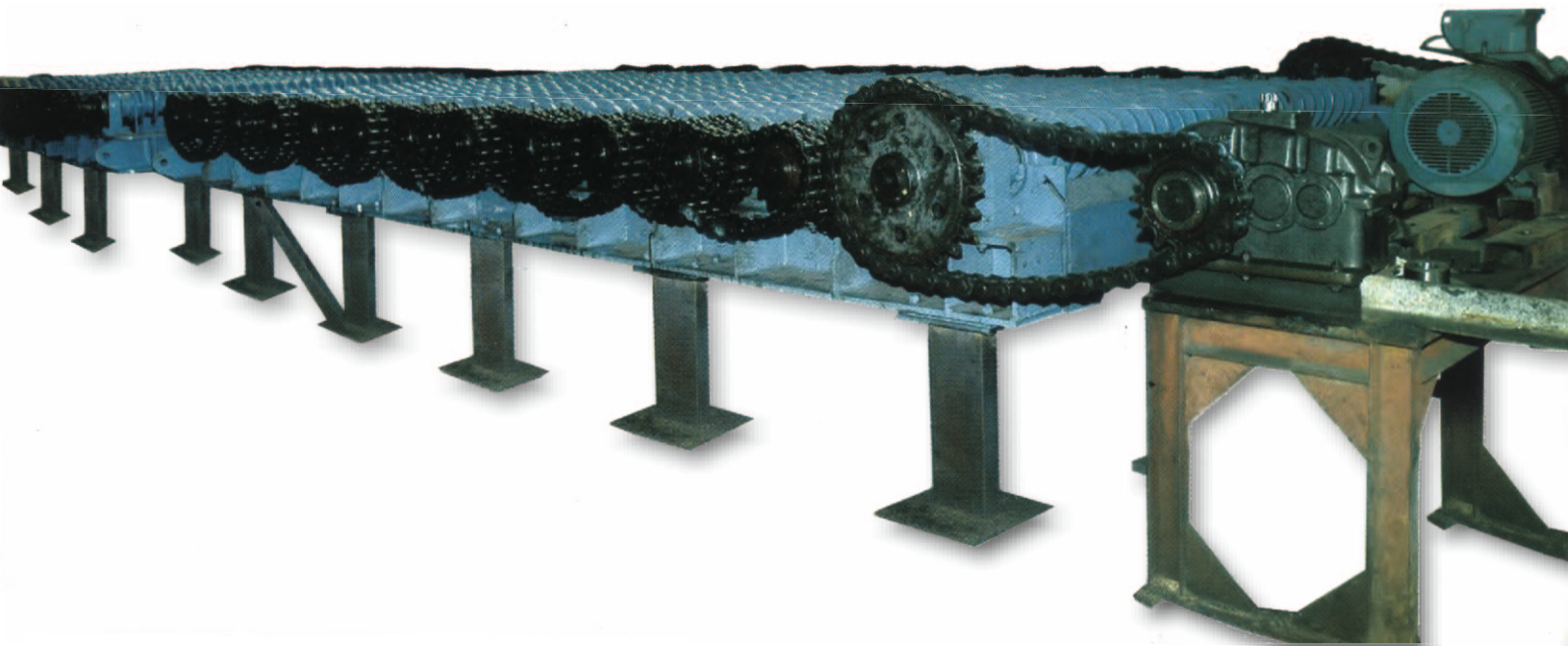


## Roller Screens



### TECHNICAL SPECIFICATIONS

- Higher capacity up to 1500 TPH running at low power compared to conventional screens
- Less space required
- Higher screen efficiency
- Non clogging, smooth, non-vibrating and low noise while running
- Length and width of roller screens can be adjusted to suit customers' requirement

## Description

Roller screens consists of a rigid main frame and a series of roller disc assemblies mounted on shafts and supported on spherical roller bearings across the width of main frame. These roller discs are elliptical in shape and arranged at a pre-determined distance in such a way that they form a square or rectangular opening in the roller screen at several places. Over sized materials are pushed forward by rotation of elliptical discs and finally reach the crusher as feed, while undersized material falls through the screen opening. The scrapper provided below the elliptical discs ensures clog free screening.

## Application :

TRF Roller screens are most suitable for separating coars wet and sticky raw material. Roller screens are used in soft coal, and lignite handling plants for preliminary screening of ROM coal. It acts as relief to crushers and ensures a clog free flow of wet and sticky materials. TRF roller screens are useful for separation of undersized material ranging from (-) 20 mm. to (-) 60 mm. The roller screens can be placed horizontally or at angle of maximum 10 degrees.

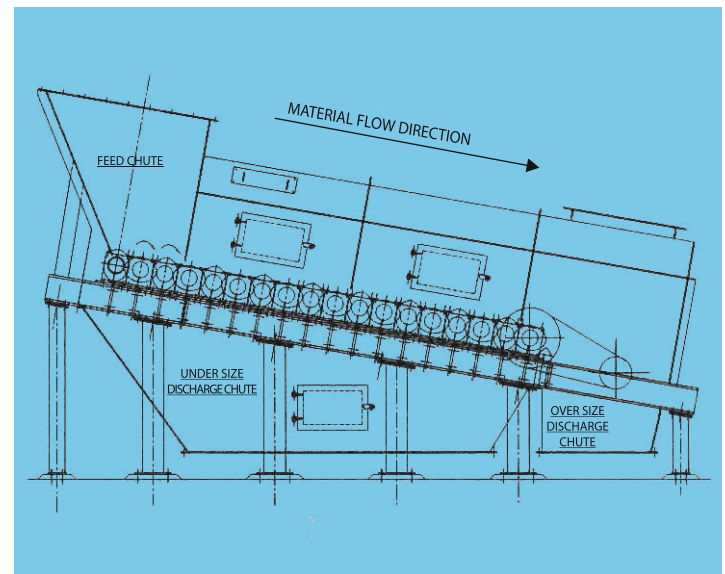
## Construction :

The roller screens consist of a rigid frame on which a series of roller shaft assemblies are mounted with anti-friction bearings

These roller shaft assemblies are driven by chain and sprocket arrangement. All roller shaft assemblies are connected alternately with chain and sprocket and are driven in same direction by two drive units. Drive is fully covered and operates in a circulating oil bath.

## Drive :

Each roller screen has two drive units along with electric motor, fluid coupling, gearbox and drive sprocket.



## HEAD OFFICE & WORKS

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