



## MHG SIDE ACCESS DOOR GYRATORY SCREENER



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Company Introduction:



Along with the amount of gyrotory screener machinery applied in our customers' industry application increasing, and in order to service our customer better, Mega Young Screening Technology Co.,Ltd is specialized in designing, studying and developing M&Y gyrotory screener.

We start the manufacturing and designing the gyrotory screener from reception of our company, our gyrotory screening equipment has been used in mineral industry application, chemical industry application, agriculture industry application, food industry and medicine industry etc successfully after many years. Refer to customers' feedback and situation happened about our gyrotory screener at application site, we summarize and study the feedback information and research new solution continuously, then we get one professional technical team with plenty of experience about our gyrotory screener. We are willing to share our studying achievement and supply you more and more screening solution and gyrotory screener with proven technology.



CE certificate



Business License

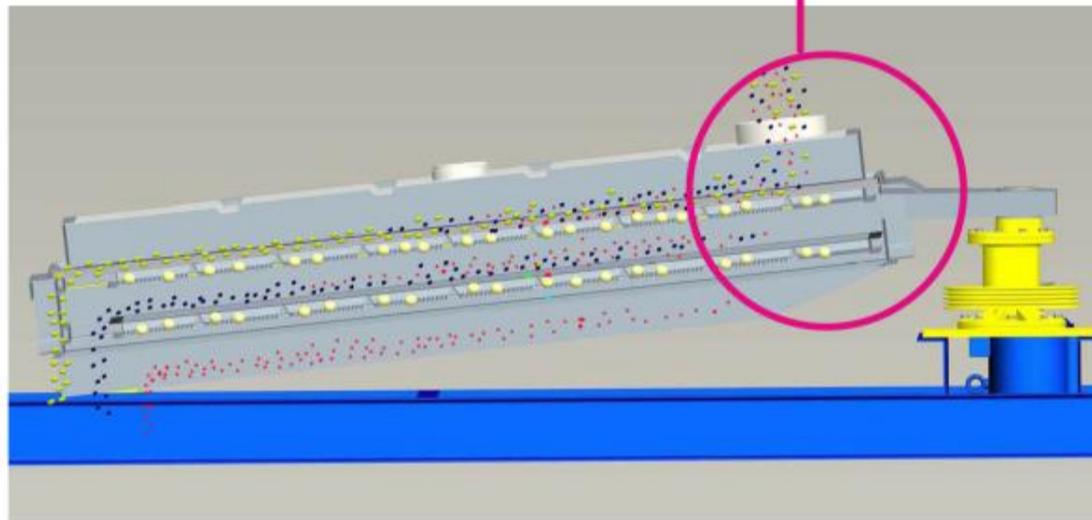
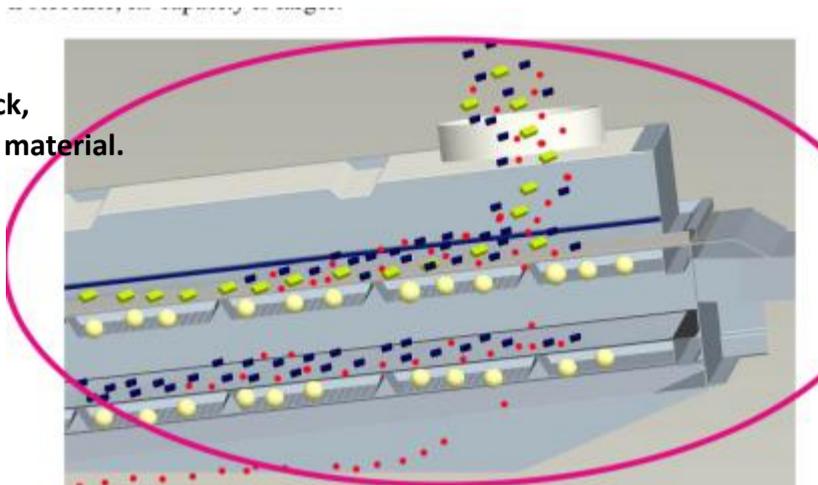


### Working Principle

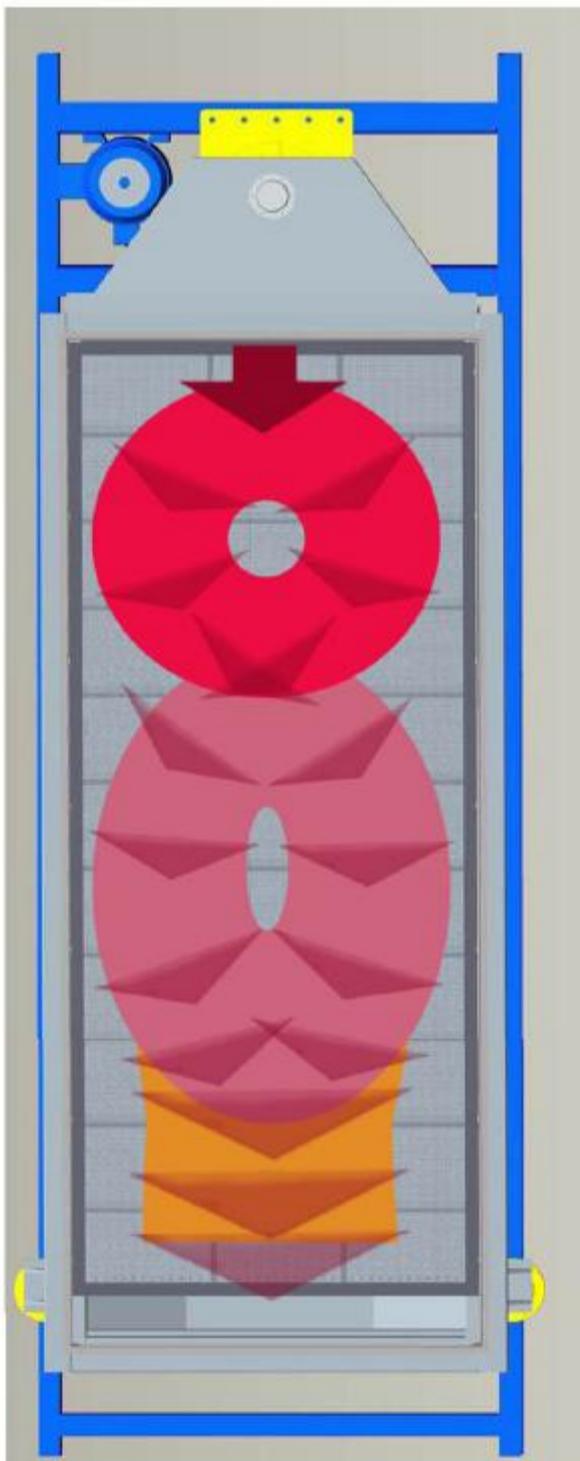
M series Gyratory Screener is one kind precision screening equipment, it could screen particle shape material, powder material and irregularly shape material. Compare with other heavy duty screener, its screening precision is higher , compare with other precision screening equipment, its capacity is larger. So our M serial Gyratory screener could meet the specific on large capacity and high screening precision.

The pictures show how the gyratory screener work with two layer mesh deck, The screener could separate the material into three size specification scope material. Our M series gyratory screener could be with 1-5 layer mesh deck.

Remark: Because the Screener deck with low slop angle ,so the projection size of the screener mesh aperture to ground is similar with the fact screen mesh aperture size, so the screened material could meet customer's request more.



### Material flow motion path



When material fall into the inlet of the M series gyratory screener, the baffle and distributor will distribute the material materials first,the material movement is the reciprocating gyratory motion

Stage 1 When the material fall onto the gyratory screener deck, the material will disperse soon until the material bed will cover screen mesh along the screen width.

Stage 2 The material bed thickness is suitable for screening after first stage material distribution, and the material movement path become the elliptical from circle, the most material screening work will be done in this stage.

Stage 3 After first two stage screening, the material screening work almost finished in this stage, the material movement path become linear from elliptical, the movement path distance will be short and the material will flow out from the outlet soon

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## MH Gyrotory Screener Installation Method



MHG series gyrotory screens is similar with M serial gyrotory screen such as the screening principle, screening efficiency and application, just except the screen deck structure.

In some customer application technical process, the customer need always renew the screens mesh, if the renew time for screening mesh is too long, or it is very difficult for replacing the screen mesh, it will take too much time for stopping the equipment work if replacing mesh for several times, so it will affect the production output at last, the MHG series gyrotory screens is for solving above problem, and the MHG gyrotory screen has following features:



MHG Gyrotory Screen waiting for delivery in workshop



MHG Gyrotory Screen at Sugar Screening site



### Screener Deck



The side door gyrotory screener deck is one combination structure that consist of screener mesh , self-cleaning ball and support deck frame. The screener mesh be fixed on screener ball tray directly.

### Mesh changing



### The mesh fasten method

**The mesh sheet is one independent one parts, it put on the ball tray**

So the customer is easy to divide the mesh sheet and the ball tray, it save the mesh changing time

### Replaceable Seal



### Replaceable seal of the screener deck

The seal structure is one key factor for guaranteeing the screening precision, The MH model gyrotory screener adopt replaceable model seal, it is easy to replace the seal when the seal worn-out

And the seal is endless model after glue, so it avoid the different layer material mix together

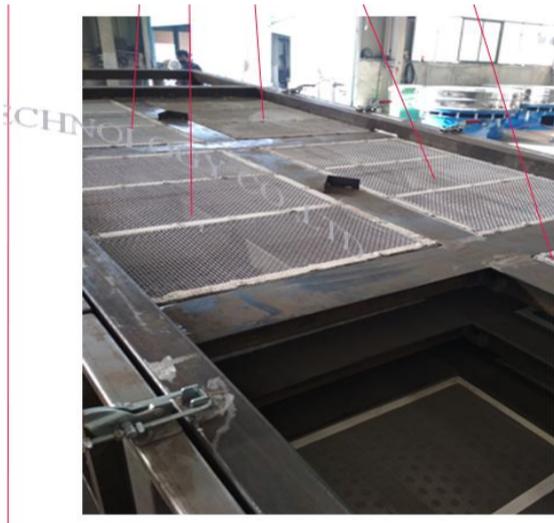


**Clamp for side access door**



This model clamp is one standard parts, the customer could open and close the side cover in short time

The fast clamp for top cover is adjustable, and it is easy to open and fasten

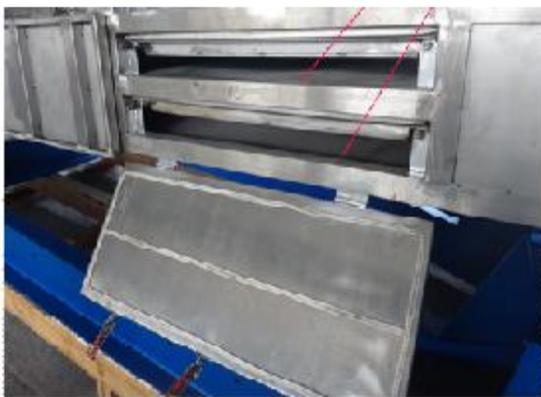


**Inside mesh sheet**

Each layer screen deck is consist of 2-8 single small plate, each screen sheet weight is within 10kgs, it is very safe for operating.

One layer-one screen mesh composed of many independent small screens plate, each weight and area of the small screens plate is half to 1/8 of the original whole screener plate .

So MHG gyratory Screens mesh changing work is very safe.



**Relation between above deck and below deck**

Above screener deck is not put on the below screener deck, so if changing the below mesh deck, do not need to move above mesh deck That means the customer could change any layer deck that they need



## How to do the mesh sheet changing easily



### 1. Open the side access door

This step is easy, just open the clamp then open side access door



### 2. Pull out mesh sheet and ball tray

Release the fasten device of the ball tray, then pull out 1/2 to 1/3 width of the ball tray, do not need the whole ball tray and mesh structure out the screener box, the other 2/3 of the mesh deck+ ball tray still in the screener box



### 3. Pull out the whole mesh sheet

Please pull out the whole mesh sheet structure out from the screener box, and do not need move the below ball tray



### 4. Put one new mesh sheet on the ball tray

Put one new mesh sheet on the ball tray and push the ball tray and mesh back into the screener box, then fasten the ball tray and close the side access door as one drawer, the mesh changing work finished

For above 4 steps, we will understand why our MHG side access doors gyratory screening equipment is easy for mesh maintenance, one mesh sheet only several KGS, and do not need lift the heavy ball tray during the whole process, one person could finish one mesh sheet changing within 1 mins, and much safe to the worker.



## The details advantage of MHG side access gyratory screener

### Side Door Access Gyratory Screens:

1. Compare with the traditional gyratory screen structure, the opening way of Side Door Access Gyratory Screens mesh is changed from the top of the screener into both sides of the screen equipment.
2. The form of the MHG gyratory screen deck is also changed from traditional one layer-one screen mesh into each layer of screens deck is composed of many independent small screens plate, each weight and area of the small screens plate is half and 1/8 of the original whole screener plate .
3. When the MHG gyratory screens mesh of the bottom needs to be changed, it is no necessary that remove the top screen deck and cover than before, which improves the working efficiency than traditional gyratory screens.
4. For the MHG gyratory screen, it is no necessary to change the whole layer screen mesh when one little screens deck broken. Just change sigle small screener plate, which improves the working efficiency than traditional gyratory screens.
5. For traditional gyratory screens, the exchange process of screen mesh very complicated, which waste the production time and lower the working effieency. Side door access gyratory screens mesh changed very quickly, the time just take less 10 mins.

### Side door access gyratory screens features: :

1. MHG gyratory Screens mesh changing work is very safe. Each layer screen deck is consist of 2-8 single small plate, each screen plate weight is within 20kgs, it is very safe for operating.
2. The weight and area of each little screen deck panel is 1/2 and 1/8 of one whole layer screen plate, which no longer use hoisting equipment, changed much more easier than traditional gyratory screens.
3. Single samll screen plate is 1/2 width of original whole gyratory screen deck, which save the equipment installation space.
4. Comparing with other precision screening equipment, the capacity of side door access gyratory screen is much bigger.
5. Installation and operation both are conveniently.
6. The advantages of small area, light weight, can be access from the side door, single screen layers and decks, can meet the request on time and space for stick material, abrasive material, and other application enviornments need to be changed screen frequently.



As the most popular gyratory screening equipment, The industry application of M series gyratory screener include chemical industry, agriculture industry, food, medicine, mineral, plastic and recycling industry etc, its high screening efficiency and stable function has been proved by hundreds practical application, together with the MPG series gyratory screener for easy changing mesh and MPB series gyratory screener for large capacity as supplement, so the application scope of our supplied gyratory screener will be larger, and could meet some special request on screening.

1. Fertilizer: Urea,NPK,Prilled Urea, Granulated urea, DAP, MPA, Organic Fertilizer, Potassium Carbonate,
2. Recycling: Glass, glass particle,waste glass, glass chips, waste bottle, glass beads, rubber, waste rubber, ground rubber, waste rubber powder, waste rubber chip, rubber pellets, rubber particles, waste tire, waste tire chips,waste plastic bottle, waste building sand, reclaimed gypsum, Renewable plaster, Plastic debris, plastic chips.
3. Plastic:Polyethylene, PVC, PVC pellet, plastic pellet, Resin, Epoxy, Polycarbonate,Melamine formaldehyde resin, Engineering Plastics,Polyethylene oxide, Polyethylene oxide pellets, PVA pellets, PVA powder, ABS, Nylon, Nylon powder, Nylon pellet
4. Grain: rice ,wheat , corn, soybean, mung, barley, rice bran, wheat bran, sunflower seeds, albumen powder, rice flour, wheat flour, corn meal, corn flour, corn grit, Cracked corn,oatmeal,rice husk, bean curd, soybean powder, soybean meal, bean dregs, bean flour
5. Animal Feed: Animal Feed, Forage, feedstuff, raw feed, feed pellets, soya-bean cake



Chemical Material



Mineral/sand



Plastic



Recycling



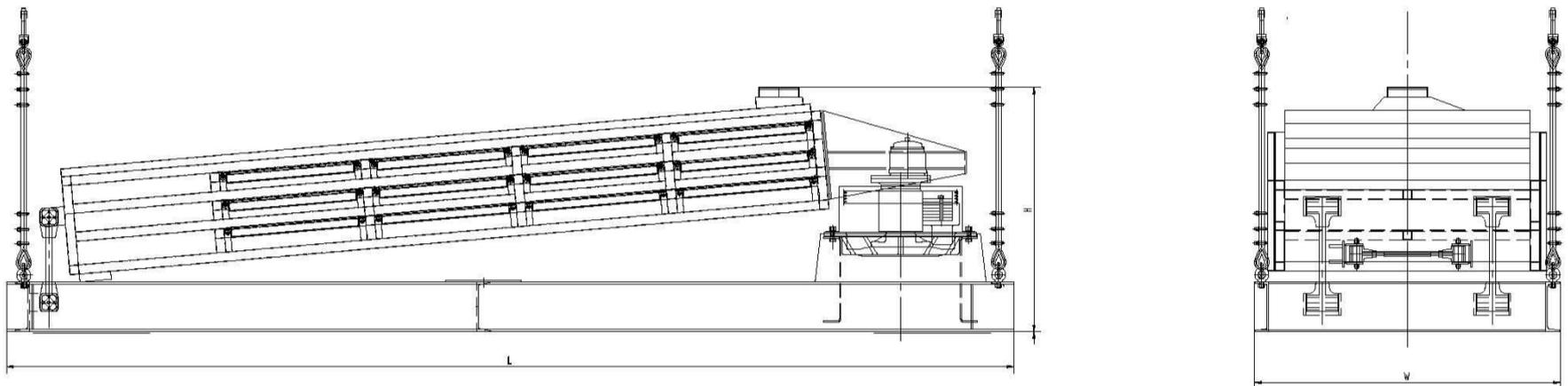
Grain



Food



## Dimension and Parameter



MHG Gyrotory Screen Parameter									
Layer No.	Model	Requency	Storke	Mesh Area	Power	Outline (mm)			Equipment weight
		r/min	mm	M <sup>2</sup>	kW	(L)	(W)	(H)	kg
1	MHG-B20	220-260	60	2	2.2	4120	1870	2100	2463
	MHG-C24	220-260	60	2.88	3	4614	2080	2100	2958
	MHG-D30R	200-220	80	4.5	4	5530	2370	2200	3316
	MHG-E42	180-200	88	7.56	6.112	5612	2690	2200	4053
	MHG-F48	180-200	88	9.6	5.5	7198	2940	2300	4335
2	MHG-TB20	220-260	60	2	3	4120	1880	2100	2610
	MHG-TC24	220-260	60	2.88	4	4614	2080	2100	3177
	MHG-TD30R	200-220	80	4.5	4	5530	2370	2200	3494
	MHG-TE42	180-200	88	7.56	5.5	6112	2690	2200	4413
	MHG-TF48	180-200	88	9.6	7.5	6998	2940	2300	4756
3	MHG-SC24	200-220	80	2.88	4	4614	2080	2200	3395
	MHG-SD30R	180-200	88	4.5	5.5	5530	2370	2200	3872
	MHG-SE42	180-200	88	7.56	7.5	6112	2690	2200	4786
	MHG-SF48	180-200	88	9.6	11	7198	2940	2300	5337