



# TSW SERIES VIBRATING FEEDER

TOP 1 BRAND OF CHINA'S CRUSHING  
AND GRINDING INDUSTRY





## Product Presentation

TSW series vibrating feeder summarizing the design, production, sales and service experience in the mining industry for many years, TSW series vibrating feeder is our company's new efficient feeder which combines with the development of modern industrial technology, extensively absorbs foreign advanced technology and independent research and development and design.

## Product Purpose and Scope of Application

### Product Purpose

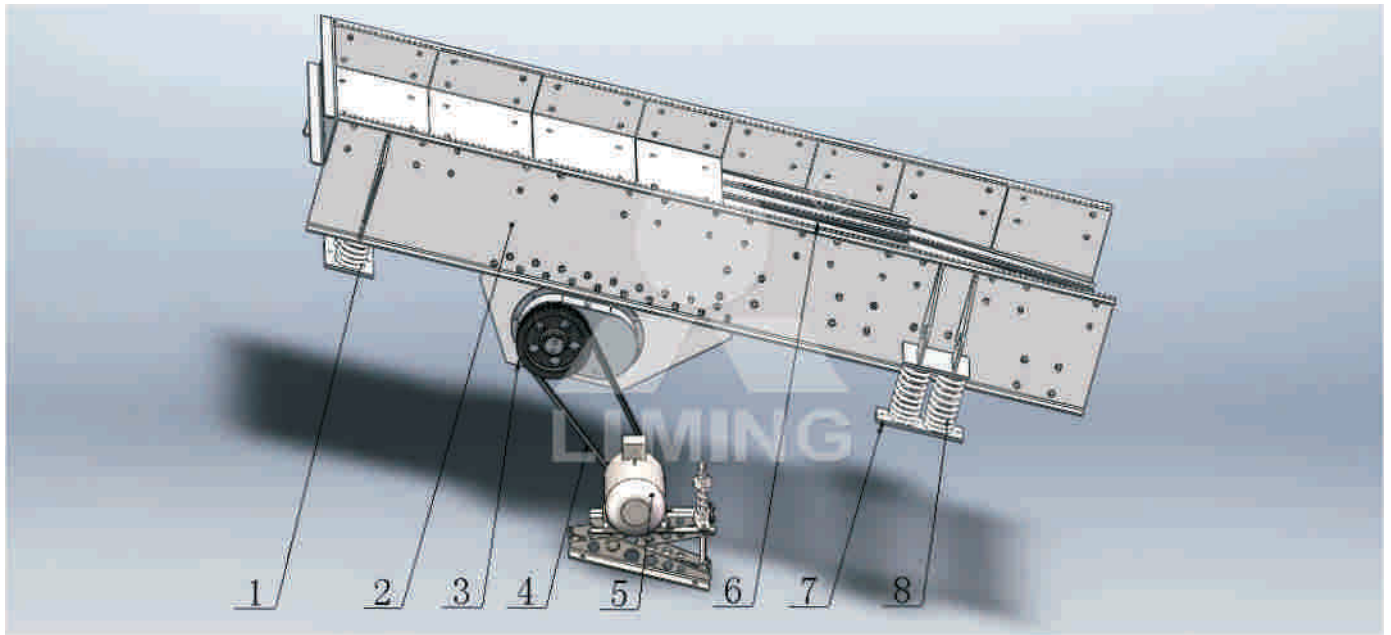
TSW series vibrating feeder is widely used in crushing and screening devices in the industries of metallurgy, coal mining, ore dressing, building materials, chemical and abrasive. It will continuously, regularly and uniformly send the massive and granular materials from storage warehouse to the material-processing device. In the crushing line, it will feed continuously and uniformly for the crushing equipment and do pre-screening for the material.

### Scope of Application

1. The altitude should be not more than 1000 meters;
2. The environment temperature should be not more than +40°C;
3. When the environment temperature is between -35°C ~ 40°C, the surrounding medium relative humidity should be more than 85%;
4. There should be no explosive medium around;
5. There should be no medium that has serious corrosion or medium that affects electrical insulating around.

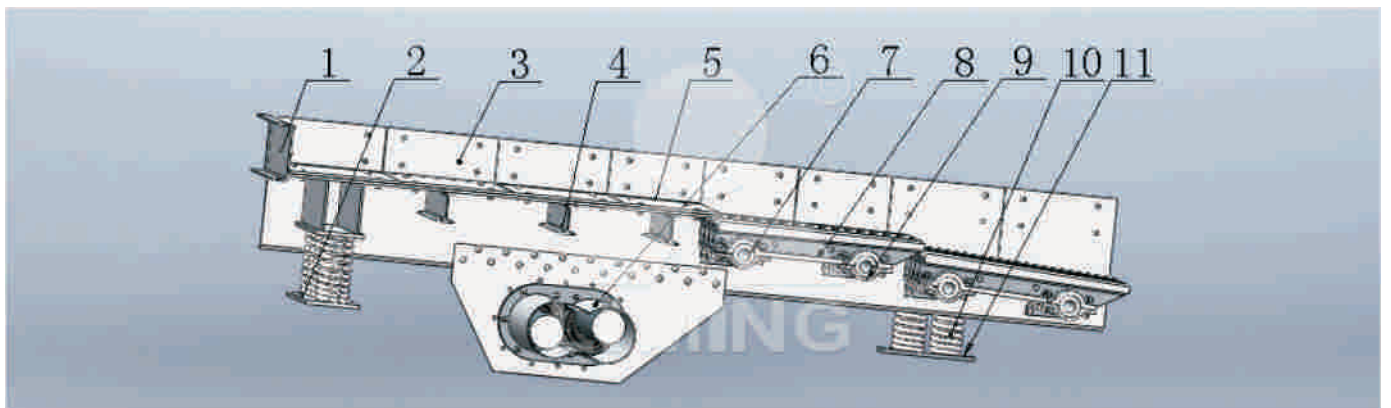
## Product Structure

The TSW series vibrating feeder is mainly composed by the feeding tank, vibrator, grid bar, support frame of the bar, press plate of the bar, the front / back bottom seat of the spring, spring, motor, and v-belt. And the vibrator connects with the feeding groove by the high-strength bolts on 2 pieces of connection plates.



Picture 1: The assembly diagram of TSW series vibrating feeder

1. back bottom seat of spring   2. feeding tank   3. vibrator   4. v-belt   5. motor   6. grid bar  
7. front bottom seat of spring   8. spring



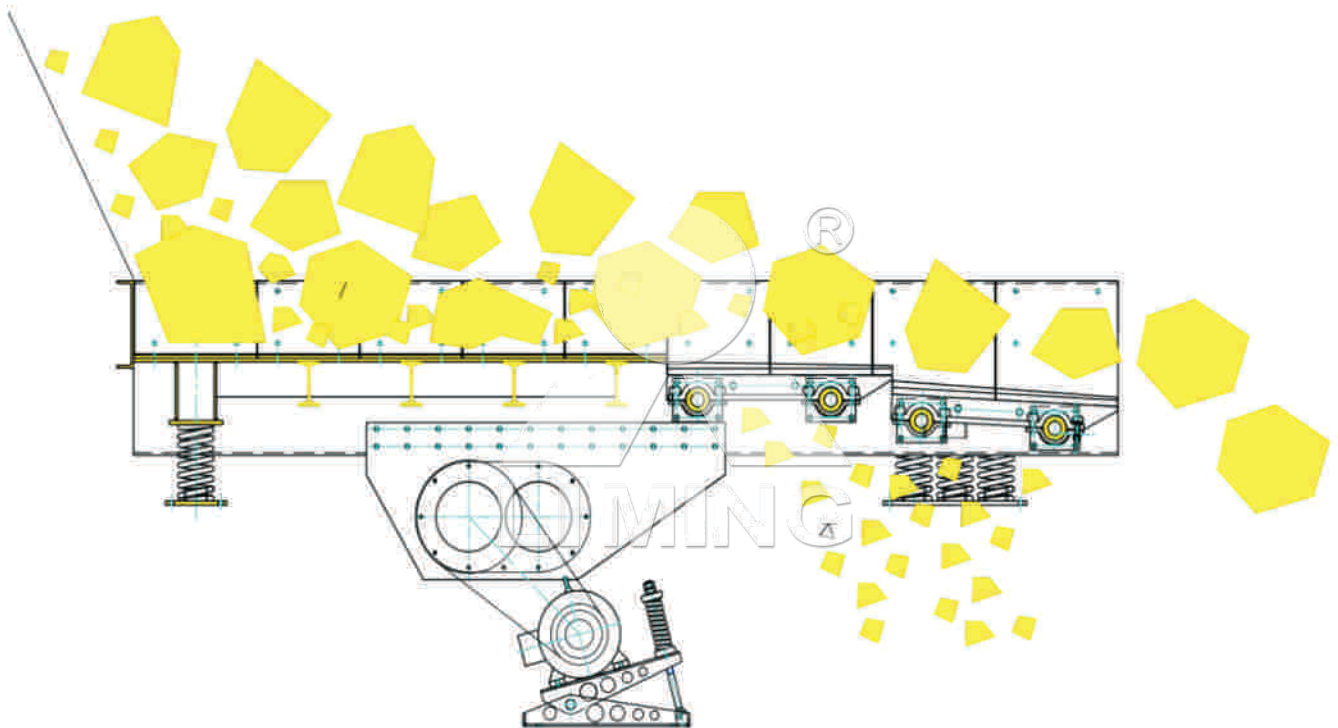
Picture 2: The section view of TSW series vibrating feeder

1. blocking plate   2. back bottom seat of spring   3. side guard plate   4. hot-rolled I-beam   5. bottom guard plate  
6. vibrator   7. support frame of bar   8. grid bar   9. press plate of bar   10. spring   11. front bottom seat of spring

## Working principle

TSW 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.

Material flow's direction →



Picture 3: Working principle diagram



## **SUPERIOR PERFORMANCE**

### **1. Big feeding ability, high efficiency**

The TSW series vibrating feeder all adopts the 4-pole motor which can enhance the rotary speed of the eccentric shaft immensely; The 2-stage grid bars and the installation angle highly promote the feeding ability and the working efficiency; With larger size and higher capacity, TSW series vibrating feeder can meet the requirements of efficient and intensive industrial production.

### **2. Adjustment control is convenient and accurate**

TSW series feeder adopts Y series motor and frequency conversion controller, which is easy to adjust and more accurate in speed adjustment.

### **3. High reliability with enhanced supporting device design**

Side plate and rear supporting board of the feeder adopt 16Mn steel plate; bottom plate and side guard plate adopt NM360 steel plate, which has high strength. It improves the body wear, and deduces the maintenance. The bar adopts ZGMn13-4 steel plate, which has stronger structure bearing, and lengthens the life.

### **4. Stable operation, easy maintenance**

TSW feeder has simple and compact structure, small size, light weight, motor undercarriage fixed to the foundation, does not participate in vibration, increasing the reliability of equipment operation.



## Technical Parameters

Mm to inch conversion: 25.4millimeters=1 inch

Note: the capacity is based on limestone, it also will be affected by hardness, humidity,method and operation,final product distribution of material.

### TSW series vibrating feeder technical specification

Model	Maximum feed size (mm)	Capacity (t/h)	Rotation speed (rpm)	Groove size (mm)	Weight (t)	Dimension (mm)
TSW0936	500	130-280	750-900	960×3600	3.95	3680X2136 X1953
TSW1139	600	150-350	750-900	1100×3900	4.32	3980X2276X1953
TSW1345	700	250-450	750-900	1300×4500	4.97	4580×2570×1980
TSW1548	850	350-650	750-900	1500×4800	6.57	4880X2832X2044
TSW1852	1000	450-850	740-860	1800×5200	7.43	5280X3145X2059
TSW2156	1150	650-1000	700-850	2100×5600	9.86	5680X3520X2359

**Accessory parameter**

Model	V-belt		Motor		VFD (KW)	Feeder driven wheel diameter (mm)	Motor wheel diameter (mm)
	Model	Qty	Model	Power (KW)			
TSW0936	SPC2800	3	Y2-160L-4	15	15	Φ420	Φ244.6
TSW1139	SPC2800	3	Y2-160L-4	15	15	Φ420	Φ244.6
TSW1345	SPC2800	3	Y2-180L-4	22	22	Φ420	Φ244.6
TSW1548	SPC2800	4	Y2-200L-4	30	30	Φ530	Φ290
TSW1852	SPC2800	4	Y2-225S-4	37	37	Φ570	Φ290
TSW2156	SPC2800	5	Y2-225M-4	45	45	Φ600	Φ290

**Note:**

The feeder's capacity may be influenced by many factors: material physical and mechanical properties, material shape, feeding method and etc. The feeder's capability is based on the stone with middle hardness whose bulk density is 1.6t/m<sup>3</sup>.



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



Wearproof Plate

Impact Plate

Tension Rod

Feed Eye Ring

Movable Jaw Plate

## Grinding Plant



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

HJ Series Jaw Crusher

European Type Jaw Crusher

European Type Impact Crusher

Impact Crusher

Jaw Crusher

HPT Hydraulic Cone Crusher

HST Hydraulic Cone Crusher

CS Series Cone Crusher

Spring Cone Crusher

### Sand Making& Screening Plant

VSI5X Vertical Shaft Impact Crusher

VSI Vertical Shaft Impact Crusher

PCL Vertical Shaft Impact Crusher

YKN series vibrating screen

Vibrating Screen

Sand Washing Machine

Belt Conveyer

Vibrating Feeder

### Mobile Crushing Plant

Crawler Mobile Crushing Plant

Mobile Primary Jaw Crusher

Mobile Impact Crusher

Secondary Cone Crusher

Multi-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



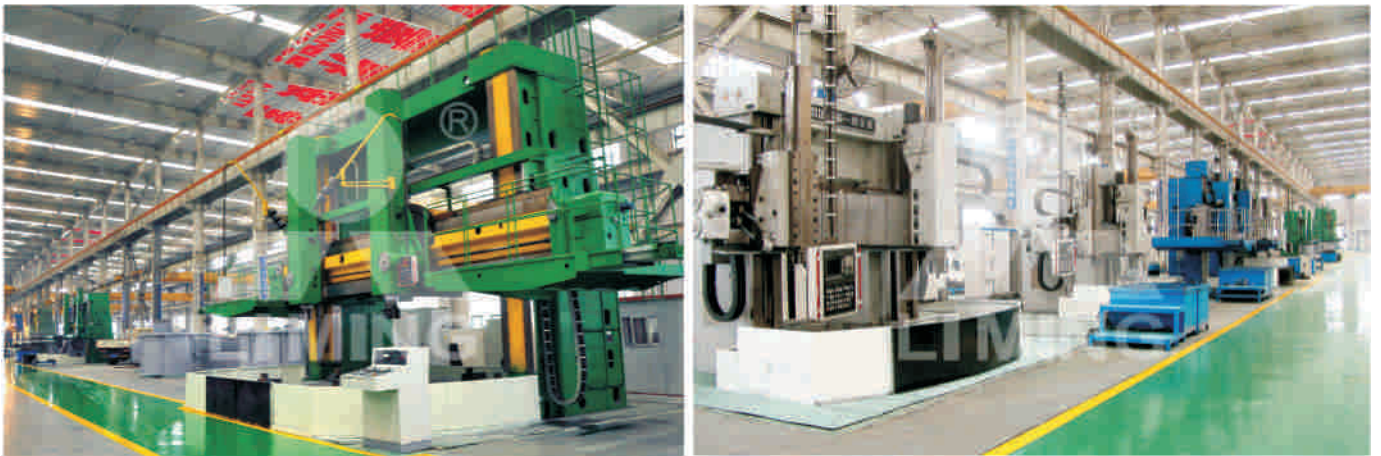
Environmental management  
system certificate



**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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