



BELT CHANGING DEVICE



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TOTAL BELT MANAGEMENT

ABOUT SYNERGY :

Synergy Industrial Services Pvt. Ltd. was incorporated in 1996 with the purpose of offering "TOTAL BELT MANAGEMENT" services to the users of Material Handling Systems in India. Our services encompass delivering top quality Conveyor Belts, Spillage control conveyor accessories, Steep Angle Belt systems, portable Belt Vulcanizing Press, Belt Changing Equipment and Design & Engineering Solution related to Belt Conveyors. Today Synergy delivers products & services to Global companies like Tata Steel, ThyssenKrupp, Takraf-Tenova, FLSmidth, McNally Bharat, Larsen & Toubro and Indian companies such as National Thermal Power Corporation, Steel Authority of India Ltd., Grasim Industries, TRF, Elecon, HINDALCO to name a few.

Our basic philosophy is to obtain Total Customer Satisfaction through transparent business practices and our mission is to have all people who interact with us, regard us as a good company to work for, to buy from and to sell to.

We consider our people to be the best asset that led to a vibrant Organization that we are today.

We humbly invite you to come into business with us.

BELT CHANGING DEVICE

This equipment is used for replacing an old belt from the conveyor systems with a new one. The replacement is done with a constant linear speed, which is achieved through Variable Voltage Variable Frequency (VVVF) Drive. These units can be located in line with the conveyor, at any convenient location.

To replace the old belt, the same is cut off at one end and is attached to the belt winder unit while the other end is attached to the new belt which is mounted on the un-winder. The winder then winds the old belt and at the same time lays the new belt. When one roll of the new belt has being laid the next new roll is placed on the un-winder and after splicing & belt jointing, the same operation may be repeated.

Construction of the machine

1. Drive

The equipment is driven by Electrical motor (3-Ph. Squirrel Cage Induction Motor) & Planetary Gear Box. Both Winder & Un-winder are provided with individual drives so that proper Synchronisation of linear speed can be achieved at different diameters of the drums. Electro-Hydraulic Thruster Brake is provided for the winder drum.

2. Drive Shaft

Square shaft is used for driving the winder & un-winder drums. The shafts are designed as per the square openings of the new belt reel. User friendly design, easy replacement of drums.

3. Guide roller

Guide rolls are provided for both winder and un-winder to facilitate proper laying of the belt in the system

The above components are skid mounted/ trailer mounted on solid frames as per customer requirement

Tools & accessories

Accessories for Belt Changing Device include the following :

- Electrical winch with wire ropes
- Cable Reeling Drum
- Belt Clamping Device
- Trailer
- Prime Mover (Truck / Tractor)

The above mentioned accessories are not a part of the standard equipment.

