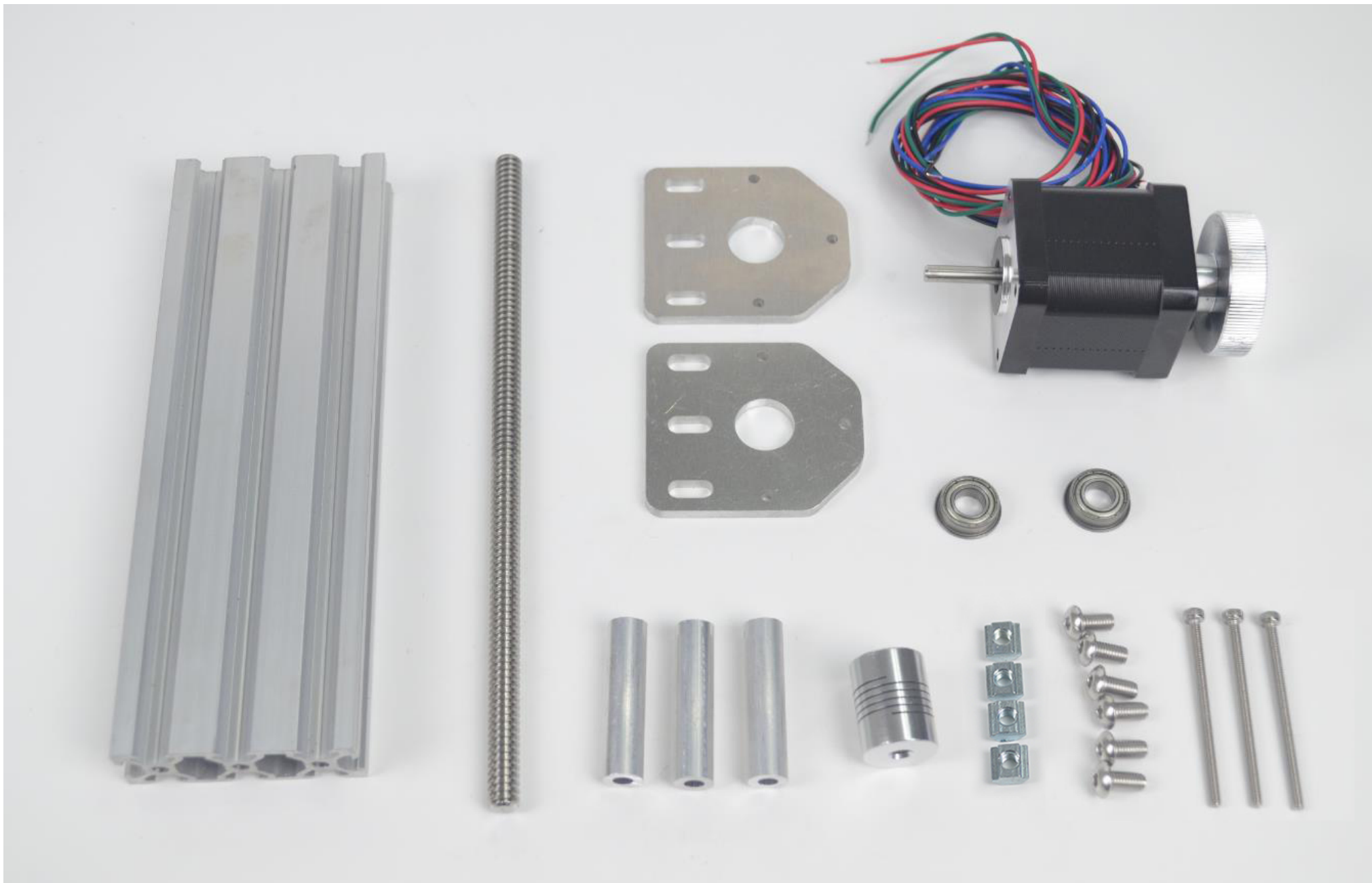
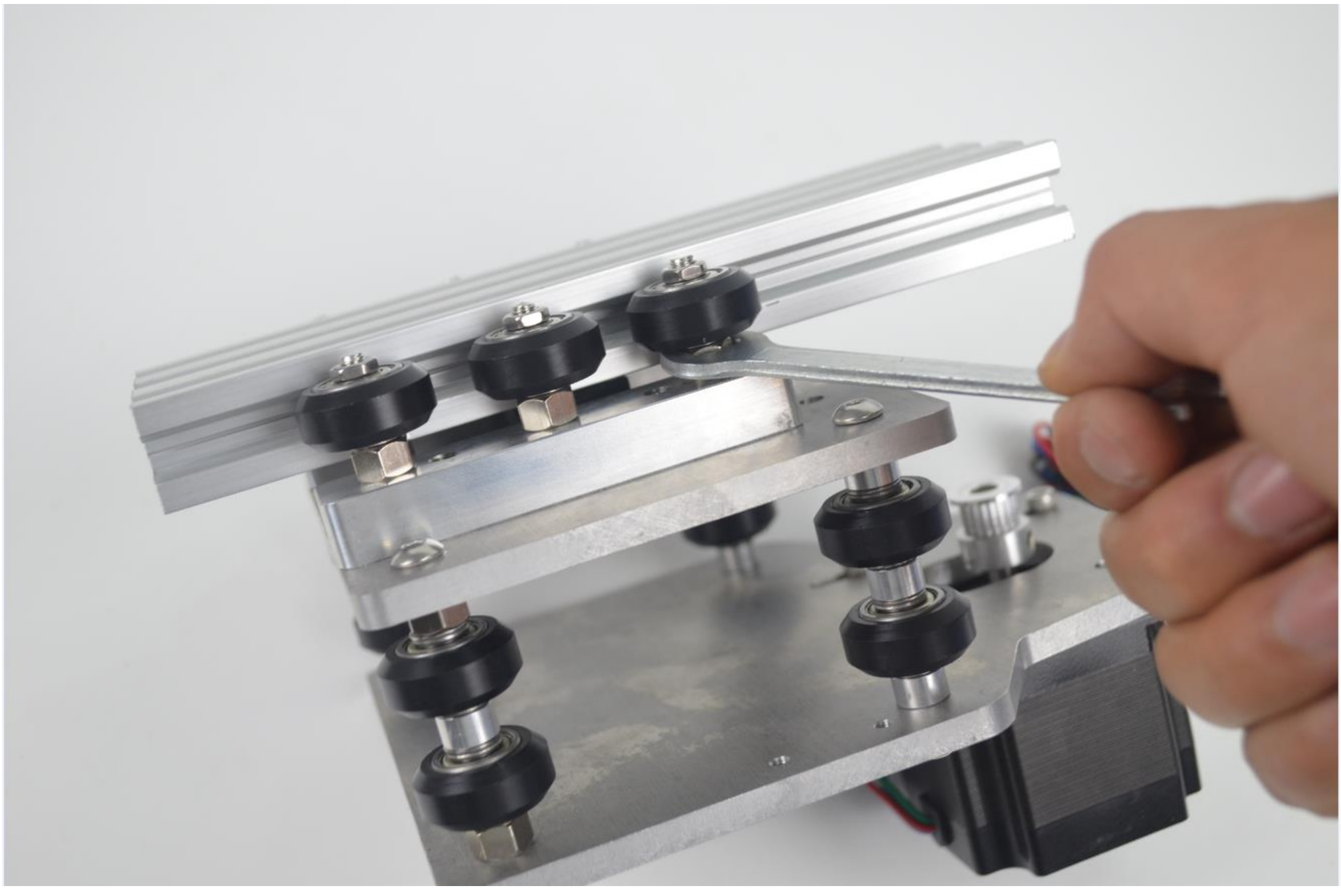
1_4. Z-AxisTransmission Assembly

Materials			
Electronic Parts	Frame Parts	Hardware Parts	Fasteners Parts
42-Stepper-Motor *1	z-mount*2	Flexible-Coupler*1	M3-50-Screw*3
	Z-Axis rail*1	F688-Bearing*2	M5-10-Screw *6
		T8 Lead-Screw*1	M5-T-Nut *4
		8mm Lock-Collar*2	
		Spacer(42mm)*3	



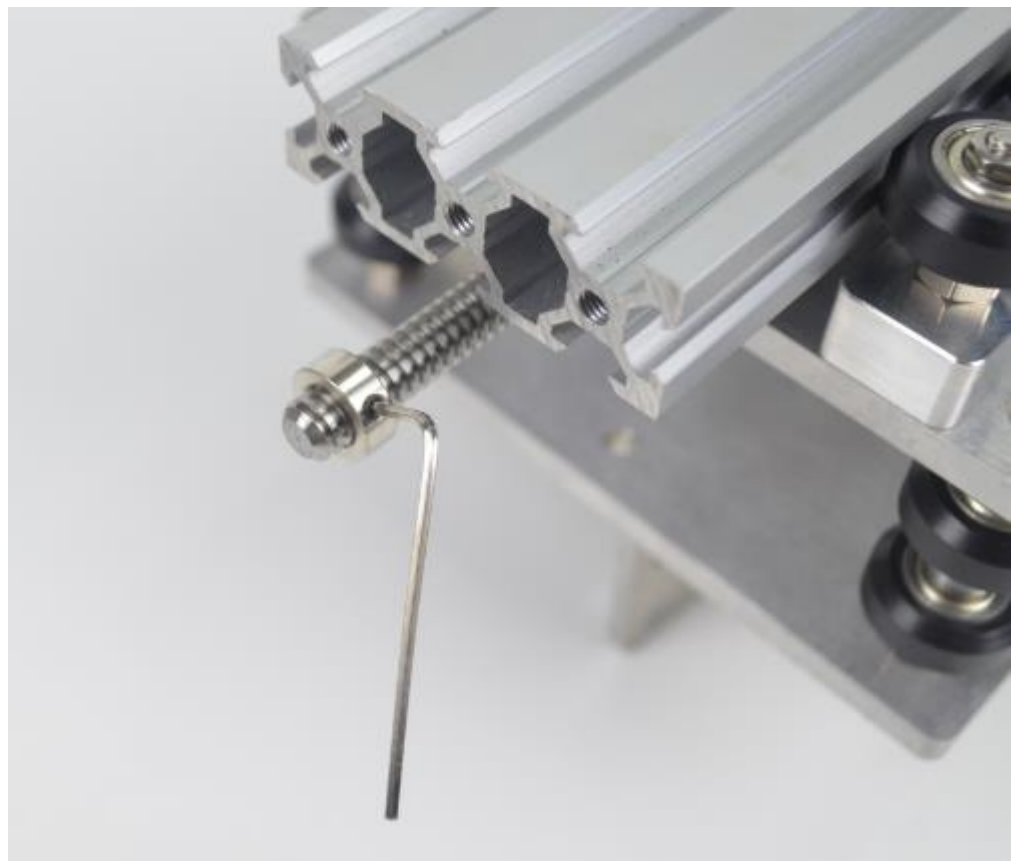
[Step1] Install guide rail

Install the V-groove guide rail into the z-axis guide wheel. While the guide wheel is too tight to fit in, adjust the tension by turning the eccentric column with a wrench.

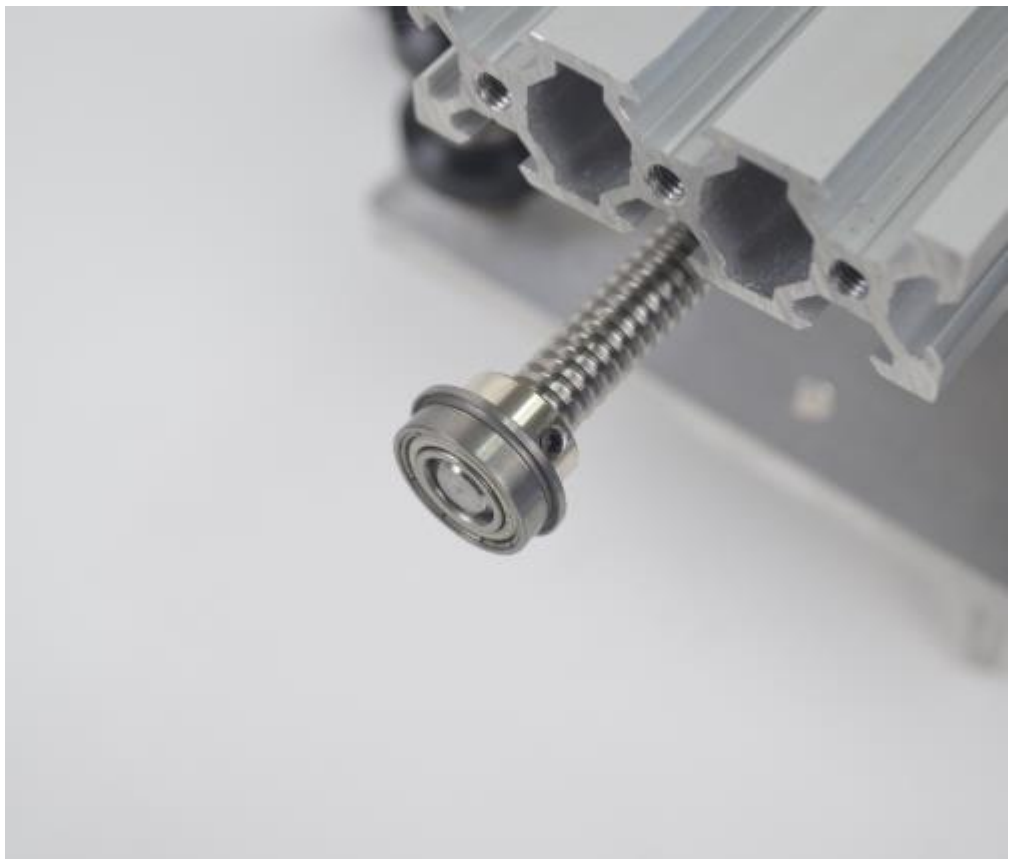


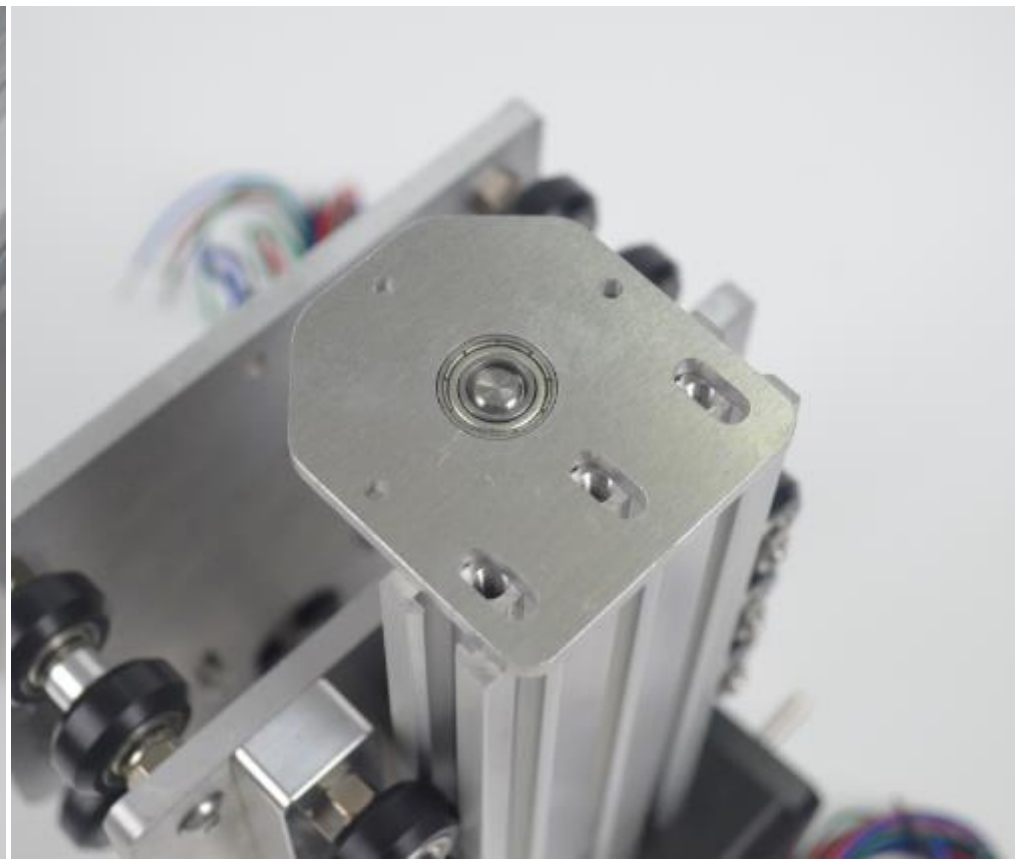
[Step 2] Transmission installation

Install the T8 lead-screw into the nut block, install the lock-collar into lead-screw and allow for 5mm at the end of lead-screw. Fix the lock-collar with hex wrench.

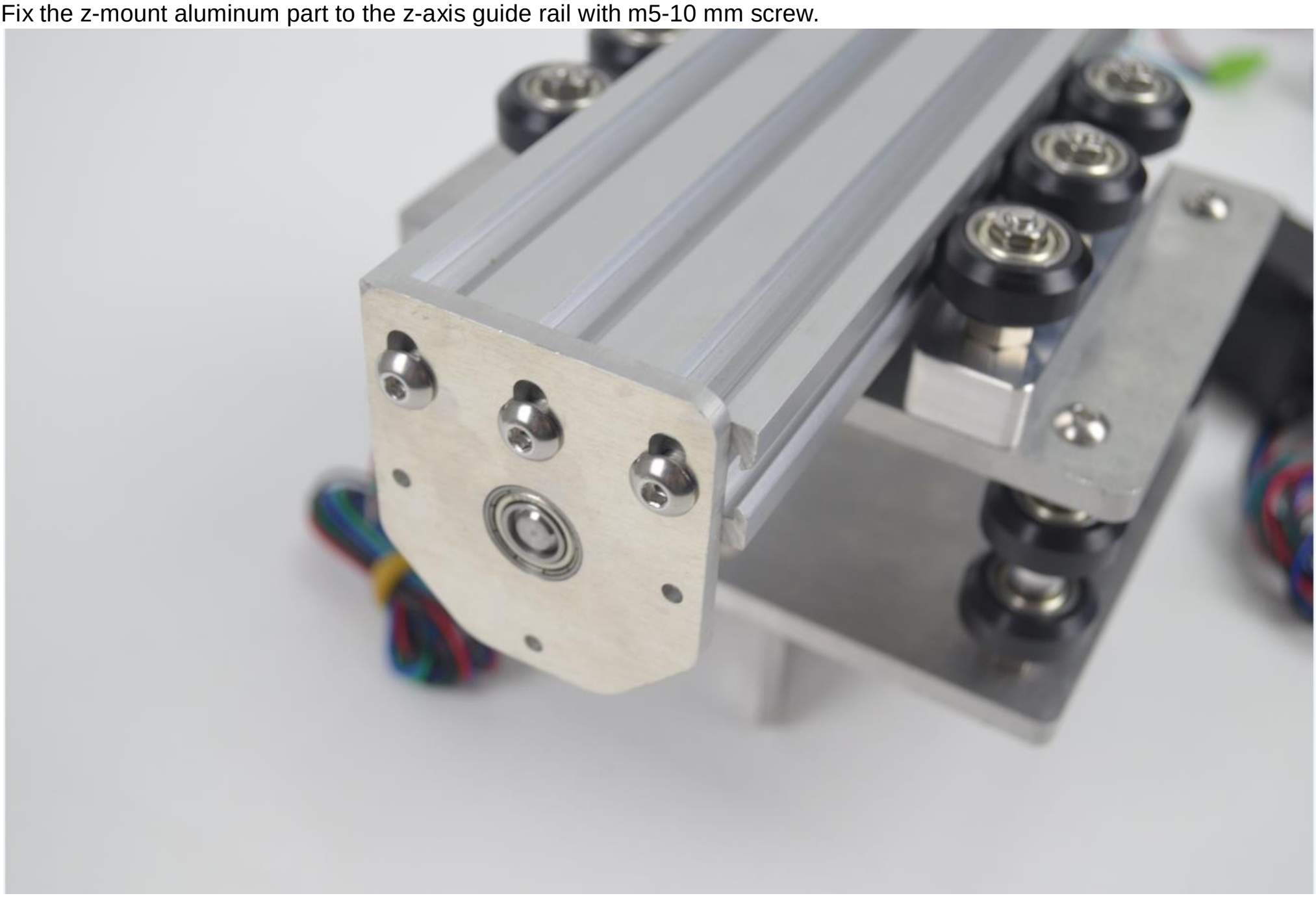


Install the F688-Bearing into the T8 Lead-Screw, and then install the z-mount aluminum part.

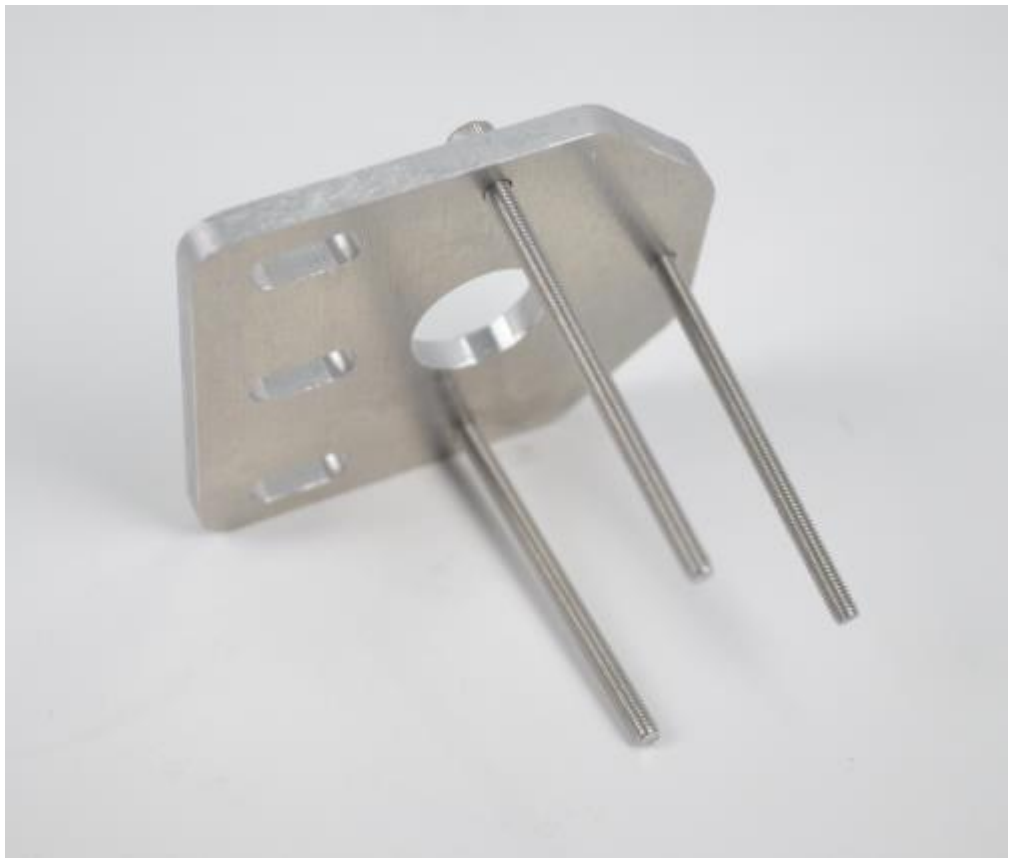




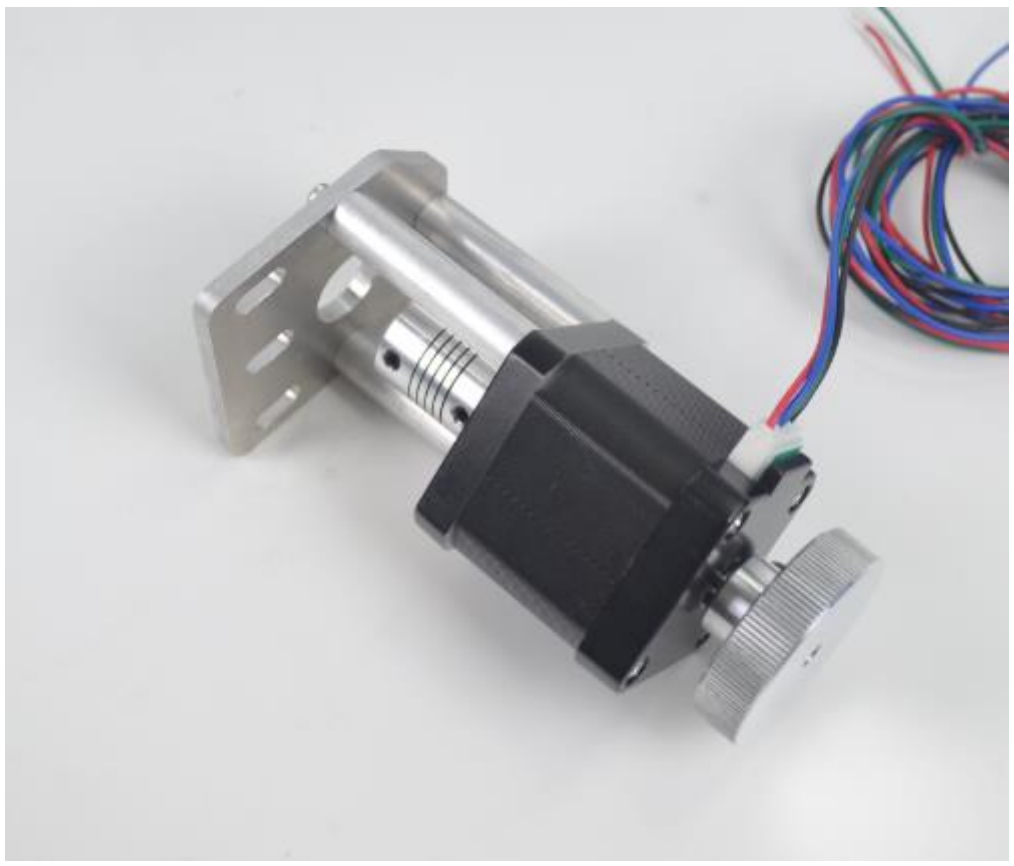
Fix the z-mount aluminum part to the z-axis guide rail with m5-10 mm screw.



Through z-mount aluminum piece with m3-50mm screw，screw through Spacer(42mm).



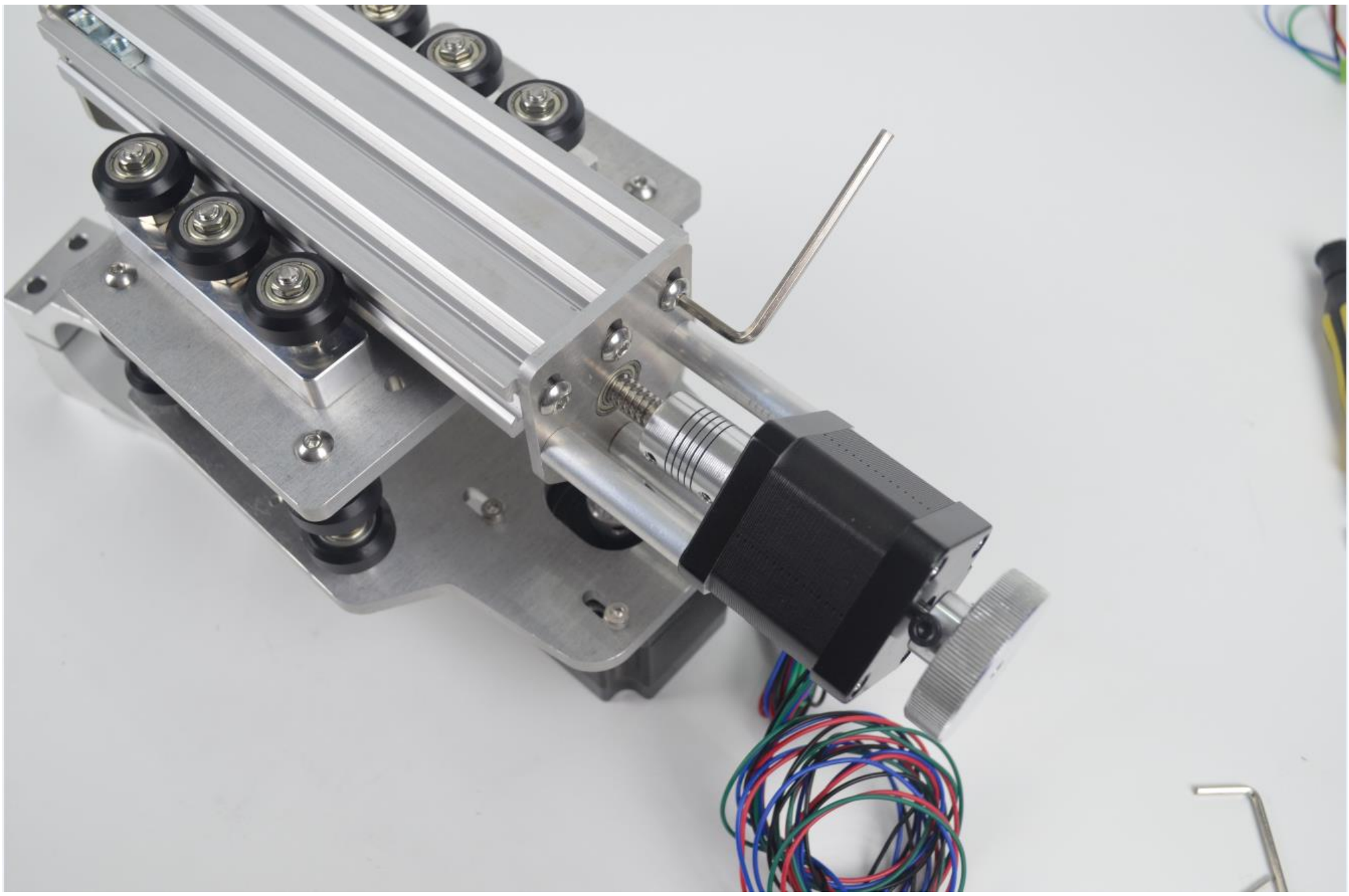
42-Stepper-Motor shaft through the Flexible-Coupler(Do not fix the Flexible-Coupler at this step), install m3-50 screws into the mounting hole of the motor.



Install 4 M5-T-Nuts into the V-groove of z-axis guide rail.

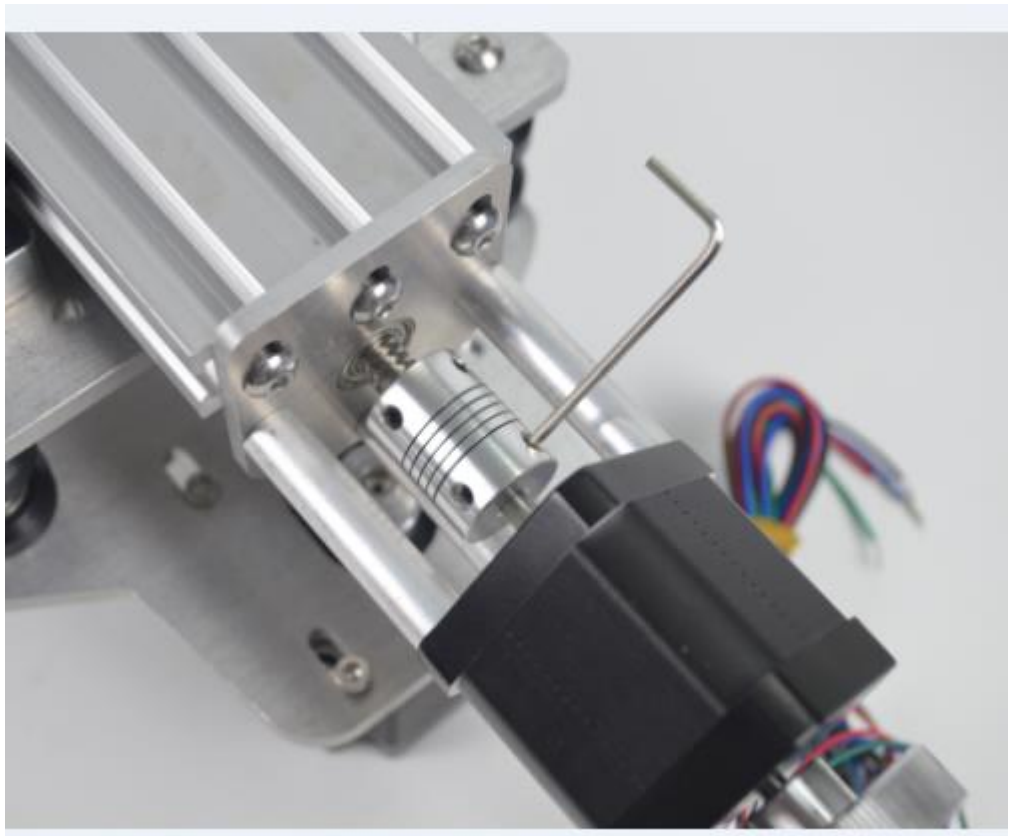
Install a Lock-Collar on the upper end of the Lead-Screw (do not tighten the clasp at this step), and then install the F688 bearing.

Fix the z-mount aluminum part to the z-axis guide rail with m5-10 mm screw.



Move the Lock-Collar detent sleeve to the top against the F688-bearing. Tighten the jackscrew of the Lock-Collar and fix it tightly. The lower Lock-Collar of the Lead-Screw also needs to be against the bearing.

The Flexible-Coupler is between the motor shaft and the T8 Lead-Screw, and fix the Flexible-Coupler.



[Step 3] The overall effect of z-axis as shown in the figure below.