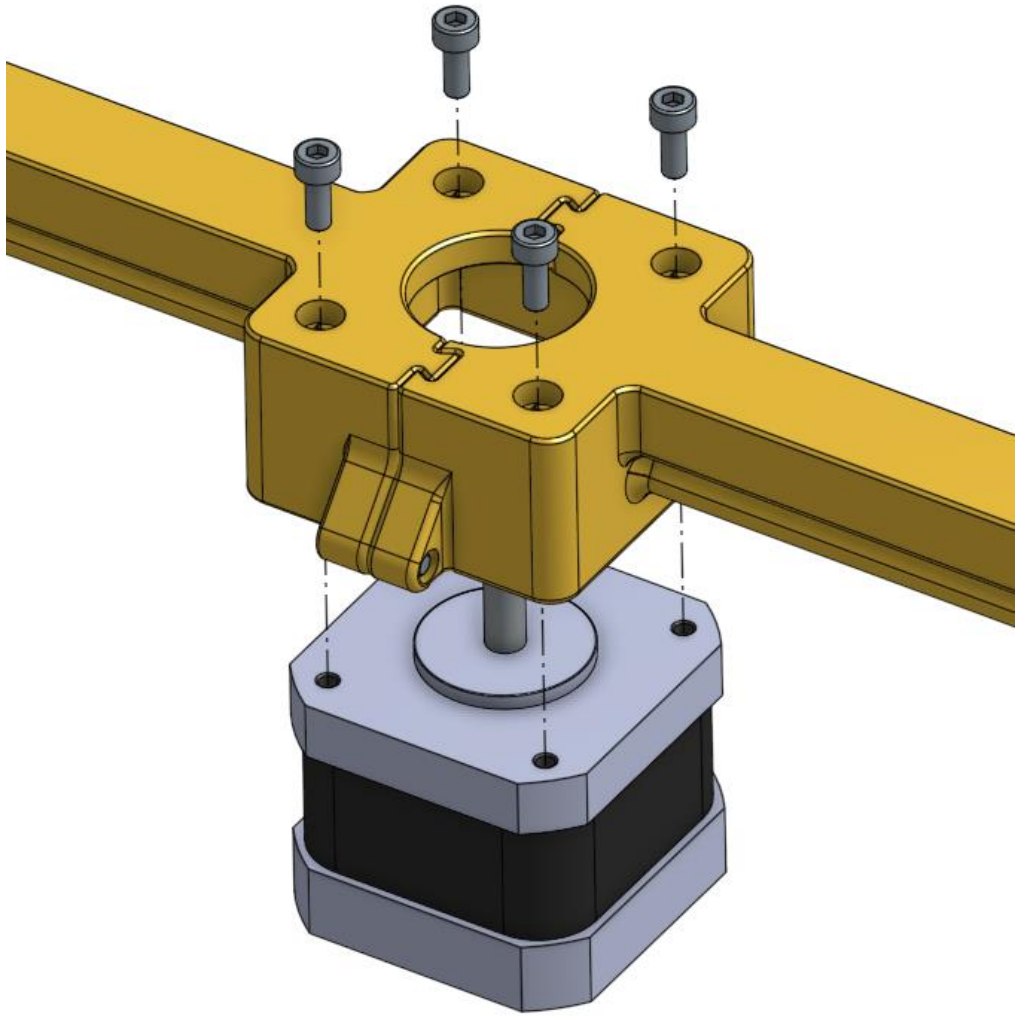


>13 Ncm

4x
M3x8

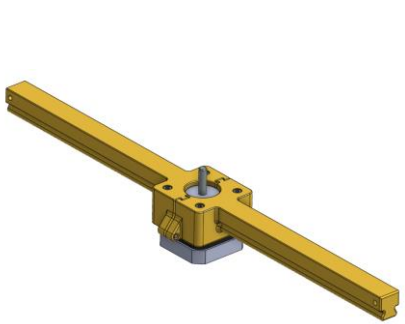
Assembly of the standard version

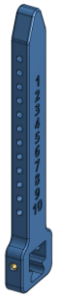
(assembly of the extensionsions see pages 20-23)



Assembly of the standard version

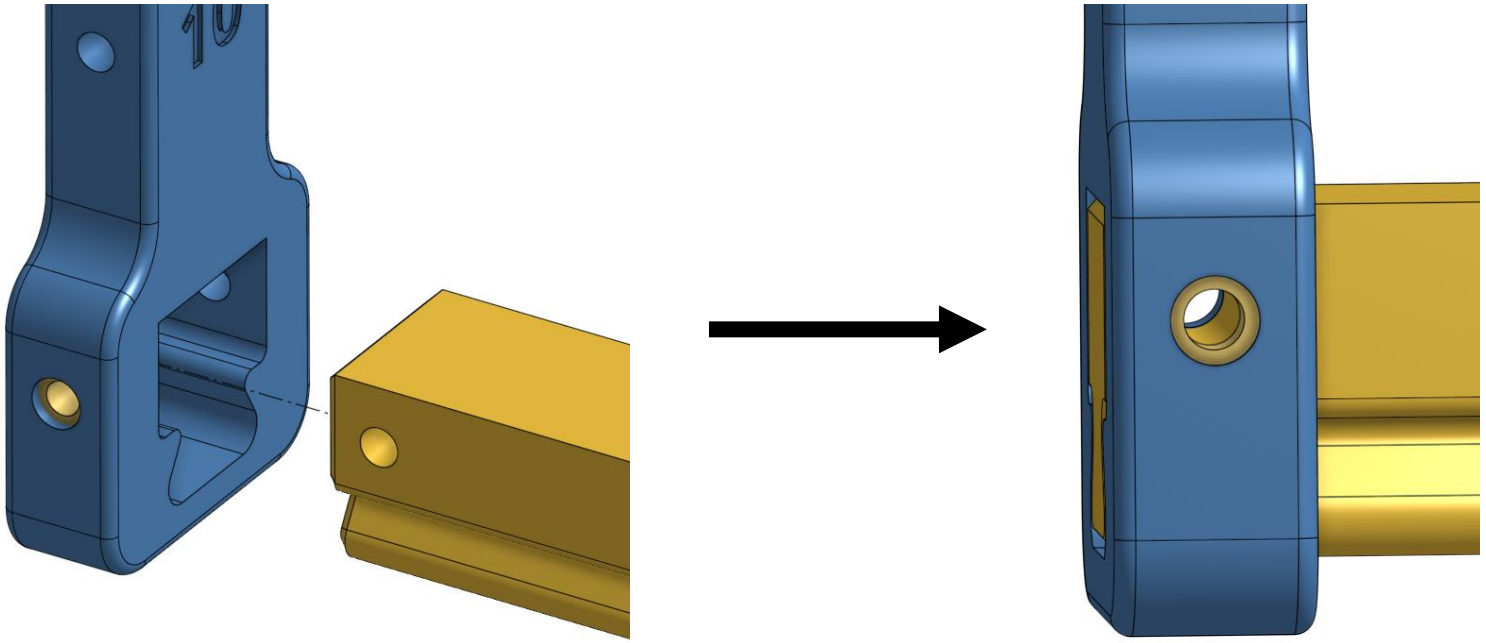
(assembly of the extensionsions see pages 20-23)





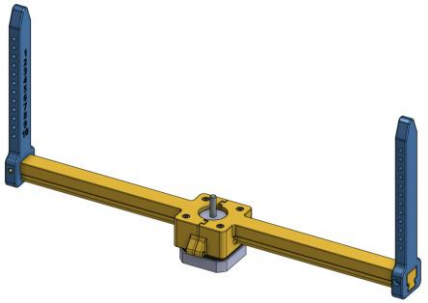
2x

Use a soft face hammer to carefully slide the arm over the beam until it sits flush. The numbered side of the arm should face the stepper motor!



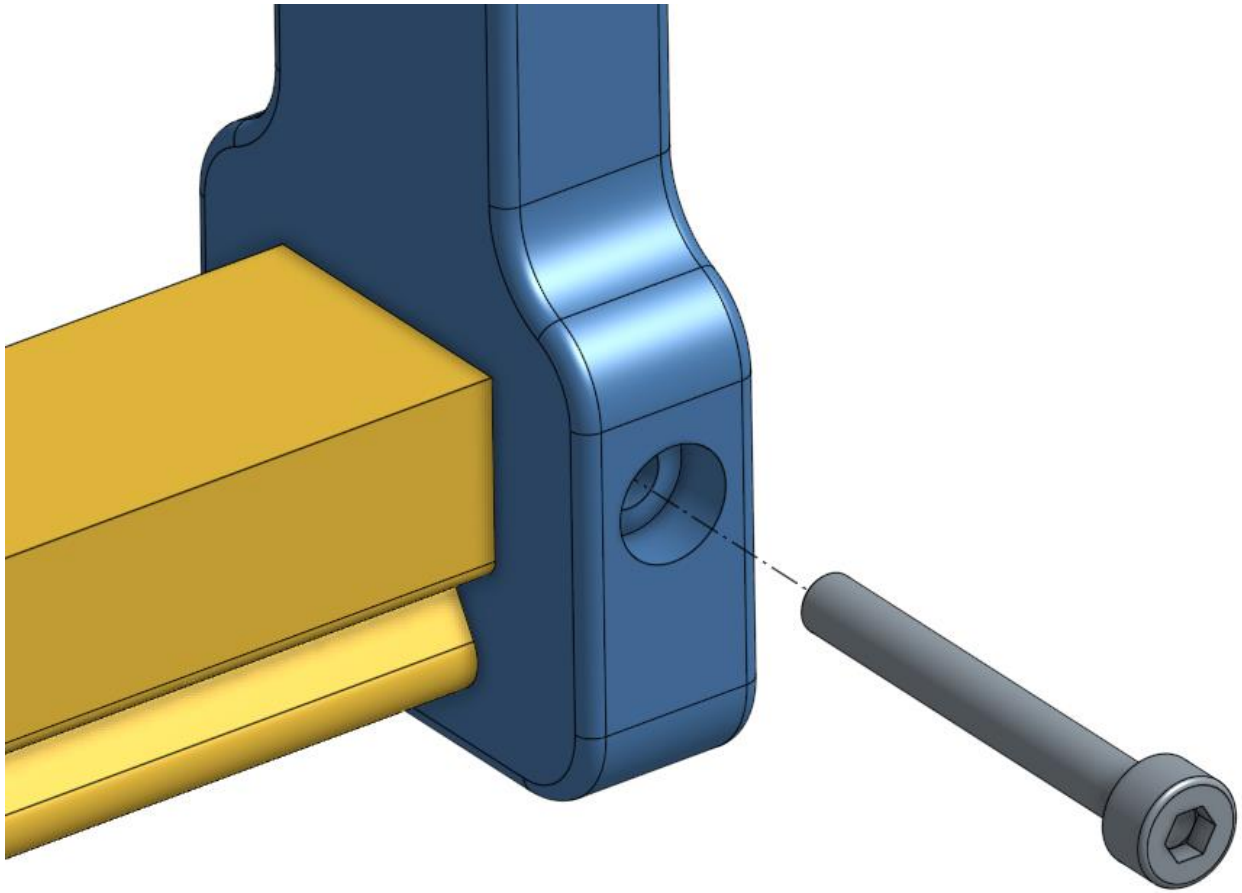
Assembly of the standard version

(assembly of the extensionsions see pages 20-23)



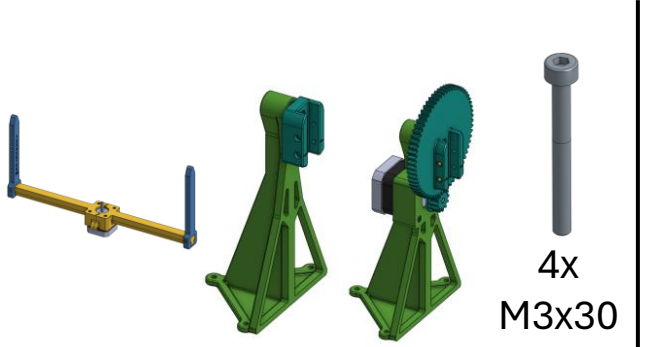
2x
M3x25

Fasten the screws on both sides of the beam.



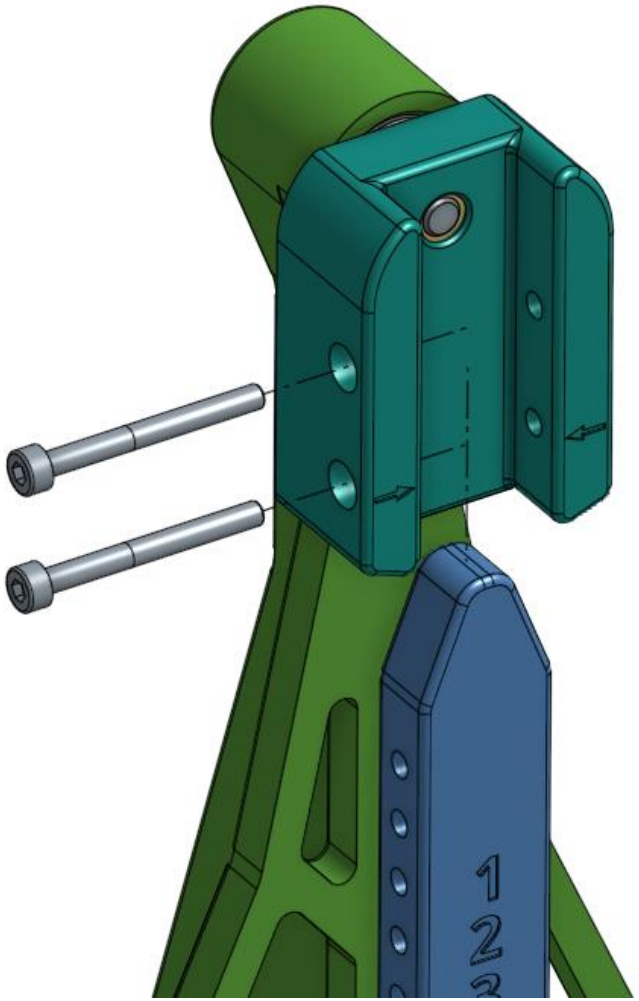
Assembly of the standard version

(assembly of the extensionsions see pages 20-23)



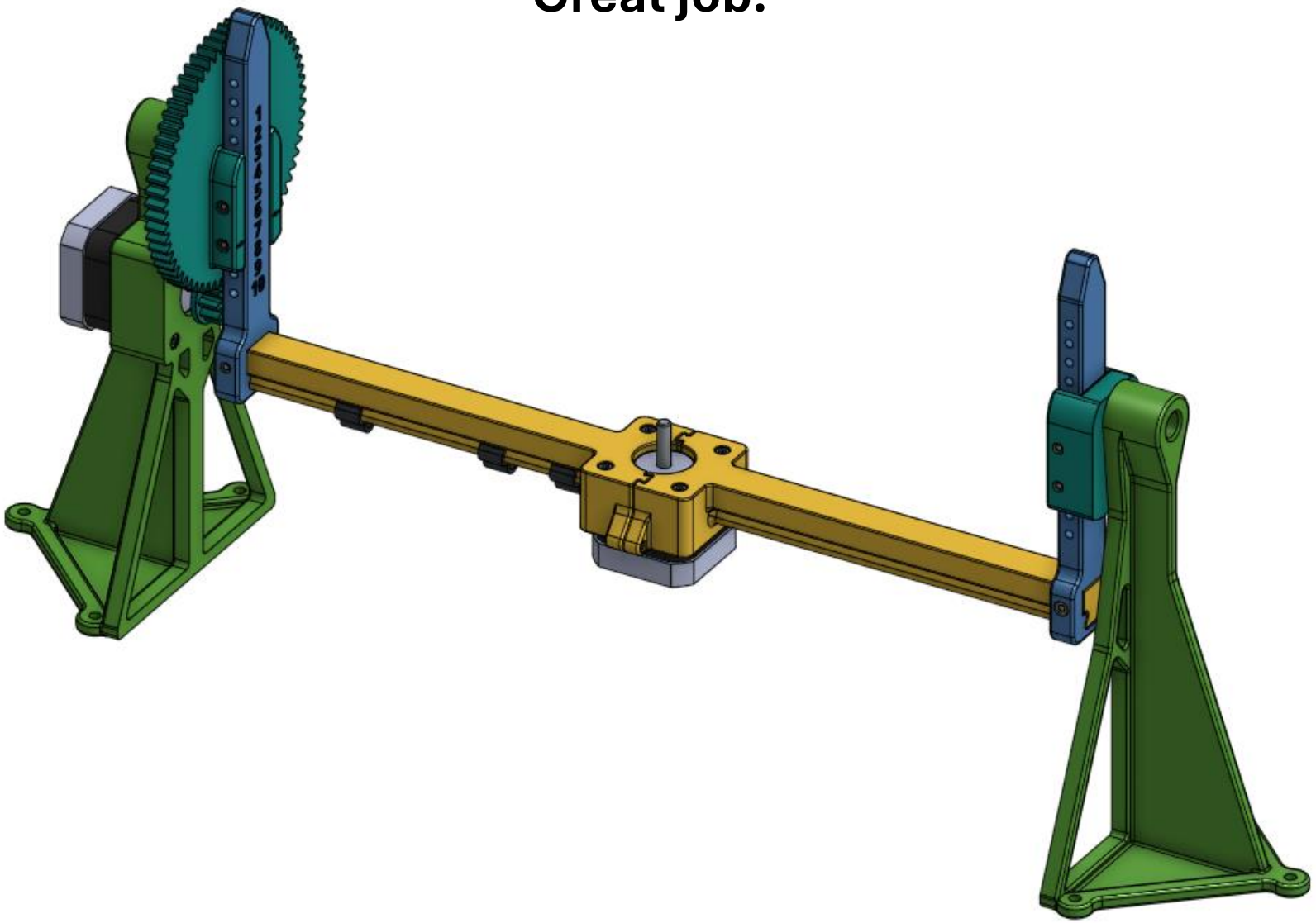
4x
M3x30

Slide the arms into the guides of the adapter and the adapter gear. Make sure the arrows match up with the same number on the arms on both sides to maintain an even height on both sides of the OpenScan Classic Premium.



Done! Your OpenScan Classic Premium should now look something like this.

Great job!



Bill of material (BOM)

(For each single extension used, usually you will need one per side)

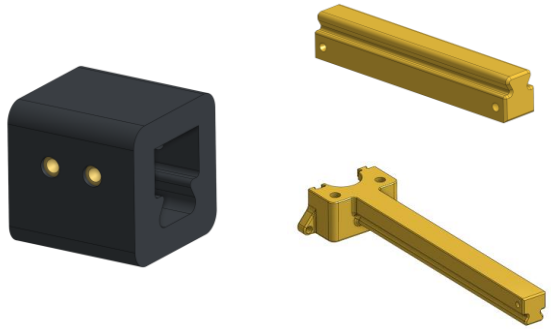
Description	Quantity
Hex socket head screw M3x25	2
Heated Insert M3x4	2
Turntable_Extension.step	1
Extension_Connector.step	1

Assembly of the extension arms

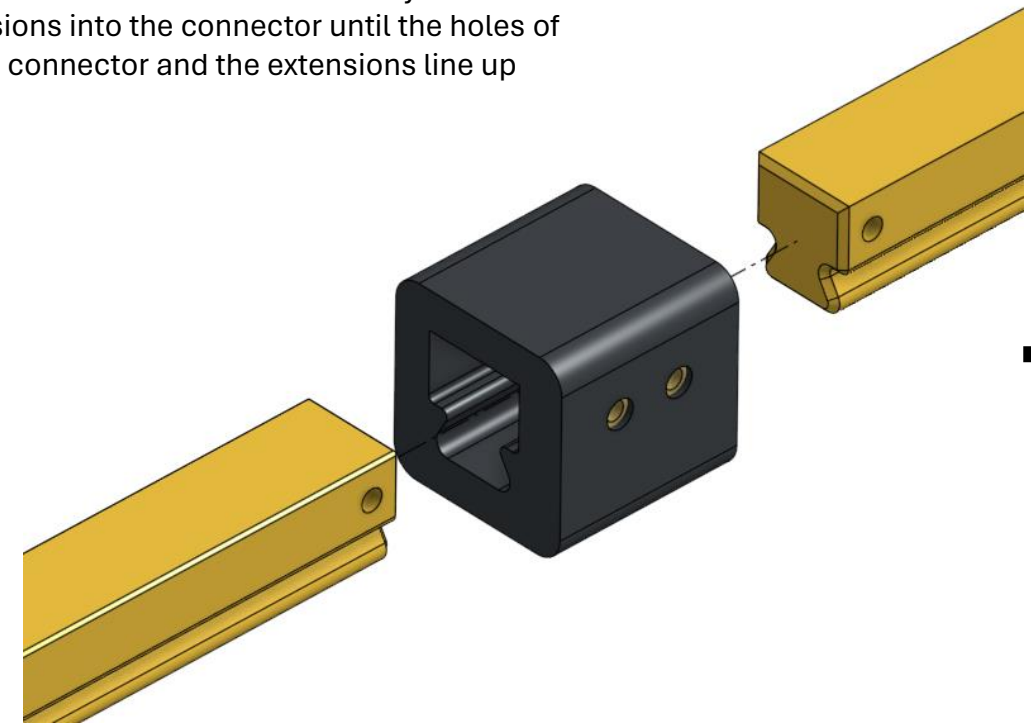
2x
M3x4

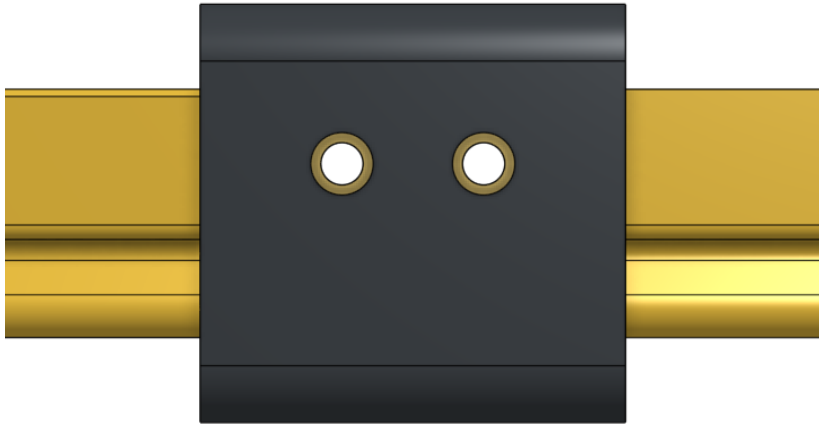
Use a soldering iron to put in the heated inserts
(Temperature: print temperature +10%)

Assembly of the extension arms

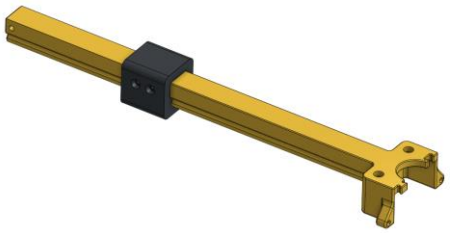


Use a soft face hammer to carefully slide the extensions into the connector until the holes of the connector and the extensions line up

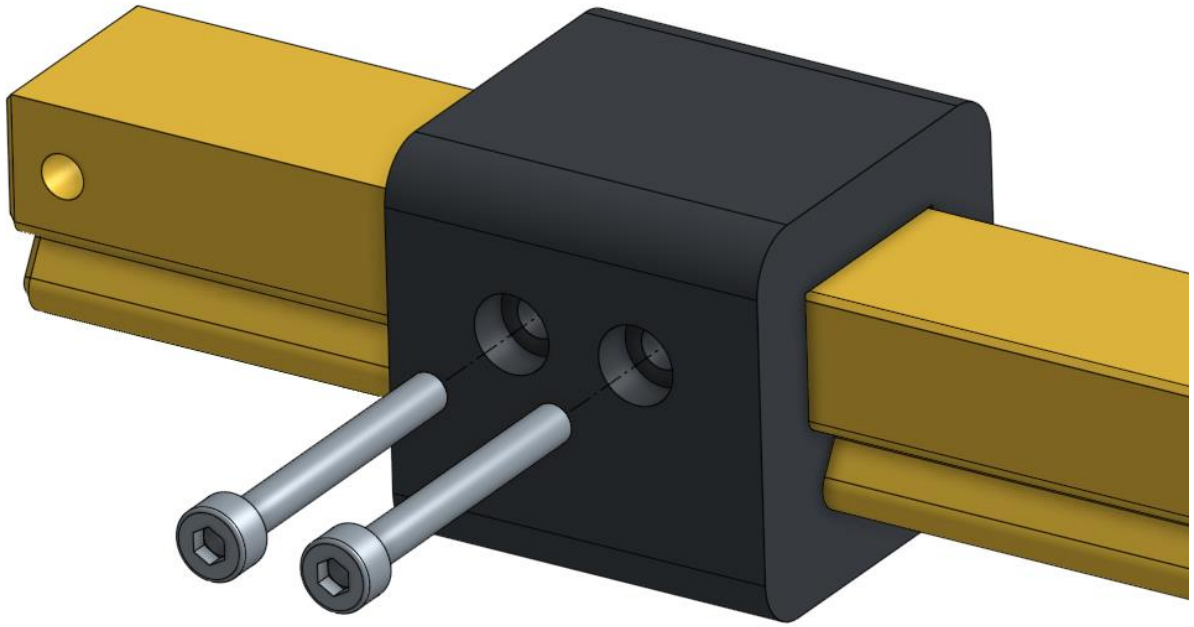




Assembly of the extension arms



2x
M3x25



Cable Management

Especially when using a DSLR camera with the pi standing next to the model rig you can use these clips on the underside of the main beam to clean up your cable management.