# Project Report: Mohey-Eldeen

## Project Details

Name: Mohey-Eldeen

Client Name: ahmed1234

Capacity: aaaaa1234

### 1. Mechanical Screen

### Sec01: General Data

|  |  |
| --- | --- |
| Field | Value |
| Manufacturer | Factory |
| Quantity | 1 |

### Sec02: Design Data

|  |  |
| --- | --- |
| Field | Value |
| Type | Multi tack |
| Flow | 0.11 m3/sec |
| No. of Rake | 3 |
| Width | 580 mm |
| Length | 3000 mm |
| Dead plate | 4 mm |
| Space between bars | 25 mm |
| Bar Type | Rectangular |
| Bar section | 10x20 mm |
| Inclination | 75 Deg |

### Sec03: Gearmotor Data

|  |  |
| --- | --- |
| Field | Value |
| Gearbox Trade mark | SEW |
| Model | SA77/T |
| Electric Motor Trade Mark | SEW |
| Rated Power | 0.18 kW |
| Supply Voltage | 380 V, 3 Phases, 50 Hz |
| Insulation | Class F |
| Temp Rise | Class B |
| Ingress Protection | IP65 |

### Sec04: Control panel Data

|  |  |
| --- | --- |
| Field | Value |
| Local control panel | Electrostatic painting |
| Panel thicknesses | 2 mm |
| Protection | IP 54 |
| Component | Schneider |
| Operation | Manual / Automatic timer switch |

### Sec05: Material Data

|  |  |
| --- | --- |
| Field | Value |
| Material of Frame & Guide | AISI 316 |
| Dead plate | AISI 316 |
| Rake | AISI 316 |
| Bar screen | AISI 316 |
| Sprocket | AISI 316 |
| Motorize shaft | AISI 316 |
| Bolts & Nuts | AISI 316 (A4) |

### Sec06: Other Data

|  |  |
| --- | --- |
| Field | Value |
| Channel Width | 600 mm |
| Channel Depth | 1180 mm |

### 2. Manual Screen

### Sec01: General Data

|  |  |
| --- | --- |
| Field | Value |
| Manufacturer | Factory |
| Quantity | 1 |
| Operation | Manual |

### Sec02: Design Data

|  |  |
| --- | --- |
| Field | Value |
| Flow | 0.11 m3/s |
| Width | 570 mm |
| Length | 2000 mm |
| Hand rake | No. 2 |
| Space between bar | 25 mm |
| Bar Type | Rectangular |
| Bar section | 10x30 mm |
| Inclination | 45 Deg |

### Sec03: Material Data

|  |  |
| --- | --- |
| Field | Value |
| Frame | AISI 316 |
| Rake | AISI 316 |
| Bar screen | AISI 316 |

### Sec04: Channel Data

|  |  |
| --- | --- |
| Field | Value |
| Channel Width | 600 mm |
| Depth | 1180 mm |

### 3. Belt Conveyor

### Sec01: General Data

|  |  |
| --- | --- |
| Field | Value |
| Manufacturer | Winkel |
| Quantity | 1 |

### Sec02: Design Data

|  |  |
| --- | --- |
| Field | Value |
| Width | 800 |
| Length | 2000 |

### Sec03: Gearbox Data

|  |  |
| --- | --- |
| Field | Value |
| Trade Mark | SEW |
| Model | SA57T |

### Sec04: Motor Data

|  |  |
| --- | --- |
| Field | Value |
| Trade Mark | SEW |
| Rated Power | 0.37 kW |
| Supply Voltage | 380 V, 3 Phases, 50 Hz |
| Insulation | Class F |
| Temp Rise | Class B |
| Ingress Protection | IP65 |

### Sec05: Material Data

|  |  |
| --- | --- |
| Field | Value |
| Frame | Hot deep galvanized steel |
| Roller | Hot deep galvanized steel |
| Bolts & Nuts | AISI 304 (A2) |
| Conveyor | Rubber 10 mm (3Ply cotton/nylon) |