



# MMCTECH

SEED PROCESSING MACHINE & EQUIPMENTS  
AUTOMATION SOLUTIONS



## INCLINED BELT CONVEYOR IBC-014

### **Inclined Belt Conveyors application areas are...**

- Loading & Unloading Trucks or Trailers/Containers
- Sack Stacking in warehouse
- Bulk Product conveying and Piling
- Sack Conveying to high and Low heights
- Cardboard Conveying to high and Low heights
- Plastic crates Conveying to high and Low heights

An infinite belt which turns on two drums on a roller bed carries product from the lower points to upper point. To prevent product tumbling back on belt conveyor, correct inclination for each type of product is taken in to consideration with right type of Belt. Discharge height of the Inclined Belt Conveyor can be adjusted by manual Jack Lift or Motorized Jack Lift System.

### **Construction**

Sturdy frame made of Mild Steel and Antirust Coated-Antistatic Powder Oven Painted,  
Maintenance-free ball bearing in Rollers  
Extremely Sturdy Belt with Hot Pressed Z splice connection with many layers of ply.  
60cm width to any required width available Belt  
Transportable with 2 Large Wheels & 2 Small wheels at tail end for Operational maneuvers.  
On Board Motor Control Panel with Emergency Button.

### **Optional Items available on request**

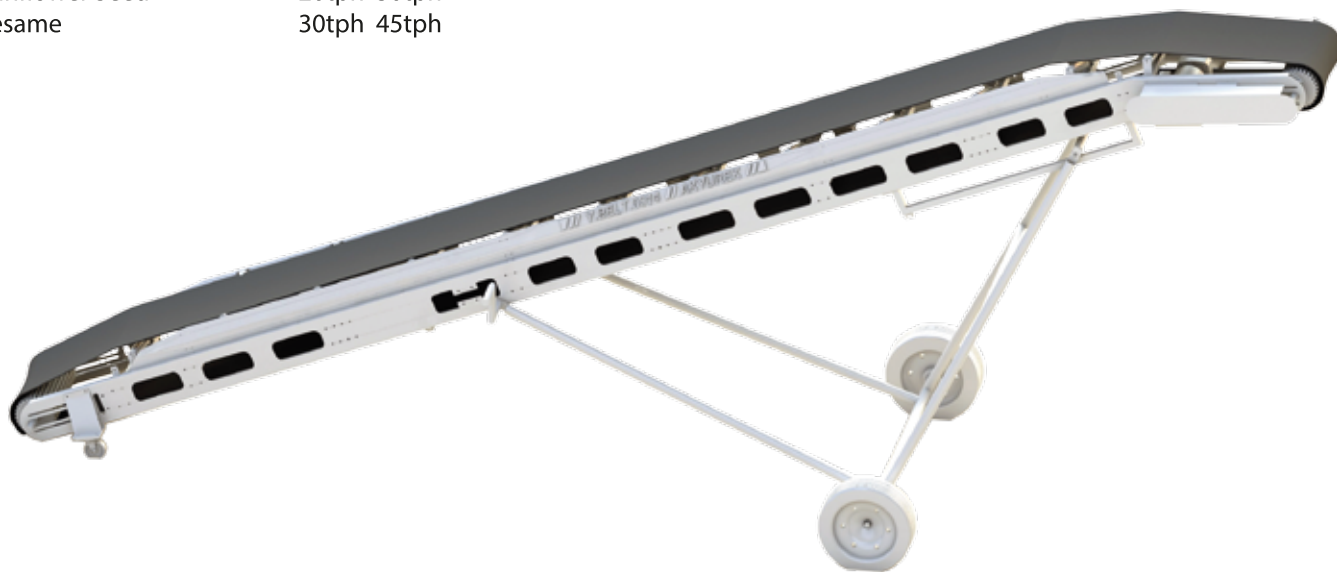
Stainless steel Body Frame  
Galvanized body Frame  
Food Grade Belt  
Towing hook  
Intake Hopper  
Side Walls  
50 meter Cable and Plug  
Generator Installed Onboard.  
Variable Speed Controller.

### **Capacity for Bag/Sack**

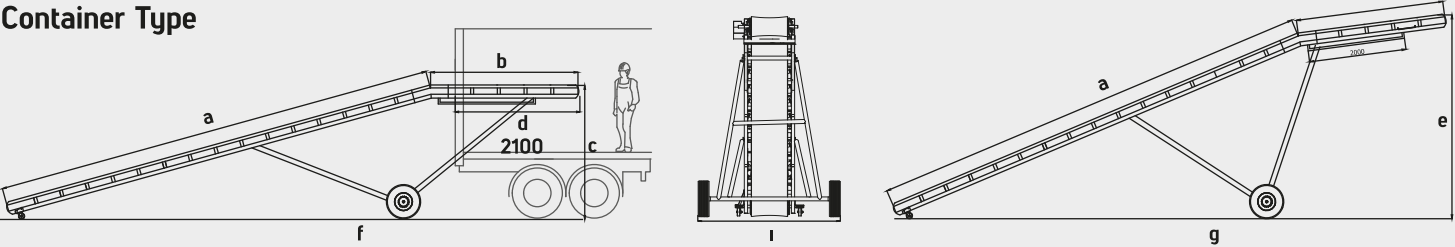
Belt speed 270 meters/hr / 1 meter a 50kg Sack= 270 units of x 50 kg = 13,500 tn /hr  
Belt speed 270 meters/hr / 1,2 meter a 100kg Sack= 225 units of x 100 kg = 22,500 tn /hr

### **Capacity for Bulk Product**

|                | <b>Belt Width</b>    |       |
|----------------|----------------------|-------|
|                | <b>60 cm   80 cm</b> |       |
| Wheat          | 40tph                | 60tph |
| Barley         | 40tph                | 60tph |
| Sunflower Seed | 20tph                | 30tph |
| Sesame         | 30tph                | 45tph |

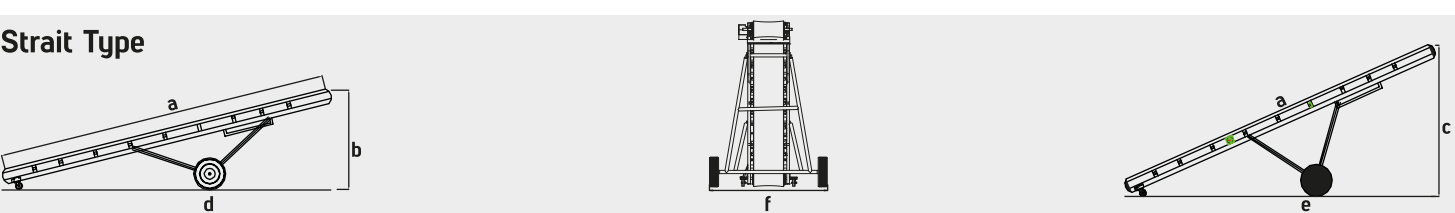


Container Type



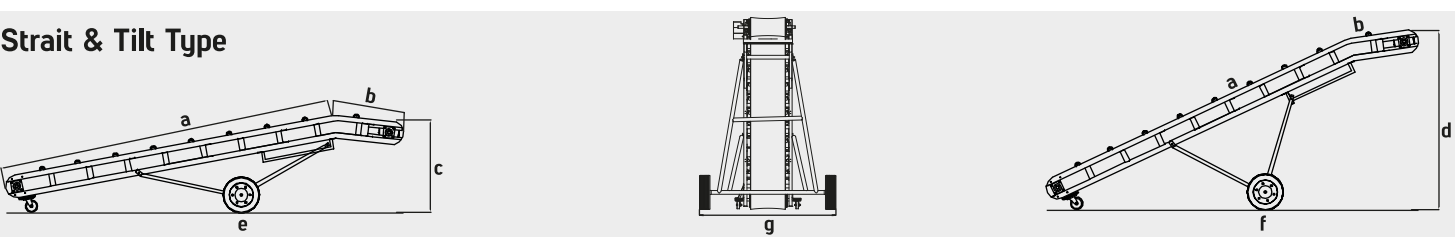
| Belt Lenght<br>Strait + Flat | Dimensions |      |      |      |      |       |       |      | Drive<br>Motor | Jack Lift<br>Motor | Lenght in<br>Container |
|------------------------------|------------|------|------|------|------|-------|-------|------|----------------|--------------------|------------------------|
|                              | a          | b    | c    | d    | e    | f     | g     | I    |                |                    |                        |
| 5 mtr + 2 mtr                | 5000       | 2000 | 2200 | 1100 | 3300 | 6900  | 7100  | 2165 | 2.2 kW         | Manual             | 3450                   |
| 5 mtr + 3 mtr                | 5000       | 3000 | 2250 | 2100 | 3400 | 7900  | 8100  | 2165 | 2.2 kW         | Manual             | 3500                   |
| 6 mtr + 2 mtr                | 6000       | 2000 | 2300 | 1100 | 3500 | 7900  | 8100  | 2165 | 2.2 kW         | Manual             | 3550                   |
| 6 mtr + 3 mtr                | 6000       | 3000 | 2350 | 2100 | 3600 | 8900  | 9100  | 2165 | 3 kW           | Manual             | 3600                   |
| 6 mtr + 4 mtr                | 6000       | 4000 | 2350 | 2900 | 4000 | 9900  | 10100 | 2165 | 3 kW           | 1.5 kW             | 3650                   |
| 7 mtr + 2 mtr                | 7000       | 2000 | 2400 | 1100 | 3700 | 8900  | 9100  | 2165 | 2.2 kW         | 1.5 kW             | 3500                   |
| 7 mtr + 3 mtr                | 7000       | 3000 | 2425 | 2100 | 3800 | 9900  | 10100 | 2165 | 3 kW           | 1.5 kW             | 3550                   |
| 8 mtr + 2 mtr                | 8000       | 2000 | 2500 | 1100 | 3900 | 9900  | 10100 | 2165 | 3 kW           | 1.5 kW             | 3500                   |
| 8 mtr + 3 mtr                | 8000       | 3000 | 2600 | 2100 | 4000 | 10900 | 11100 | 2165 | 3 kW           | 1.5 kW             | 3550                   |
| 9 mtr + 2 mtr                | 9000       | 2000 | 2650 | 1100 | 4100 | 10900 | 11100 | 2165 | 3 kW           | 1.5 kW             | 3500                   |
| 9 mtr + 3 mtr                | 9000       | 3000 | 2760 | 2100 | 4200 | 10900 | 11100 | 2165 | 3 kW           | 1.5 kW             | 3550                   |

Strait Type



| Belt Lenght<br>Strait | Dimensions |      |      |       |       |      | Drive<br>Motor | Jack Lift<br>Motor | Lenght in<br>Container |
|-----------------------|------------|------|------|-------|-------|------|----------------|--------------------|------------------------|
|                       | a          | b    | c    | d     | e     | f    |                |                    |                        |
| 5 mtr                 | 5000       | 1600 | 2500 | 4800  | 4400  | 2165 | 1.5 kW         | Manual             | 1770                   |
| 6 mtr                 | 6000       | 1800 | 2750 | 5800  | 5400  | 2165 | 2.2 kW         | Manual             | 1820                   |
| 7 mtr                 | 7000       | 2000 | 3660 | 6800  | 6400  | 2165 | 2.2 kW         | Manual             | 1870                   |
| 8 mtr                 | 8000       | 2400 | 3900 | 7800  | 7400  | 2165 | 2.2 kW         | Manual             | 1920                   |
| 9 mtr                 | 9000       | 2650 | 4070 | 8800  | 8400  | 2165 | 2.2 kW         | Manual             | 1970                   |
| 10 mtr                | 10000      | 3260 | 5130 | 9800  | 9400  | 2165 | 3 kW           | 1.5 kW             | 2020                   |
| 11 mtr                | 11000      | 3800 | 5500 | 10800 | 10400 | 2165 | 3 kW           | 1.5 kW             | 2070                   |
| 12 mtr                | 12000      | 4400 | 5900 | 11800 | 11400 | 2165 | 3 kW           | 1.5 kW             | 2120                   |
| 13 mtr                | 13000      | 5000 | 6300 | 12800 | 12400 | 2165 | 3 kW           | 1.5 kW             | 2170                   |
| 14 mtr                | 14000      | 5600 | 6700 | 13800 | 13400 | 2165 | 4 kW           | 1.5 kW             | 2220                   |

Strait & Tilt Type



| Belt Lenght<br>Strait + Flat | Dimensions |      |      |      |       |       |      | Drive<br>Motor | Jack Lift<br>Motor | Lenght in<br>Container |
|------------------------------|------------|------|------|------|-------|-------|------|----------------|--------------------|------------------------|
|                              | a          | b    | c    | d    | e     | f     | g    |                |                    |                        |
| 5 mtr + 1 mtr                | 5000       | 1000 | 1400 | 2700 | 5900  | 5700  | 2165 | 1.5 kW         | Manual             | 2770                   |
| 6 mtr + 1 mtr                | 6000       | 1000 | 1650 | 2850 | 6900  | 6700  | 2165 | 2.2 kW         | Manual             | 2820                   |
| 7 mtr + 1 mtr                | 7000       | 1000 | 1900 | 3200 | 7900  | 7700  | 2165 | 2.2 kW         | Manual             | 2870                   |
| 8 mtr + 1 mtr                | 8000       | 1000 | 1900 | 3800 | 8900  | 8700  | 2165 | 2.2 kW         | 1.5 kW             | 2920                   |
| 9 mtr + 1 mtr                | 9000       | 1000 | 2000 | 4150 | 9900  | 9700  | 2165 | 3 kW           | 1.5 kW             | 2970                   |
| 10 mtr + 1 mtr               | 10000      | 1000 | 2100 | 4250 | 10900 | 10700 | 2165 | 3 kW           | 1.5 kW             | 3020                   |
| 11 mtr + 1 mtr               | 11000      | 1000 | 2200 | 4350 | 11900 | 11700 | 2165 | 3 kW           | 1.5 kW             | 3070                   |
| 12 mtr + 1 mtr               | 12000      | 1000 | 2300 | 4450 | 12900 | 12700 | 2165 | 3 kW           | 1.5 kW             | 3120                   |
| 13 mtr + 1 mtr               | 13000      | 1000 | 2400 | 4550 | 13900 | 13700 | 2165 | 4 kW           | 1.5 kW             | 3170                   |
| 14 mtr + 1 mtr               | 14000      | 1000 | 2500 | 4650 | 14900 | 14700 | 2165 | 4 kW           | 1.5 kW             | 3220                   |



Jack Lift : Inclination height adjusted with Manually Controlled Jack Lift.

Over 8 meter long Inclined Belt Conveyors Motorized Jack lift is recommend due to load weight.



Front end equipped with two Large wheels for Mobility as well as Towing.

Tail end equipped with two small wheels for maneuvering.



Belt Tensioner and Spanner provided.

Embedded Motor for protection.



On Board Power Panel

Sturdy Cleated Belt and all other Optional Belts.

