BILL OF MATERIALS

1] Holding Unit-

Sl.No.	Part Name	Material with	Description	Quantity	Fabrication
		which the part is	about part	required	process if
		made up of			needed
1.	Cylindrical base	Acrylic sheet	R=26cm	1	Laser cutting
			T=1cm		
2.	Cylindrical	Acrylic sheet	R=26cm	1	Laser cutting
	holder		T=0.5cm		
3.	Rectangular	Foam sheet	(40cm*39cm)	1	Cutting
	base				
4.	Cylindrical rod	Nylon rod	R=2cm	1	Cutting,
			T=35cm		milling
5.	Bearing	Stainless steel		1	-
6.	Screw(i)	Metal	R=0.4cm	8	-
			L=2.2cm		
7.	Half sized	Nylon rod	R=1.5cm	4	Cutting
	cylindrical rod		T=14cm		
8.	L channels(i)	Aluminium	L=42cm	4	Cutting,
			T=0.3cm		bending
9.	L channels(ii)	Aluminium	L=40cm	4	Cutting,
			T=0.3cm		bending
10.	L channels(iii)	Aluminium	L=38.4cm	2	Cutting,
			T=0.3cm		bending
11.	Half sized L	Aluminium	L=19cm	2	Cutting
	channels		T=0.3cm		
12.	Metal strips	Aluminium	(39cm*2cm)	2	Cutting,
			T=0.3cm		drilling
13.	Half sized	Aluminium	(10cm*2cm)	2	Cutting,
	metal strips		T=0.3cm		drilling
14.	Screw(ii)	Metal	R=0.6cm	32	-
			L=1cm		

Sl.No.	Part Name	Material with	Description about	Quantity	Fabrication
		which the part is	part	required	process if
		made up of	·		required
15.	C holder	Aluminium sheet	(10cm*5cm*4cm)	1	Cutting,
					bending
16.	Spur gear	Thermosetting		2	-
		plastic			
17.	Worm gear	Thermosetting		1	-
		plastic			
18.	DC Motor(iv)	Metal	_	1	-
19.	Screw(iii)	Metal	R=1cm	1	-
			L=2.3cm		
20.	Positioner	Nylon rod	R=1.5cm	2	Cutting
			L=5cm		
21.	Screw(v)	Metal	R=0.7cm	2	-
			L=5cm		
22.	Gripper	Acrylic sheet		6	Laser cutting
23.	U clamp	Stainless sheet	-	1	-

2] Capping Unit-

Sl.No.	Part Name	Material with	Description	Quantity	Fabrication
		which the part is	about part	required	process if
		made up of			needed
1.	DC Motor(i)	Metal	-	1	-
2.	DC Motor(ii)	Metal	-	1	-
3.	DC Motor(iii)	Metal	-	1	-
4.	Bush	Nylon rod	R=1cm	1	Cutting,
			L=3cm		milling
5.	Threaded Iron	Stainless steel	R=0.5cm	1	Cutting
	rod		L=7.5cm		
6.	Sheet metal	Stainless steel	(20cm*5cm)	1	Cutting,
			T=0.2cm		bending
7.	Strap(i)	Foam sheet		1	Cutting,
					drilling
8.	Half sized	Stainless steel	R=1cm	4	-
	Sliding rod		L=7cm		
9.	Sheet metal U	Stainless steel	-	2	Bending
	clamps				
10.	C clamps	Stainless steel	-	2	Bending
11.	Nuts	Metal	0.3cm	4	-
12.	Capper	Metal		1	-
13.	Screw(ii)	Metal	R=0.6cm	24	-
			L=1cm		
14.	Screw(iii)	Metal	R=1cm	2	-
			L=2.3cm		
15.	Holding	Foam sheet	(38cm*26cm)	1	Cutting,
	Platform(i)		T=0.5cm		drilling
16.	Holding	Foam sheet	(24cm*14cm)	1	Cutting,
	Platform(ii)		T=0.5cm		drilling
17.	Strap(ii)	Foam sheet	(27cm*9cm)	2	Cutting,
			T=0.5cm		drilling
18.	L clamps	Stainless steel	(2cm*1cm)	8	-
			T=0.3cm		

19.	Screw(iv)	Metal	R=0.7cm	2	-
			L=1.2cm		
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Sl.No.	Part Name	Material with	Description	Quantity	Fabrication
		which the part is made up of	about part	required	process if needed
20.	Stepper motor	Metal	R=2.5cm	1	-
21.	Capping Platform(i)	Foam sheet	(19cm*38cm) T=0.5cm	1	Cutting
22.	Capping platform(ii)	Acrylic sheet	(12cm*5cm) T=0.5cm	1	Laser cutting
23.	Cylindrical tube	PVC pipe/ Acrylic sheet	R=4cm T=0.25cm	1	Cutting/ Heat bending
24.	Cap slider	Acrylic sheet		1	Laser cutting, Heat bending
25.	Sliding base	Foam sheet	9.5cm*12.25cm	1	Cutting, bending, drilling