



Technical Bulletin No. 101

Motorized Pulley Mounting Orientations



Head Pulley Drive (Below Frame)

Close-up of 15.75" diameter 15 HP screen feed conveyor drive on mobile 850 TPH recirculating crushing/screening plant. Pulley is mounted to bottom of structural support beam. Note close proximity of top deck of vibrating screen.



Head Pulley Drive (Above Frame)

End view of 24.8" diameter 30 HP drive pulley for 48" wide elevating conveyor at floating clamshell dredge gravel operation in Germany. Mounting brackets are keyed to the pulley shaft and bolted on top of the conveyor support structure.



Center "Underslung" Pulley Drive

Conveyor belt drive beneath frame at center of transfer conveyor at bulk parcel handling facility in Kansas City. Note that both 12.64" diameter 7.5 HP drive pulley and counterweighted automatic take-up pulley are mounted in common nest.



Center Pulley Drive Nest

Mobile Canadian screen plant features three 12.64" diameter 5.5 HP motorized pulleys in congested center drive location. Note flexible conduit connecting terminal boxes on end of each pulley shaft with external junction boxes and manual disconnect switches.



Take-up Pulley Drive (Sliding Pedestal)

Wisconsin OEM installed drive pulley at tail of 850 TPH 36" wide screen feed conveyor in this mobile crushing/screening plant in 2003. This is one of two 15 HP drives required in this design. Note that motorized pulley is mounted on pedestal-type jacking screw take-up.



Take-up Pulley Drive (Expanding Bracket)

Crawler-mounted transfer bridge uses 24.8" diameter 50 HP motorized pulley at tail of transfer conveyor at this German limestone quarry. Note that drive pulley is mounted in expanding bracket-type jacking screw take-up. This photo was taken in 1993 when the system was more than 12 years old.



Tail Pulley Drive

Bucket wheel boom belt drive is located in tail position on this FAM marl excavator in Charleston, South Carolina. This 31.5" diameter 100 HP motorized pulley is outfitted with external brake to hold back material when belt is stopped in incline or decline position. Excavator cantilevered discharge conveyor also uses 31.5" diameter 100 HP motorized pulley in tail position.



- **Hermetically sealed enclosure increases system reliability**
- **Internal motor & gearbox minimizes conveyor drive size & weight**
- **Self-lubricating gearbox design decreases maintenance expense**
- **Enclosed drive and "dead shaft" improve operator safety**
- **Direct drive lowers electrical power cost**



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