

Tech update

For well over a century belt conveyors have delivered bulk materials from a receiving point to a discharge point some distance away, but many processes require a conveyor to discharge bulk materials not only at the end of the conveyor but also at multiple points along its length.



Since 1943

Chantland MHS has been designing and manufacturing belt trippers to distribute bulk materials along the length of conveyor belts. From relatively simple gravity trippers moved back-and-forth using a basic cable winch for stock piling materials such as fertilizers and grains to heavy cross-belt trippers controlled by PLC and laser positioning devices filling storage silos for specialty aggregate granules.

In non-severe operating applications belt trippers are designed to run along conveyor frames which often are designed with an integral track to support the tripper carriage. Although in some instances, where



materials allow, a tripper may be designed without supporting the belt as it inclines up and out of

the main conveyor belt, the tripper carriage most often is designed with an inclined section which supports the belt as it inclines up and out of the main conveyor frame. At the end of this inclined section the material is discharged from the main conveyor belt to either a gravity chute or cross belt conveyor. When using gravity discharge chutes, the material can also be dropped back onto the main conveyor belt to be discharged off the end of the conveyor.

In severe operating conditions the trippers are designed with much heavier frames which must be supported by structural rails. These trippers can be moved forward and backward by using the main conveyor belt or through on-board electric drives.



Additional designs incorporate indexing cross-belt conveyors for reaching multiple

load points which are found in large bulk storage facilities such as shown in the above image.

Regardless of the application, if you need to transfer material from the main conveyor belt at points along the length, a belt tripper can be designed to do the job.

Search 'Chantland Belt Tripper' on YouTube to view several videos of our trippers in action and more at our product video library on our website http://www.chantland.com/en/about_us/product_video_library/

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