ASSEMBLY GUIDE
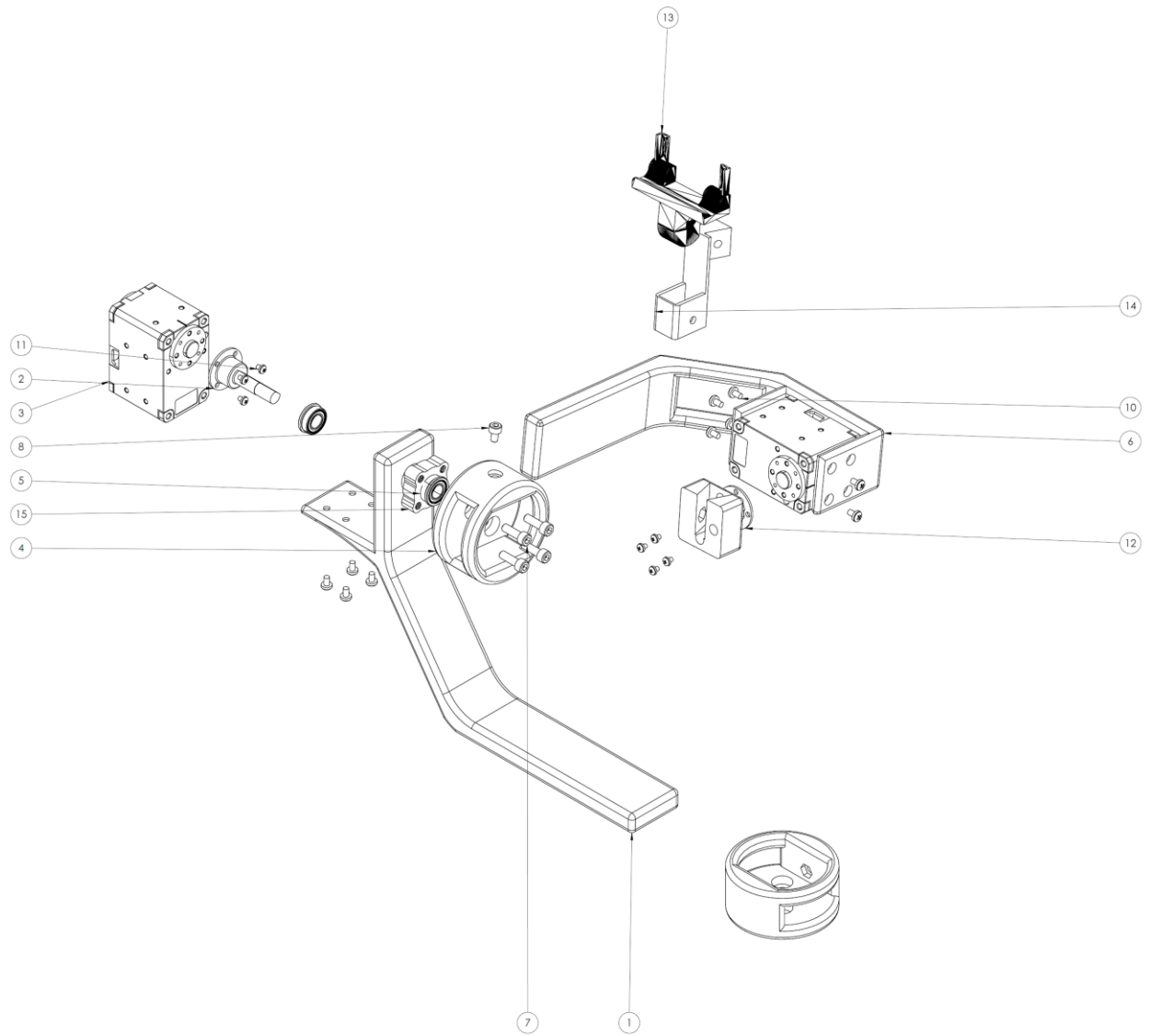
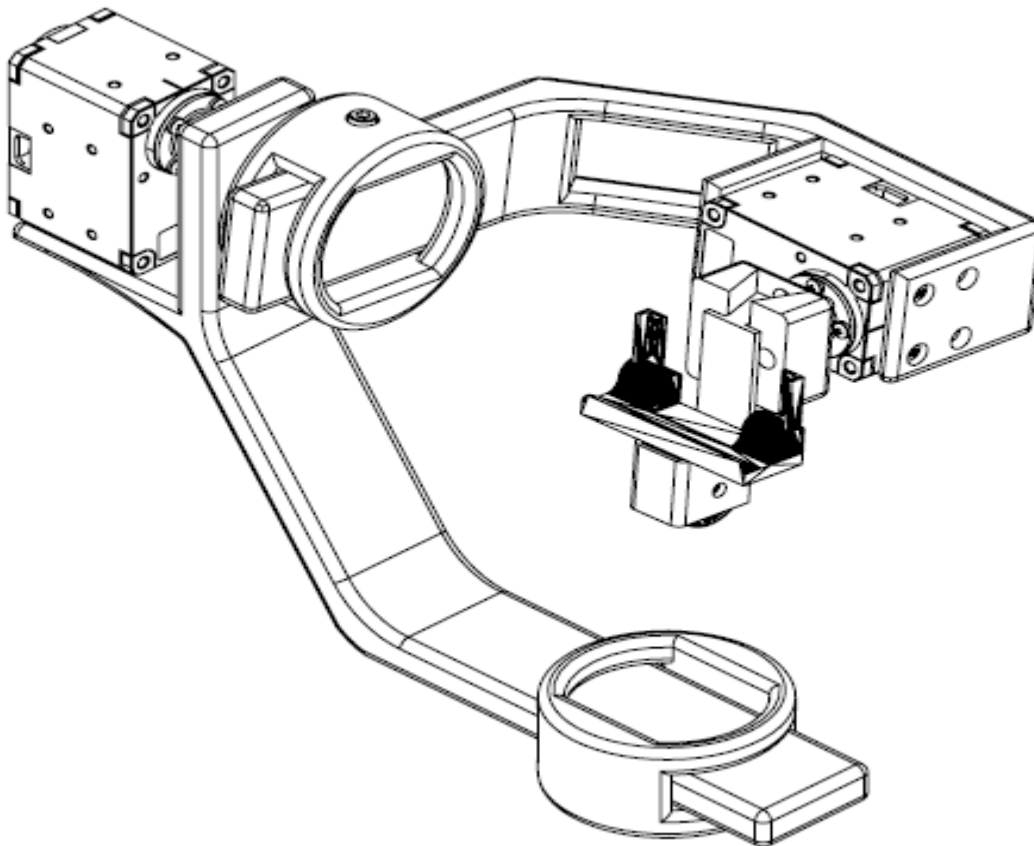# Bill of material (BOM)

2 Dynamixel motor XL430-W250-T
1 Dynamixel motor XM430-W350-T
1 Dynamixel controller openCR 1.0
1 Dynamixel cable V3P 240 mm
2 Dynamixel cable V3P 180mm
1 Dynamixel cable V3P 100mm
1 F to F adapter
1 12V 7.5A power supply for motor and openCR
1 6mm Set Screw D-Hubs
¼" Bore Set Screw
1 01_BASE
1 02_BRIDGE
1 03_COUPLING
2 04_ARM_FIX
1 05_LONG_ARM
1 06_SHORT_ARM
1 07_CAM_MOUNT
1 08_C920_MOUNT
1 09_REALSENSE_MOUNT
1 10_COUPLING
1 11_EMPTY_COUPLING

PART 1

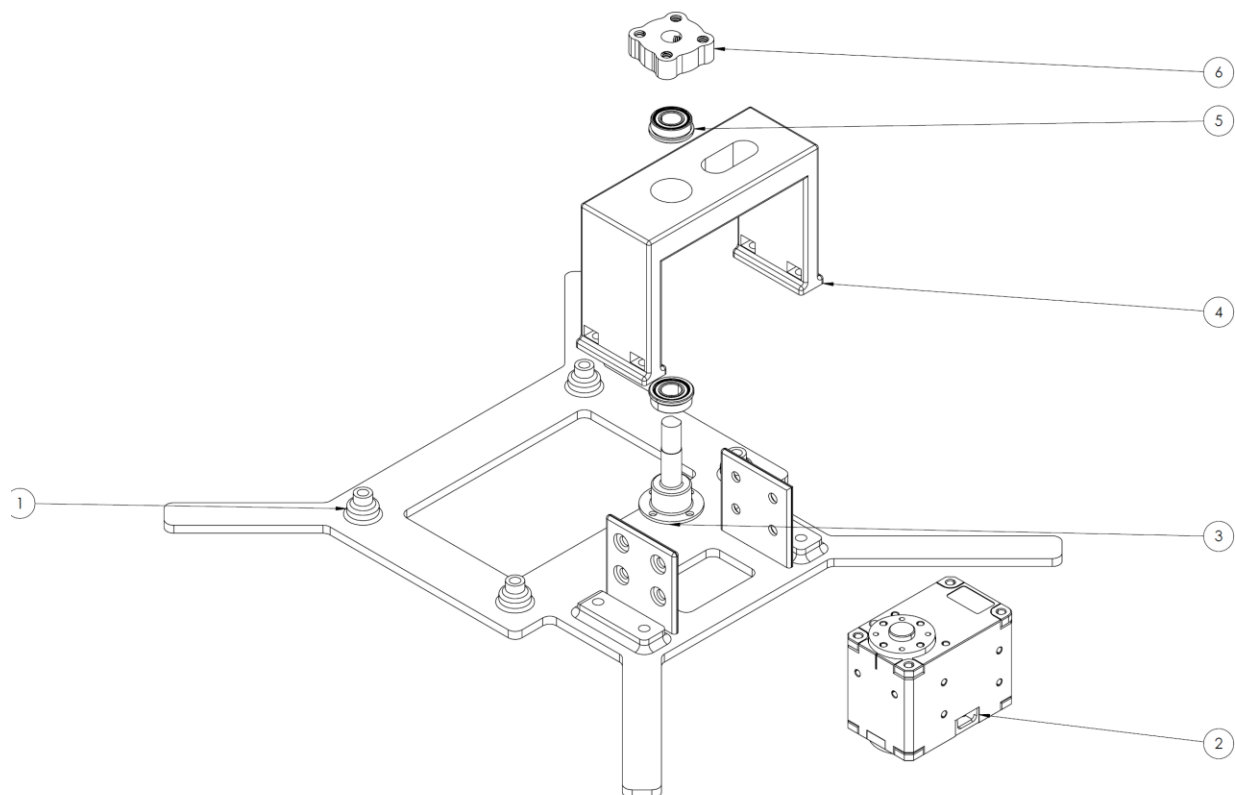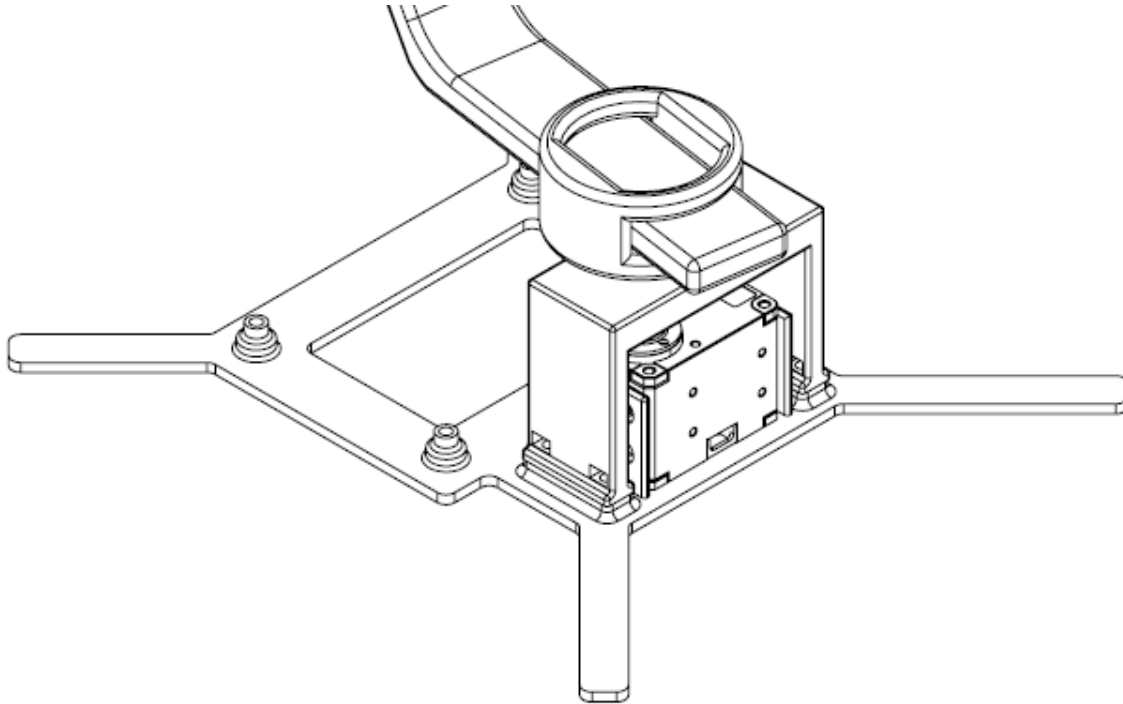| No. ARTICLE	NUMERO DE PIECE	DESCRIPTION	QTE
1	05_LONG_ARM		1
2	03_COUPLING		1
3	dynamixel_motor		2
4	04_ARM_FIX		2
5	bearing		2
6	06_SHORT_ARM		1
7	HX-SHCS 0.138-32x0.4375x0.4375-N		4
8	B18.3.1M - 3 x 0.5 x 5 Hex SHCS -- 5NHX		1
9	B18.2.4.1M - Hex nut, Style 1, M3 x 0.5 --D-N		1
10	B18.6.7M - M2.5 x 0.45 x 4 Type I Cross Recessed PHMS --4N		10
11	B18.6.7M - M2 x 0.4 x 2.5 Type I Cross Recessed PHMS --2.5N		8
12	07_CAM_MOUNT		1
13	C920_Mount		1
14	08_C920_MOUNT		1
15	545548.STEP		1

Instructions

1. Fix the 535198 bearing on the outer side of the 05_LONG_ARM's smaller part

2. Fix the 545548 bearing on the inner side of the 05_LONG_ARM's smaller part
3. Fix the 03_COUPLING to the Dynamixel motor XL430-W250-T using the M2 x 0.4 x 2.5 screw
4. Pass the 03_COUPLING through the bearings
5. Fix the Dynamixel motor XL430-W250-T to the 05_ LONG_ARM using the M2.5 x 0.45 x 4 screw
6. Fix a 04_ARM_FIX on the 545548 bearing inner bearing using the HX-SHCS 0.138-32x0.4375x0.4375-N screw
7. Fix the Dynamixel motor XL430-W250-T on the 06_SHORT_ARM using the M2.5 x 0.45 x 4 screw
8. Fix the 07_CAM_MOUNT on the previous Dynamixel motor using the M2 x 0.4 x 2.5 screw
9. Slide the 08_C920_MOUNT in the 07_CAM_MOUNT
10. Slide the 06_SHORT_ARM in the 04_ARM_FIX and fix a M-3x0.5x5 Hex SHCS screw on the top until the friction keeps the 06_SHORT_ARM in place
11. Slide a 04_ARM_FIX on the larger part 05_LONG_ARM until the holes are aligned

PART 2

No. ARTICLE	NUMERO DE PIECE	DESCRIPTION	QTE
1	01_BASE		1
2	dynamixel_motor		1
3	03_COUPLING		1
4	02_BRIDGE		1
5	bearing		2
6	545548.STEP		1

Instructions

1. Fix the Dynamixel motor to the 01_BASE using the M2.5 x 0.45 x 4 screw
2. Fix the 03_COUPLING to the Dynamixel motor XL430-W250-T using the M2 x 0.4 x 2.5 screw
3. Fix the 535198 bearing at the extremity of the 03_COUPLING
4. Fix the 535198 bearing on the outer side of the 02_BRIDGE
5. Fix the 545548 bearing on the outer side of the 02_BRIDGE
6. Fix the 02_BRIDGE on the 01_BASE using the M2.5 x 0.45 x 4 screw