



**Brain Chamber Technologies Pvt Ltd.**  
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# Dc Powered Satellite BOOM

## What's Inside

- 1) Material specifications.
- 2) Design
- 3) Picture Place
- 4) Processes, diagrams

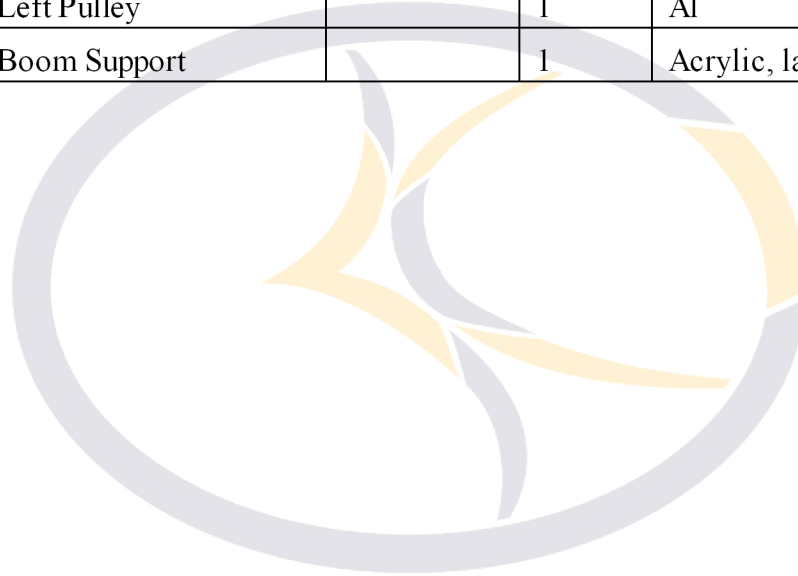


- **Annexure:- 1**
- **Final Product specifications (It's for lab model)**

<b>Event no.</b>	<b>Particular</b>	<b>Fig no.</b>	<b>Qty</b>	<b>Material specification</b>
1	Upper cover	1	1	MS Steel
2	Lower cover	2	1	MS Steel
3	Centre chassis support	3	1	MS die mould
4	Servo motor	4	1	VTS 08A
5	Supporting conical flask	5	1	MS Steel
6	Support roller 1	6	1	316 MS
7	Support roller 2	7	1	316 MS
8	Spring Support Assembly	8	1	Brass (mould)
9	Springs	9	4	F42 Iron
10	Motor Gear Seal	10	1	Plastic Moulding
11	Lock nut	11	3	MS
12	Main Roller	12	1	316 MS
13	Motor Chassis (1)	13	1	Al
14	Motor Chassis (2)	---	1	Al
15	Spring Rods	---	4	Steel
16	Bearings	---	2	SKF
17	Servo motor circuit design	---	1	Parallel circuit mgf.
18	Motor Gear		1	Brass
19	Gear (1)		1	Brass
20	Gear (2)		1	Brass
21	Gear (3)		1	Brass
22	Side Gear (1)		1	Brass
23	Side Gear (2)		1	Brass



24	Side Gear (3)		1	Brass
25	Side gear plate		1	MS
22	Cone ring inner		1	Al
23	Cone ring Outward		1	Al
24	Chassis holder stud		1	Al
25	Roller (1) Stud		1	MS
26	Main Roller Stud		1	MS
27	Electrical Control Systems		1	Electrical parts
28	Right Pulley		1	Al
29	Left Pulley		1	Al
30	Boom Support		1	Acrylic, laser cutting





- **Annexure:- 2**
- **Follow Up, Trial and Error, Research and Development and tender charges**

1	Upper cover die (male/female)	---	1	Hard steel, shrinkage eliminator, trials, finishing, Powder coating, analysis, Chamfering.
2	Lower cover die (male/female)	---	1	Annealing process, shrinkage eliminator, trials, finishing, Powder coating, analysis, chamfering,
3	Centre Chassis die (male/female)	---	1	Electro plating, shrinkage eliminator, trials, finishing, Powder coating, analysis, Buffing.
4	Right Pulley Die	---	1	Hard steel, shrinkage eliminator, trials, finishing, Powder coating, analysis.
5	Left Pulley Die	---	1	Hard steel, shrinkage eliminator, trials, finishing, Powder coating, analysis.
6	Motor Gear	---	1	Jig & fixture, Extra material, SPM tool, Trials, grinding, surface finishing
7	Gear (1)	---	1	Jig & fixture, Extra material, SPM tool, Trials, grinding, surface finishing
8	Gear (2)		1	Jig & fixture, Extra material, SPM tool, Trials, grinding, surface finishing
9	Gear (3)		1	Jig & fixture, Extra material, SPM



				tool, Trials, grinding, surface finishing
10	Side gear (1)		1	Jig & fixture, Extra material, SPM tool, Trials, grinding, surface finishing
11	Side Gear (2)		1	Jig & fixture, Extra material, SPM tool, Trials, grinding, surface finishing
12	Side Gear (3)		1	Jig & fixture, Extra material, SPM tool, Trials, grinding, surface finishing
13	Main Roller		1	EDM process, milling, Internal finishing, grinding, slot cutting, extra material.
14	Boom		1	Trial and error, Spring steel material, Constant temp heater process, excess material. Material analysis.
15	Constant temperature ceramic heater coil		1	Designed and built up.
16	Accessories		----	Nuts and Bolts, gears, Alenkeys, springs,
17	Machining charges			All Parts



- **Annexture:- 3**
- **Designing And Consultation Charges**
  - 1) Designing
  - 2) Consultations with prototype modelling (Over Heads):-



