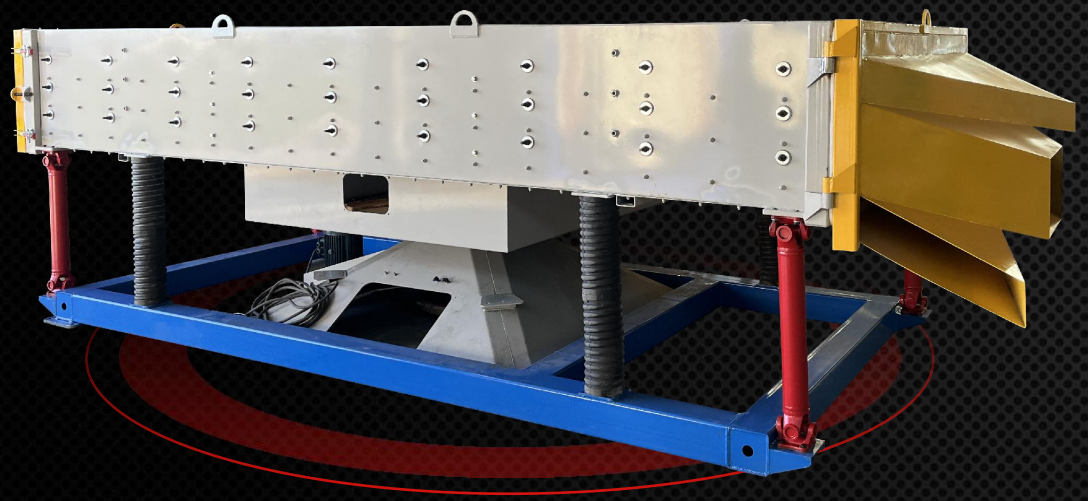
SYT | Expert in Powder Processing Solutions for 30 Years

Fully Balanced Square Gyratroy Screen

The inclination angle of the screen can be freely adjusted according to material characteristics.



The Fully Balanced Square gyratroy Screen is our company's newly designed high-efficiency screening equipment. Incorporating a unique "Fully Balanced Dynamic Design", it operates with exceptional stability, significantly reducing impact on the supporting structure. Its core advantage lies in the adjustable inclination angle, allowing operators to flexibly modify the screen deck's tilt according to material properties e.g., particle size, screening accuracy, discharge rate . This enables versatile solutions spanning from rapid coarse-particle separation to high-precision fine-powder classification.



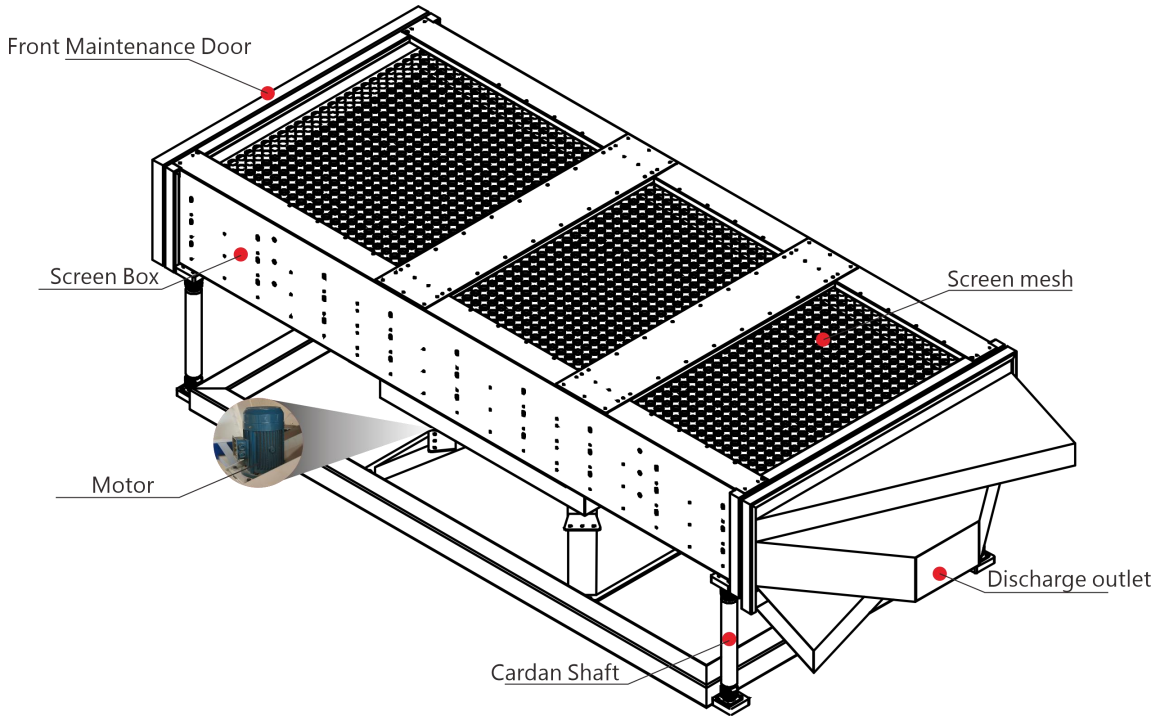




WORKING PRINCIPLE

The Fully Balanced Square Gyratroy Screen utilizes a compound motion drive mechanism to generate uniform material dispersion across the screening surface. Its high-amplitude gyratory motion continuously redirects material flow, effectively preventing particle blinding (mesh clogging). Powered by synchronized motors driving precision counterweights, the system creates centrifugal force balanced by reverse inertial forces, achieving intrinsic self-stabilization of the frame.

STRUCTURES



Screen Deck

Positioned within the screen box, it classifies materials by particle size. Mesh count (i.e. aperture size) is selectable per screening requirements.

Screen Box

The structural mainframe housing the screen deck, enabling material screening through vibration.

Cardan Shaft

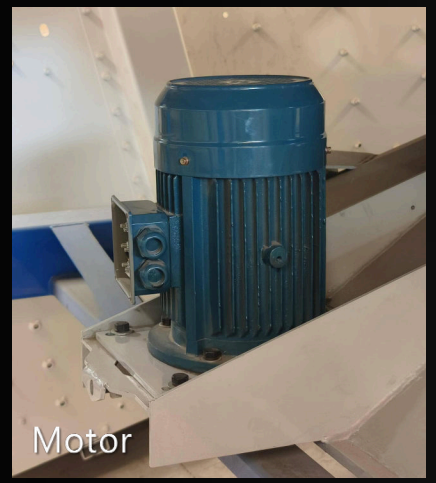
Provides flexible linkage between screen box and base frame, ensuring stable power transmission while absorbing vibrations to protect upstream drives—serving as a critical torque-transferring and motion-damping junction.

Drive Motor

Primary power source featuring a fully copper-wound three-phase asynchronous motor, delivering high efficiency and smooth operation.

Discharge Chute

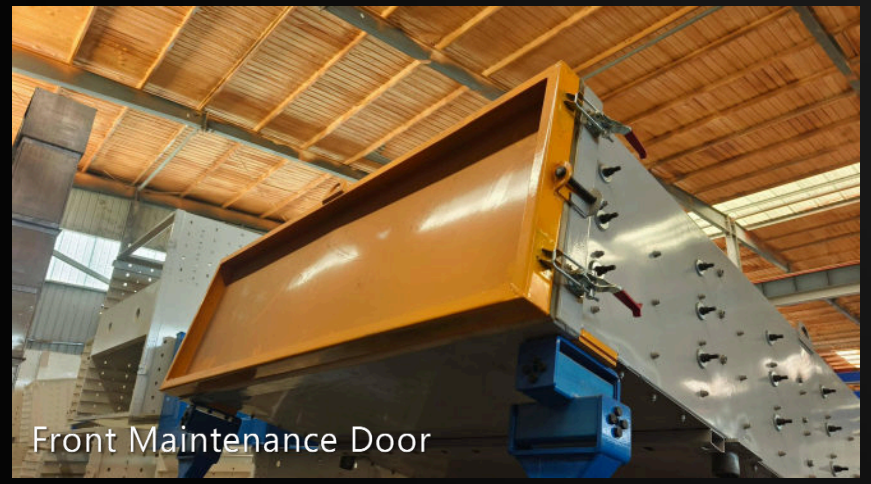
Custom-configured geometries available per client specifications.

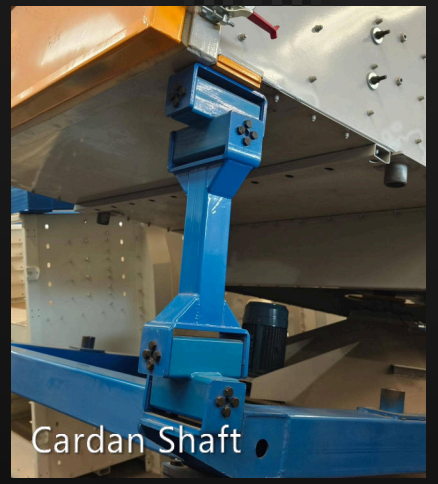

Motor


Discharge outlet


Screen mesh

DETAILS SHOW


Front Maintenance Door


Cardan Shaft

The sieve body is constructed from premium-grade materials, with surfaces typically receiving meticulous treatment to achieve smoothness and durability. During operation, the screening machine employs a unique gyratory motion that ensures uniform material distribution across the sieve surface and enables highly efficient screening. The overall design seamlessly combines functionality with contemporary aesthetics.

FEATURES

Adjustable Amplitude

Screen inclination angle can be tuned to boost screening efficiency by 30%+ while eliminating blinding (mesh clogging issues).

01

Modular Scalability

Customizable deck layers (1-5 tiers) adapt to throughput (0.5-50 T/H) and accuracy requirements (95-99.9%). Operators can freely adjust inclination 0°-90° for process optimization.

02

Dynamic Self-Balancing

The circular base plate with square-tube supports ensures vibration-stable operation even at vertical installations (90° inclination), maintaining <0.3g vibration acceleration under full load.

03

MODEL AND SPECIFICATIONS

Model	Screen size	Screening area	Screen inclination	Layers	Power	Number of turns
SYT2045	2.0*4.5 m	8 m^2	0–90	Customizable	4kw	220

Customized sizes are available upon request

APPLICATION

Building materials industry:

Mechanized sand, natural sand, quartz sand, perlite, dolomite, calcite, feldspar and more.

Wood Processing Industry:

Wood chips, wood chunks, wood fiber, wood pellets, palm fiber, bamboo shavings, coconut fiber, charcoal briquettes, wood chips, lumber, sawdust/shavings.

Other industries:

sieve granular materials with a pore size of 0.5~30mm, and the loose density of the material is better than 0.8.





















Product display

SYT | Expert in Powder Processing Solutions for 30 Years

THE SERVICES WE CAN PROVIDE

Sanyuantang Machine Co., Ltd. has been engaged in foreign trade export for more than 10 years. Its rich export experience ensures that you have worry-free purchasing.

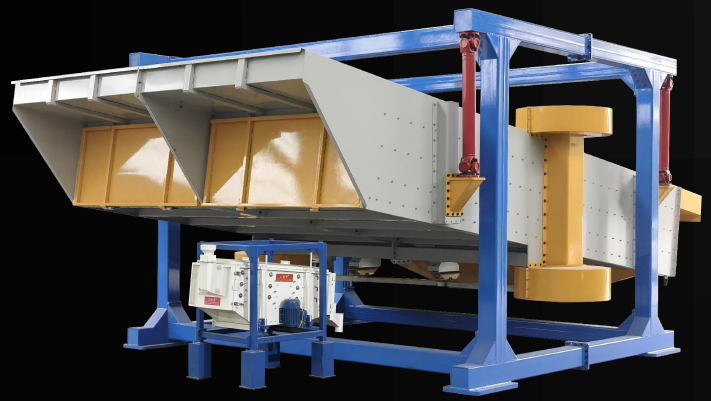
When you cooperate with us, you can enjoy:

① Timely response through various communication tools.

② Professional technical guidance to choose the most suitable product for you.

③ Economical transportation scheme to cut down transportation cost.

④ Thoughful after-sales tracking service from the installation to the daily maintanence.







Xinxiang Sanyuantang Machine Co., Ltd.

website:www.sanyuantangcn.com / www.vibrationsieve.com

Add:No.811, Qingnian Road, Qiliying Town,Xinxiang County, Henan Province China.

Email:info@sanyuantang.com

Whatsapp/ Wechat: 0086 18639095165