



## Almanabadi Industrial and Mineral Holding



#almanabadi



Design, casting and manufacturing of mining machinery

Exploration, extraction, exploitation and processing of minerals

Manufacturing and assembly of road construction and mining machinery



#almanabadi



MEYAR FSMBI



SANGIN FELEZ





## About Holding



گروه صنعتی فولادسان اصفهان

**Almanabadi Industrial and Mining Holding** operates its activities in the field of industry and mining under the following companies in its group:

### **Almanabadi Fooladsazan Industrial Complex**

Design, modeling, casting, manufacturing of stone crushing and mineral processing machines and machines required for other industries

### **Bakhtar Iranian Mineral Industries Faravaran Meyar**

Exploration, extraction, exploitation and processing of minerals

### **Taymaz Faravaran Azarabadgan**

Extraction and exploitation of Mako Kandi silica mine and production of silica granulation and production of micronized silica and ferrosilica

### **Sakhtar Mashin Taymaz**

Assembly and manufacturing of road construction and mining machinery

### **Foolad Sangin Felez Urmia**

Casting various automotive and industrial parts using the lost foam method



SANGIN FELEZ



MEYAR FSMBI



Taymaz Faravaran

## About Company



### **Almanabadi Fooladsazan Industrial Complex**

#### **Casting Unit**

Casting heavy parts, steel and alloy and wear-resistant  
cast irons up to 25 tons and forging 1200 tons

Equipped with three induction furnaces

Equipped with centrifugal casting machine

Equipped with CCM continuous casting machine

#### **Modeling Unit**

Modeling, simulation and design of casting technology

Equipped with CNC foam and wood machine

Making various types of foam models in very large dimensions

Making various types of aluminum and iron metal models

#### **Laboratory Unit**

Equipped with 2 quantummetry and hardness testing and metallography machines

Types of destructive tests, UT, VT, PT

#### **Heat Treatment Unit**

Equipped with a fully automatic air, water and oil quench heat treatment furnace with dimensions of 2 meters wide and 5 meters long

Induction hardening of various types of gears and rings

#### **Parts Manufacturing Unit**

Equipped with laser and plasma cutting machines, CO<sub>2</sub>, powder and argon welding, cold rolling operations of various types of sheets



## About Company



**Almanabadi Fooladsazan  
Industrial Complex**

### **Machining unit**

Equipped with 5 heavy-duty lathes up to 1 meter in diameter and 3 meters in length

Equipped with 1.2, 1.4, 1.8, 2.4 and 5 meter carousel lathe

Equipped with 1.25 x 1.25 boring machine

Equipped with 1.25 x 3 meter gantry milling machine

Equipped with vertical and horizontal milling machine

Equipped with 5 radial and drilling machines up to 100 mm in diameter

### **Assembly unit**

Equipped with measuring tools, elements and wrenches for assembling heavy and sensitive parts

Equipped with more than 15 overhead cranes up to 20 tons in weight

### **Quality control unit**

Equipped with control and measuring tools and laboratory equipment for analysis and calibration

### **Technical and engineering unit**

Design and simulation of all manufactured parts and preparation of modeling, casting and manufacturing drawings using a variety of state-of-the-art software





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# **FEEDER & HOPPER**

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## Feeders and Hopper

The feeder is designed to feed rock to the crushing and processing lines and has the ability to adjust the outlet valve to control the dimensions of the final product.

The hopper is used as a rock silo before the feeder and assembled into a feeder.

### Types of feeders:

Chain feeder

Double-axis feeder

Single-axis feeder

Belt feeder

MODEL	Capacity (t/h)	Single Axis	Grizzly Two Axis	Power (kw)
FSA-FED-2x100	150-250		✓	37
FSA-FED-2x120	300-550		✓	45
FSA-FED-2x150	450-1000		✓	55
FSA-FED-3x1.5	150-200		✓	11
FSA-FED-3x1.2	220-300		✓	15
FSA-FED-1x100	50-100	✓		7.5
FSA-FED-1x120	50-150	✓		11



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# **BELT CONVEYOR**

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# Belt Conveyor

A conveyor belt is a device consisting of a moving plate that is used to move and transfer materials and products in mines and mineral processing plants and various industries such as the food, pharmaceutical, chemical, tire manufacturing industries, etc. Conveyor belts increase the speed and ease of material transfer and have become very important in material transfer systems.

## Conveyor belt specifications

Has a frame made of iron beams and gutters

In different sizes for all models

Has bolted connections in parts such as the belt structure, motor base, gearbox base, roller base, hopper, etc.

Has a one-piece shaft with a locking system on the roller

MODEL	Belt Width (mm)		
FSA-BEL-006	60		
FSA-BEL-008	80		
FSA-BEL-010	100		
FSA-BEL-012	120		
Roller Type	Moving Type	Transmission	Rubber Type
Pressing and Changeable	Gear Motor 55	Chain	EP400
	Gear Motor 75	Chain	EP650
	Gear Motor 110	Chain	EP800
	Gearbox SN2	Belt	EP400
	Gearbox SN3	Belt	EP650
	Gearbox SN4	Belt	EP800



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# **JAW CRUSHER**

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# Jaw Crusher

Jaw crusher is one of the main crushing equipment in the mining industry and in the stone crushing and road construction industry, which is very popular among users due to its simple structure and effective performance. Jaw crusher is designed as a primary crusher for crushing hard rocks and large minerals and performs crushing operations using a two-jaw mechanism.

## Jaw crusher specifications

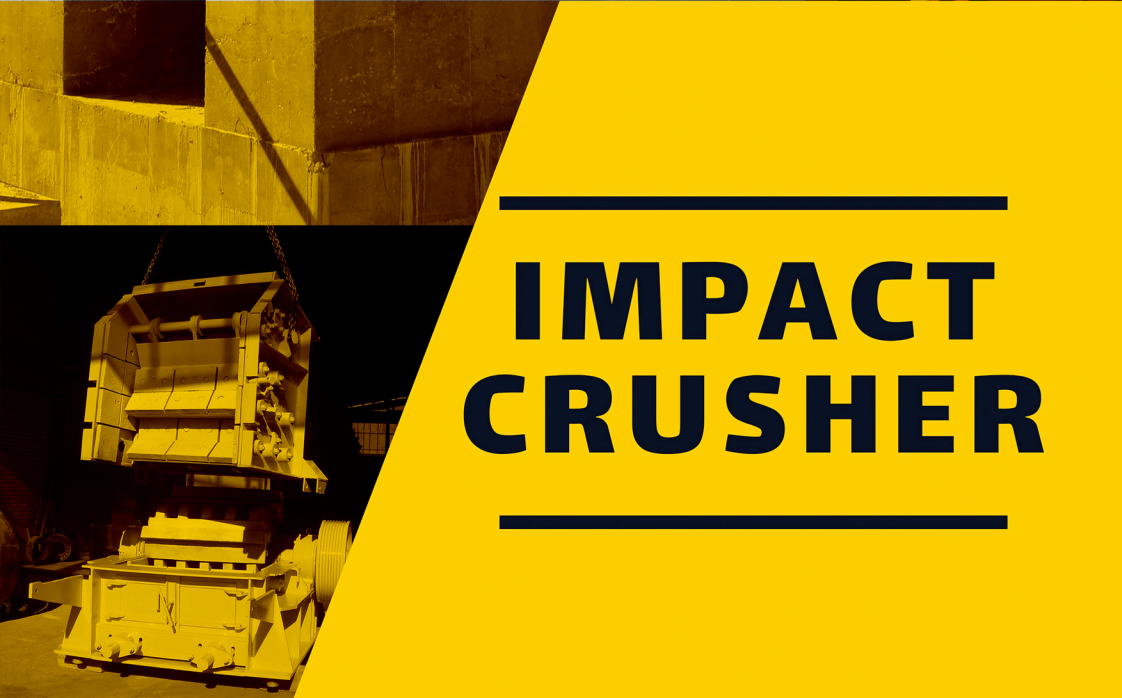
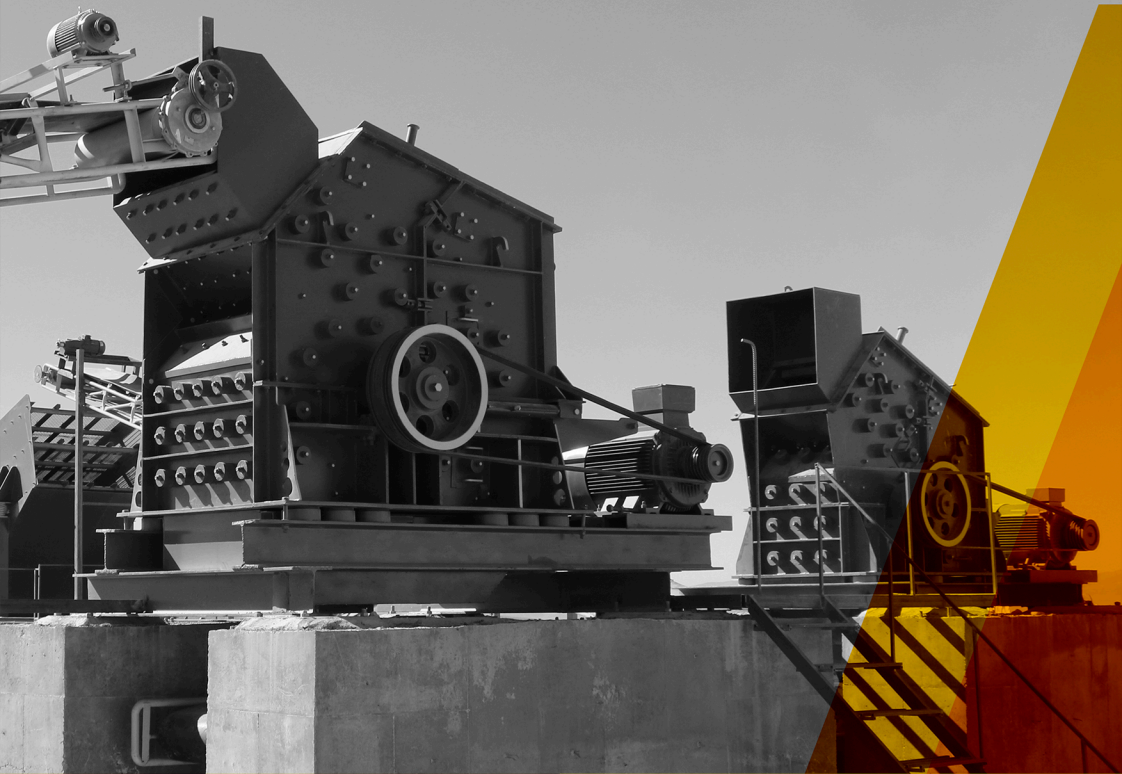
High power and capacity in crushing rocks

Abrasion parts, including shoulders and side plates, are made of manganese steel. Sturdy and high-strength construction

Ability to adjust the outlet opening

Quick and easy replacement of spare parts

Model	Power (kw)	Capacity (t/hr)	Weight (kg)	Rotation (rpm)
1200x1000	120-140	275-500	48000	230
1100x900	90-110	125-200	26500	240
1000x600	75-90	75-160	18000	260
900x600	75	80-150	19500	260
900x400	55	70-130	13000	250
800x550	55-75	40-110	11000	260
650x450	55-75	25-75	8500	260
500x300	55-75	13-25	4000	260



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# IMPACT CRUSHER

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# Kubit Crusher

Kubit crusher is a secondary crusher suitable for crushing limestone and dolomite.

Types of Kubit crushers are produced in HS series models, double-sided Kubits and other impact Kubits.

## Kubit crusher specifications

Strong and sturdy body

Mn13Cr12 alloy rotor

Hi-Cr alloy hammers

Ni-Hard alloy shackles

Has a hydraulic system for inspecting internal components (HS series)

Model	Power (kw)	Capacity (t/hr)	Input (mm)	Output (mm)
IPC 100	50	50-100	50-100	0-40
IPC 120	70	100-150	50-150	0-40
IPC 180	90	150-180	50-200	0-40
2 Side	110	50-100	50-250	0-40
H.S 7	100	70-100	100-150	0-40
H.S 10	125-150	150-180	150-200	0-40
H.S 14	185	150-225	150-250	0-40





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# **GYRATORY CRUSHERS**

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## Cone Crusher

Cone crushers, secondary crushers and stone crushers are used to crush hard minerals, including iron ore, to relatively small sizes.

Cone crushers are a type of gyratory crusher in which the angle of the cone core is increased to about 100 degrees and the curvature inside the body is changed.

### Cone crusher specifications

Can be used as a primary and secondary crusher in minerals

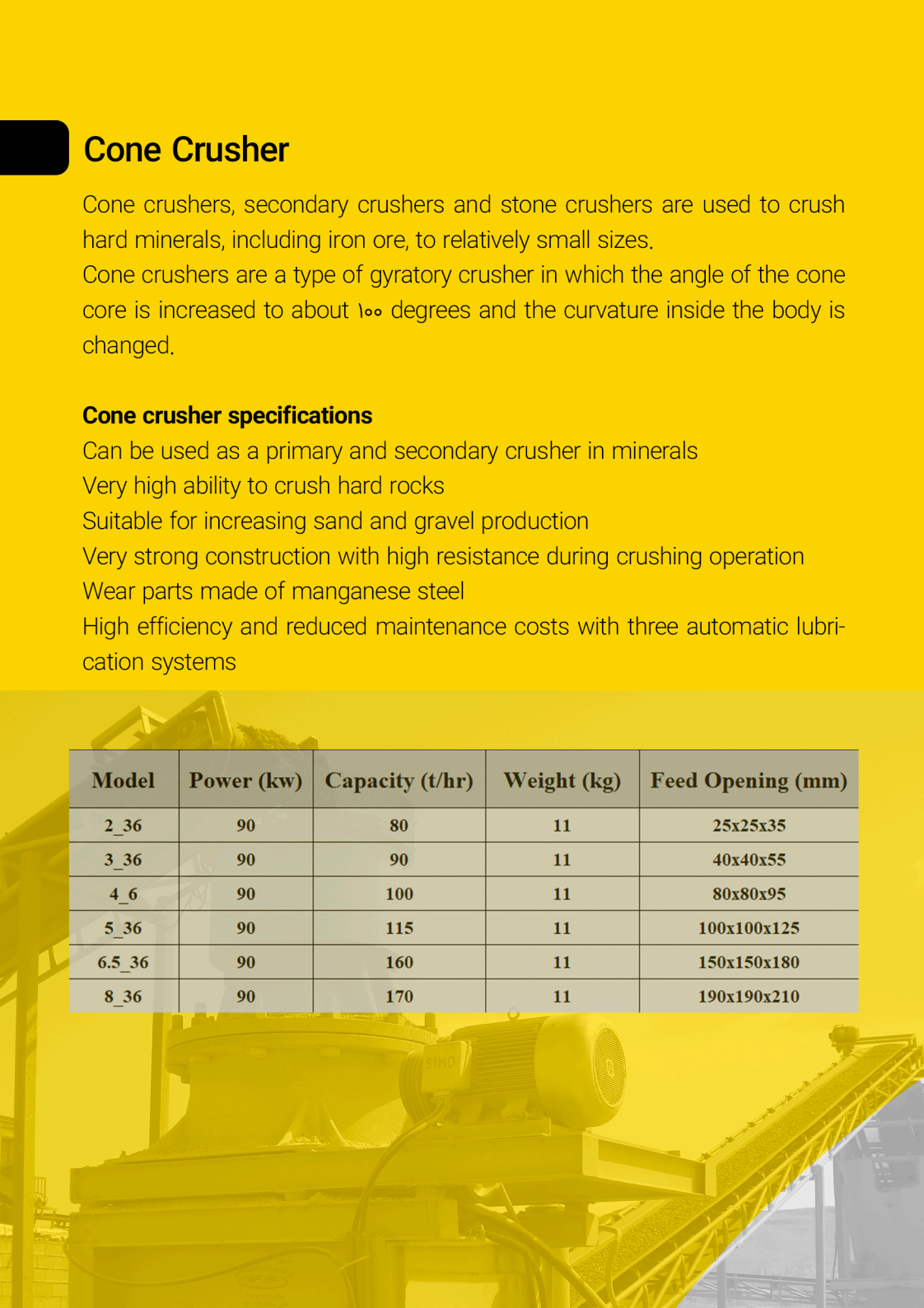
Very high ability to crush hard rocks

Suitable for increasing sand and gravel production

Very strong construction with high resistance during crushing operation

Wear parts made of manganese steel

High efficiency and reduced maintenance costs with three automatic lubrication systems



Model	Power (kw)	Capacity (t/hr)	Weight (kg)	Feed Opening (mm)
2_36	90	80	11	25x25x35
3_36	90	90	11	40x40x55
4_6	90	100	11	80x80x95
5_36	90	115	11	100x100x125
6.5_36	90	160	11	150x150x180
8_36	90	170	11	190x190x210





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# **GYRATORY CRUSHERS**

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# Gyratory Crusher

The gyratory crusher can be used as a primary crusher or a secondary crusher in mines. This crusher also has a very high ability to crush hard materials and rocks.

## Gyratory crusher specifications

Can be used as a secondary crusher in mines

Very high ability to crush hard rocks

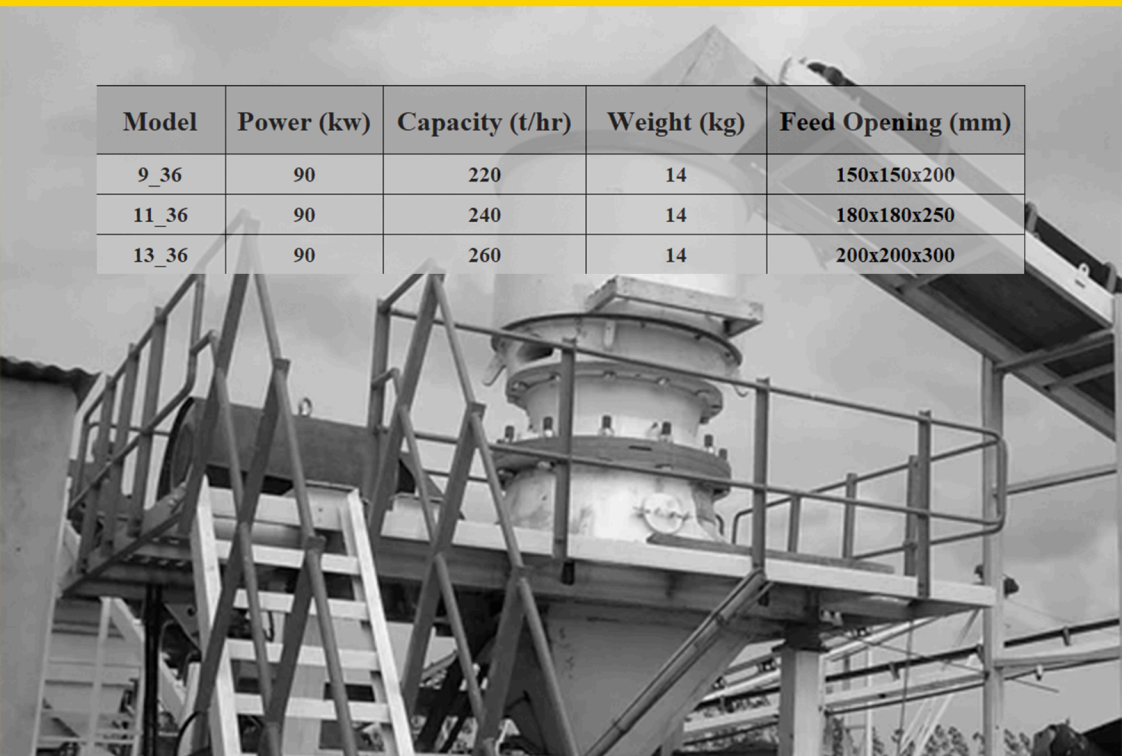
Suitable for increasing sand production

Very strong construction with high resistance during crushing operation

Abrasion parts made of manganese steel

High efficiency and reduced maintenance costs with three automatic lubrication systems

Model	Power (kw)	Capacity (t/hr)	Weight (kg)	Feed Opening (mm)
9_36	90	220	14	150x150x200
11_36	90	240	14	180x180x250
13_36	90	260	14	200x200x300





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# SCREEN

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## Screen

A vibrating screen is a device that uses vibration to classify and separate materials. This device can be made in multiple layers so that materials with specific dimensions are separated in each layer and finally the input materials are discharged from the device in a classified manner.

### Screen specifications

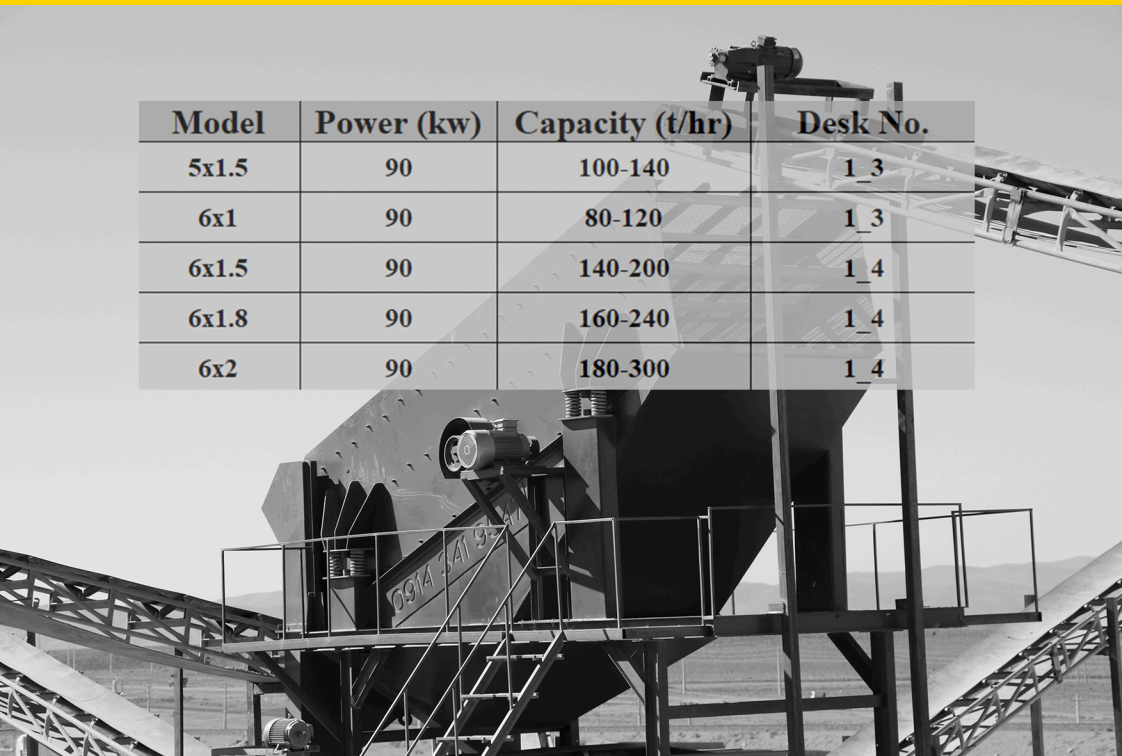
Strong construction with high resistance

Bodies made of seamless welded sheets

Shafts made of alloy steel

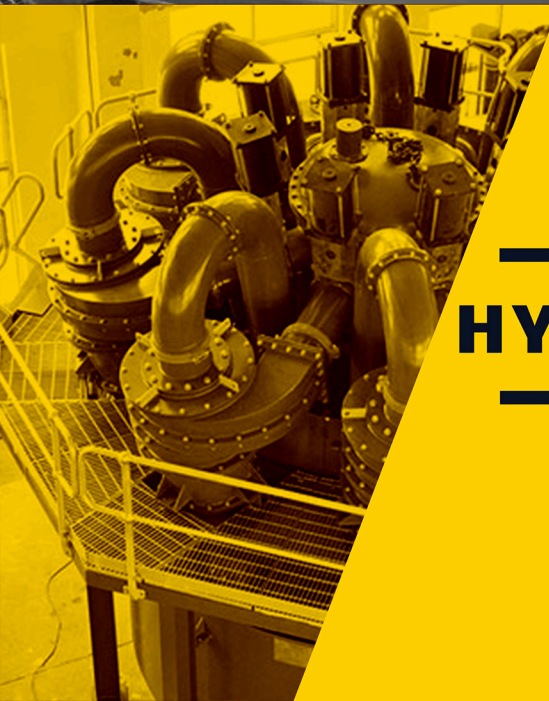
Vibration range adjustment

Quick and easy installation and replacement of the mesh



Model	Power (kw)	Capacity (t/hr)	Desk No.
5x1.5	90	100-140	1_3
6x1	90	80-120	1_3
6x1.5	90	140-200	1_4
6x1.8	90	160-240	1_4
6x2	90	180-300	1_4





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# **HYDROCYCLONE**

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# Hydrocyclone

Hydrocyclone is a physical method of separating particles in mineral pulp. This method uses two centrifugal forces, which are caused by the rotation of the water flow in the cyclone, and also the gravitational force caused by the direction of the water flow (from top to bottom).

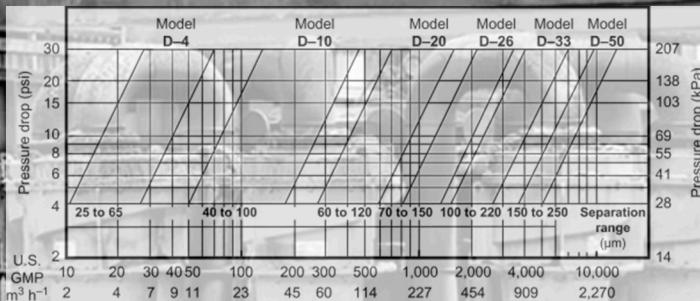
Hydrocyclones are often used to separate fine and coarse particles from each other.

## Hydrocyclone specifications

Separation of particles from each other with high efficiency

Equipped with polyurethane and rubber coating on all wear surfaces

Using centrifugal force for separation due to the presence of eddy current



Model	Cyclone Dia.	Capacity (GMP)	Capacity (m <sup>3</sup> /hr)
FSA-CYC-4	4"	24-76	5.4-17.3
FSA-CYC-6	6"	57-147	13-33
FSA-CYC-10	10"	96-500	22-114
FSA-CYC-15	15"	500-1200	114-273



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# **AIR CLASSIFIER**

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# Air Classifier

One of the main applications of air classifiers is in the mining and mineral processing industries. They are used to separate minerals based on their size and density, which allows for efficient concentration and recovery of valuable minerals. Air classifiers can be used for materials and products such as powdered chemicals, minerals, metal powders, cement, fly ash, silica, glass beads, food products (flour, sugar and spices), pharmaceutical powders, plastic granules, cosmetics, etc.

## Air classifier applications:

Calcium carbonate industry: For the production of super micronized powders.  
Talc industry: In the production of soft and high-quality powders.  
Mining industries: For the separation of minerals such as bentonite  
Chemical and petrochemical industries: Precise classification of pigments and chemicals



Model	Power (kw)	Feeding Capacity (t/h)	Product Size and Capacity (t/h)			
			d90 : 45 μ	d90 : 60 μ	d90 : 90 μ	d90 : 150 μ
FSA-ES-2500	15+22	7_25	2_3	3_5	5_7	6_8
FSA-ES-3000	18.5+30	8_35	—	5_8	7_10	9_14
FSA-ES-3500	22+37	15_70	—	7_10	10_12	11_16



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# **MAGNETIC DRUM SEPARATOR**

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# Magnetic Drum Separator

Drum magnet separator is a type of separator used to separate magnetic minerals from other minerals. This cylindrical device has a roller that divides materials into two categories: magnetic and non-magnetic materials when they enter it. In this way, minerals enter the device in bulk, slurry, granular or powder form. Then, non-magnetic materials continue their natural path and exit from a special chamber. While magnetic materials are attracted to the surface of the drum and eventually exit from another path.

## Drum magnet separator specifications:

- High absorption power
- No need for electricity or batteries
- Having a sturdy body
- Having a permanent magnetic field

Model	Diameter (mm)	Rotational Speed (RPM)	Tank Configuration
FSA-DMS-01	1000-3600	19-23	All Types

The diagrams show three different drum magnet separator configurations. Each diagram features a central drum with a magnetic field (labeled 'MAGNETS') and a 'Feed Inlet' at the top. The drum rotates clockwise, as indicated by the 'Drum Rotation' arrow. In the 'Concurrent (Dense Media)' configuration, the 'Product Outlet' is at the bottom left, the 'Overflow Outlet' is at the bottom center, and the 'Tailing Outlet' is at the bottom right. In the 'Counter Rotation' configuration, the 'Tailing Outlet' is at the bottom left, the 'Product Outlet' is at the bottom center, and the 'Feed Inlet' is at the top right. In the 'Countercurrent' configuration, the 'Product Outlet' is at the bottom left, the 'Tailing Outlet' is at the bottom center, and the 'Feed Inlet' is at the top right.





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**BALLMILL**

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## Ballmill

The ball mill or ball mill of this company is of continuous type and is manufactured in two types: dry and wet. These mills are widely used in the mineral and chemical processing industries and are used in the final crushing and production of micronized powders in various mining industries such as iron ore concentrate, copper, lead, zinc, gold and cement and other minerals. In order to produce micronized powders and softening, these mills are usually designed in a closed or open circuit with separators and classifiers or cyclones.

### Ball mill specifications:

A structure suitable for pulverizing various minerals, including copper, lead, zinc, iron, cement, silicate, refractory materials, and other metallic

Has replaceable steel balls for grinding

Has replaceable manganese steel anti-wear lining

Model	Cylinder Diameter (mm)	Cylinder Length (mm)	Motor Power (kW)
FSA-BMW-1530	1500	3000	80
FSA-BMW-1545	1500	4500	130
FSA-BMW-2040	2000	4000	180
FSA-BMW-2060	2000	6000	250
FSA-BMW-2240	2200	4000	250
FSA-BMW-2260	2200	6000	355
FSA-BMW-2430	2400	3000	250
FSA-BMW-2445	2400	4500	315
FSA-BMW-2832	2800	3200	355
FSA-BMW-2840	2800	4000	400
FSA-BMW-2845	2800	4500	500
FSA-BMW-2860	2800	6000	610
FSA-BMW-3245	3200	4500	550
FSA-BMW-3260	3200	6000	610
FSA-BMW-3645	3600	4500	1000
FSA-BMW-3660	3600	6000	1250
FSA-BMW-3690	3600	8000	1750





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# VSI CRUSHER

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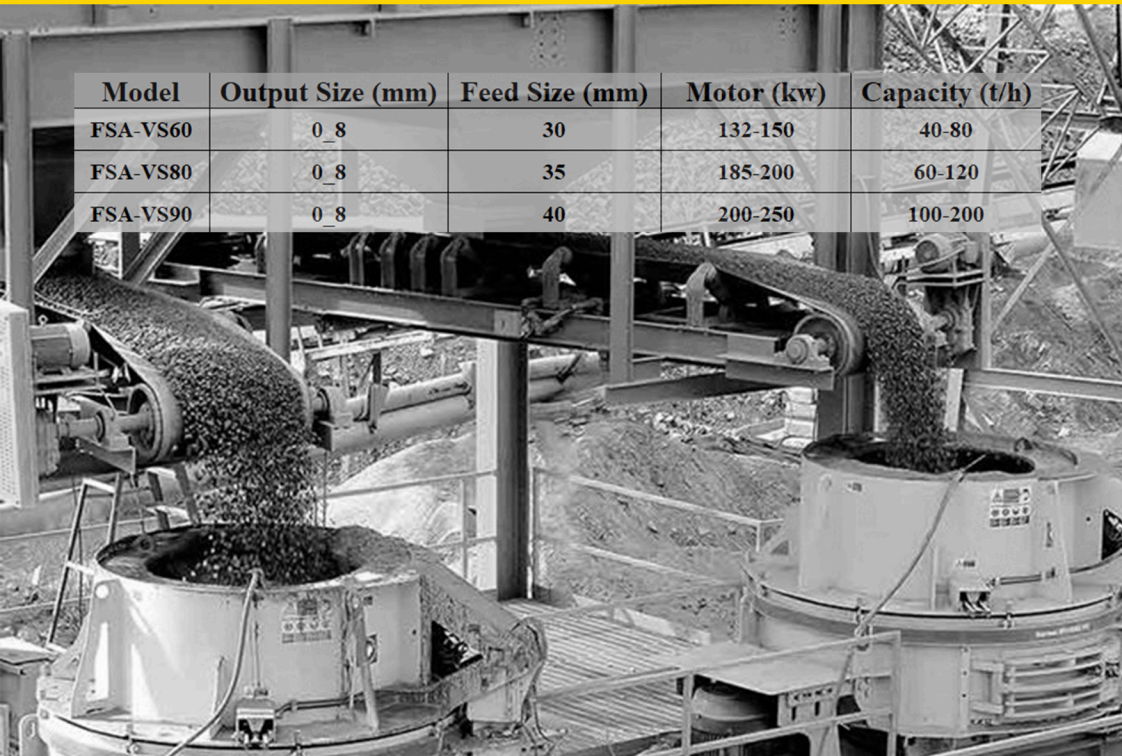
# Rock on Rock

Vertical impact crushers are designed and manufactured with the latest technology and are self-breaking sand makers, in which the rubble is broken and converted into fine grains by colliding with each other at high speed. The high capacity of fine grain production is one of the outstanding features of this machine.

## Rock on Rock Sand Maker Specifications:

- Reducing operating and maintenance costs by improving manufacturing technology. High capacity of the machine and producing a significant amount of fine grains. Improved design to facilitate the replacement and inspection of replaceable parts. Improved bearing lubrication system
- Hydraulic system for adjusting belt tension and separating the upper half of the machine
- Has a replaceable manganese steel anti-wear lining

Model	Output Size (mm)	Feed Size (mm)	Motor (kw)	Capacity (t/h)
FSA-VS60	0_8	30	132-150	40-80
FSA-VS80	0_8	35	185-200	60-120
FSA-VS90	0_8	40	200-250	100-200





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**BAG FILTER**

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## Bag Filter

A bag filter is a device that absorbs smoke, dust, particles and pollutants in the air using fabric bags and filters them.

In the dust collector, the dust-carrying gas, after passing through the cyclone, goes to the bag filter bags (dust collector), and after colliding with the bags and clean air passing through it, it enters the clean air chamber, and then is sent to the chimney by a centrifugal suction fan.

### **Bag filter specifications:**

Collecting pollutant particles and dust created in the crushing process

Preventing the creation and spread of dust and pollution in the environment

With a pulse jet system for cleaning the bags. With a continuously working

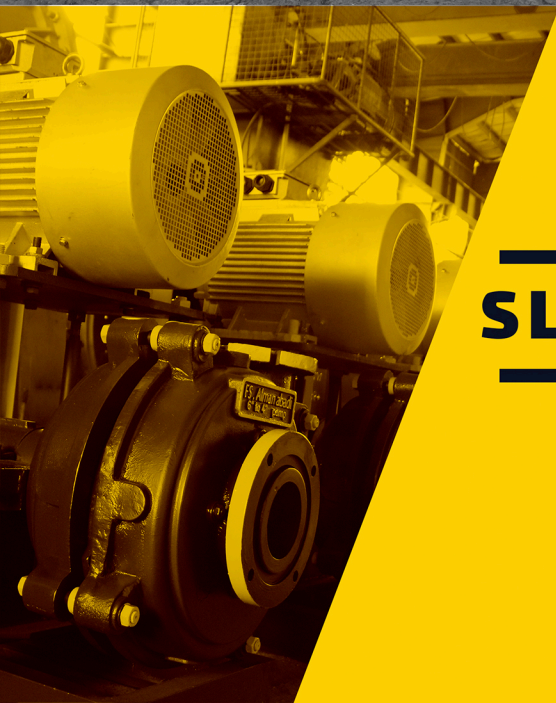
screw system for discharging particles and dust. With a rotary air valve

system. With a PLC system for controlling the bag cleaning process

With a replaceable anti-wear lining made of manganese steel







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# SLURRY PUMP

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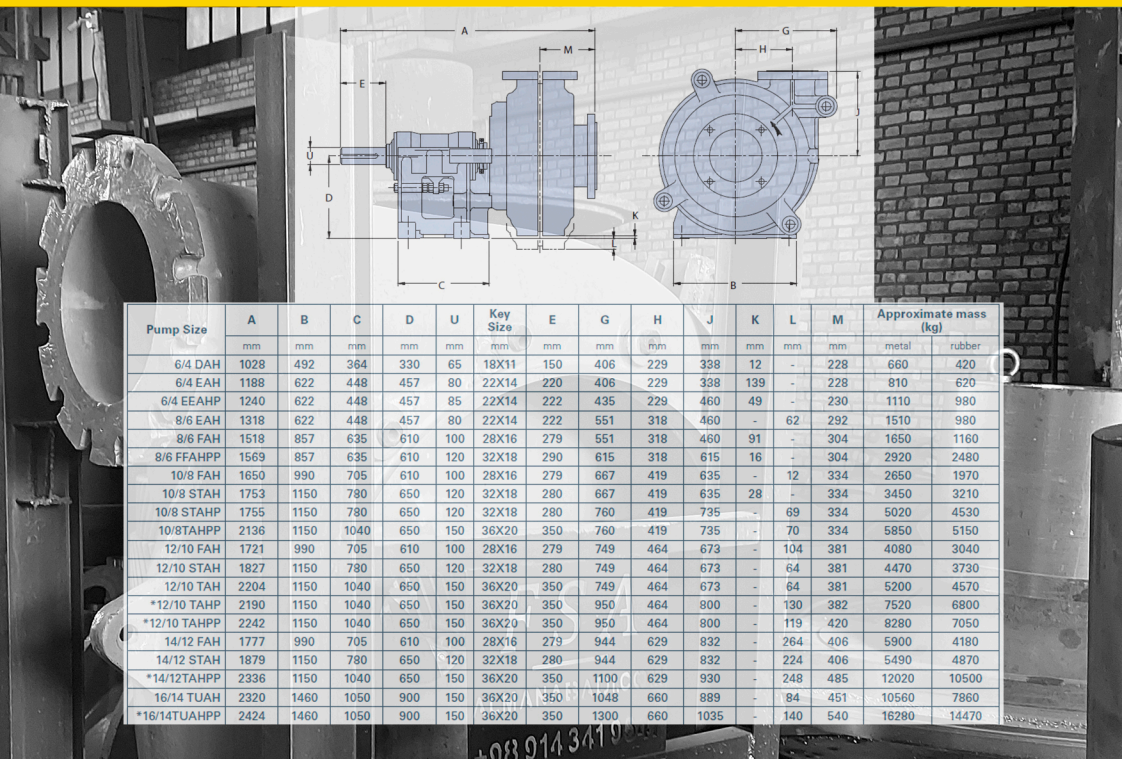
# Slurry Pump

A slurry pump is a type of centrifugal pump specifically designed for the hydraulic transfer of abrasive and often corrosive solids in a fluid. The slurry pump must have a low specific speed design and operate at a lower speed than conventional water pumps in order to reduce the velocity of the solids and thereby reduce the wear rate.

High quality slurry pumps are well suited for mining, metallurgy, fertilizer and any other application requiring reliable performance when working with abrasive fluids.

## Slurry pump specifications:

Impeller clearance adjustment mechanism without dismantling the pump  
Impeller, volute shell and throat bushing made of Ni-Hard wear-resistant cast iron. Impeller and volute shell coated with rubber suitable for pumping mud



Pump Size	A	B	C	D	U	Key Size	E	G	H	J	K	L	M	Approximate mass (kg)	
	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	metal	rubber
6/4 DAH	1028	492	364	330	65	18X11	150	406	229	338	12	-	228	660	420
6/4 EAH	1188	622	448	457	80	22X14	220	406	229	338	139	-	228	810	620
6/4 EEAHP	1240	622	448	457	85	22X14	222	435	229	460	49	-	230	1110	980
8/6 EAH	1318	622	448	457	80	22X14	222	551	318	460	-	62	232	1510	980
8/6 FAH	1518	857	635	610	100	28X16	279	551	318	460	91	-	304	1650	1160
8/6 FFAHPP	1569	857	635	610	120	32X18	290	615	318	615	16	-	304	2920	2480
10/8 FAH	1650	990	705	610	100	28X16	279	667	419	635	-	12	334	2650	1970
10/8 STAH	1753	1150	780	650	120	32X18	280	667	419	635	28	-	334	3450	3210
10/8 STAHP	1755	1150	780	650	120	32X18	280	760	419	735	-	69	334	5020	4530
10/8TAHPP	2136	1150	1040	650	150	36X20	350	760	419	735	-	70	334	5850	5150
12/10 FAH	1721	990	705	610	100	28X16	279	749	464	673	-	104	381	4080	3040
12/10 STAH	1827	1150	780	650	120	32X18	280	749	464	673	-	64	381	4470	3730
12/10 TAH	2204	1150	1040	650	150	36X20	350	749	464	673	-	64	381	5200	4570
*12/10 TAHP	2190	1150	1040	650	150	36X20	350	950	464	800	-	130	382	7520	6800
*12/10 TAHPP	2242	1150	1040	650	150	36X20	350	950	464	800	-	119	420	8280	7050
14/12 FAH	1777	990	705	610	100	28X16	279	944	629	832	-	264	406	5900	4180
14/12 STAH	1879	1150	780	650	120	32X18	280	944	629	832	-	224	406	5490	4870
*14/12TAHPP	2336	1150	1040	650	150	36X20	350	1100	629	930	-	248	485	12020	10500
16/14 TUAH	2320	1460	1050	900	150	36X20	350	1048	660	889	-	84	451	10560	7860
*16/14TUAHPP	2424	1460	1050	900	150	36X20	350	1300	660	1035	-	140	540	16280	14470





# MOBILE CRUSHER



## Mobile Crusher

Mobile crushers are built in a way that has a standard chassis and durable European axles that cause minimal wear and tear to the machine with each move.

Mobile crushers are used for short-term or long-term projects that require moving.

Mobile crushers are generally a combination of jaw crushers, impact crushers, hammer crushers, cone crushers, screens, feeders, conveyors, and control systems.

These equipments are mounted on a chassis (frame) and usually move on chains or wheels. The incoming rocks are fed into the crusher by a feeder and after being crushed and screened, the product is produced. This product itself can be used as a raw material for another machine and crushed again. The mobile crusher allows the mineral to be crushed directly at the desired location.





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## **VACCUM FILTER DISK**

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## Vaccum Filter Disk

Vacuum disc filter is one of the most common types of filters and consists of a large hollow cylinder with filtration discs on its surface and rotating around a horizontal axis. Part of the disc is located in a slurry tank and the slurry liquid is separated from the filter medium using the vacuum created inside the cylinder.

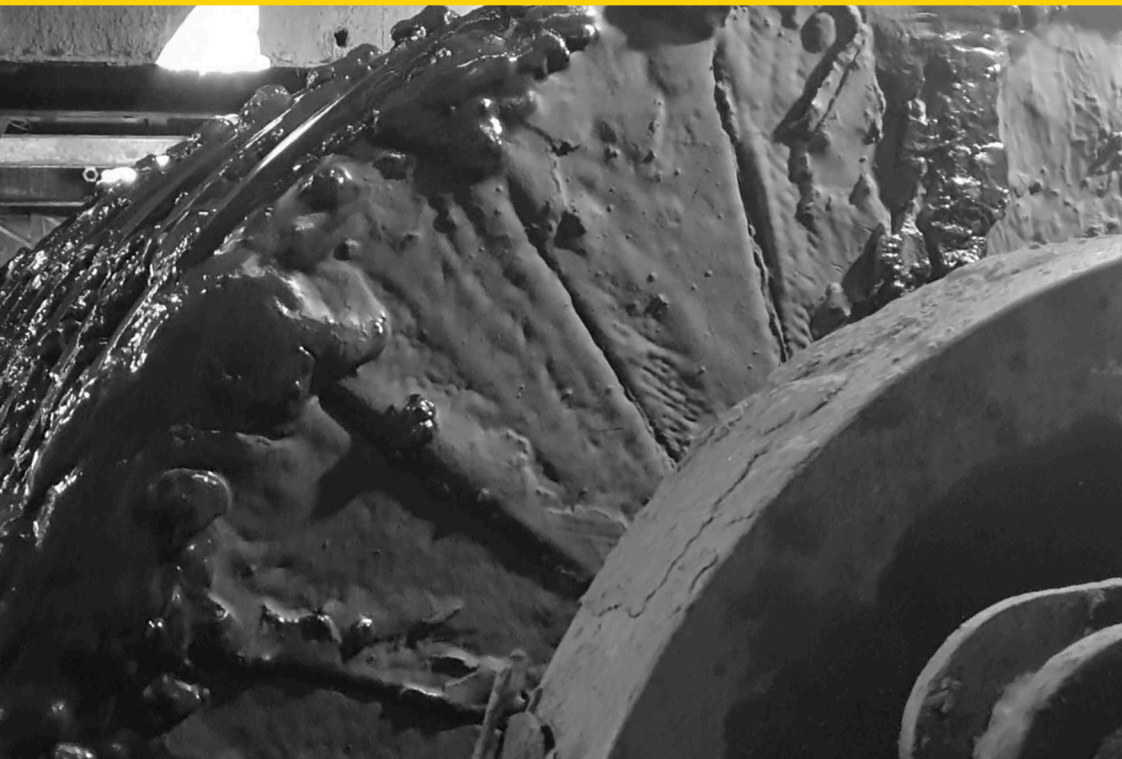
For separation on the discs, this process can be done by blowing into the disc or in another way by spraying water at high pressure. Also, a slow and adjustable agitator operates to homogenize the solids in the pulp.

### **Applications of vacuum disc filter:**

Mining industries, chemical industries, food industries

Pharmaceutical industries

Effluents and wastes from mining and chemical industries







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## **VACCUM DRUM FILTER**

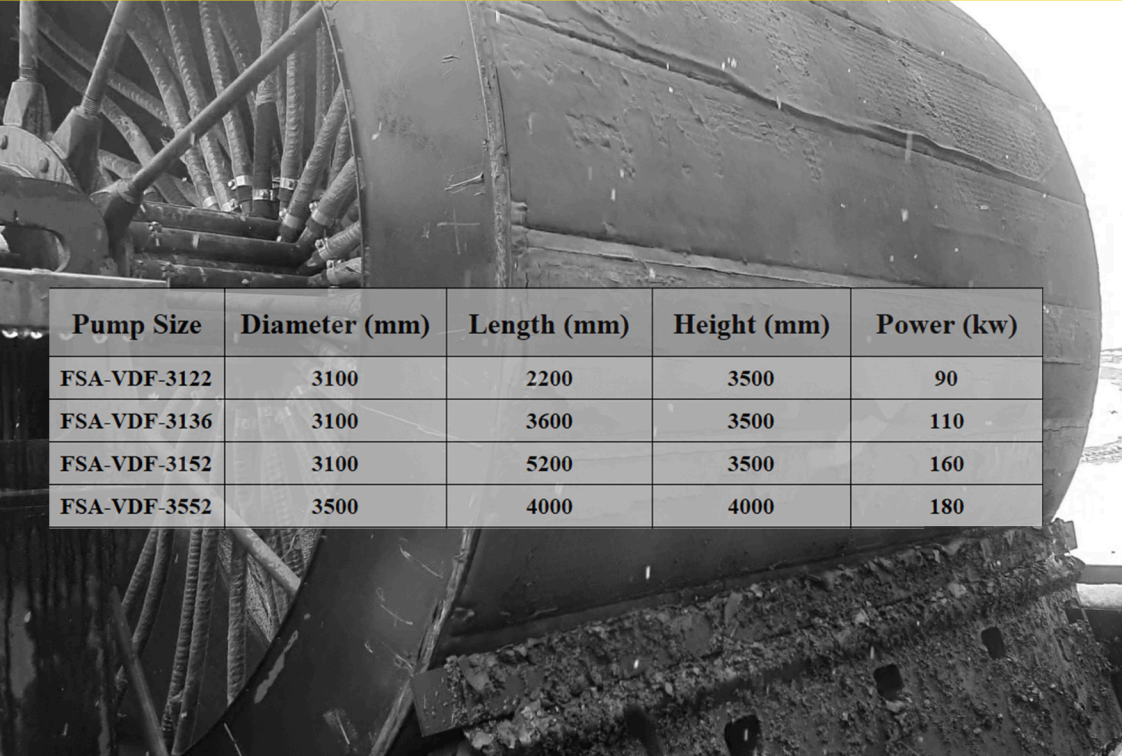
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# Vaccum Drum Filter

The drum vacuum filter, or drum filter, is a continuous filter device. This device is considered one of the most advanced filtration devices and is used in various industries. The drum vacuum filter has a larger capacity compared to the filter press device and offers much more powerful performance. This device offers the best performance compared to other filtration devices. Because it operates continuously, it automatically discharges the materials.

## Applications of the drum vacuum filter:

- Pharmaceuticals
- Food
- Mining industries
- Wastewater treatment
- Laboratories



Pump Size	Diameter (mm)	Length (mm)	Height (mm)	Power (kw)
FSA-VDF-3122	3100	2200	3500	90
FSA-VDF-3136	3100	3600	3500	110
FSA-VDF-3152	3100	5200	3500	160
FSA-VDF-3552	3500	4000	4000	180






## Almanabadi Mineral Holding



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ارومیه، شهرک صنعتی فاز ۲، خیابان صنعتگران ۲