|  |  |  |  |
| --- | --- | --- | --- |
| **No.** | **Option** | **Model 1** | **Model 2** |
| 1. | Material Rangka | Besii Siku | Besi Hollow |
| 2. | Bowl | Stainless | Stainless |
| 3. | Motor Penggerak | \\\  Motor AC | Motor AC |
| 4. | Bearing | Bearing | Bearing |
| 5. | *As Poros* | As Stainless | As Besi |
| 6. | Baut dan Mur | Baut | Baut |
| 7. | Pulley | Pulley | Pulley |
| 8. | Model Rangka | Rangka B | Rangka A |
| 9. | Sistem Transmisi | Transmisi gearbox | Transmisi vanbelt |
| 10. | Mata Pengaduk | Pengaduk ongkar pasang | Pengaduk terhubung langsung dengan poros |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Nama Material** | ***Young’s Modulus*** | ***Yield Strength*** | ***Tensile Strength*** | ***Mass Density*** |
| Besi Siku ASTM A36 | 200 GPa | 250 Mpa | 400 MPa | 7,850 kg/m3 |

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Beban (N)** | **Maximal** | | | | **Minimal** | | | |
| **Von Misses Stress (Mpa)** | **Displacement (mm)** | **Strain** | ***Safety  Factor*** | **Von Misses Stress (Mpa)** | **Displacement (mm)** | **Strain** | ***Safety  Factor*** |
| 170 N | 5,8 | 0,022 | 1,82x10-5 | 6,87x107 | 9,04x10-6 | 0,0000 | 1,82x10-5 | 107 |
| 200 N | 0,361 | 0,00124 | 1,38x10-6 | 3,03x108 | 8,25x10-7 | 1,000e-30 | 1,805x10-6 | 693 |
| 370 N | 5,97 | 0,0259 | 1,97x10-5 | 2x107 | 1,25x10-5 | 1,000e-30 | 1,97x10-5 | 41,9 |