

**"Strengthen & Precise"**

Leading the way with new technology

# Product Guide

Crushing, Screening, Sand &  
Recycling Equipments and plants.



WIMCO®-Korea

Main Office / #1 Factory, #2 Factory : 25 / 26, Eogok Gongdan 4-Gil, Yangsan-si, Gyeongsangnam-do (Eogok-dong)

Tel : +82-55-388-4088 FAX : +82-55-384-9615



**WIMCO®-Korea**  
Won Duck Industrial Machinery Co., Ltd.

WIMCO-CRUSHER.COM



# ABOUT US

## Strengthen & Precise

Leading the way with new technology

### WIMCO®-Korea

Founded Date : 1995

location : Eogok Gongdan,  
Yangsan-si, Gyeongsangnam-do

Major Products : Crushing Plant

WIMCO-KOREA, a mining-machinery and plant specialist since 1995, has produced and supplied various crushing equipment such as Jaw Crushers, Cone Crushers, Vibrating Screens, and Feeders, which are aggregate crushing equipment for various construction works, to the domestic market, based on expertise and technology accumulation in line with customer needs and demands. WIMCO-KOREA has established itself as a professional manufacturer of aggregate crushing machinery and equipment with the most abundant experience and sufficient know-how in Korea. Our excellent mechanical equipment is demonstrating its capabilities worthy of the new brand name and value, expanding from Korea to various global construction sites such as East / West / South Asia, the Middle East, Africa, and Central Asia.

WIMCO-KOREA strives to meet the needs of any customer by developing top-notch quality products through continuous R&D with the principle of "Always Customers First" through our products' excellent crushing ability, easy operation, practical part procurement, and comprehensive follow-up management.

CEO/President *Ha Jong-Duk*



#2 Factory



#1 Factory



Offices

## ▶ Processing Plant





## Turn Key Project 01

As a project site delivered by the turnkey, our high-efficiency cone crushers were applied to all of the primary, secondary, and tertiary crushing, and impact crusher and wet sand were mainly designed and delivered to the site.





## Turn Key Project 02

As a project site delivered by the turnkey, our high-efficiency con crushers were applied to the secondary and tertiary crushing, considering the ideal shape of the produced aggregate. We also deployed Impact Crusher and Dry Cyclone for sand production.





## Turn Key Project 03

This plant, delivered by the turnkey, crushes and sorts construction waste as a shredding project site for the construction waste recycling. It is designed to optimize crushing and recycling by applying a magnetic separator for removing foreign substances and a high-efficiency cone crusher for grade 1 aggregate.





## Turn Key Project 04

As a project site delivered by the turnkey, our high-efficiency cone crushers were applied to produce grade 1 aggregates, and duct and bag filters were installed for collecting scattered dust.





## Sand & Recycling plants

### Wet (Dewatering Screen + Cyclone System)

#### Dewatering screen



#### Special Features

- A high-efficiency dewatering screen allows the produced product to be immediately dewatered and loaded onto the delivering truck.
- The powerful vibration motor can adjust the amplitude according to the product granularity.
- The wear rate is minimized by applying a polyurethane screen mesh with high wear resistance.
- The fine particles that have passed through the dewatering screen or classifier remove the sludge of less than 200 mesh through the cyclone and perform the perfect sand production operation.
- It is easy to adjust the classification point of the cyclone up to 100-200 mesh by adjusting the internal quantity.



Model	Capa (t/h)	Using water (t/h)	Pump	Dewatering screen size	Power (kw)
WFS-130	130	100	6/4	2000X3000	55
WFS-200	200	200	8/6	1500X3600	75
WFS-250	250	300	8/6	1800X3900	75
WFS-300	300	400	10/8	2100X4500	90

#### Waste-Water Thickeners

#### Special Features

- Sludge thickening system by an automatically adjustable scraper for filter press.
- Low cost and easy maintenance by using a minimum amount of coagulant.
- With self-protection ability, the scraper automatically floats upward in case of a large inflow of sludge.

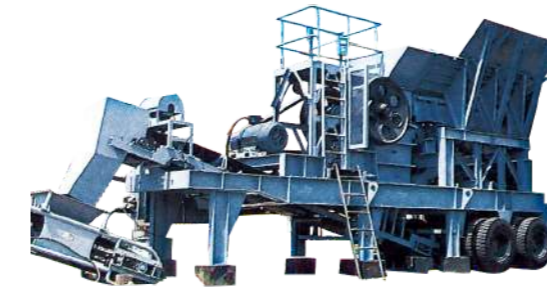


### Dry (Vibrating Screen + Dry Cyclone System)



## Semi-Portable Crushing Plant

### Primary crushing equipment



Hydraulic setting adjustment

#### Special Features

- This facility is used as the primary crushing facility for single crushing or fully mobile quarry.
- Rocks are transported to secondary crushing after removing small stones and earth dust by vibrating grizzly feeders.
- All equipment is mounted on a trailer chassis with two axle tires for easy transport.
- Hydraulic setting Jaw can be applied on semi-trailer chassis as an option

Primary crushing: Composed of hoppers, feeders, and jaw crushers

Model no.	Jaw crusher		Capacity (t/h)	Grizzly feeder	
	Type	Motor(kw)		Type	Motor(kw)
WDPJ-3020	FS-3020	37-45	100	QH-7530	11
WDPJ-3624	FS-3624	55-75	150	QH-9036	15
WDPJ-4230	FS-4230	75-100	200	QH-1042	19

### Secondary crushing equipment

#### Special Features

- Consists of devices that crush the raw stones crushed by the primary facility and sorts products through a screen network.
- All equipment is mounted on a trailer chassis with tow axle tires for easy transport.
- The hydraulic cone crushers can fix on Semi-trailer chassis as an option



Secondary crushing: Composed of cone crusher and screens

Model no.	Cone crusher		Vibrating screen	
	Type	Motor(kw)	Type	Motor(kw)
WDPC-900	CC-900	37-55	KOL3-1242	15
WDPC-1200	CC-1200	75-110	KOL3-1548	19
WDPC-1300	CC-1300	130-160	KOL3-1854 (2060)	30(45)

▶ Remarks : The number of decks (1~4) can be applied



# Single Toggle Jaw Crusher

## Special Features

WIMCO-KOREA's single-toggle jaw crushers have been manufactured and designed with long experience under optimal working conditions and are widely used for mines and raw stone aggregates, limestone, sand crushing, and construction waste as well.

- Lightweight, easy to move, dismantle and assemble.
- New spherical roller bearings ensure higher operating power, economy, and reliability.
- Possible to obtain a deep crushing chamber, a sharp crushing angle, and a high crushing rate.
- FS type single-toggle jaw crusher is suitable to satisfy 'large or medium size' and 'medium or fine size' simultaneously.

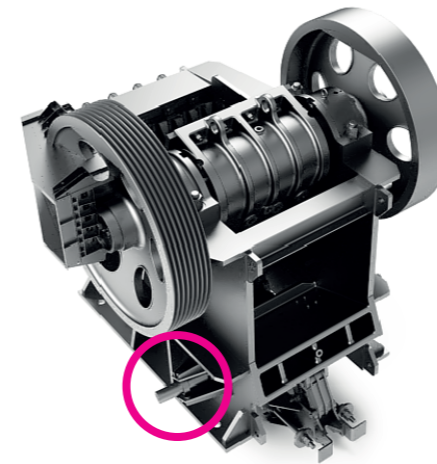


## Models & Specifications

Model no.	Feed Opening (mm)	Crushing capacity (t/h)										Pulley (r.p.m)	Motor (Kw)	Approx Wgt (ton)		
		Close Setting (mm)														
		50	60	80	100	125	150	175	200	225	250				300	
WFS-3020	750 × 500	42	53	72	94	117	138						250	37-45	9.5	
WFS-3624	900 × 600			108	132	164	186	196					250	55-75	15.6	
WFS-4230	1050 × 750				186	217	245	264	304				230	75-100	22	
WFS-4840	1200 × 1000					275	312	348	382	416			200	110-130	45.7	
WFS-5244	1300 × 1100						270	325	380	435	490	545	600	210	190-220	50
WFS-6048	1500 × 1200							425	468	510	550	590	640	190	150-190	80

Capacities are based on upon ordinary limestone not containing wet fine particles.

## ► Hydraulic Setting Device (option)

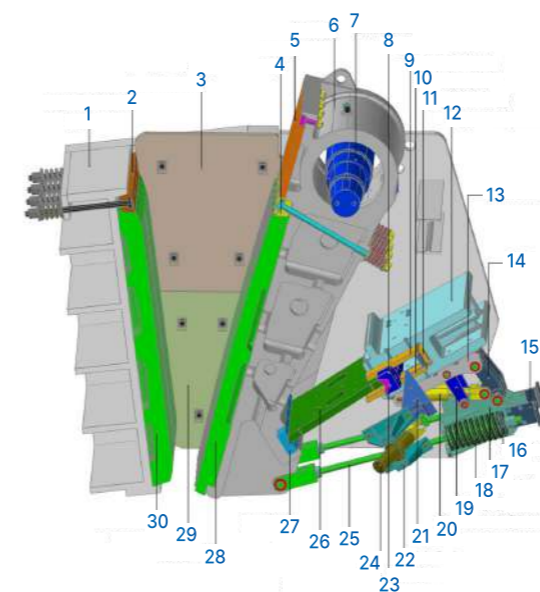


## Special Features

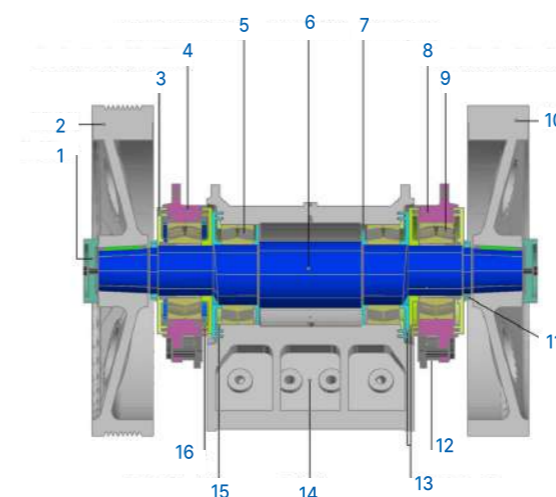
- Adjust the setting with the hydraulic system.
- Reduce equipment maintenance time.
- Increase production by reducing downtime.



## ► Structure Diagram



- |                                     |  |
|-------------------------------------|--|
| 1. Frame                            | 16. Spring Seat & Washer                       |
| 2. Fixed Jaw Plate Wedge            | 17. Spring Support                             |
| 3. Cheek Plate (Upper)              | 18. Tension Spring                             |
| 4. Swing Jaw Plate Wedge            | 19. Tilting Lever                              |
| 5. Protector                        | 20. Tension Hydraulic Cylinder & Knuckle Joint |
| 6. Swing Jaw                        | 21. Taper Block                                |
| 7. Eccentric Shaft                  | 22. Cylinder Bracket                           |
| 8. Toggle Block                     | 23. Toggle Seat                                |
| 9. Toggle Block Guide (U)           | 24. Setting Hydraulic Cylinder & Knuckle Joint |
| 10. Toggle Block Guide (L)          | 25. Tension Rod                                |
| 11. Toggle Block Guide (R)          | 26. Toggle Plate                               |
| 12. Toggle Block Adjustment Housing | 27. Toggle Seat                                |
| 13. Tension Base Support            | 28. Swing Jaw Plate                            |
| 14. Tilting Arm                     | 29. Cheek Plate (Lower)                        |
| 15. Tension Rod Stopper             | 30. Fixed Jaw Plate                            |



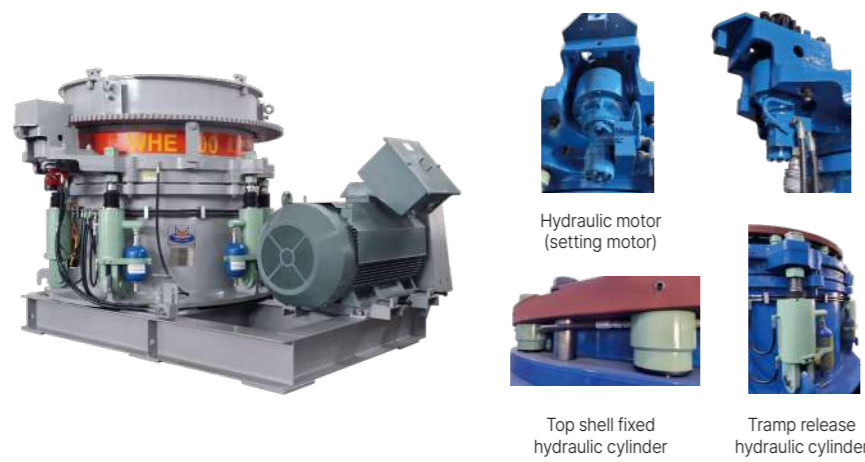
- |                                 |                              |
|---------------------------------|------------------------------|
| 1. End Cover                    | 9. Spherical Roller Bearing  |
| 2. V-Pulley                     | 10. Fly Wheel                |
| 3. Outside Bearing Cover        | 11. Bearing Nut & Washer     |
| 4. Bearing Housing (Fixed Side) | 12. Frame Bush & Fixed Block |
| 5. Spherical Roller Bearing     | 13. Inside Bearing Cover     |
| 6. Eccentric Shaft              | 14. Swing Jaw                |
| 7. Retaining-Ring               | 15. Bearing Gland (A)        |
| 8. Bearing Housing (Free Side)  | 16. Bearing Gland (B)        |







## High Efficiency Cone Crusher (HE Series)



### Special Features

- New generation crusher
- Design based on customers' needs
- Simple design and small size
- Ability to adjust smaller discharge setting during production
- Lowest operating cost
- Applicable to other applications with just one crusher
- Best performance
- Reduction of breakdown (stop) time
- Easy maintenance
- Low maintenance cost



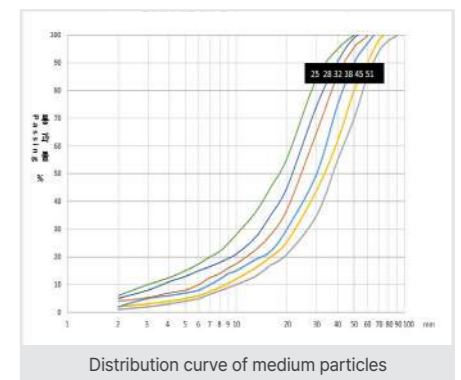
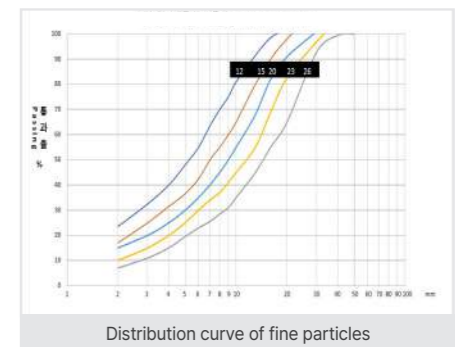
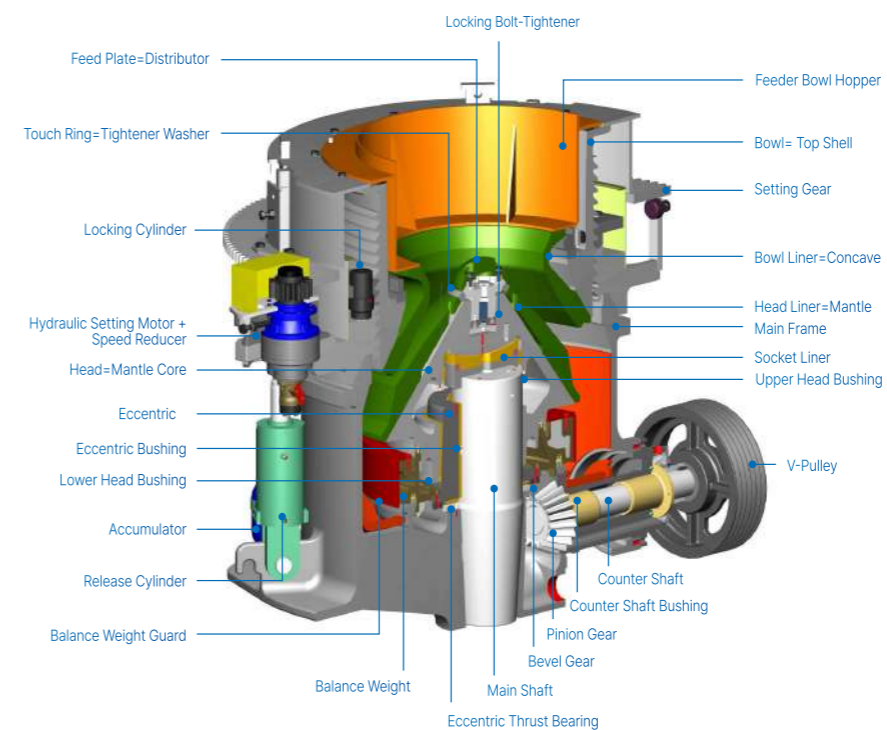
### ► Aggregate Production through Shape Improvement (Grade 1)



### Selection of the crushing cavity (inner diameter)

Model no.	Crusher inner diameter	Closed side	Open side	Closed side
WHE-300	SS (Extra fine)	25	75	6
	S (Fine)	107	148	14
	F (Medium)	150	190	17
	C (Course)	211	240	20
	CC (Extra course)	233	267	25
WHE-400	SS (Extra fine)	40	104	6
	S (Fine)	111	164	14
	F (Medium)	198	245	20
	C (Course)	252	192	25
	CC (Extra course)	299	333	30

### ► Major parts Structure diagram of high-efficiency cone crusher



### ► Operation monitoring and easy operation



- Large crushing ratio and fewer crushing processes have the advantage of reducing required power and plant space.
- Changing from crushing coarse aggregate products to crushing fine aggregate products is attainable simply by changing the liner, type, and speed.
- Easy to change the applications from crushing intermediate aggregate products to fine aggregate products or crushed sand through liner replacement and speed change.

### Closed Side Setting Gap

Model no.	Tone/Hour	Capacity of Product Sizes per hour											
		6mm	8mm	10mm	13mm	16mm	19mm	22mm	25mm	32mm	38mm	45mm	51mm
WHE-300	T/H			110-136	146-180	176-216	196-236	216-256	226-276	246-316	296-376	346-436	
WHE-400	T/H			136-171	180-226	221-276	250-316	290-366	290-366	320-426	326-486	406-556	460-626
WHE-5	T/H			220-300	280-380	335-450	370-490	410-535	430-570	440-610	515-715	570-790	

There is a deviation about ±8% depending on the conditions such as the type of raw materials, strength and moisture content.



## Vertical Shaft Impact Crusher (VSI)



### Special Features

- Optimal for sand production.
- Optimal for production of the highest grade granular aggregate (for concrete or road construction).
- Suitable for recycling aggregate production and construction waste recycling industry.
- Suitable for industrial mineral processing.
- Suitable for mining equipment.
- This "Rock-on-Rock" crushing technology has the following advantages and effects:
  - Uniform distribution of product specifications
  - Low abrasion of rotor liners, which boasts the most robust strength
  - Significant reduction of environmental pollution because the consumable liner directly crushes rough stones
  - Products are broken into the most optimal shapes possible with a significantly small feldspar ratio.



Specifications & Capacity	
Max. Feeding Size (mm)	40
Crushing Capacity Range (T/H)	150 ~ 350
ROTOR Rpm Range (Speed)	rpm m/s 1000-1700 / 44-75
Required Motor Power	220 × 2
Driving Method	DUAL
Crushing Type	ROCK ON ROCK
Machine Weights With Motor (Ton)	APP.18



## Vibrating Screens

### ► Multi Deck Screen (Patent: No. 2011-0021070)



### Models & Specifications

Model no.	Size	No. of deck	Dimension			Screening Area	Motor(kw-p)
			W	L	H		
WMS-1842	1800X4200	1 ~ 2	1800	4200	3320	7.5	22-4P
WMS-1860	1800X6000	1 ~ 2	1800	6000	3690	10.8	30-4P
WMS-2160	2100X6000	1 ~ 3	2100	6000	4570	12.6	30-4P
WMS-2460	2400X6000	1 ~ 3	2400	6000	4570	14.4	37-4P
WMS-2172	2100X7200	1 ~ 3	2100	7000	4810	14.7	37-4P
WMS-2472	2400X7200	1 ~ 3	2400	7200	4810	17.3	55-4P
WMS-2890	2800X9000	1 ~ 3	2800	9000	5570	25.2	45×2-4P

### ► Inclined Vibrating screen (Utility model patent: No. 20-0348663)



### Models & Specifications

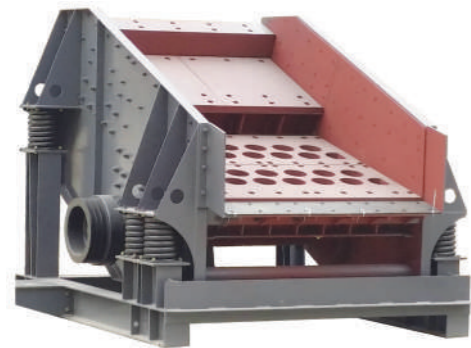
Model no.	Size	No. of deck	Dimension			Screening Area	Motor(kw-p)
			W	L	H		
WVS-1236	1200X3600	1 ~ 2	1200	3600	2160	4.3	11-4P
WVS-1536	1500X3600	1 ~ 2	1500	3600	2160	5.4	15-4P
WVS-1842	1800X4200	1 ~ 2	1800	4200	2440	7.5	19-4P
WVS-1848	1800X4800	1 ~ 2	1800	4800	2600	8.1	22-4P
WVS-2160	2100X6000	1 ~ 3	2100	6000	3790	12.6	30~37-4P
WVS-2460	2400X6000	1 ~ 3	2400	6000	3790	14.4	37-4P
WVS-2470	2400X6800	1 ~ 3	2400	6800	4400	16.3	30×2-4P
WVS-2760	2700X6000	1 ~ 3	2700	6000	3790	16.2	45-4P
WVS-2890	2800X9000	1 ~ 3	2800	9000	5170	25.2	45×2-4P

\* Based on 1~3 layered screen decks. Dimensions may change when changed to 4 layers.



## Inclined & Horizontal Vibrating Screens

### ► Scalping screen



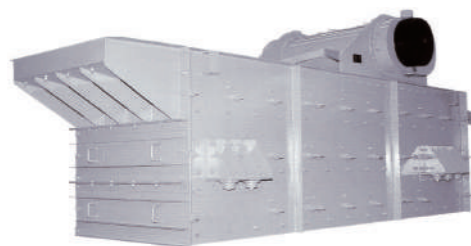
#### Special Features

- Various designs of grizzly-bar spacing are possible
- 100% pre-recovery of topsoil and rough stones less than 100mm in size before the rough stones are fed into the primary crusher (jaw crusher) in a sturdy grizzly-bar
- Maximize the crushing efficiency of the primary crusher (jaw crusher)
- Strong structure that can withstand the heavy load of large stones
- The advantage of transporting and crushing clean raw stones by pre-selecting before the primary crusher (jaw crusher)

#### Models & Specifications

Model no.	Width X Length	Capa(t/h)	Motor
WOP-1624x	1600 X 2400	240 - 400	19
WOP-1630x	1600 X 3000	350 - 500	22
WOP-1930x	1900 X 3000	450 - 600	30

### ► Horizontal vibrating screen



#### Special Features

- It plays a particularly good role in the sorting of small and medium-sized products in washing and dewatering screens.
- Designed by integral welding, the structure is simple and very strong
- Light weight and high amplitude
- Easy to adjust amplitude and minimizes driving noise
- Selection is particularly accurate
- It is easy to check the product selection status of the upper deck due to the low design of the machine height.
- Easy to install, operate and maintain, economical cost

#### Models & Specifications

Model no.	No of deck	Width X Length (mm)	Motor	Model no.	No of deck	Width X Length (mm)	Motor
Kol2-1242	2	1200 X 4200	11	Kol3-1854	3	1800 X 5400	30
Kol3-1242	3	1200 X 4200	11	Kol3-2460	3	2400 X 6000	45
Kol3-1548	3	1500 X 4800	19				

## Vibrating Feeders

### ► QH-Type / Horizontal type



### ► QV-Type / Inclined type



### ► Apron Feeder / QA type



#### Special Features

- WQH-type is suitable for sorting and transporting gravel or quarry ore with arbitrarily adjustable speed and amplitude, quiet operation, and accurate transfer.
- The WQV-type is smooth in operation and controls the flow of raw stones so that the primary crusher produces the maximum output, and the powerful counterweight vibrator ensures uniform and strong vibration at all times.

#### Models & Specifications

Model no.	Width X Length	Cap. (t/h)	Motor (Kw)	Remark
WQV-9024	900 X 2400	100-200	7.5	Inclined
WQV-1230	1200 X 3000	160-320	11	"
WQV-1542	1500 X 4200	250-500	15	"
WQH-7530	750 X 3000	50-150	11	Horizontal
WQH-9036	900 X 3600	100-200	15	"
WQH-1024	1050 X 2400	150 X 250	11	"
WQH-1042	1050 X 4200	200-300	19	"
WQH-1230	1200 X 3000	200-300	15	"
WQH-1536	1500 X 3600	250 X 350	19	"
WQH-1248	1200 X 4800	300 X 400	22	"

#### Special Features

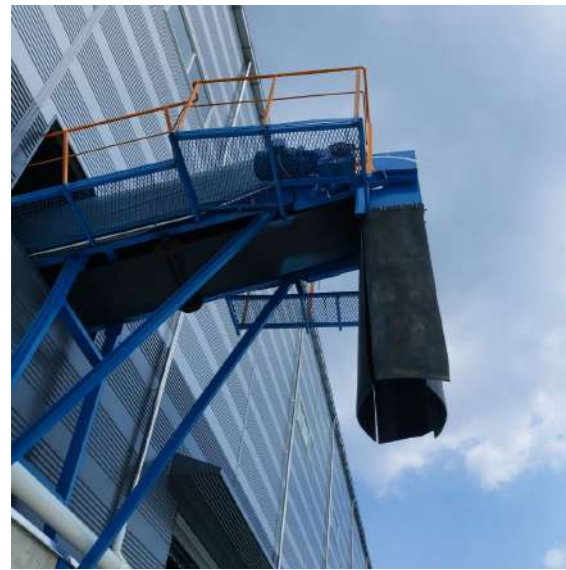
- \* Delivers full power with no loss based on its direct connection type.
- \* Easy to use and reduces maintenance costs as it does not require chain, sprocket wear, and safety net.
- \* Easy removal and attachment
- The apron feeder is suitable for transferring large volumes of rough and large stones to the primary crusher.
- Requires a relatively small space with arbitrarily adjustable supply speed.
- Sturdy structure with a low failure rate
- Particularly suitable for metal or limestone mines, dolomite ore mills, and crushed stone mills

#### Models & Specifications

Model no.	Max.Size of Feed (mm)	Speed of Apron (m/min)	Capacity (t/h)	Motor (kw x p)
WAF-0930	900 X 3000	450	100-200	11 X 4
WAF-1236	1200 X 3600	600	200-400	22 X 4
WAF-1554	1500 X 5400	800	300-600	30 X 4
WAF-1840	1800 X 4000	1000	500-1000	37 X 4
WAF-2050	2000 X 5000	1300	600-1200	37 X 4
WAF-2455	2400 X 5500	1500	800-1600	45 X 4



### Belt conveyors



► We manufacture and deliver various belt conveyors tailored to the site.



### ► Magnetic separator



### ► Direct drive



### ► Full code switch



### ► Safety net



### ► Blower





### Global Footprint



### Technical collaboration with global brand

- Hein, Lehmann Trenn-und Foerdertechnik GmbH(Krefeld), Germany
- "LIWELL SCREEN®"
- "LIWELL SCREEN®" Support Jack Frame & Cover
- Haver & Boecker Wire Weaving Eng. Division (Münster-Germany)
- PA-Series High Speed HP-Cone Crushers



### Spare parts

We keep major spare parts in reserve to respond promptly to urgent customer requests.

