







## Step1 : Assembling Base

Picture	Name	Number
	Base	1
	Air Routing	3
	Belt tensioner	1
	Base Bearing Support	1
	Fan	1
	Switch	1
	Niryo Motor Orange	1

	Bearing 3x10x4 mm	3
	Bearing 8x22x7 mm	1
	M3 Brake Nut	2
	Screw M3 x 10 mm	11
	Screw M3 x 15 mm	5
	Gear GT2	1

## Step2 : Assembling Shoulder

Picture	Name	Number
	Shoulder	1
	Shoulder Gearing	1
	Belt tensioner	1
	Niryo Motor Yellow	1
	Wiring 1 & 2	1
	Bearing 3x10x4 mm	2
	Thrust Bearing 8x19x7 mm	1
	Half Bearing 90x120mm	1


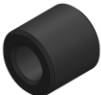
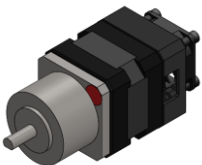
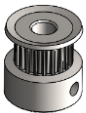


	Screw M3 x 10 mm	4
	Screw M3 x 15 mm	5
	Screw M8 x 55 mm	1
	M3 Brake Nut	1
	M8 Brake Nut	1
	Belt GT2 loop	1

## Step 3 : Assembling Arm

Picture	Name	Number
	Arm Bottom	1
	Arm Top	1
	Round Tube	2
	Belt tensioner	1
	Belt GT2 with red tape	1
	Screw M8 x 90 mm	1
	Screw M4 x 40 mm	2
	Screw M3 x 15 mm	1
	Screw M3 x 10 mm	4

	M8 Brake Nut	1
	M4 Brake Nut	2
	M3 Brake Nut	1
	Bearing 8x22x7 mm	2
	Bearing 3x10x4 mm	2
	torsion spring	1
	Gear GT2	1
	Aluminium Tube	1
	Niryo Motor Pink	1

## Step 4 : Assembling Elbow + Forearm Bottom

Picture	Name	Number
	Elbow	1
	Forearm Bottom	1
	Round Tube	2
	Niryo Motor Red	1
	Gear GT2	1
	Belt tensioner	1
	Belt GT2	1




	Thurst Bearing 20x40x14 mm	1
	Thurst Bearing 8x19x7 mm	1
	Bearing 8x22x7 mm	2
	Screw M8 x 90 mm	1
	Screw M8 x 40 mm	1
	Screw M3 x 15 mm	2
	Screw M3 x 10 mm	3
	M8 Brake Nut	3
	M3 Brake Nut	1

## Step 5 : Assembling Forearm Top + Wrist

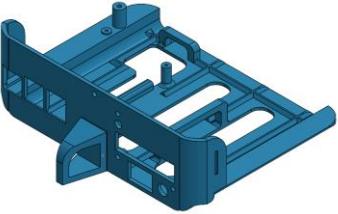


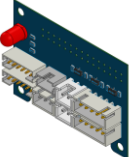
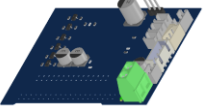
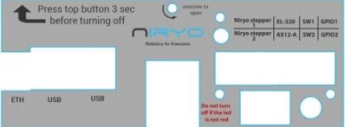
Picture	Name	Number
	Forearm Top	1
	Wrist	1
	Hand	1
	Servo Head	1
	XL -320 Green A & B	2
	XL -320 Blue	1
	Cable XL 320 – 80 mm	2
	Wiring 4	1






	Aluminium Tube	1
	Bearing 5x14x5 mm	2
	Screw M5 x 35 mm	1
	Screw M4 x 40 mm	2
	Screw M3 x 5 mm	6
	Screw m2 x 10mm	2
	M5 Brake Nut	3
	M4 Brake Nut	2

## Step 6 : Assembling End

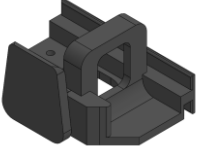
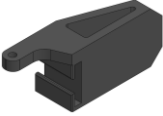


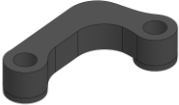
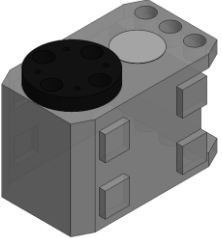
Picture	Name	Number
	End Cap - Shoulder	2
	End Cap - Arm	2
	Screw M3 x 15 mm	6

## Step 7 : Assembling Drawer

Picture	Name	Number
	Drawer	1
	Ribbon cable	1
	Raspberry Pi 3 + SD Card	1
	Niryo-Pannel	1
	Niryo-Shield	1
	Label	1

	DC connector + cable	1
	Switch	1
	Screw M3 x 10 mm	5
	Screw M2 x 5 mm	4
	M3 Brake Nut	3

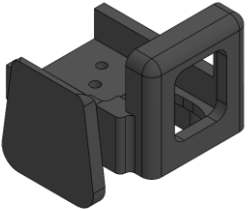
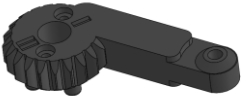


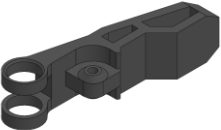
# G1 : Assembling Gripper 1

Picture	Name	Number
	G1_MainSupport	1
	G1_ClampLeft	1
	G1_ClampRight	1
	G1_ServoHead	1
	G1_Rod	2
	XL -320 White	1

	G_Cable	1
	Screw M3 x 10 mm	4
	Screw M3 x 5 mm	2
	Screw M2 x 5 mm	2
	Rubber	1



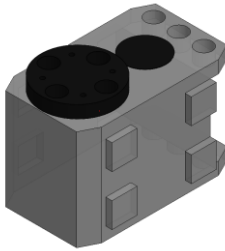







## G2 : Assembling Gripper 2

Picture	Name	Number
	G2_MainSupport	1
	G2_GearLeft	1
	G2_GearRight	1
	G2_Rod	2
	G2_Clamp	2

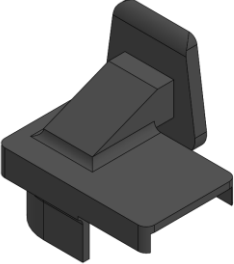


	XL -320 Grey	1
	G_Cable	1
	Screw M3 x 20 mm	6
	Screw M3 x 15 mm	1
	Screw M3 x 5 mm	2
	Screw m2 x 10mm	2
	Bearing 3x10x4 mm	14
	M3 Brake Nut	6
	Rubber	1

## G3 : Assembling Gripper 3

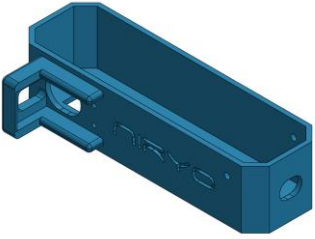

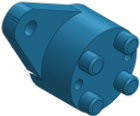
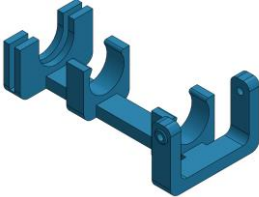

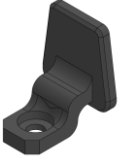
Picture	Name	Number
	G3_Main Support	1
	G3_GearRight	1
	G3_GearLeft	1
	G3_Link1	2
	G3_Link2	2
	G3_Rod	2








	XL -320 Black	1
	G_Cable	1
	Screw M3 x 20 mm	8
	Screw M3 x 15 mm	1
	Screw M3 x 5 mm	2
	Screw m2 x 10mm	2
	Bearing 3x10x4 mm	18
	M3 Brake Nut	8
	G3_Spring	2
	Rubber	1

# EM : Assembling Electro Magnet

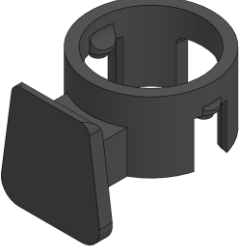

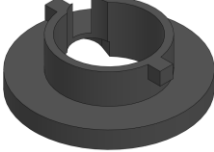


Picture	Name	Number
	EM_Main Support	1
	ElectroMagnet Grove	1
	Screw M2 x 5 mm	2
	EM_Cable	1

# VP : Assembling Vacuum Pump

Picture	Name	Number
	VP_Main Support	1
	VP_Hood	1
	VP_ServoHead	1
	VP_SyringeHolder	1
	VP_Link	1
	VP_SuctionCup Support	1

	VP_Suction Cup	1
	VP_Plastic Elbow	1
	VP_Flexible	1
	Syringe	1
	Screw M3 x 10 mm	3
	Screw M3 x 5 mm	2
	Cable XL 320 – 60 mm	1

## PH : Assembling Pen Holder

Picture	Name	Number
	PH_MainSupport	1
	PH_Inside	1
	PH_Head	1
	PH_Spring	2
	Screw Butterfly	1