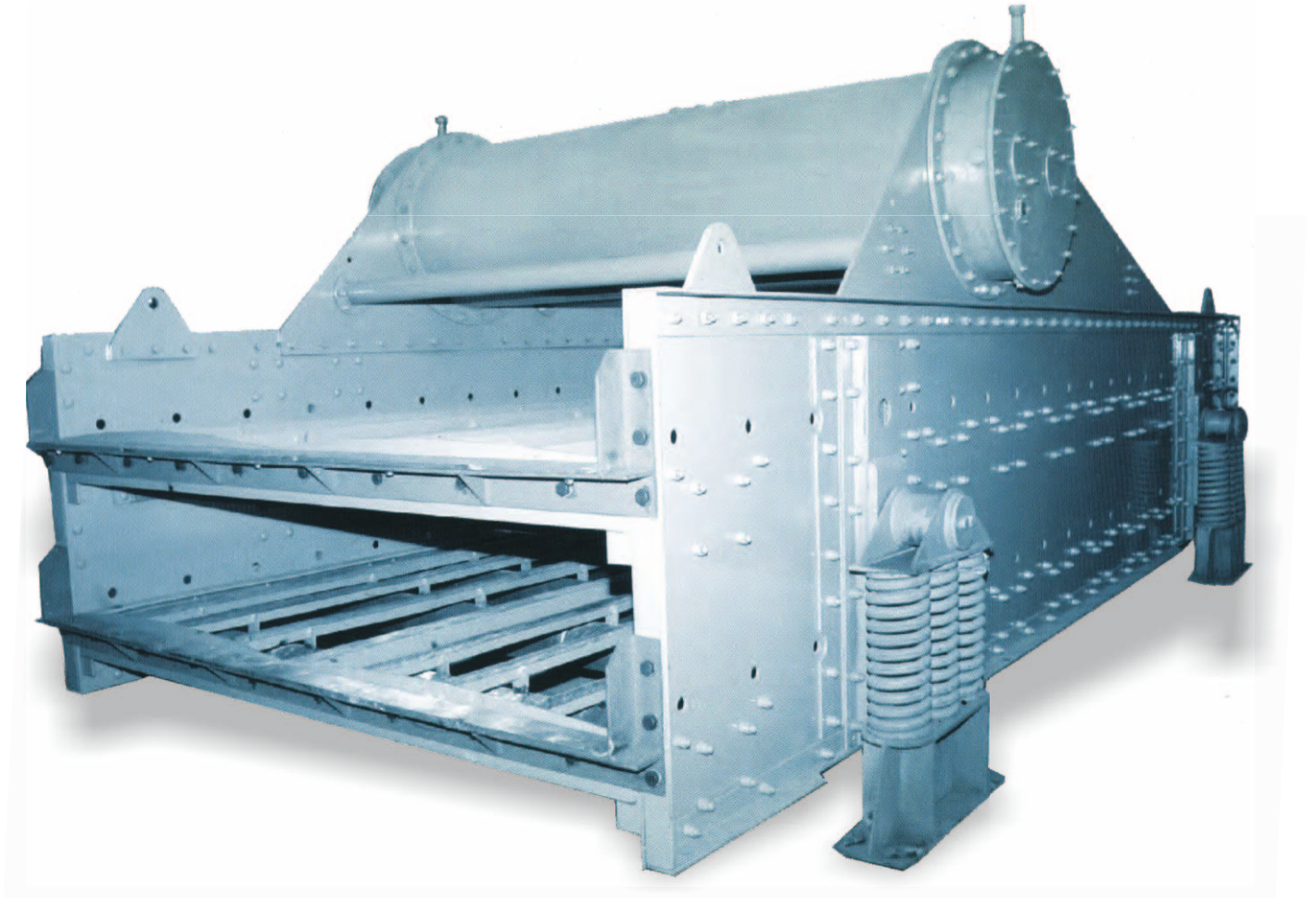


## Truflo Screens



### TECHNICAL SPECIFICATIONS

- Elliptical motion throughout produces an accurately - sized product
- All permanent joints are Huck Bolted
- Simple oil splash lubrication - uses double lip grease lubricated oil seal

# Turflo Screens

## Advance Screening Technology

TRF TRUFLO Screens combine modern technology with all time tested and proven features developed in over several years of manufacturing vibrating screens.

**Exclusive elliptical motion...proven far superior in thousands of installations.**

Only TRUFLO screens offer the advantages of three-way motion (horizontal, vertical and elliptical). This unique movement quickly stratifies and turns materials so that all sides of each particle are exposed to deck openings and, in the case of dewaterizers, to water spray. The result is complete screening, accurate sizing and thorough dewatering.

### Super Tough TRUFLO Vibrator design

The simple, rugged design of the TRUFLO Vibrator leads to minimum downtime and maintenance costs. Some of the features that make TRUFLO Vibrators extra-reliable are its self-counterweighted shafts machined from steel forgings; oil splash lubrication system; slipfit spherical roller bearings protected against contamination by grease-purged, double-lip seals and precision-cut, wide-face, helical gears.

### Advantages of horizontal screen installation

TRUFLO screens offer all benefits of horizontal mounting. Space is saved because only minimum head-room is needed. This allows the installation of taller, higher-capacity storage bins. No water drains off the discharge-end in dewatering or wet screening applications in horizontally installed screens.

The need to re-lift material to a higher level or install extra conveyors is also eliminated.

### Complete range of models, types and sizes to meet every need

There is a TRUFLO screen to meet every, processing need. There are more than 120 basic models and sizes from 914 x 3658 mm to 2438 x 6096 mm with single, double and triple decks and specifications on file for many larger and more specialized types. A wide selection of special decks are available for dewatering, washing, scalping and processing.

any material.

### Flexible drive arrangement

The drive motor is mounted on a combination of pivoted and sliding base and may either be floor-mounted or mounted overhead. It adjusts itself to maintain proper tension in the V-belts while running. The V-belt drive utilizes deep groove sheaves. the eccentrically-bored screen sheave offsets the stroke, so that drive centres do not change during operation.

### Benefits of TRF skill and experience

TRF is a name that has become synonymous with quality and dependability. TRF equipment strikes a judicious balance between modernity, innovation and time-proven features.

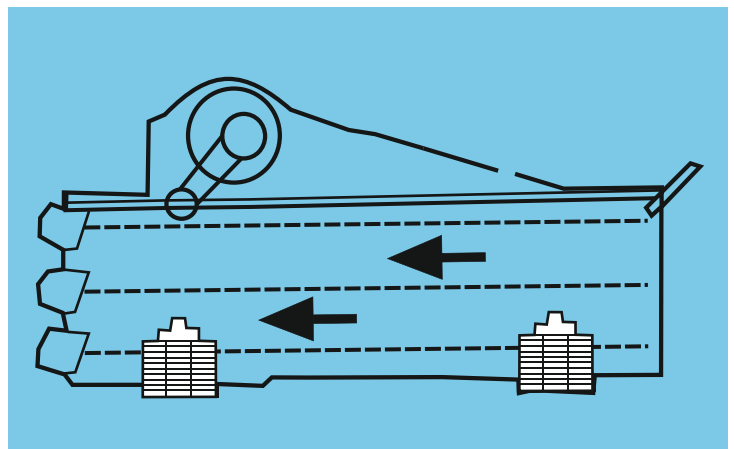
## TRUFLO Screens produce more tonnage at lower cost

### Large surge capacity between decks eliminates blockages

Maximum clearance between decks eliminates blockages caused by surging of feed material and permits easy maintenance. The vibrator, mounted on top of the unit (or underslung in a specially-engineered unit) presents no impediment to free material flow. TRUFLO screens are designed for high-capacity operations.

### Stop-start bounce problem minimized

Optional support-mount friction check assemblies, installed as an addition to corner spring supports, help eliminate the problem of stop-start bounce. Mounted inboard



Typical elevation of Truflo Screens



of the spring supports, they require no additional overall width for screen installation. A replaceable friction plug bracket makes servicing easy.

### Meets environmental requirements

Motor drive system guards and dust enclosures are installed to meet safety regulations and to protect the screens from environmental contamination.

Standardized screen panels, and tension plates reduce inventory costs.

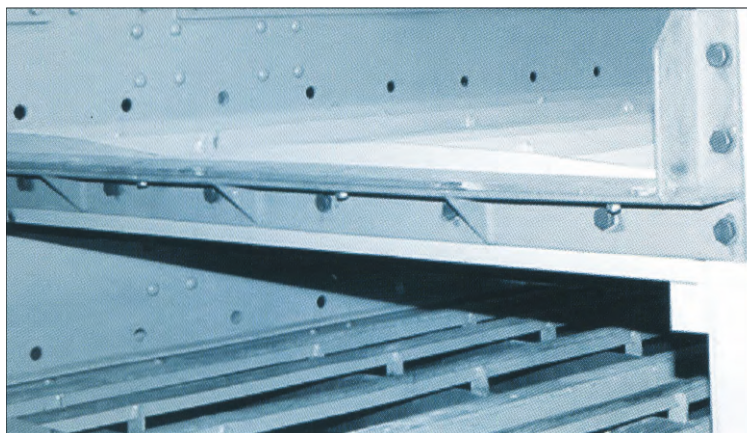
Equal length tension plates and cloth panels are interchangeable on all screens, even between most screen sizes. All 3658 mm, 4877 mm, 6096 mm units use 1219 mm long panels. Standardise on TRUFLO screens and reduce back-up inventory costs.

### Spin-on, spin-off, high-strength bolt system makes part replacement easy

TRUFLO screens are designed to allow easy replacement of individual components such as crossmembers, cloth support bars, discharge lips, feed hoppers and back-plates. This is another feature that reduces labour and downtime costs considerably. "Burn-off" welds, rivets, or other fasteners is never needed. Components are fastened by Huck Bolts or by torqued, high-carbon bolts which also eliminate loose-connection problems resulting from over-tightening.

## Super tough screens for super tough jobs

**Rugged construction and balanced design give TRUFLO screens the muscle to handle the toughest jobs**



Angle adjusting spring pivot arrangement

### Free-floating concept insulates supporting structure from vibration

The entire TRUFLO screen unit is free-floating, whether floor-mounted or suspended. Cushioning corner springs absorb 95% of the vibration, isolating the screen from the supporting structure. These springs serve this specific purpose. They play no part in producing the motion of the screen. The very characteristics which protect the supports against vibration are the ones which allow maximum freedom of action.

## Sharp, accurate sizing, low-cost dewaterizing

**TRF TRUFLO Dewaterizers combine washing, sizing and dewaterizing into one operation to save space, operating and production costs**

The basis function of a TRUFLO Dewaterizer is to remove the surface moisture of a product to enhance its qualities. For example, increasing the BTU content of coal, decreasing freight costs, beneficiating coal for such uses as metallurgical coke, eliminating freezing problems, preparing the product for added efficiency in sizing and air cleaning.

TRUFLO Dewaterizer also finds specific application in prewetting, desliming, draining and rinsing (heavy media separation).

By adding another deck above the dewaterizing deck, material can be sized in the same operation leading to further economy in equipment investment and operating costs.



## TRUFLO VIBRATORS : famous for reliability

### Self-counter-weighted shafts

Simple, rugged, 2 nos. one-piece shafts are precision machined from steel forgings for long, trouble-free service life. Self-counter weighted shaft design, eliminates the problems of separate counterweights which are cumbersome, waste space and tend to cause excessive shaft deflection beyond bearing misalignment limits.

### Wide-faced helical gears

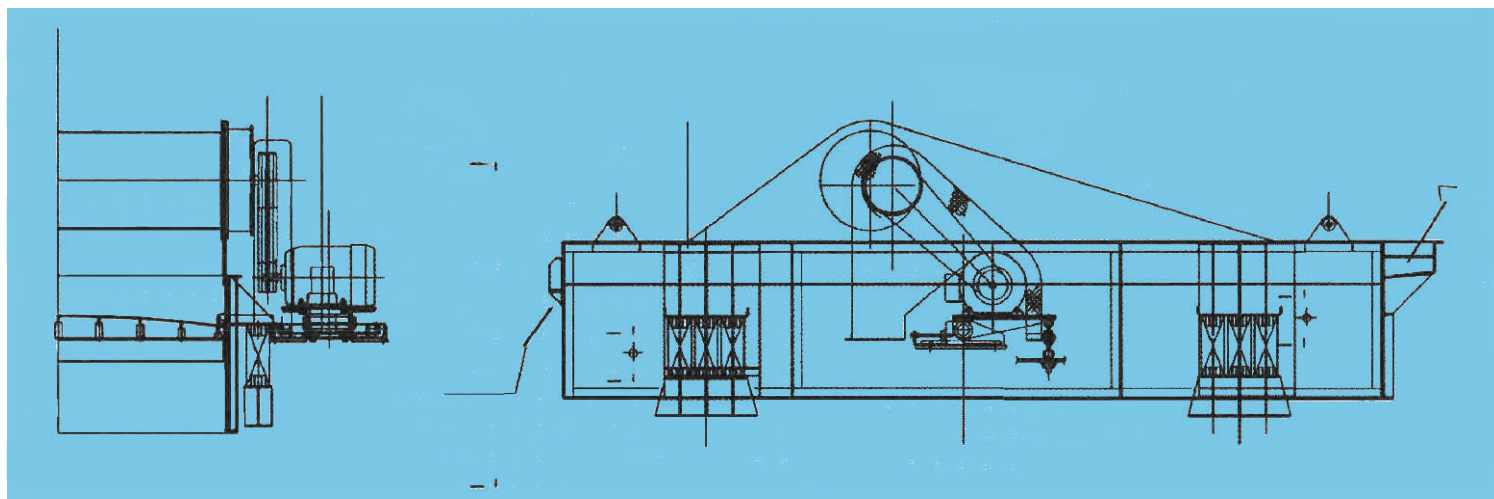
Timing gears are premium-quality, single-helical design, precision - cut from heat-treated steel. Wide-face helical gears distribute stresses much more effectively than spur gears.

### Oil-splash lubrication

Through-flow, oil-splash system provides superior lubrication of gears and bearings. Large oil reservoir, extending the full length of the vibrator housing, dissipates heat rapidly, lowers bearing temperatures for longer bearing life. It is designed for 1000-hour oil change periods.

### Salient Features

Range & Capacity	The range & capacity of any screen depend on sieve analysis, half size factor, % of fines etc. TRF has a very advance system of screen selection which has been developed based on its vast knowledge base & field data. TRF screen can handle a vast range of material. Few example is are:	Iron ore – 0-50 mm Coal – 0-450 mm Sinter – 0-50 mm
Moisture	TRF screen has capability to handle entire spectrum of material having varied moisture content. Different technology is used depends upon moisture content. Generally dry screening is used up 10% moisture. More than 10%, wet screening is recommended.	
Temperature	TRF has screen with special arrangement to handle high temperature material. The exciter assembly is suitably designed to handle high temperature	



GENERAL ARRANGEMENT

## HEAD OFFICE & WORKS

### TRF Limited

11, Station Road Burma Mines, Jamshedpur-831007, Jharkhand  
Phone : +91-657-2345721, e-mail : lcs@trf.co.in  
Website : www.trf.co.in