

*MEGA YOUNG SCREENING TECHNOLOGY CO., LTD*



**MEGA YOUNG**

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*DRUM VIBRATING SCREEN*

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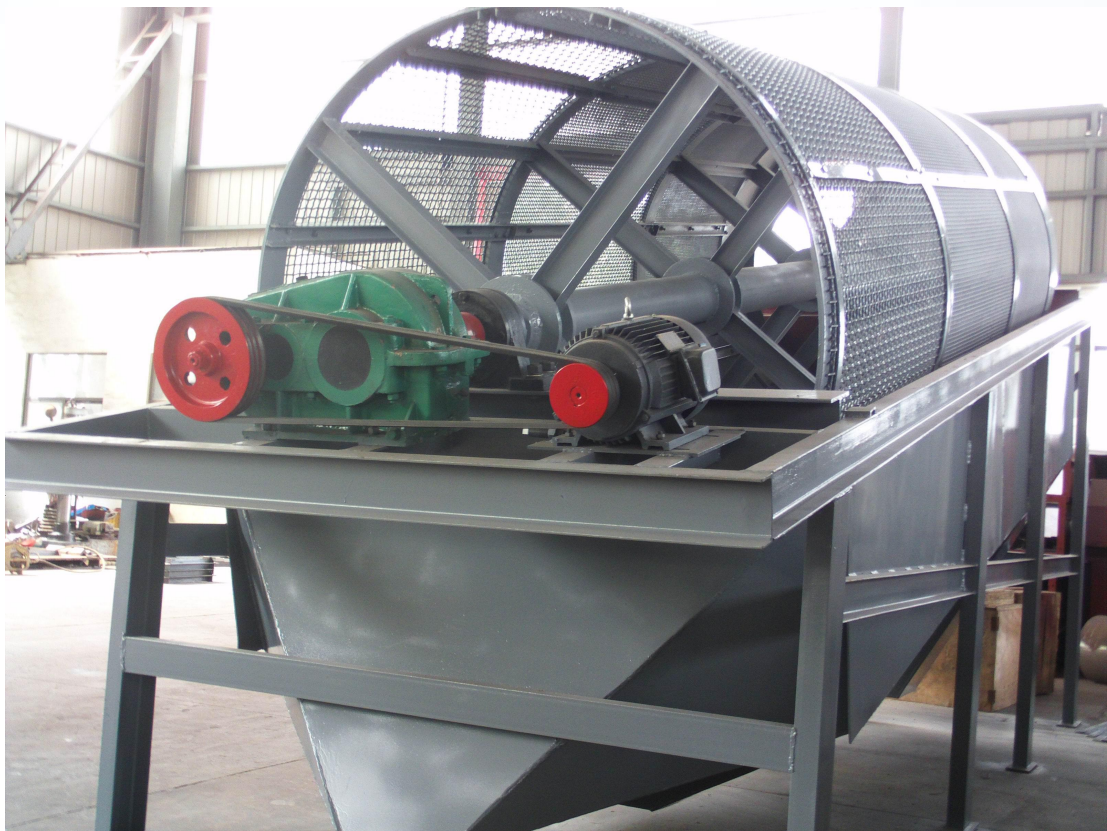
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## *INTRODUCTION*

Drum vibrating sifter is essential units which can apply in the mineral and solid-waste processing industries. It consists of a perforated cylindrical drum which is normally elevated at an angle at the feed end. Physical size separation is achieved as the feed material spirals down the rotating drum, where the undersized material smaller than the screen apertures passes through the screen, while the over-sized material exits at the other end of the drum.

Drum vibrating sifter used to separate materials by sieve size, for example, separating the biodegradable fraction of mixed municipal waste or separating different sizes of mulch or crushed stone. Production rates can vary from 20 to 30 yards an hour to several hundred yards of material an hour based on number of factors described in this article.

It is consisting of five parts as drum, frame, hopper, reducer and motor, which provide a simple, efficient and economical solution to upgrade a wide range of material and optimize the subsequent process steps of recovery. This method of screening helps to reduce operating and investment cost and to increase product quality, while allowing rapid and large volume processing.

### **Self-cleaning device**

There is one screen deck (we call it cleaning deck) with larger screen mesh under the first floor of screen deck, the cleaning deck is divided into many sections by some plates, there are some flexible balls in each section. When the gyratory screen is running, these flexible balls will move along the motion track and they will jump up and down after hitting the plates or the other balls. Then it will clean the first screen deck or break some large size material by its hitting.

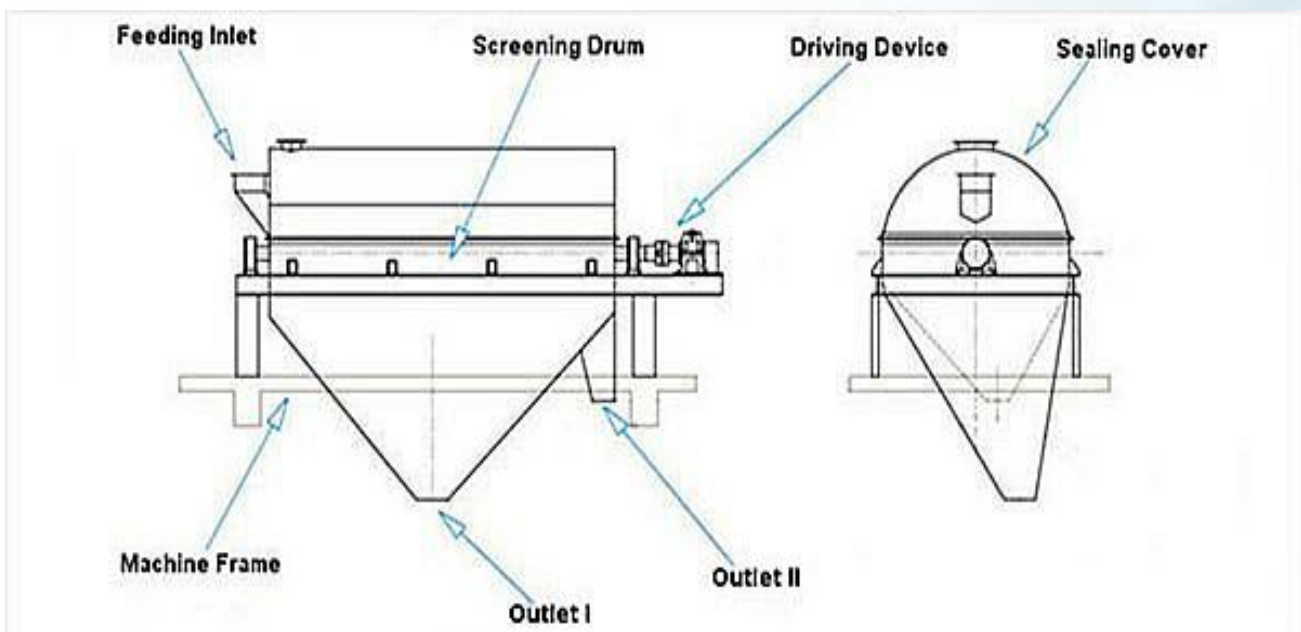


## WORKING PRINCIPLE

Drum vibrating sifter consists of five parts as drum, frame, hopper, reducer and motor. After the material into the drum, on one hand, materials being screened along with the rotation of drum, on the other hand, the bigger materials flow forward along the direction of slope and be separated by the screen with different numbers of meshes. The different materials fall into different hoppers and then are sent to different finished product stacks by manpower or belt conveyor.

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When material flow towards along the inclined rotating drum, materials jump and roll, the undersized material smaller than the screen apertures passes through the screen wire mesh, while the over-sized material passes out at the other end of the drum.



## *FEATURE*

**Steady and smooth operation.**

**Low noise and low energy consumption.**

**Simple structure with easy maintenance.**

**Low dust pollution.**

**Long life span.**

**Suitable to separate various materials especially poor quality of coal and coal slime.**

**Equipment is fully sealed with cover in order to minimize the suspension of fine materials in the air during the operation.**

**High screening efficiency due to installation of comb shape screen structure.**

**Cylindrical shape of the screen provides larger surface area for the materials to in contact with. Able to handle large capacity of materials with high efficiency.**

**Trommel screen sifter can be sealed designed, no dust pollution  
Special screen mesh design, high screening efficiency, longer service life, less blockage**

*PARAMETER*

Model	Capacity	Power	Screen Diameter	Screen Length	Discharge Size	Input Size	Dimension (L×W×H)	Weight
	(t/h)	(kw)	(mm)	(mm)	(mm)	(mm)	(mm)	(kg)
GTS1015	50	3.0	1000	1500	0~100	≤300	2600×1400×1700	2200
GTS1020	100	4.0	1000	2000			3390×1400×2140	2800
GTS1225	160	5.5	1200	2500			4146×1600×2680	4200
GTS1530	250	7.5	1500	3000			4460×1900×2820	5100
GTS1545	350	11	1500	4500		≤400	5960×1900×3080	6000
GTS1848	450	15	1800	4800			6500×2350×4000	7500
GTS2055	600	22	2000	5500			7500×2550×4800	9600
GTS2265	800	30	2200	6500			8500×2750×5000	12800



## APPLICATION

Drum vibrating screen is widely used in classifying the solid materials in coal, mining, electric power, light industry and other industries, screening the wet materials in metallurgy, construction industry and chemical industry, too.

for example, separating the biodegradable fraction of mixed municipal waste or separating different sizes of mulch or crushed stone. Production rates can be vary from 20 to 30 yards an hour to several hundred yards of material an hour based on number of factors described.

