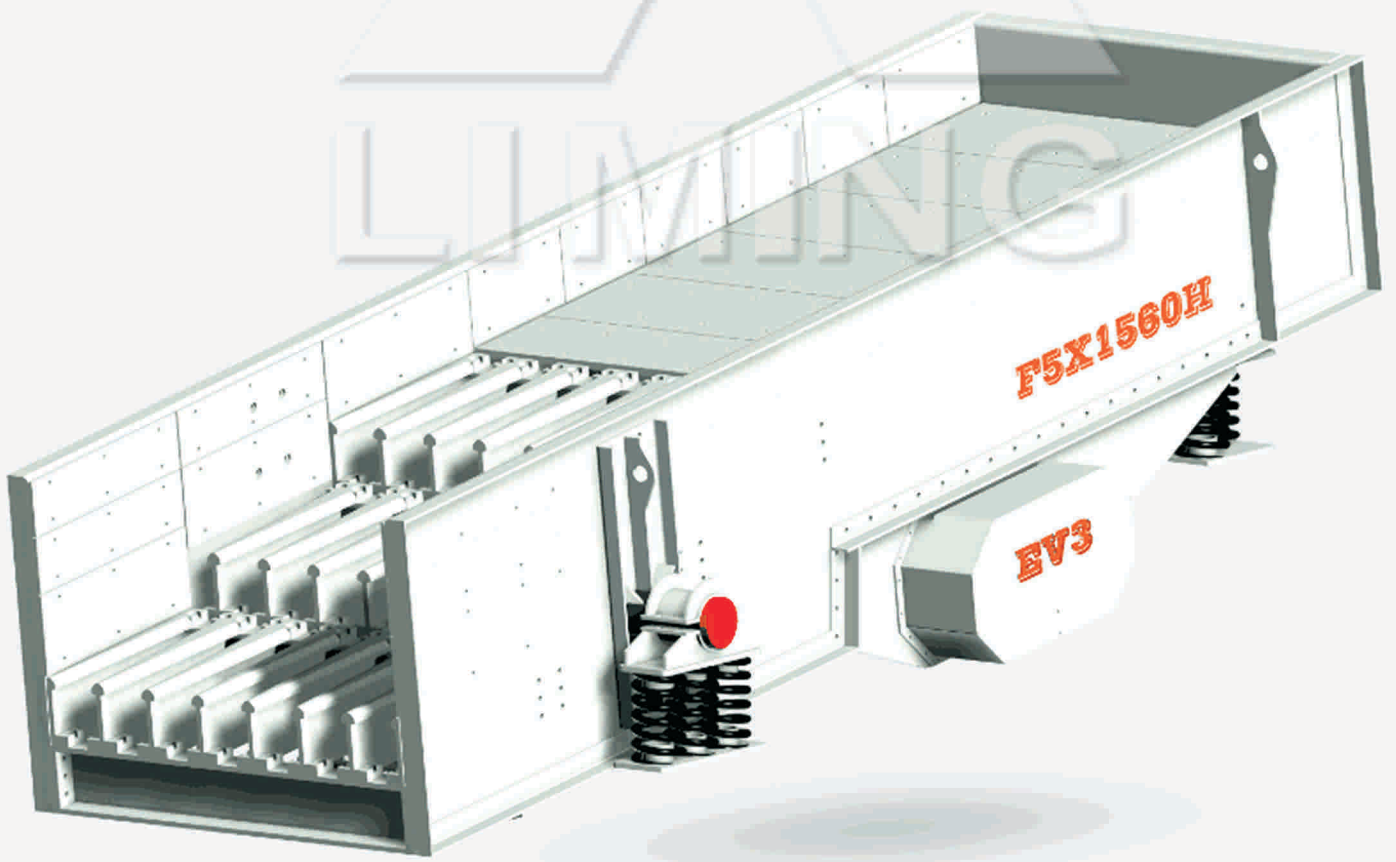




# F5X SERIES VIBRATING FEEDER

TOP 1 BRAND OF CHINA'S CRUSHING  
AND GRINDING INDUSTRY



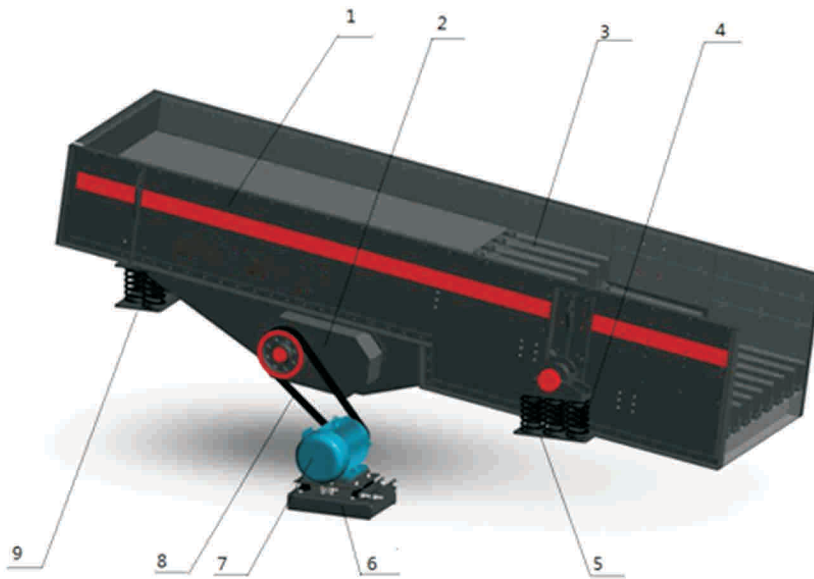


## Product Presentation

According to the rich experiences of research, development, sales and service, F5X Series Vibrating Feeder was designed for feeding and screening. In the crushing and screening plant, the equipment is used to transfer the materials from hopper to receiving device evenly, periodically and continuously, and it can be used in the field of metallurgy, coal mine, construction, grinding materials, chemical industry, etc.

## Purpose and Application Scope

1. F5X Series Vibrating Feeder is used in metallurgy, coal mine, construction, grinding materials, chemical industry, etc.
2. F5X Series Vibrating Feeder should be used in the surroundings whose temperature ranging from  $-40^{\circ}\text{C}$  to  $40^{\circ}\text{C}$  and relative humidity higher than 85%.



1. Feeding Tank      2. Exciter      3. Grid Bar      4. Spring  
5. Bottom Seat of Front Spring      6. Motor Base      7. Motor      8. V-Belt  
9. Bottom Seat of Back Spring

## The working principle of **F5X Series Vibrating Feeder**

F5X Series Vibrating Feeder's dual eccentric shaft exciter generates excitation force. A gear pair-connects the two eccentric shafts, enables the shafts rotate to opposite direction with same speed. Through motor driving, the excitation force generated constantly, the material slides and bounces ahead to crusher on the feeder groove. When material go through the feeder's grid bars, the smaller material will fall down through the gap between grid bars and be sent to next crushing process. It enables the feeder to pre-screen material and fully ensures the crushing plant's high crushing efficiency and capability.

## Performance Advantages

### 1.Strong vibration intensity.

Adopting advanced idea and technics, F5X Series Vibrating Feeder takes advantages of stronger vibration intensity, larger capacity and higher screening efficiency. The capacity of F5X Series Vibrating Feeder is 1.5 times larger than traditional vibrating feeder.

### 2.Simple adjustment.

There is a pin structure in the spring support realizing adjustment from 0° to 15° which can satisfy the requirements of feeding and screening about different materials. Besides, there are malposed springs providing support at the inlet in order to adjust silo pressure by changing numbers of springs.

### 3.Amplitude is adjustable.

F5X Series Vibrating Feeder is equipped with a full range of EV Series Vibration Exciter. There are 5 kinds of vibration exciter from EV1-EV5 can be chose to change the vibration force by adjusting numbers of weights.

### 4.Isolate structure.

There are two lubrication systems with little influence on any of them making the maintenance time reduced and overhaul easier. Besides, the fuel consumption of EV Series Vibration Exciter can be saved a quarter of the traditional vibrating feeder's.

### 5.More reliable performance.

EV Series Vibration Exciter adopts quality bearing and its vibration intensity has reached the international standard. In a word, EV Series Vibration Exciter takes advantages of high throughput, high screening efficiency, large capacity, long service life, etc.

## Performance Advantages

### 6.High screening probability.

The bars with grand staircase has a high drop, which make the materials rolling during moving and touching the bars as soon as possible. Besides, interlaced bars increase the contact between materials and bars and the screening probability is increased.

### 7.Long service life.

The bars, whose carrying capacity is much stronger, are made of ZGMn13-4 materials. The cross section of cam can make stratification between large grained and granule, and the friction between materials and bars can be reduced therefore the equipment has longer service life.

### 8.Avoid blocking up the sieve pore.

It is effective to avoid blocking up the sieve pore because of the sieve pore with a shape of comb-finger and bars with high drops.

### 9.Large bearing capacity.

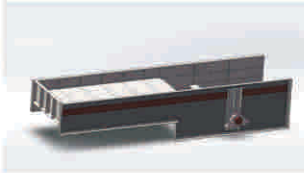
The rectangular framework has firm structure as the support of the inlet,. The problem about non-uniform stress won't result in the cracking of side-panel, because the plant adopts angle steel to firm its side-panel and outer-panel.

### 10.Low noise.

Adopting rubber spring with the structure of tensioning, the equipment eliminates the effects that come from the vibrating of feed box on motor, and it takes advantages of long service life and low noise.



## Structure Features of CI5X Series Impact Crusher



### 1. Feeding tank

Feeding Tank is the equipment used for feeding, which includes frame, beam, side plate, bottom plate and upper seat of spring. The side plate is made of Q245R boiler plates; side back plate and bottom back plate are made of NM360 wear-resisting materials; Other steels are made of Q235B materials.



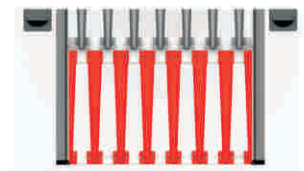
### 2. Vibrator

Vibrator is an important part as the vibration source of vibrating feeder. The gear pairs are set in the two shafts ensuring the synchronous working.



### 3. Motor base

The mounting base of motor and lower supporting mount are made of Q235B steels. Middle rotary shaft adopts stretch pin shaft which makes running stable.



### 4. Grid bar

Two flights of stairs and three flights of stairs made of ZGMn13-4 materials are set for the grid bar. Curved working surface shaped like a cam helps to separate materials with various sizes and reduce the friction between materials and grid bar, so the capacity of conveying and screening is improved by this way. Besides, the grid bar shaped like a comb avoids the problem of blockage.

### 5. Front seat of spring and back seat of spring, spring, noise reduction cushion

There are some springs in the front seat of spring and back seat of spring. Spring is a component connected to the feeding groove. When the springs deform, the groove will move relatively and the vibration is reduced at the same time. Moreover, noise reduction cushions are set on the top and bottom of spring to eliminate



Front seat of spring



Back seat of spring



Spring



Spring cushion



## SPECIFICATIONS

Note: Any change of technical data shall not be advised additionally.

		C6X110	C6X110	C6X110	C6X110	C6X110
Feed opening length(mm)		1100	1250	1450	1600	2000
Feed opening width(mm)		850	950	1100	1200	1500
Power KW(Kw)		160	160	200	250	400
Speed(rpm)		230	220	220	220	200
Dimension (mm)	Discharge opening (mm)	T/h	T/h	T/h	T/h	T/h
0-105	70					
0-120	80	160-240				
0-135	90	180-260				
0-150	100	200-280	240-340			
0-185	125	250-360	280-410	320-470		
0-225	150	300-430	340-480	370-550	420-610	
0-260	175	340-490	370-550	430-630	470-700	620-890
0-300	200	380-550	420-620	480-710	530-790	690-1000
0-340	225		470-690	540-790	590-880	770-1110
0-375	250		520-760	600-870	650-970	850-1200
0-410	275			660-950	700-1060	930-1300
0-450	300				750-1100	1000-1500

In order to enhance your experience of our equipment during the operation, we strongly recommend spare parts originally manufactured by LIMING Heavy Industry. These high quality spare parts are manufactured using advanced metallurgy techniques, precise machining, and perfect compatibility, ensuring the lowest malfunction operation and creating higher value for our customer.

## Crushing Plant



Sine Liner

Spring

Toggle Plate

Guard Liner Plate

Impact Block



Wearproof Plate

Impact Plate

Tension Rod

Feed Eye Ring

Movable Jaw Plate

## Grinding Plant



Ring

Roller

Shovel Base

Shovel

Gland Arove Roller Sleeve



Roller Sleeve

Roller Shaft

Classifier Impeller

Lining Plate

Air Way Guard Plate

## PRODUCT LIST

### Production Line

Stone Crushing Line

Sand Making Line

Industrial Grinding Line

### Grinding Plant

LM Vertical Mill

MTW European Trapezium Mill

LUM Vertical Roller Mill

TGM Trapezium Mill

T130X Superfine Grinding Mill

YGM Series Suspension Mill

HGM Series Micro Powder Mill

Coarse Powder Mill

Raymond Mill

### Crushing Plant

C6X Jaw Crusher

European Type Jaw Crusher

Jaw Crusher

CI5X Impact Crusher

European Type Impact Crusher

Impact Crusher

HPT Hydraulic Cone Crusher

HST Hydraulic Cone Crusher

CS Series Cone Crusher

Spring Cone Crusher

### Sand Making& Screening Plant

VSI6X Vertical Shaft Impact Crusher

VSI5X Vertical Shaft Impact Crusher

VSI Vertical Shaft Impact Crusher

PCL Vertical Shaft Impact Crusher

S5X Series Vibrating Screen

YKN Series Vibrating Screen

Vibrating Screen

F5X Series Vibrating Feeder

TSW Series Vibrating Feeder

Vibrating Feeder

Sand Washing Machine

Belt Conveyer

### Mobile Crushing Plant

K Series Mobile Crushing Plant

Crawler Mobile Crushing Plant

Mobile Primary Jaw Crusher

Mobile Impact Crusher

Secondary Cone Crusher

Combination Mobile Crusher

Mobile VSI Crusher

Mobile Vibrating Screen

# QUALIFICATION

## GOST Certificate



Grinding Plant



Crushing Plant



Mobile Crushing Plant

## CE Certificate



Grinding Plant



Crushing Plant



Sand Making Plant



ISO9001-2008  
Quality Management  
System Certification



Environmental management  
system certificate



**Service** – With me, enjoy your pleasant journey.

Liming has the most experienced team of engineers with professional knowledge and spirit of dedication. To serve the clients more conveniently, they scattered all over the world to work all year round. From the site planning to the drawing design, from the technical training to the installation and debugging, from the whole working line that values millions to the small pinion that looks insignificant, they fully understand the influence factors of actual situation on customer business, and create successful solution to improve the production efficiency and the environmental quality for customer operating agency.

# WORKSHOP



## ENTERPRISE PROFILE



Henan Liming Heavy Industry Science & Technology Co., Ltd. , established in 1987, is the leading enterprise of mining machinery in China.

Liming Heavy Industry is chronically committed to the research and develop of manufacturing of large infrastructure projects, such as construction, energy, transportation, etc. and provides various technical solutions and auxiliary products. "Made in Liming" is highly praised by our cooperative partners from more than 130 countries and regions overseas, such as Russia, Kazakhstan, Azerbaijan, Turkey, Kuwait, South Africa, Egypt, Vietnam, Malaysia, India, Australia, Korea, Canada and the European Union,etc. Liming is deserved to be one of the most excellent enterprises with the most industry customers and the most widely sales level service network.

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