



# Z.C.E

*EIZAHRAA FOR ENGINEERING CONTRACTING AND Supplying*

شركة الزهراء  
للمقاولات الهندسية  
والتوريدات

Project Name:

www

Client Name:

www

Capacity:

www



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## 1. Belt Conveyor

### Sec01: Inputs

Field	Value
Belt Length	7000
Belt Width	800
Drum Diameter	250
Friction	0.3
Velocity	0.4
Factor of Safety	1.5
Belt weight per meter	15

### Sec02: Outputs

Field	Value
Weight	396.33
Power	539.14
Speed	0



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## 2. Mechanical Screen

### Sec01: Inputs

Field	Value
Channel Height (mm)	1000
Screen Width (mm)	1000
Belt Height (mm)	1000
Water Level (mm)	600
Bar Spacing (mm)	25
Bar Th (mm)	10
Bar Width (mm)	50
Inclination Degree (Deg)	70
Sprocket Diameter (mm)	320
Velocity (m/s)	0.06
Safety Factor	1.5

### Sec02: Outputs

Field	Value
Weight of Screen (kg)	496.62
Power Required (Wat)	138.86
Speed of motor (RPM)	3.58 RPM.