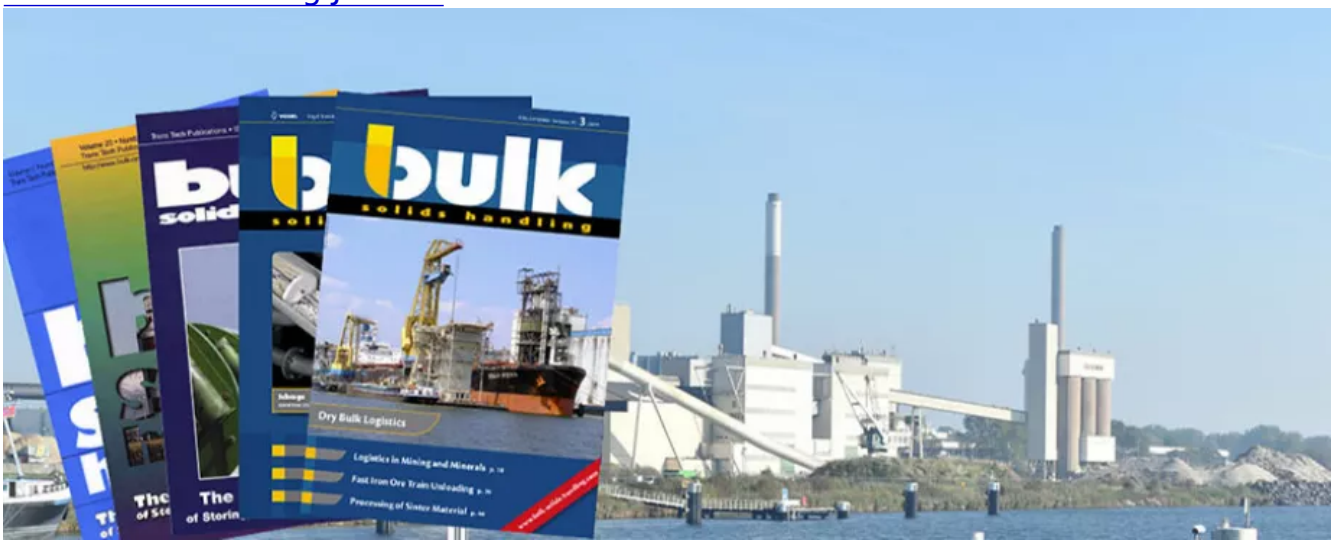
bulk solids handling Journal



Case Study

An Important Achievement in a U.S. Cement Plant

Edited by on 1. Nov. 2023
Published in bulk solids handling, Vol. 2 (1982) No. 3

The installation of a mobile toothed roller crusher which can handle widely differing large size hard and dry as well as moist and sticky materials and its technical data are described, as well as the reclaiming machines which recover these products from stockpile. An innovative approach led to an efficient and dependable raw material handling scheme in a cement plant application resulting in low operating costs.

One of the most important consignments Bedeschi S.p.A. recently shipped to the USA was that for the Alamo Cement Plant at San Antonio, Texas, which included the following equipment (Fig.1):

- a mobile primary crushing unit, Model AG 850 x 1800 (Bedeschi) with a capacity of 800 t/h, skid-mounted.
- a portal type reclaimer with mixing blades Model PAL P 300/20 (Bedeschi) with a capacity of 300 t/h.
- a portal type reclaimer with buckets, Model BEL P 100/14 (Bedeschi) with a capacity of 100 t/h.

The crushing unit consists of a hopper which receives mate rial from the pit, an apron feeder with an inclined metal carpet and a roller crusher with toothed

rollers and low peripheral speed (Fig. 2).

All raw materials to be crushed pass through this roller crusher. Of special interest are the very hard and dry Austin Chalk and Anacacho Marl and the moist, plastic and sticky Eagle Ford Shale.