Project Name:

TestingA2

Client Name:

q

Capacity:

q

### 1. Manual Screen

### Sec01: Inputs

|  |  |
| --- | --- |
| Field | Value |
| Chanel Height (m) | 1.2 |
| Channel Width (m) | 0.8 |
| Water Level (m) | 0.75 |
| Water Level Margin (m) | 0.1 |
| Bar Spacing (m) | 0.025 |
| Bar Thickness (m) | 0.01 |
| Bar Width (m) | 0.025 |
| Angle | 45 |

### Sec02: Outputs

|  |  |
| --- | --- |
| Field | Value |
| Weight (KG) | 80.76 |

### 2. Basket screens

### Sec01: Inputs

|  |  |
| --- | --- |
| Field | Value |
| Bar Diameter (mm) | 50 |
| Bar Spacing (mm) | 50 |
| Screen Height (mm) | 2200 |
| Screen Width (mm) | 1400 |
| Screen Length (mm) | 1000 |
| Plate Thickness (mm) | 32 |

### Sec02: Outputs

|  |  |
| --- | --- |
| Field | Value |
| Bars Weight (KG) | 1063.07 |
| Plate Weight (KG) | 334.91 |
| Total Weight (KG) | 1732.89 |

### 3. Mechanical Screen

### Sec01: Inputs

|  |  |
| --- | --- |
| Field | Value |
| Channel Height (mm) | 3000 |
| Screen Width (mm) | 5000 |
| Belt Height (mm) | 6000 |
| Water Level (mm) | 13500 |
| Bar Spacing (mm) | 920 |
| Bar Th (mm) | 30 |
| Bar Width (mm) | 410 |
| Inclination Degree (Deg) | 50 |
| Sprocket Diameter (mm) | 360 |
| Velocity (m/s) | 0.5 |
| Safety Factor | 3 |

### Sec02: Outputs

|  |  |
| --- | --- |
| Field | Value |
| Weight of Screen (kg) | 8616.46 |
| Power Required (Wat) | 260357.14 |
| Speed of motor (RPM) | 26.54 RPM. |