Belt Winder & Belt Stand

Wenco offers a range of belt winder & belt stand to the Australian mining industry. A Belt Changing Station consists of belt winder & belt stand. These units can be located in line with the Conveyor one after the other, at any convenient location, at head or tail end.

Operation

To replace the old belt with the new belt, the old belt is cut off at one end and is attached to the Belt Winder unit on a drum while the other end is attached to the end of the new belt which is mounted on the Belt Stand. Belt jointing/splicing is done with the help of a Vulcanising Machine. The Belt winder then winds the old belt and at the same time lays the new belt on the conveyor. When one roll of new belt has been laid, the next new roll shall be placed on the belt stand and after splicing, the same operation may be repeated. Additional tools/handling equipment/winch may be required for bringing the belt ends together and also to bring the end of the old belt up to the Winder.
Belt Winder Construction

The Belt Winder consists of the following:

- Drive - consisting of Hydraulic Power Pack, Hydraulic Motor and reduction Gear Box.
- Supports - for carrying the shaft on to which the drum is mounted on bearings.

The above components are mounted on a solid frame of a welded structure. For transporting the coiled belt, the winding with the belt wound on the drum will have to be separated from the drive for which provision has been made in the design. Belt guiding devices are provided integral with the mounting frame so that belt is tightly and linearly coiled. Stairs at each side will be provided for approach to platform on both sides of the belt drum. The winding shaft will be of square cross section and the winding drum should have a square hole to suit this shaft. This shaft is made of alloy steel to withstand the pulling forces and also the weight of the rolled belt and drum.

Scope of Supply

The Belt Winder shall mainly consist of:

- Steel Structure design skid mounted.
- Winding Shaft.
- Support Bearings.
- Belt Guide device.
- Drive arrangement complete with Hydraulic Power Pack and Coupling.
- Platform on both sides with grid flooring and ladders.
- Electrical Panel Box with isolating switches and connection to the electric motor of the hydraulic power pack.
**Belt Stand Construction**

The Belt Stand consists of a welded structure of robust design mounted on a skid. The new belt roll is placed on this structure on a shaft, mounted in bearings. The Belt Stand does not have a drive unit. Stairs at each side shall be provided for approach to platform on both sides of the belt reel. For loading the new belt roll, the belt stand shaft will have to be separated from its bearings. Cross section of the belt stand shall be suitable for adaptation to the size of the hole of the belt drum of the new belt. This information will have to be provided or sketch furnished to enable us to design the size of the shaft of the belt stand. The support bearings for the winding shaft will be in two halves, i.e. upper and lower halves.

This will enable the bearing to be opened for loading/unloading of the shaft.

**Scope Of Supply**

The Belt Stand shall mainly consist of:

- Steel structure design skid mounted
- Winding Shaft
- Support Bearings
- Platform on both sides with grid flooring and ladders