

B. W. SINCLAIR INFORMATION UPDATE

PIGMENT MANUFACTURER USES BWSI CONTINUOUS DISCHARGE ELEVATORS FOR HOT ORE

One of the world's most prominent suppliers of titanium dioxide (TiO₂) pigments regularly selects BWSI Heavy-Duty Continuous Discharge Bucket Elevators to elevate the extremely abrasive, hot crushed ilmenite ore from which the product is refined.

Ilmenite occurs naturally in minerals deposits and in rutile beach sand. TiO₂ has become the most widely used white pigment because of its brightness and very high refractive index. Mined and delivered to the plant sites, the ore is crushed, screened, and elevated to storage facilities and into high-capacity dryers. Material temperatures in the elevators normally reach 350° to 400°.

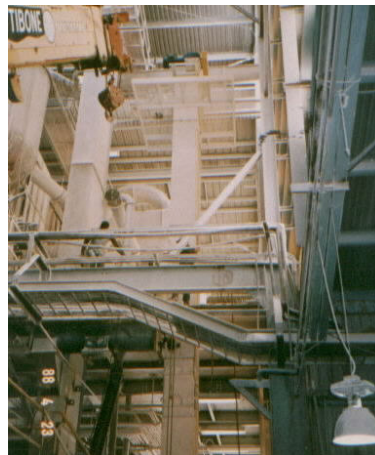


Our "standard" model for this client is the BWSI 710-14x7 Continuous Discharge Elevator. The buckets are mounted on ER-856™ engineered-class steel elevator chain with buckets spaced at 12" intervals. Chain tension is maintained with a special external gravity take-up module fitted with shaft seals and inverted Dodge Type E-xtra™ tapered roller bearing pillow blocks. The weight box is installed in guide rails mounted between the up and down strands of chain, improving the traditional cantilevered external GTU motion by re-centering the mass directly above the boot sprocket. The slow speed – 125 ft/min --Series 700 elevator minimizes wear.



The upper wheel is a segmental rim traction wheel, which better handles the elevated temperature and abrasive qualities of the ore.

BWSI quick access CamLock™ inspection and cleanout doors are installed in both the head and the boot to provide operator access. The client also requires certain special features, including dust take-off nozzles, a bar grizzly at the discharge to capture oversized material, and "poke ports" to clear blockages at the inlet and outlet. The elevator buckets are fabricated mild steel, heavy-duty seal welded construction, complete with an AR-400™ wear lip to prolong life.



Jig-fit modular casings facilitate rapid installation and assure proper fit and operation.

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