

Low-hardware baitcaster assembly instructions

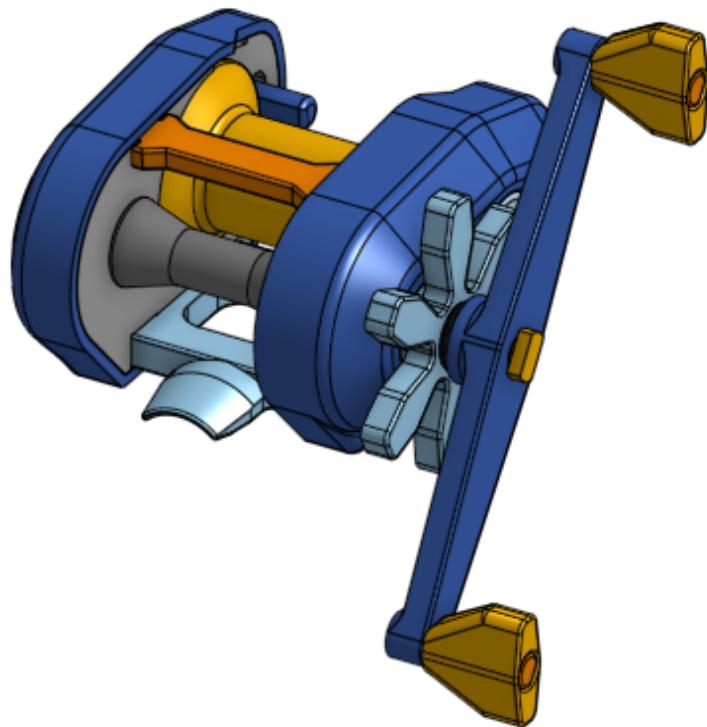


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1) Print settings

« Standard quality »: 0.15-0.2mm layer height

« High quality »: under 0.15mm layer height (0.1mm for example)

Supports: use the «tree support» type if your slicer allows it

Wall thickness: 2 if not specified

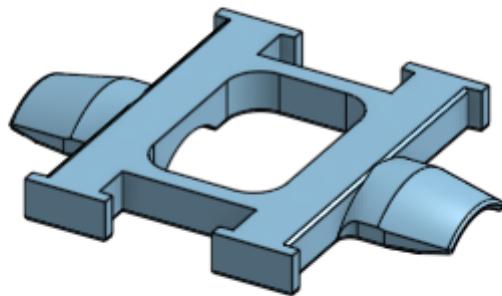
Infill: 30%

Part name	Quantity	Print settings	Post processing
brake_extension	1	Highest quality, supports on	None
brake_handle	1		None
brake_inner_disc	3	Highest quality, supports on	None
brake_outer_disc	3	Highest quality, supports on	None
cam	1	Highest quality, supports on	None
carrier_gear	1	Highest quality, supports on	None
disconnector	1	Highest quality, supports on	None
disconnector_cover	1	Standard quality, supports on	None
gearbox_cover	1	Standard quality, supports on	None
handle	1	Standard quality, supports on	None
handle_tip	2	Standard quality, supports on	None
handle_tip_axle	2	Standard quality, supports on	None
left_frame	1	Standard quality, supports on	None
reinforcement	1	Standard quality, supports on	None
right_frame	1	Standard quality, supports on	None
rod_connexion	1	Standard quality, supports on	None
satellite_gear	3	Highest quality, supports on	None
satellite_gear_axle	3	Highest quality, supports on	None
shaft	1	Highest quality, supports on	None
shaft_screw	1	Highest quality, supports on	None

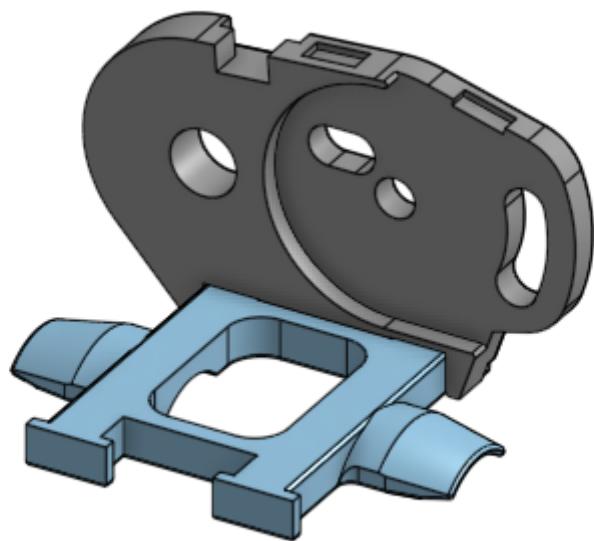
spool	1		None
spool_shaft	1	Highest quality, supports on	Sanding this shaft to make sure that the spool rotates freely around it.
Spur gear (27 teeth)	1	Highest quality, supports on	None
sun_gear	1	Highest quality, supports on	None

Additionnal components : a compression spring harvested from a pen (inner diameter 4mm)

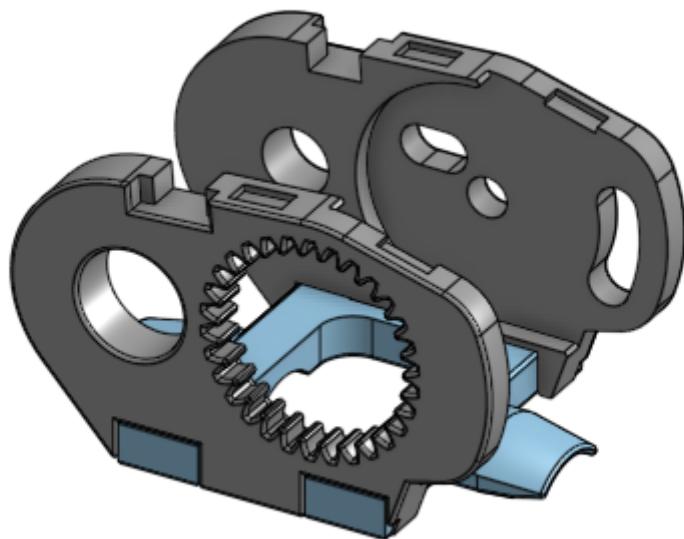
2) Assembly



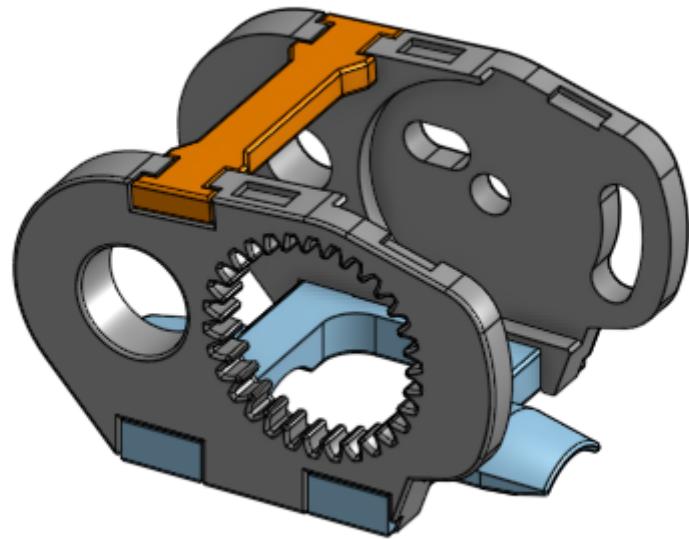
Begin with « rod_connexion »



Add « right_frame », just press it on



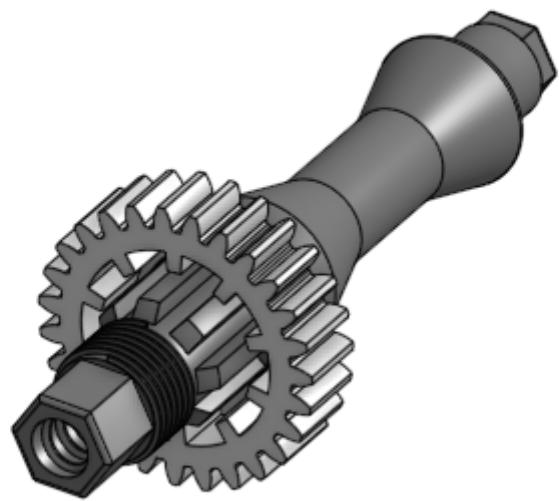
Add the left frame



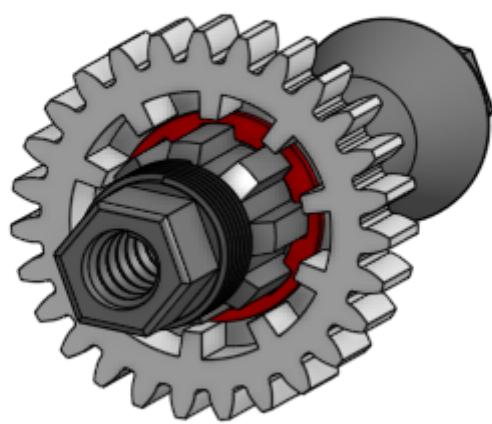
Add the reinforcement



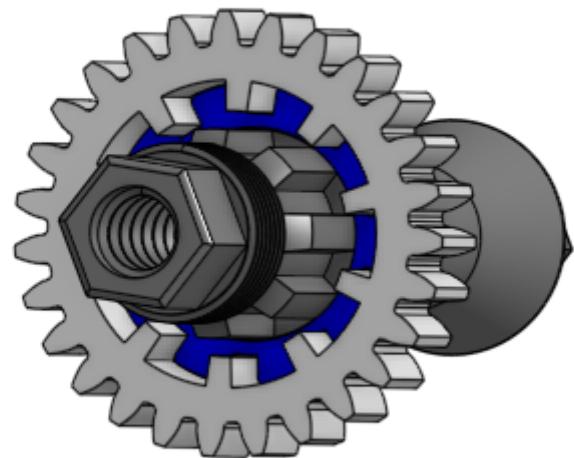
Take the shaft



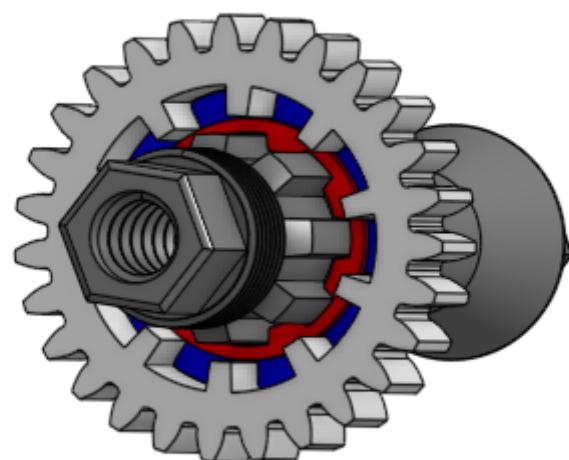
Add the spur gear (27 teeth)



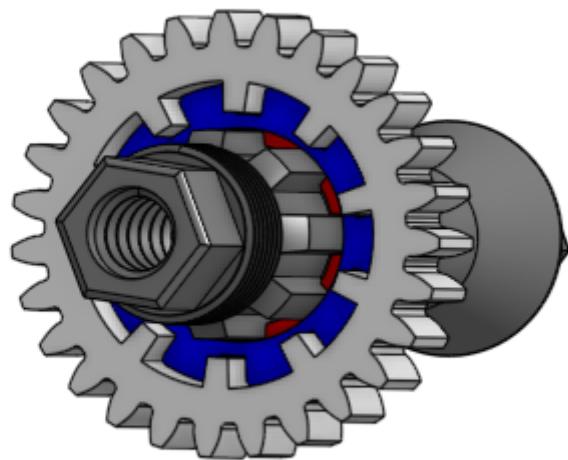
Add the first inner brake disc



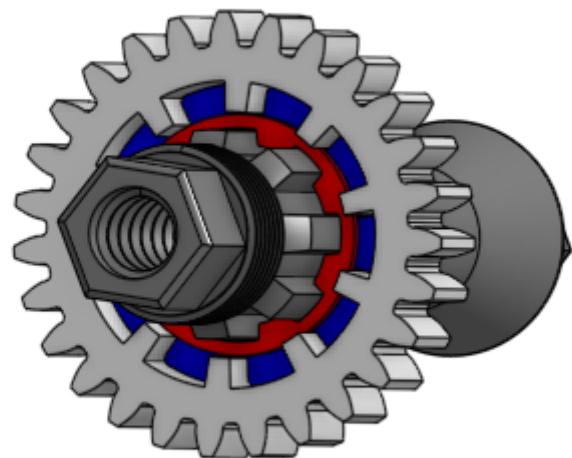
Add the first outer brake disc



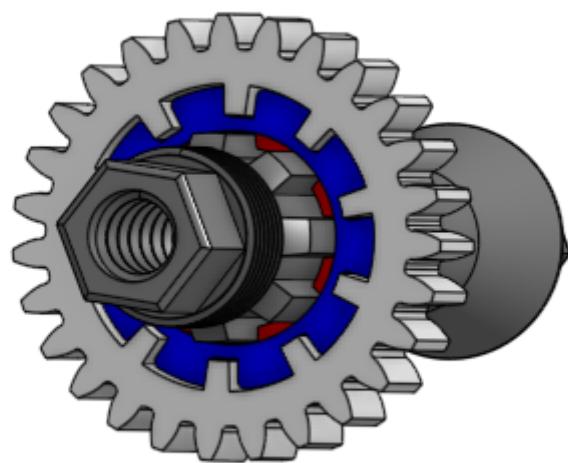
Add the second inner brake disc



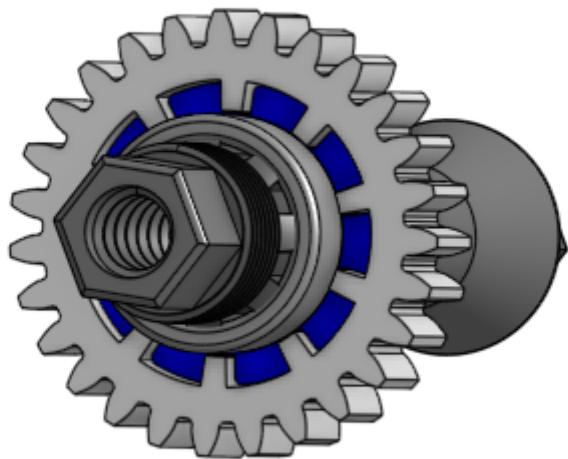
Add the second outer brake disc



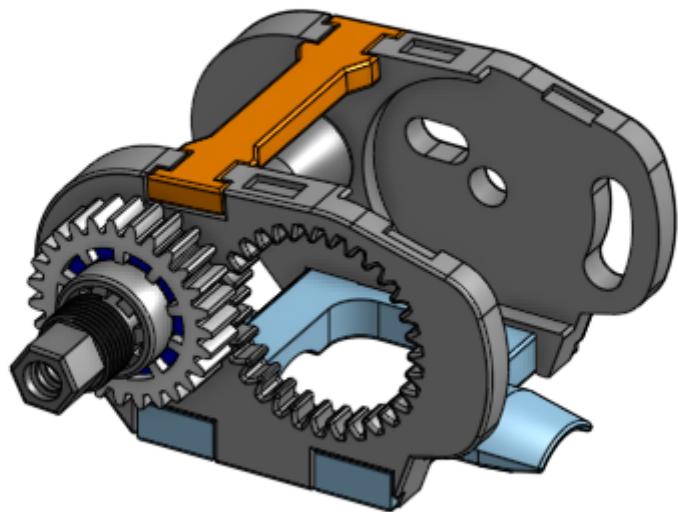
Add the third inner brake disc



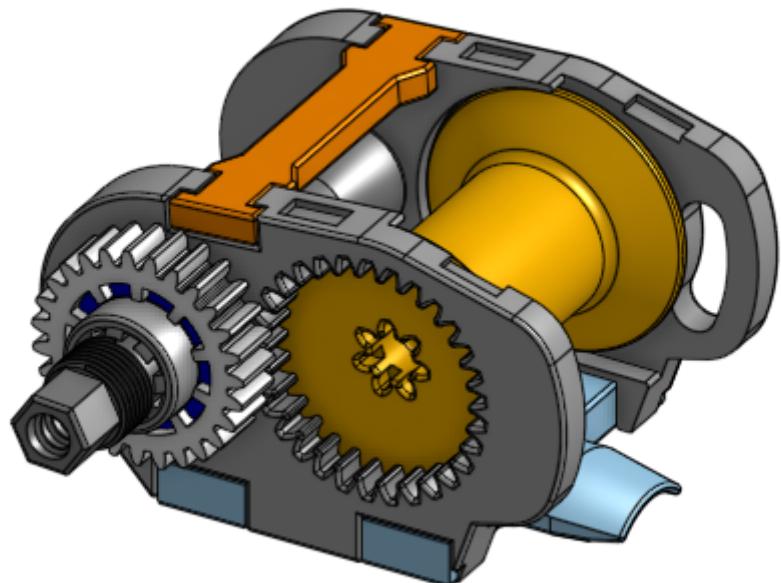
Add the third outer brake disc



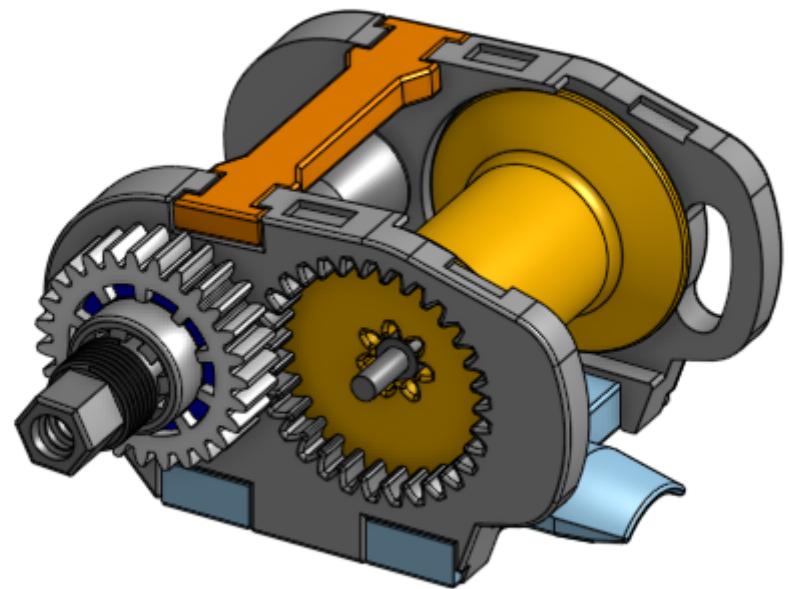
Add the « brake_extension »



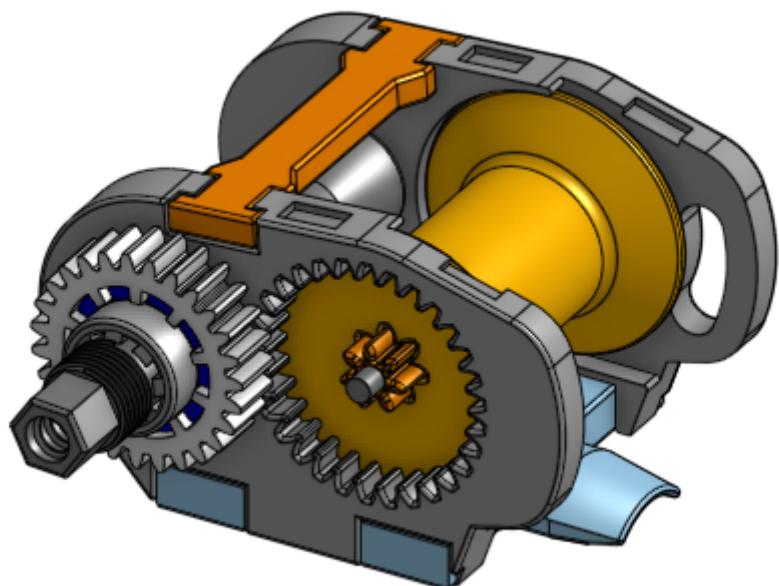
Put this sub-assembly into the frame



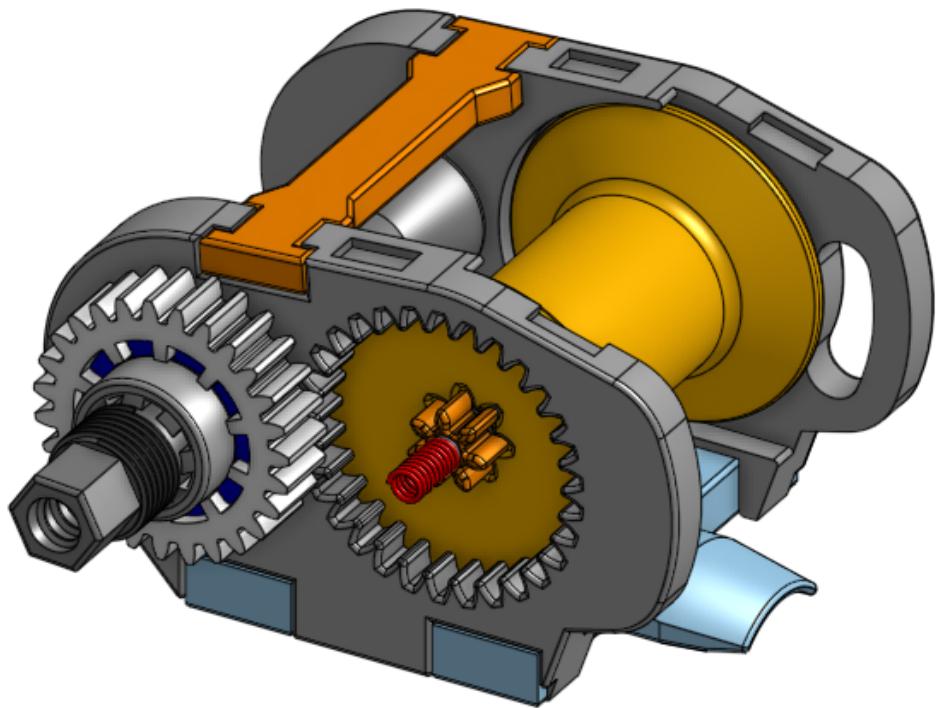
Add the spool



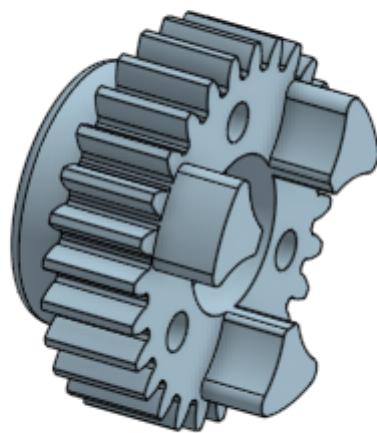
Add the spool shaft



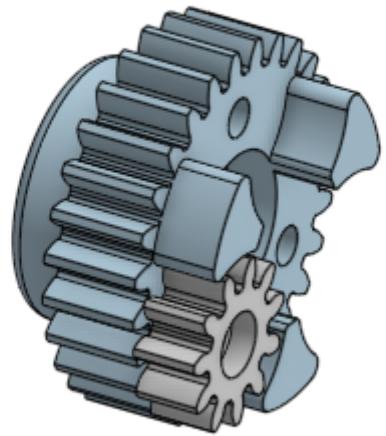
Add the sun gear



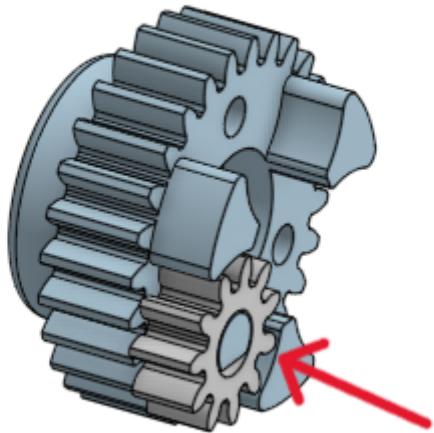
Add the spring you harvested from a pen on the spool shaft



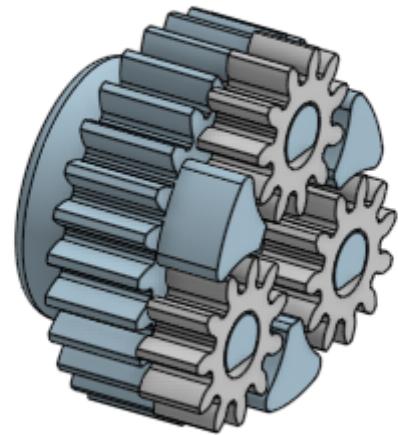
Take the carrier gear



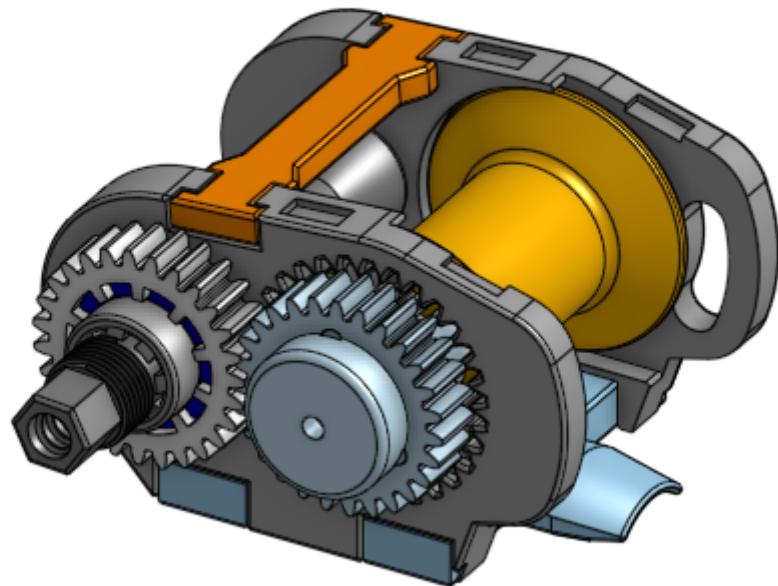
Add a satellite gear



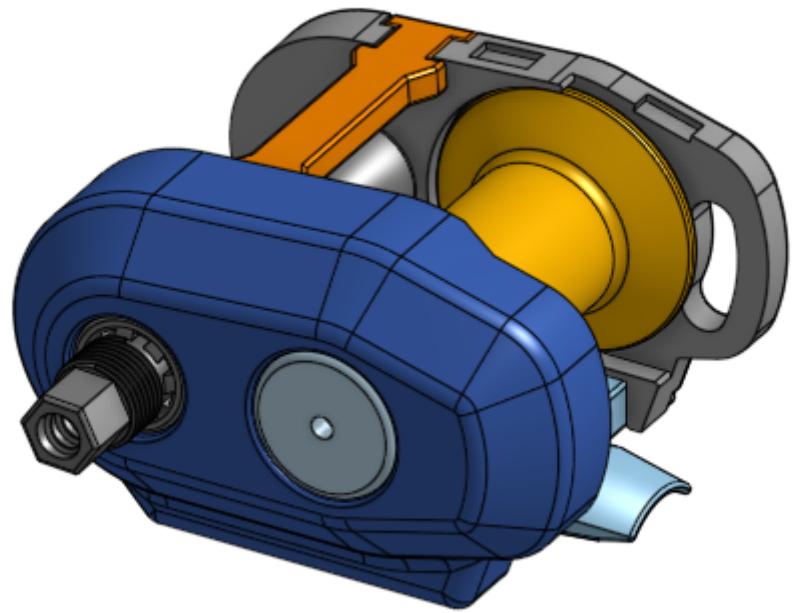
Press the satellite gear axle in place



Same thing for both remaining gears

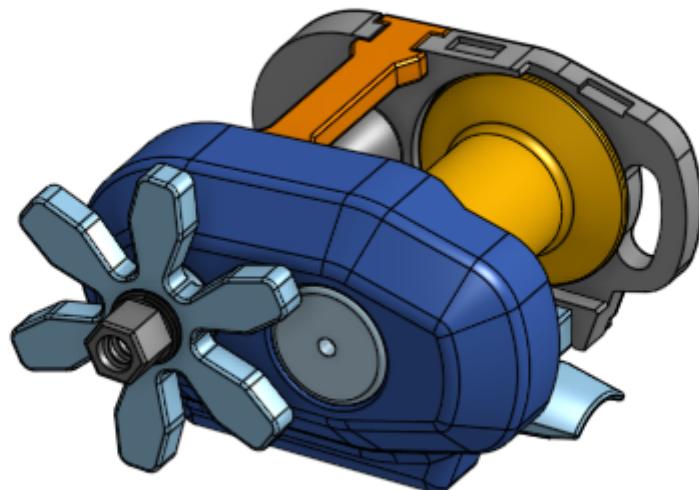


You can now add this sub-assembly to the frame, make sure that the spring remains straight when completing this step

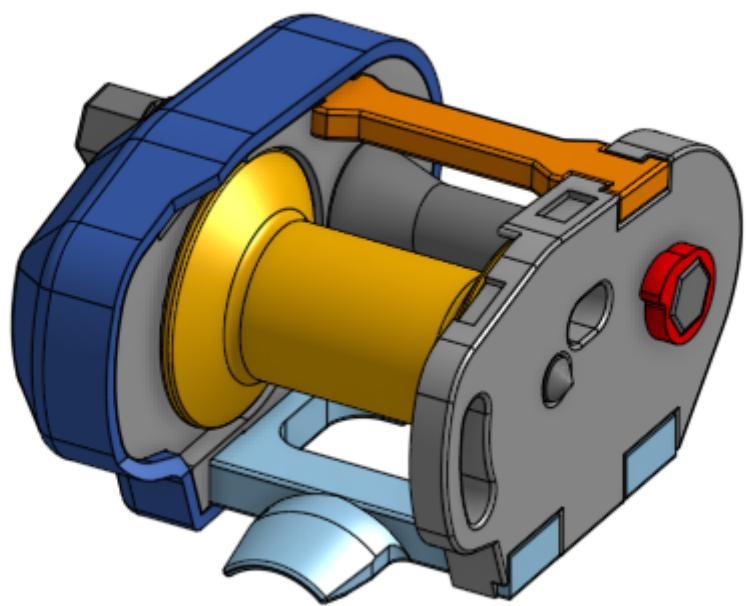


Add the gearbox cover, just snap it in place. You should hear a little « click » from the 3 locking surfaces (triangle-shaped bumps inside the gearbox cover that allows it to lock into the left frame).

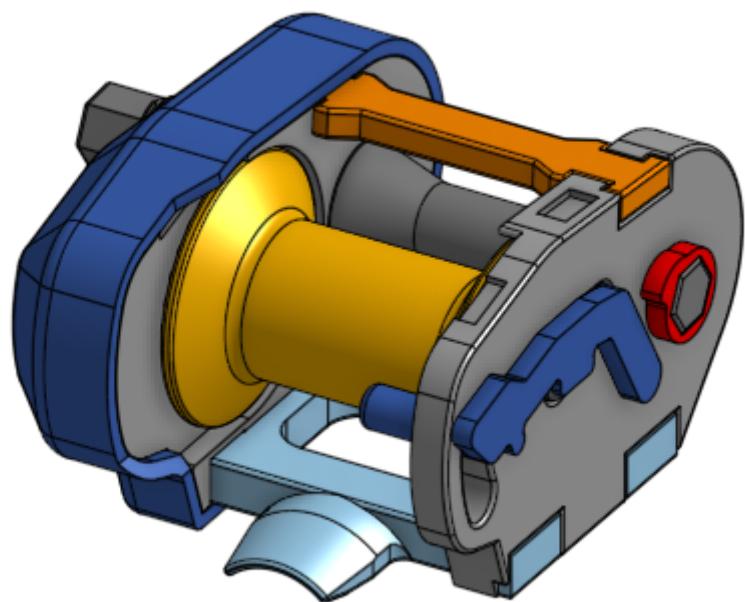
Don't hesitate to use a little bit of force



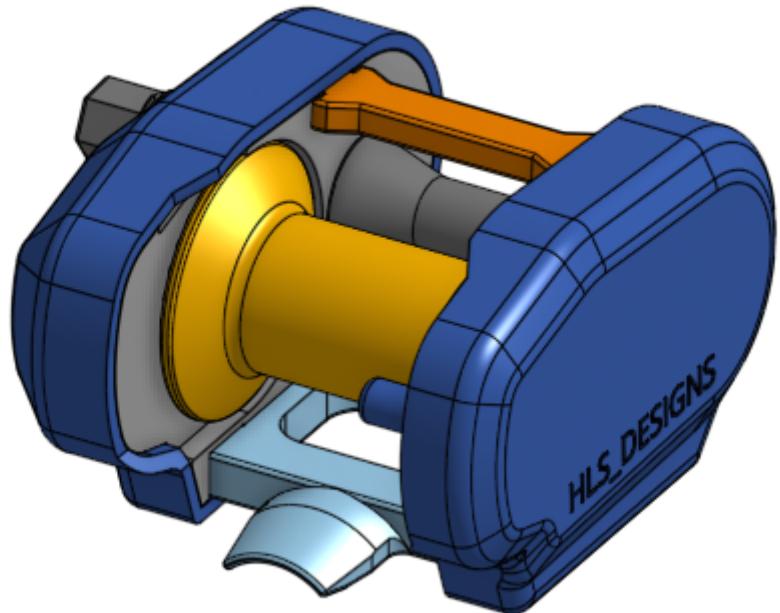
Screw the brake handle in place



On the other side, add the cam (in red here)



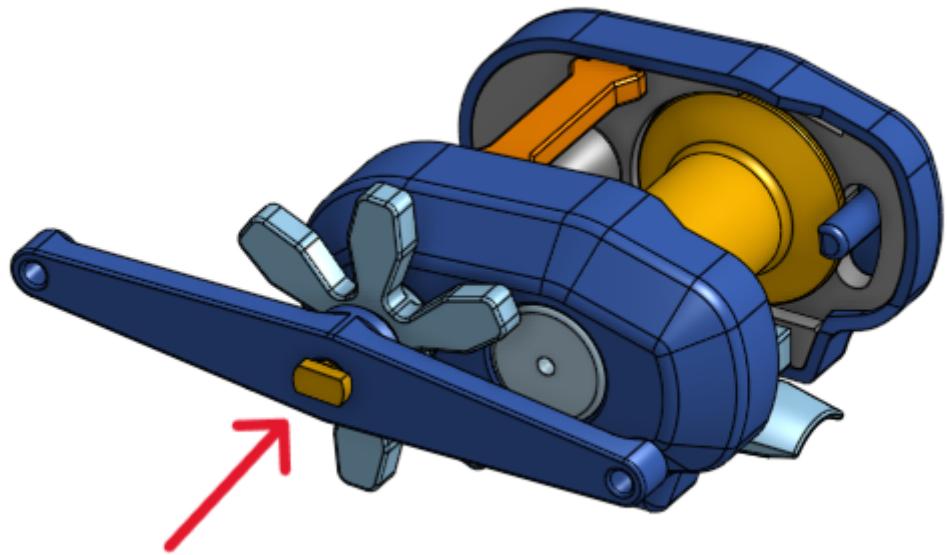
Add the disconnector



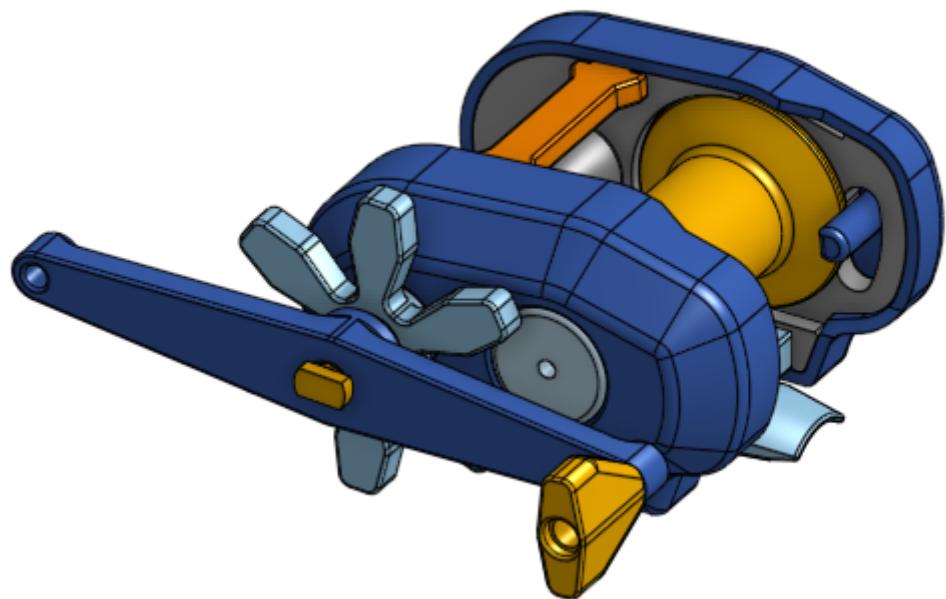
Snap the disconnector cover in place



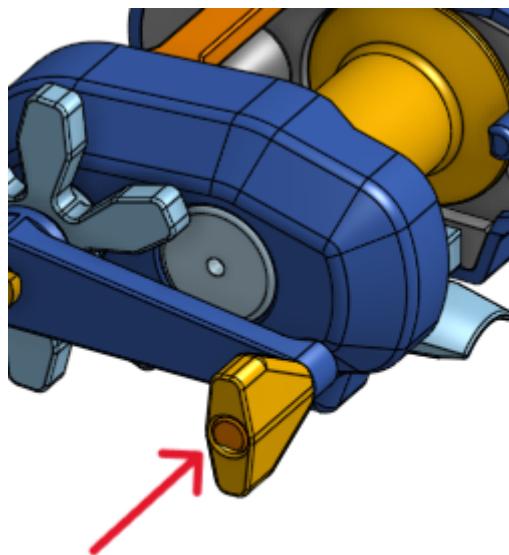
Add the handle



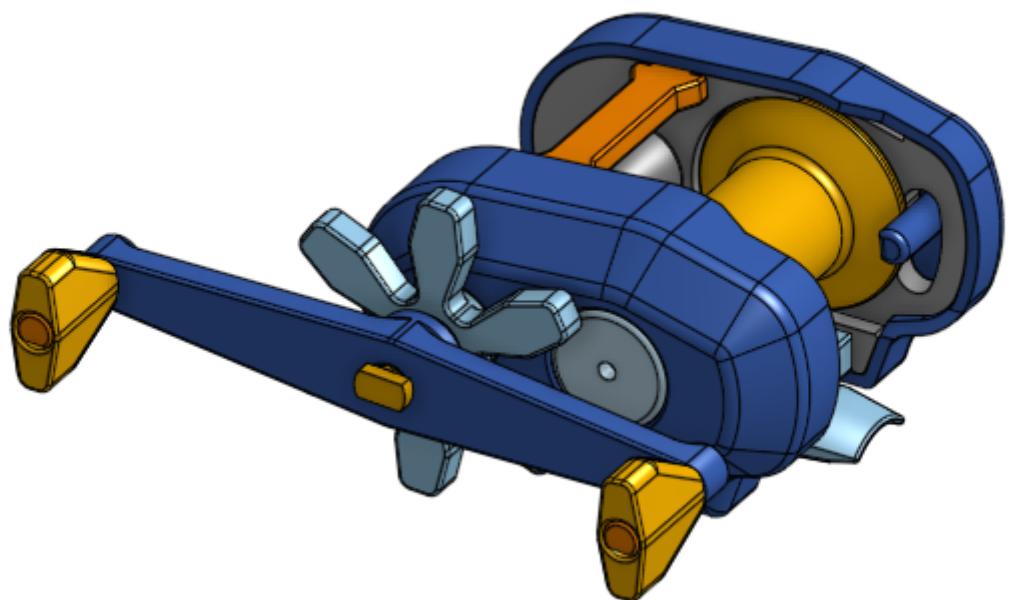
Screw the shaft screw in place



Add one handle tip



Press the handle tip axle in place



Same thing for the other one.

You're now finished !