A Quick Reference List

- 1. Dashan Concentrator, Dexing Copper, JCC, China: F.E. and D.E. rubber liners on Φ10.37×5.19m SAG mill
- 2. Dongguashan Concentrator, Tongling Copper, China F.E. and D.E. rubber liners on Φ8.5×4m SAG mill F.E. and D.E. rubber liners on Φ5.03×8.3m ball mill
- 3. CITIC Heavy Industrial Machinery Co., Ltd, China Rubber liners on Φ12.2×11m ball mills (SINO Iron, Australia) Rubber liners on Φ5.5×8.8m ball mills (CONCEICAO Iron, Vale, Brazil) Rubber liners on Φ7.9×13.5m ball mill (SINO Iron, Australia)
- 4. Saindak Cu & Au Mine, MCC, in Pakistan Rubber liners on Φ5.03×6.4m ball mills Rubber liners on Φ2.7×4m ball mills
- 5.Dazhong Mining, Inner Mongolia, China Rubber liners on Φ2.7×3.6m grate ball mills
- 6. Xinjiang Jinmai Int'l Logistics Co. (Tajikistan Mining) F.E. and D.E. rubber liners on Φ3.6×4.5m ball mills F.E. and D.E. rubber liners on Φ3.6×5.3m ball mills Complete set of composite liners on Φ5×2.3m SAG mill
- 7. Fengning Xinyuan Mining, Heibei, China Rubber liners on Φ2.7×3.6m ball mills Rubber liners on Φ3.6×6m ball mills
- 8. Dahongshan Iron Mine, Yunnan, China: F.E. and D.E. rubber liners on Ø8.5 x 4m SAG mill



D.E.rubber liners on Φ10.37×5.19m SAG mill



F.E. composite liners on Φ10.37×5.19m SAG mill



F.E. rubber liners on Φ7.32 x 10.68m Ball mill



F.E. rubber liners on Φ8.5 x 4m SAG mill



D.E. rubber grates on Φ3.2 x4.5m ball mill

Part III Spares for Mills—Rubber Trommel Screen

Usage

Trommel screens have been getting popular around the world nowadays as classification equipment, associated with the features of simple structure, easy installation, reliable operation, and high efficiency. They are broadly applied at the discharge ends of AG mills, SAG mills and ball mills for classification of material. They are a success in mineral processing plants in non-ferrous metals mines.

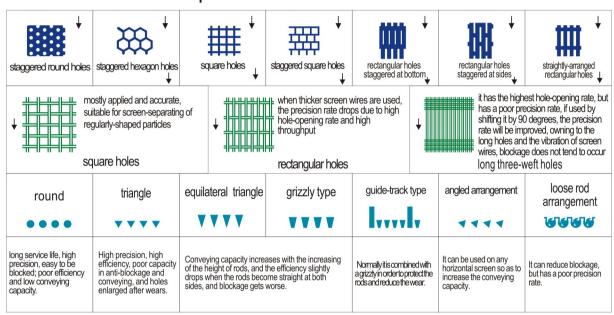


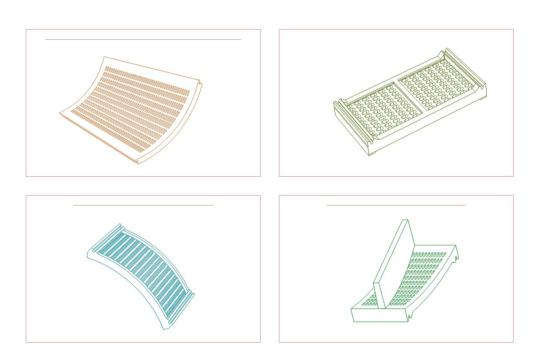
Features

Trommel screens manufactured by Naipu have combined characteristics of those trommels around the world with the technology uniquely developed by the Company, resulting in a product with features such as:

- 1. high screening efficiency, less blockage;
- 2. simple structure, less space demanded, easy installation and maintenance, no designated driver or power source needed.

shapes of holes in various sieves





Structure of Screen Panel

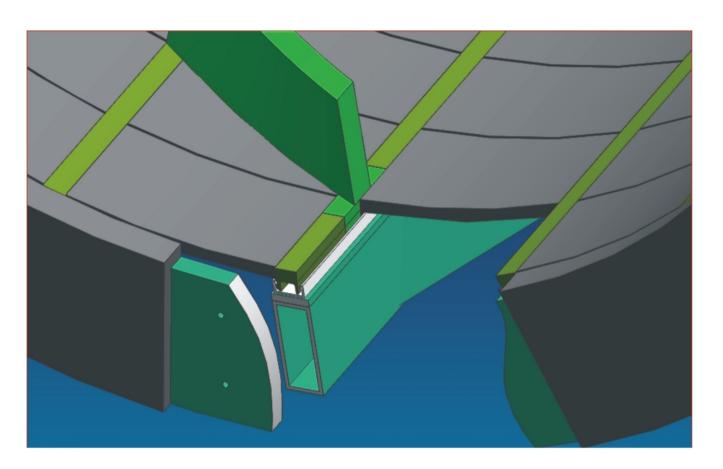


Illustration of Screen Panel Installation

- 3. Trommel screen panels and bafflers are made of high abrasion resistant rubber or polyurethane. Different apertures and shapes can be made on the panels according to clients' requirements. Materials and designs are optional per customer's requirements, with their service life lasts one year or two.
- 4. Screen panels are inlaid. No bolts are used, making the installation and disassembling easy and reliable. Frame bars are stainless steel made, requiring no replacement for a long time. It is a structure with the least frequency of screen panel replacement around the world at present.
- 5. Low maintenance cost.

A Quick Reference List

Model of Grinder	Specification of Trommel	Client
Ø7.9 x13.6m ball mill	Ø 3500x3605 мм	SINO Iron, WA, Australia
Ø7.32 x10.68m ball mill	Ø 3000x3940 мм	Dashan Concentrator, JCC, China
Ø5.5 x 8.8m ball mill	Ø 3000x3605 мм	Vargem Grande, Vale, Brazil
Ø7.32 x12.5m ball mill	Ø 2300x3741 мм	TaiSteel, Taiyuan, China
Ø9.15 x 5.03 m SAG mil	Ø 3000x3605 мм	Mt. Wulugetu Mining Co., China Gold Group, China
IØ8.5 x 4.0m SAG mill	Ø 2300x3741 мм	Dongguashan Concentrator, Tongling Copper, China

Form of Structure

Rubber trommel screens consist of metal frames and rubber or polyurethane screen panels.

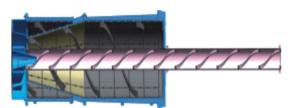
Naipu engineers rubber trommel screens with various structures suitable for ore dressing processing per clients' requirements.



Pre-classifying Reverse Spiral Trommel



Cylindrical Trommel



Double-deck Mass and Size Classifying Trommel



Outer Circulating Conical Trommel

Application Instruction

- 1. Cylindrical trommels and outer circulating conical trommels are mainly used for mass classifying, coarse particle separation and scats removal at mill discharge ends, so as to improve hydrocyclone's classification efficiency and pump's service life.
- 2. A Pre-classifying Reverse Spiral Trommel is used at grate mill or AG mill discharge end for discharge classification so as to control feed size into the mill in the second stage and to meet the metallurgical requirements.
- 3. A Mass and Size Classifying Trommel can both remove scats and control feed size into the mill in the next stage, with middlings returned for regrinding.

Data Sheet for Trommel-attached Mill:

Different operators have different process conditions, operating parameters and targeted figures for mineral processing, so they may require trommels with certain parameters. Naipu is professional and may find an optimal solution to meet a client's process conditions, operating parameters and throughput.

The client is to provide his operating parameters as follows regarding his grinding mill (for details refer to Data Sheet for Trommel-attached Mill.

Data Sheet for Trommel-attached Mill

Name of grinding mill	
RPM	Material passing rate(tph)
Throughput(tph)	Material Bulk Density (t/m³)
Screening sizing(mm)	Ore hardness
Slurry density (%)	Screen service life required by client(month)
Mating Measurements: (Discharge Trunnion, Discharge Cone Assembly)	SECTION A - A