

**Presentation
by
TECPRO SYSTEMS LIMITED**

to

THERMAL POWER INDIA-4

on

29.1.2010



TECPRO SYSTEMS LIMITED



12.04.2005 03:29
An ISO 9001 Company

Tecpro –performance overview- since 2001

- Belt conveyors- more than 3000 nos and length of more than 400 km.
- Pipe conveyors -5.13km
- Slat chain conveyors- 30nos.
- Crushers- more than 200 nos.
- Vibrating Screens- 150nos
- Flip flow screens- more than 200nos.
- Grizzly feeders- more than 20 nos.



Leading clients- Power Sector

- Reliance Energy Ltd- 2 x 300 MW TPP CHP (Yamuna Nagar)
- Reliance Energy Ltd – 2 x 300 MW TPP (Rosa)
- Reliance Energy Ltd – 2 x 600 MW TPP (Hisar)
- Tata Projects, Hyderabad – 2 x 800 MW Krishnapatnam for APGENCO
- Maithon Power Limited – 2 x 525 MW CHPb for Tata Power Ltd
- NTPC Korba 500 MW CHP
- Mecon Ltd- 2 x 210MW – for Neyveli Lignite Corpn.,
- Punj Lloyd Ltd- 2 x 250 MW Chhabra TPP.
- Lanco Power- 2 x 300 MW for Amarkantak project, Korba
- Tata Projects Ltd for 1 x 195 MW Kota TPP
- Adani Power Ltd for Mundhra power project.
- Thermax Ltd- five projects in CPP.
- BHEL- Northe Chennai 2 X 600 MW TPP.



International Associations / Collaborations

FAM Magdeburger Förderanlagen und
Baumaschinen GmbH, Germany

1. Impact Crusher, Hammer Mills, Roll Crusher and Roller screens.



M/s. Hein, Lehmann Trenn-Und Fördertechnik
GmbH, Germany

- Flip Flow screens.



HEIN, LEHMANN
TRENN- UND FÖRDERTECHNIK GMBH



Flip-Flow Screen

Manufactured in India by
TECPRO SYSTEMS LIMITED, CHENNAI

UNDER Licensee of M/S HEIN LEHMANN , GERMANY

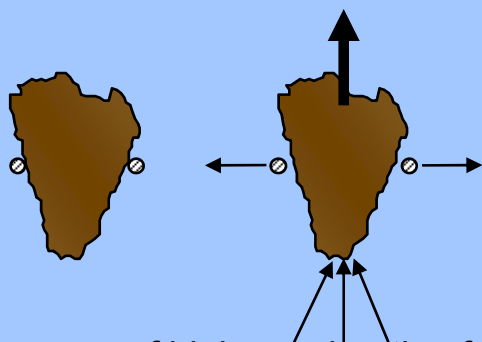


Screening problems

During screening operations, problems will arise due to blocking of apertures in the screen panels, the main causes being pegging and blinding.

Pegging:

clogging of apertures due to conical shaped particles which get stuck in the screen panel.

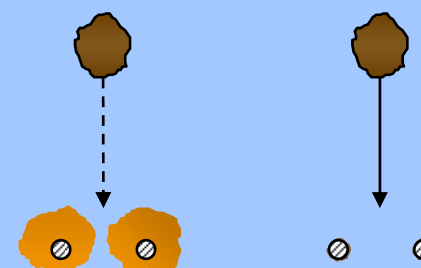


Prevention:

- by means of high acceleration forces which eject the wedged particles
- use of flexible "breathing" screen panels allowing the particle to pass through or releasing it during the acceleration phase

Blinding:

blocking of apertures due to a build up of fine, moist material

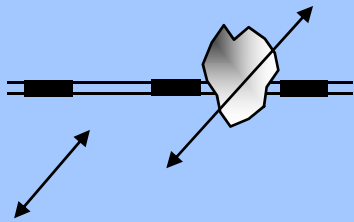


Prevention

- by using screen panels made of Polyurethane, rubber etc. which have anti-adhesive properties
- high acceleration forces (acceleration power > adhesive strength)
- flexing screen panels causing caked material to break-up



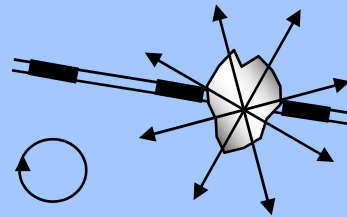
Comparison of Resultant acceleration ratio



Linear motion screen

$$F_A = \text{max. } 5 \text{ g}$$

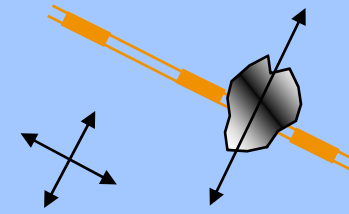
machine load:
5 g



Circular motion screen

$$F_A = \text{max. } 5 \text{ g}$$

machine load:
5 g



Flip-Flow-screen

$$F_A = \text{max. } 50 \text{ g}$$

machine load:
2,4 g





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