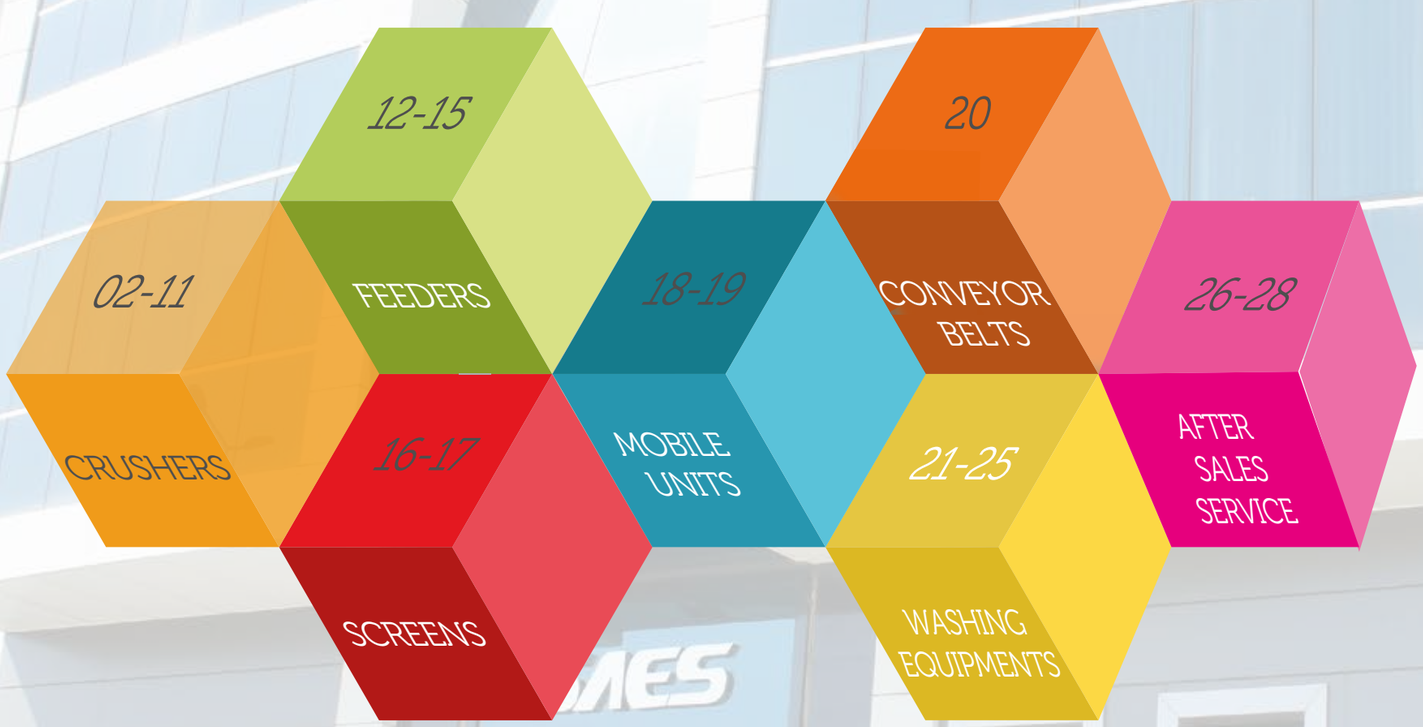
SAES



ABOUT US

Since its founding in 1992, SAES has developed into a global enterprise, with a multifaceted expertise in the field of crushing & screening plants. The business philosophy has been largely the same through the years: SAES shall be the leader in his sector. Products are based on modern technology, quality material and are developed in close cooperation with customers. Quality is the guiding principle in the global operations.

Whether you need a single crusher, a multi-stage process or a complete plant, we prepare the right design based on your needs.

OUR SERVICES

- Preparing of flow sheet and processing plan according to customer demands
- Manufacturing of machines based on flow sheet and processing plan
- Preparing foundation plan and electric plans
- Preparing of all technical data sheets and service manuals
- Turn-key plant installation
- Technical service support
- Production of spare parts.

JAW CRUSHERS

SAES Jaw Crushers are manufactured as heavy duty type for the purpose of crushing all types of material, regardless of its rigidity or abrasivity, with the minimum cost per ton.

General Specifitions

- Vee-Belt drive system
- Crusher jaws manufactured from custom made cast high manganese steel with a high level of wear resistance
- Eccentric shaft manufactured from Cr, Ni, Mo alloyed forget steel
- Adjustable jaw opening with hydraulic setting
- Utilizing toggle plates for safety purposes in case of overloading
- The surfaces which exposed to abrasion are coated with lining plate.

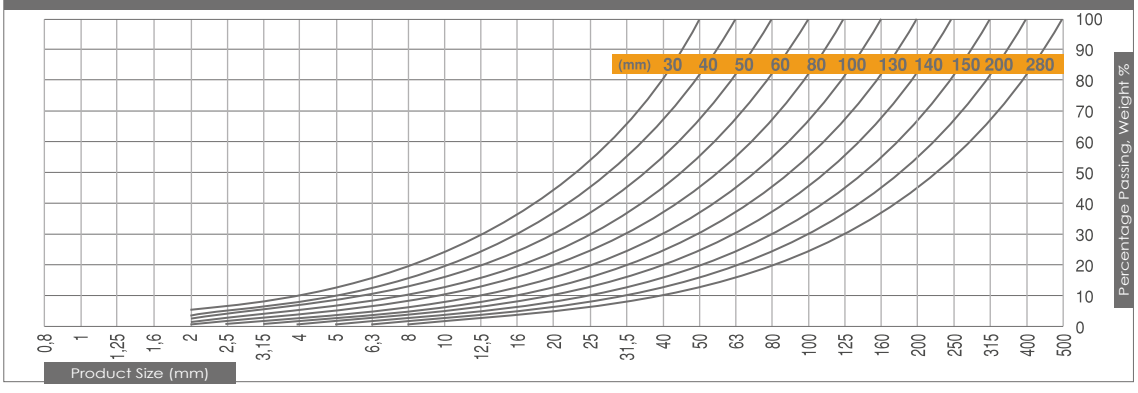
Optional Specifitions

- Automatic grease lubrication system with PLC control.

Jaw Crusher Models and Technical Specifications

Model	Unit	C40	C60	C90	C110	C125	C140	C150
Feed Opening Width	(mm)	400	600	900	1.100	1.250	1.300	1.400
Feed Opening Debth	(mm)	250	380	650	850	1.000	1.100	1.200
Length of Jaw	(mm)	640	1.000	1.200	1.800	2.150	2.450	2.480
Max. Feed Size	(mm)	210	320	550	720	850	935	1.020
Power	(kW)	15	30	75	132	160	185	200
Speed	(rpm)	360	340	300	230	220	220	220
C.S.S. Min. Max.	(mm)	20-80	30-100	50-150	80-200	100-250	120-280	130-280
Max. Capacity	(mm)	40	80	180	290	430	600	700

Product Distribution Curve



JAW CRUSHERS

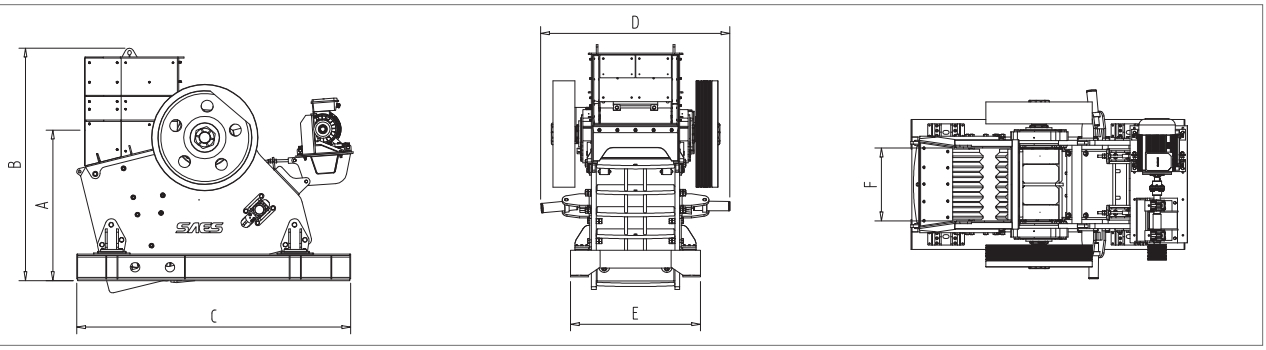
Capacity Table (tph)

C.S.S.	Product Size	C40	C60	C90	C110	C125	C140	C150
50 mm	0-75 mm	40	60	90				
60 mm	0-90 mm	50	70	110				
80 mm	0-120 mm	60	90	140	190			
100 mm	0-150 mm		110	180	240	300		
125 mm	0-190 mm			220	290	360	390	420
150 mm	0-220 mm			270	340	430	460	490
200 mm	0-300 mm				420	550	595	640
240 mm	0-360 mm					650	700	750
280 mm	0-420 mm						790	850

Jaw Crusher Overall Dimensions

C.S.S	Unit	A	B	C	D	E	F
C40	(mm)	880	835	1.295	1.100	800	450
C60	(mm)	1.100	1.040	1.480	1.800	950	660
C90	(mm)	1.700	2.470	1.930	2.050	1.450	970
C110	(mm)	2.330	2.670	3.380	2.750	2.045	1.150
C125	(mm)	2.550	3.930	4.630	3.200	2.200	1.230
C140	(mm)	3.500	4.800	4.530	3.250	2.040	1.320
C150	(mm)	2.630	4.150	4.530	3.380	2.380	1.400

Jaw Crusher Technical Drawing



PRIMARY IMPACT CRUSHERS

SAES Primary Impact Crushers provide a high level of reduction ratio, lower the secondary crushing requirement and help to push the plant capacity to its maximum level while processing materials with moderate or low abrasiveness.

General Specifitions

- Vee-Belt drive system
- Custom made rotor
- Wear surfaces are protected by solid-filler electrode welding
- Hammers and roof crushing plates are manufactured from high manganese steel casting
- Inner surfaces of the crusher is coated with wear resistant lining plates
- Wide intake with chain curtain due to protection from back-leaping
- Hydraulic setting system
- Chassis manufactured from steel shape
- Electric motor with high performance and low voltage
- Heavy duty type bearings.

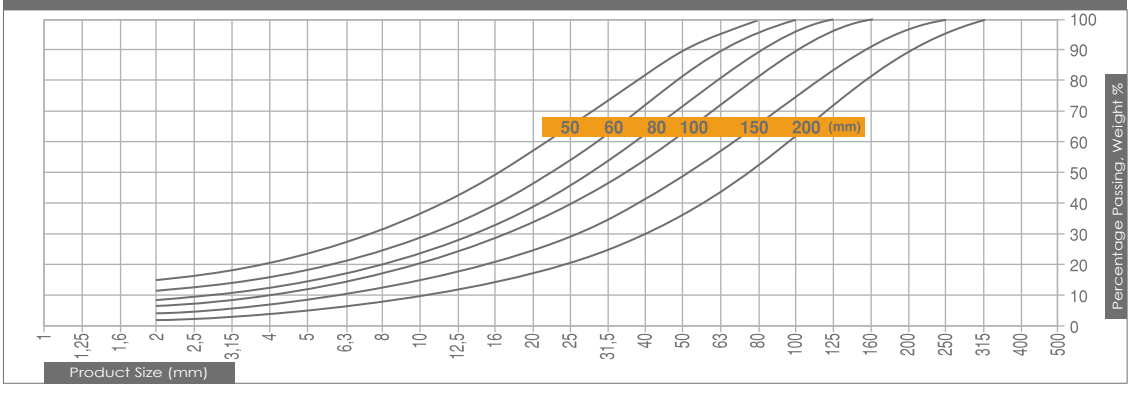
Optional Specifitions

- Automatic grease lubrication system with PLC control.
- Frequency converter.

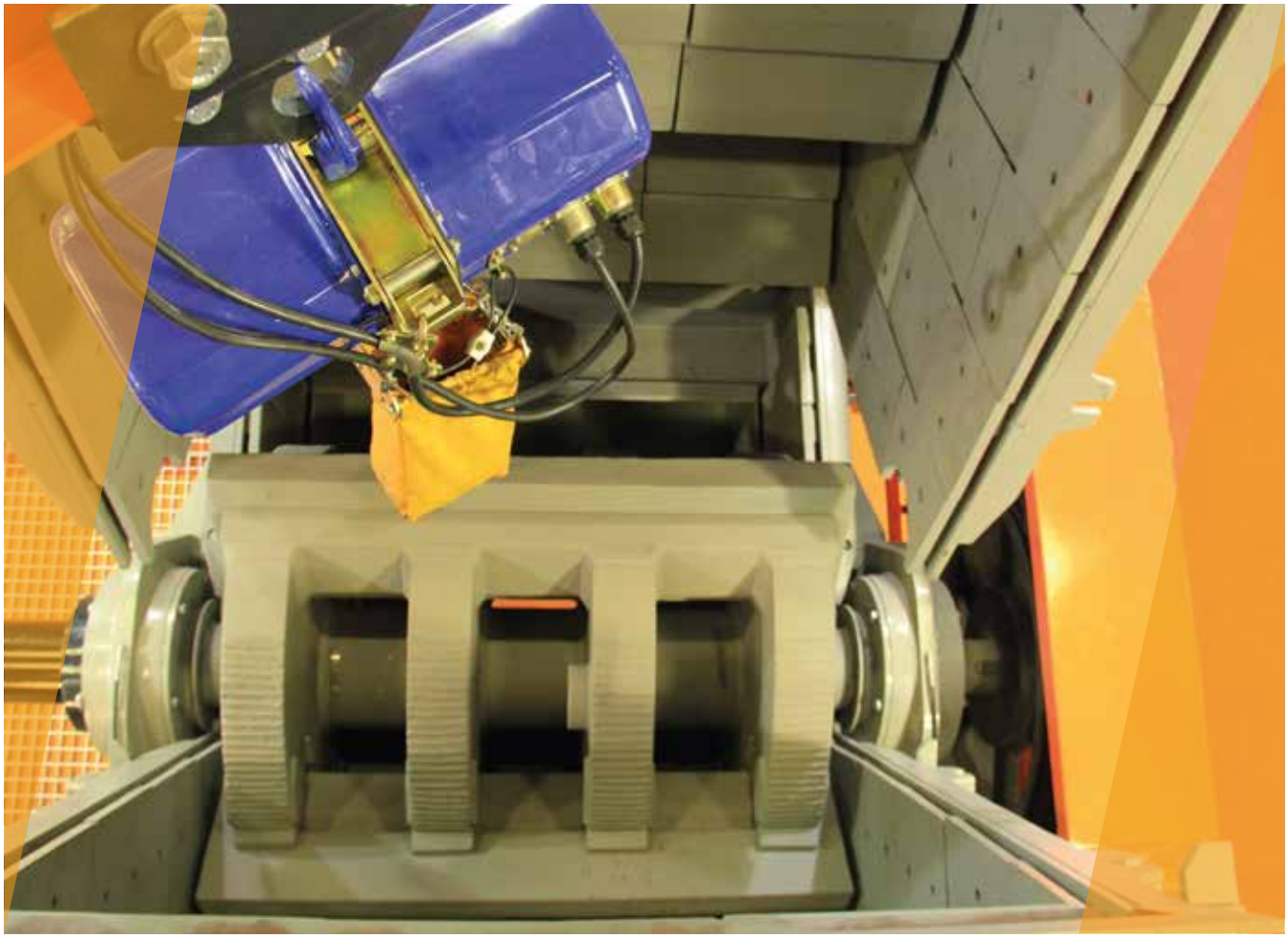
Primary Impact Crusher Models and Technical Specifications

Model	Unit	P1210	P1313	P1415	P1520
Rotor Dia. x Width	(mm)	Ø1.200x1.000	Ø1.300x1.300	Ø1.400x1.500	Ø1.500x2.000
Feed Opening	(mm)	1.050x1.050	1.300x1.200	1.500x1.300	2.000x1.500
Max. Feed Size	(mm)	700	900	1000	1200
Max. Speed	(rpm)	600	550	500	400
Power	(kW)	160	200	250	2x200
Hammers	(qty)	4	4	4	4
Breaker Plates	(qty)	20	20	20	24
Capacity	(tph)	250	400	600	800

Product Distribution Curve



PRIMARY IMPACT CRUSHERS



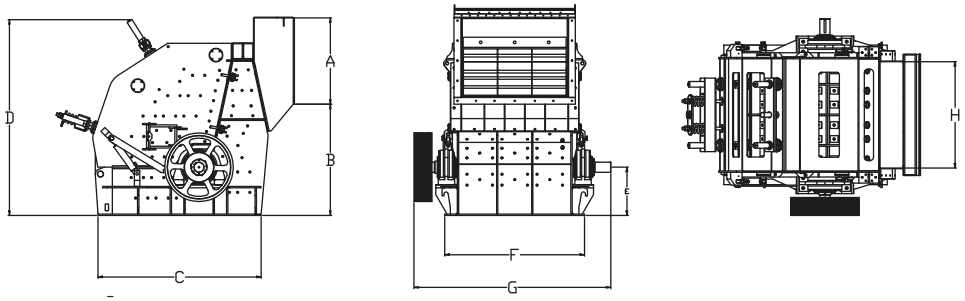
Capacity Table (tph)

Feed Size	P1210	P1313	P1415	P1520
0-100 mm	210	300	400	550
0-150 mm	280	400	500	700
0-200 mm	315	450	600	800
0-250 mm	350	500	650	900

Primary Impact Crusher Overall Dimensions

Model	Unit	A	B	C	D	E	F	G	H
P1210	(mm)	890	1.220	2.200	2.660	610	1.500	2.235	1.050
P1313	(mm)	945	1.605	2.690	3.130	700	1.910	2.890	1.370
P1415	(mm)	980	1.340	2.400	2.880	710	2.060	2.890	1.550
P1520	(mm)	675	1.910	2.560	2.385	790	2.580	3.460	2.020

Primary Impact Crusher Technical Drawing



SECONDARY IMPACT CRUSHERS

SAES Secondary Impact Crushers are designed for reducing wear costs while increasing capacity and the amount of cubic product. Furthermore, these machines have a high level of durability, and this provides reducing maintenance duration and time. In addition on the specifications of classical impact crushers, these machines provides ease in setting by hydraulic system, protection against overloading and advantages during maintenance process with covers opening with hydraulic sleeves

General Specifitions

- Vee-Belt drive system
- Custom made rotor
- Wear surfaces are protected by solid-filler electrode welding
- Hammers and roof crushing plates are manufactured from high manganese steel casting
- Inner surfaces of the crusher is coated with wear resistant lining plates
- Hydraulic setting system
- Chassis manufactured from steel shape
- Electric motor with high performance and low voltage
- Heavy duty type bearings.

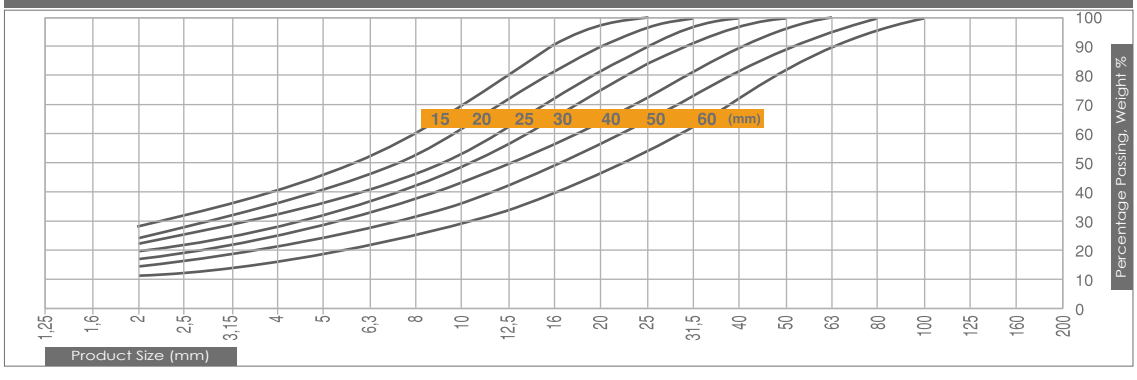
Optional Specifitions

- Automatic grease lubrication system with PLC control.
- Frequency converter.

Secondary Impact Crusher Models and Technical Specifications

Model	Unit	S1210	S1313	S1315	S1420
Rotor Dia. x Width	(mm)	Ø1.200x1.000	Ø1.300x1.300	Ø1.300x1.500	Ø1.400x2.000
Feed Opening	(mm)	1.000x800	1.300x500	1.500x900	2.000x500
Max. Feed Size	(mm)	600	400	600	400
Max. Speed	(rpm)	650	600	600	550
Power	(kW)	185	250	315	355
Hammers	(qty)	4	8	8	12
Breaker Plates	(qty)	20	24	20	36
Capacity	(tph)	160	250	350	450

Product Distribution Curve



SECONDARY IMPACT CRUSHERS

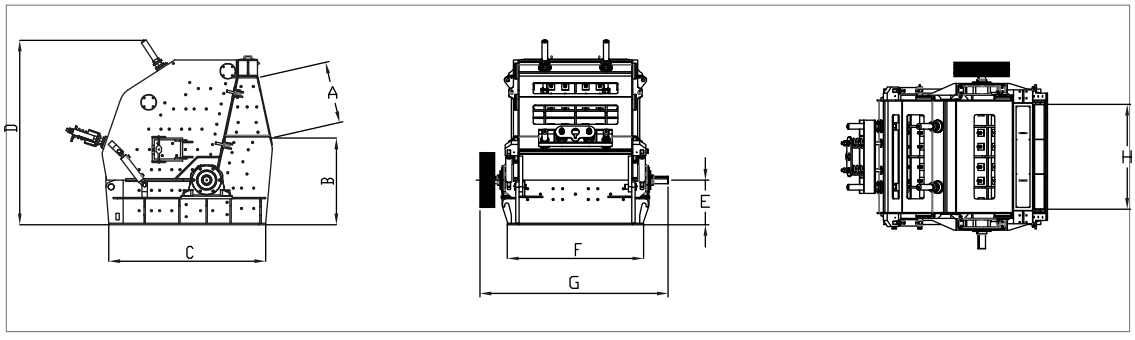
Capacity Table (tph)

Feed Size	Product Size	S1210	S1313	S1315	S1420
200 mm	0-20 mm	150	200	250	350
	0-40 mm	250	300	350	600
400 mm	0-40 mm	150	200	250	400
	0-60 mm	200	250	350	500

Primary Impact Crusher Overall Dimensions

Model	Unit	A	B	C	D	E	F	G	H
S1210	(mm)	1.000	1.290	2.200	2.750	610	1.500	2.230	1.050
S1313	(mm)	760	1.920	2.690	3.080	700	1.890	2.440	1.340
S1315	(mm)	1040	1.370	2.300	2.735	670	2.000	2.755	1.540
S1420	(mm)	790	1.725	2.690	3.080	700	2.530	3.440	2.020

Secondary Impact Crusher Technical Drawing



TERTIARY IMPACT CRUSHERS

SAES Tertiary Impact Crushers are used to produce 0-5 mm sand type material as Tertiary and Secondary crushers. SAES Tertiary Impact Crushers, with have low initial investment costs, have a low filler ratio and wear and a high obtaining ratio for sand owing to the special design of impact plates and high speed rotor.

General Specifitions

- Vee-Belt drive system
- Custom made rotor
- Wear surfaces are protected by solid-filler electrode welding
- Hammers and roof crushing plates are manufactured from high manganese steel casting
- Inner surfaces of the crusher is coated with wear resistant lining plates
- Hydraulic setting system
- Chassis manufactured from steel shape
- Electric motor with high performance and low voltage
- Heavy duty type bearings.

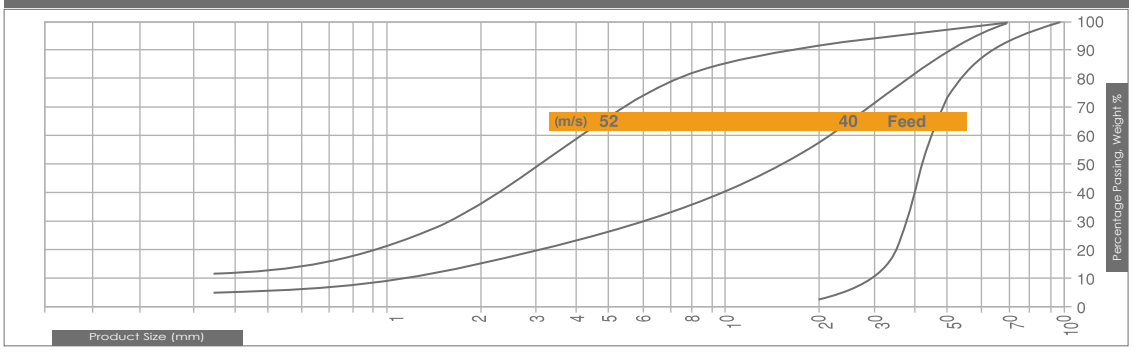
Optional Specifitions

- Automatic grease lubrication system with PLC control
- Frequency conventer

Tertiary Impact Crusher Models and Technical Specifications

Model	Unit	T1210	T1313	T1315
Rotor Dia. x Width	(mm)	Ø1.200x1.000	Ø1.300x1.300	Ø1.300x1.500
Feed Opening	(mm)	1.000x500	1.300x500	1.500x500
Max. Feed Size	(mm)	200	200	200
Max. Speed	(rpm)	750	700	700
Power	(kW)	200-250	315	355
Hammers	(qty)	3-4	6-8	6-8
Breaker Plates	(qty)	24	24	24
Capacity	(tph)	110	180	240

Product Distribution Curve



TERTIARY IMPACT CRUSHERS

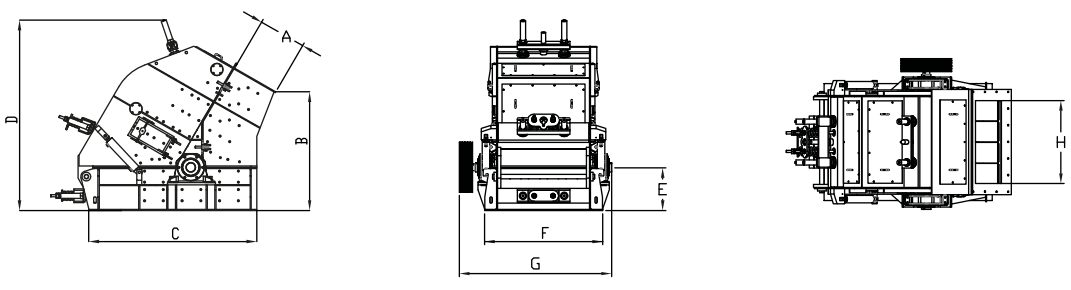
Capacity Table (tph)

Feed Size	Product Size	T1210		T1313	T1315
		185 kW	250 kW		
60 mm	0-10 mm	140	170	240	300
	0-20 mm	170	200	280	380
100 mm	0-10 mm	120	150	210	270
	0-20 mm	140	180	250	330

Primary Impact Crusher Overall Dimensions

Model	Unit	A	B	C	D	E	F	G	H
T1210	(mm)	1.000	1.290	2.200	2.750	610	1.500	2.230	1.050
T1313	(mm)	760	1.920	2.690	3.080	700	1.890	2.440	1.340
T1315	(mm)	1040	1.370	2.300	2.725	660	2.000	2.755	1.540

Tertiary Impact Crusher Technical Drawing



VERTICAL SHAFT IMPACT CRUSHERS

Working principle of SAES Vertical Shaft Impact crushers is based on clashing the rock to another. These machines can easily be used to process materials with high abrasivity like sand gravel, andesite, basalt and granite. The cubicity ratio of the product is superior.

General Specifitions

- Vee-Belt drive system
- Rotor and crushing chute with stress relieved welding
- Wear surfaces are protected by solid-filler electrode welding
- Inner surfaces of the crusher is coated with wear resistant lining plates
- Hydraulic setting system
- Chassis manufactured from steel shape
- Electric motor with high performance and low voltage
- Heavy duty type bearings.

Optional Specifitions

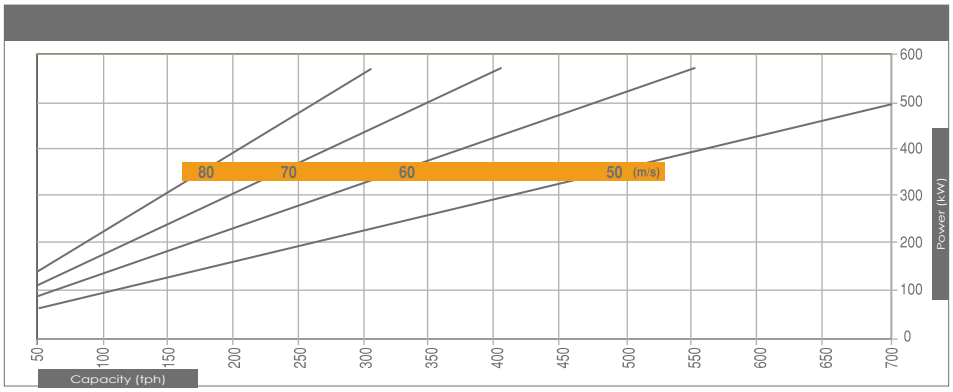
- Automatic grease lubrication system with PLC control
- Frequency converter.

Vertical Shaft Impact Crusher Models and Technical Specifications			
Model	Unit	V800 CR	V950 CR
Max. Feed Size	(mm)	45	50
Max. Speed	(rpm)	2.000	1.800
Power	(kW)	160-400	315-630
Max. Capacity	(tph)	550	750
Weight	(kg)	12.500	15.000

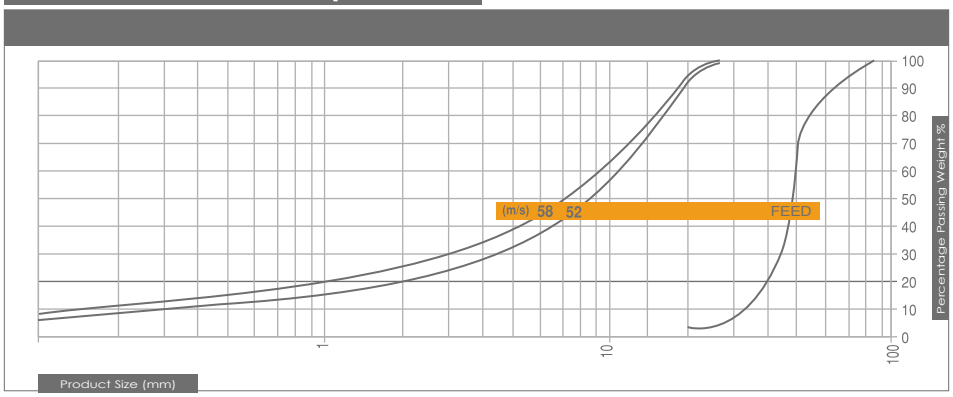
Capacity Table (tph)		
Power	V800 CR	V950 CR
132 kW	150	
160 kW	180	
185 kW	210	
200 kW	230	
250 kW	285	290
2x160 kW	365	380
2x185 kW		440
2x200 kW		475
2x250 kW		590
2x315 kW		750

VERTICAL SHAFT IMPACT CRUSHERS

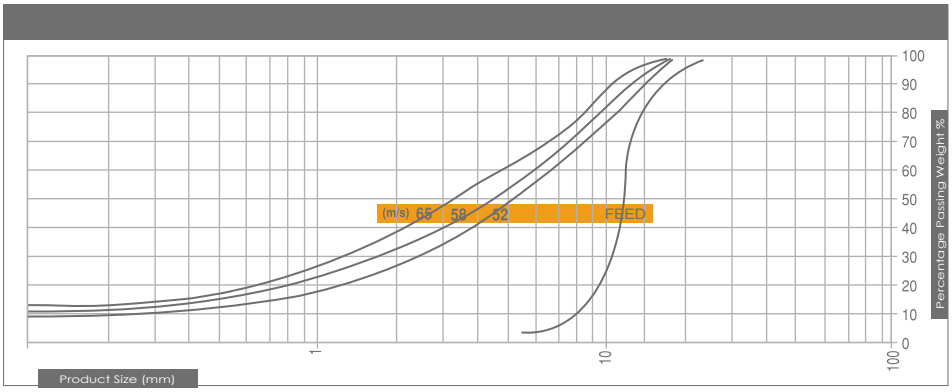
Capacity Power Curve (tph)



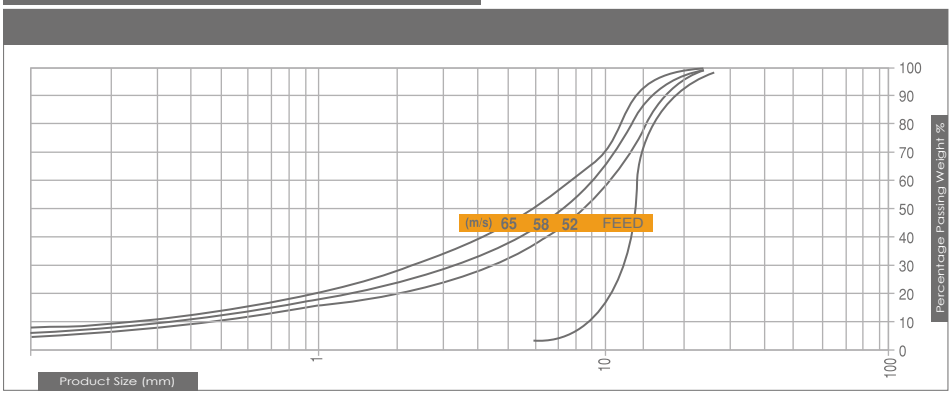
Product Distribution Curve (Open Rotor, OR)



Product Distribution Curve (Limestone)



Product Distribution Curve (Sand Gravel)



VIBRATING GRIZZLY FEEDERS

SAES Vibrating Grizzly Feeders are designed with several dimensions with solid body structure, side plates with wear resistance and low operational costs for all type of material which have different levels of rigidity and abrasivity due to provide the optimal feeding system according to the capacity and the structure of the material.

General Specifitions

- Screen body with bolted construction
- Grizzly bars are adjustable in the range of 50 – 150 mm with bolts
- Heavy duty type spiral springs for bounding the screen to the chassis
- Adjustable vibration amplitude
- Chutes covered with wear resistant linings
- Chassis manufactured from steel shape
- Maintenance platform
- Vibration motor with high centrifugal force.

Optional Specifitions

- Washing spray over the screen
- Chute with valve.

Vibrating Grizzly Feeders Models and Technical Specifications

Model	Unit	B70	B100	B110	B125	B130	B140	B160
Width	(mm)	700	1.000	1.100	1.250	1.300	1.400	1.600
Length	(mm)	3.000	3.750	4.750	5.000	6.000	6.000	6.000
Power	(kW)	7,5	2 x 7	2 x 7,6	2 x 9,6	2 x 11	2 x 18,5	2 x 18,5
Max. Feed Size	(mm)	550	750	750	1.000	1.100	1.200	1.500
Max. Capacity	(tph)	100	350	400	600	600	900	1.200

WOBBLER FEEDERS

SAES Wobbler feeder with its elliptic bars and unique movement mechanism, can work easily with adhesive, wet and large material. With its self-cleaning system it prevents clogging problem.

General Specifitions

- It can work with muddy and dirty material without adhesions or clogging
- Adjustable feed rate.
- Occupy little space and low height.
- It can work without dust, no vibrating and less noise.
- Lower power consumption.
- Maintenance rate and cost is low

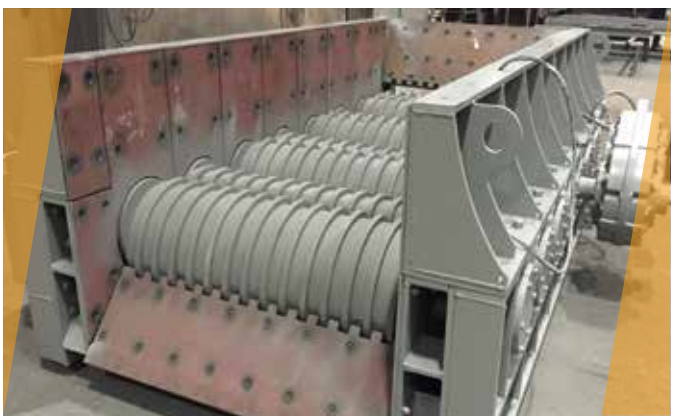
Optional Specifitions

- Automatic grease lubrication system with PLC control
- Frequency converter.

Wobbler Feeders Technical Specifications

Width (mm)	1.000 to 2.200 mm
Length (mm)	2.000 to 6.000 mm
Power	11 to 45 kW
Number Of Bars	5 to 9 Each Level
Roller Shape	Elliptical
Gap Range	25 to 150 mm
Max. Fide Size	50 to 1.500 mm
Transmission Type	Chain
Capacity	200 to 1.500 tph

* Given capacities are for medium hard limestone (bulk density 1.6 t/m³)



APRON FEEDERS

SAES Apron feeders with its simple design and robust body are convenient feeders for feeding sticky, dirty, wet and abrasive materials. They feed the material by steel plates fastened to sets of special chains system.

General Specifitions

- Simple drive system
- Durable robust design
- Feeding for sticky, moist and dirty material
- Frequency adjustment of capacity convertor
- Low operating costs
- Easy and less frequent need for maintenance

Apron Feeders Technical Specifications	
Width (mm)	1.000 to 2.500 mm
Length (mm)	3.000 to 15.000 mm
Power	11 to 75 kW
Max. Feed Size	50 to 1500
Transmission Type	Chain
Capacity	Up to 2.000 tph

* Given capacities are for medium hard limestone (bulk density 1.6 t/m³)

PUSH FEEDERS

SAES push feeders are used for feeding materials adhesive to bunker such as stream materials to crushers. The feeders table moves back and forward linearly. A certain amount of material is discharged from bunkerto table with the forward movement of the table, and this material is discharged to the equipment in front with the backward movement. The capacity is comparative with stroke and frequency of this forward-backward movement.

General Specifitions

- Feature of feeding adhesive, humid materials
- Simple design
- Compatible to abrasive materials
- Easy and maintenance

Push Feeders Technical Specifications

Width (mm)	1.000 to 2.200 mm
Length (mm)	5.000 to 7.000 mm
Power	22 to 132 kW
Max. Feed Size	50 to 1500
Transmission Type	Hydraulically Mechanical
Capacity	Up to 1.500 tph

* Given capacities are for medium hard limestone (bulk density 1.6 t/m³)

INCLINED VIBRATING SCREENS

SAES Inclined Vibrating Screens are highly preferable vibration screens for the purpose of screening all types of material owing to its durable and simple design..

General Specifitions

- Screen body with bolted construction
- V-Belt and cardan joint shaft drive system
- Motor protecting housing
- Double row, heavy duty, hinged measured bearings used for the bearing housing
- Oil lubricated bedding system
- Heavy duty type spiral springs for bounding the screen to the chassis
- Adjustable vibration amplitude
- Chutes covered with wear resistant linings
- Custom made wire tensioning system decreasing wire changing over time
- Chassis manufactured from steel shape
- Maintenance platform.

General Specifications Advantages

- Washing spray over the screen
- Chute with valve

Inclined Vibrating Screen Models and Technical Specifications

Model	Unit	E1240	E1640	E1845	E1860	E2060	E2260	E2560	E2472
Width	(mm)	1.200	1.600	1.800	1.800	2.000	2.200	2.500	2.400
Length	(mm)	4.000	4.000	4.500	6.000	6.000	6.000	6.000	7.200
Surface	(m2)	4,8	6,4	8,1	10,8	12	13,5	15	17,3
Decks		2-3-4	2-3-4	2-3-4	2-3-4	2-3-4	2-3-4	2-3-4	2-3-4
Power	(kW)	7,5-11	11-15	15-22	22	22	30	30-44	2x22
Max. Feed Size	(mm)	200	200	200	200	200	200	200	200
Max. Seperation	(mm)	70	70	70	70	70	70	70	70
Max. Tonnage	(tph)	200	300	400	500	700	800	900	1.000
Vibration Type		Circular Motion							
Acceleration	(G)	3<G<5							
Weight	(kg)	5.000	8.000	10.500	12.500	14.000	15.000	20.000	23.000

VIBRATING GRIZZLY SCREENS

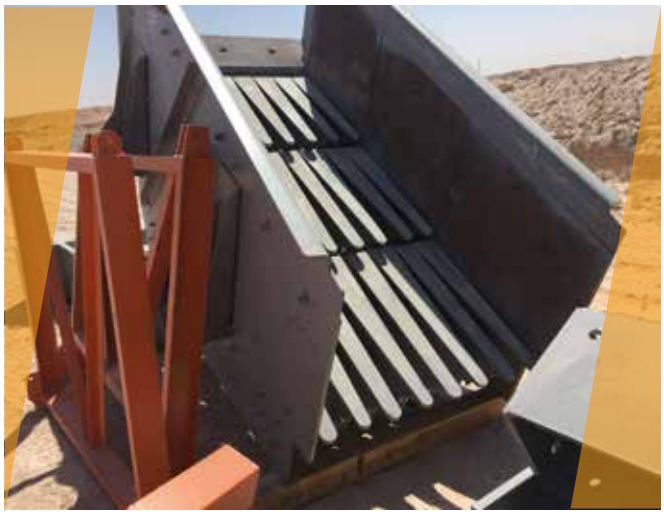
SAES Vibrating Grizzly Screens, equipped with vibromotors, provide segregation of the material with desired dimensions before the crusher owing to the solid body construction and adjustable grates.

General Specifitions

- Screen body with bolted construction
- Grizzly bars are adjustable in the range of 50 – 150 mm with bolts
- Heavy duty type spiral springs for bounding the screen to the chassis
- Adjustable vibration amplitude
- Chutes covered with wear resistant linings
- Chassis manufactured from steel shape
- Maintenance platform
- Vibration motor with high centrifugal force.

Optional Specifitions

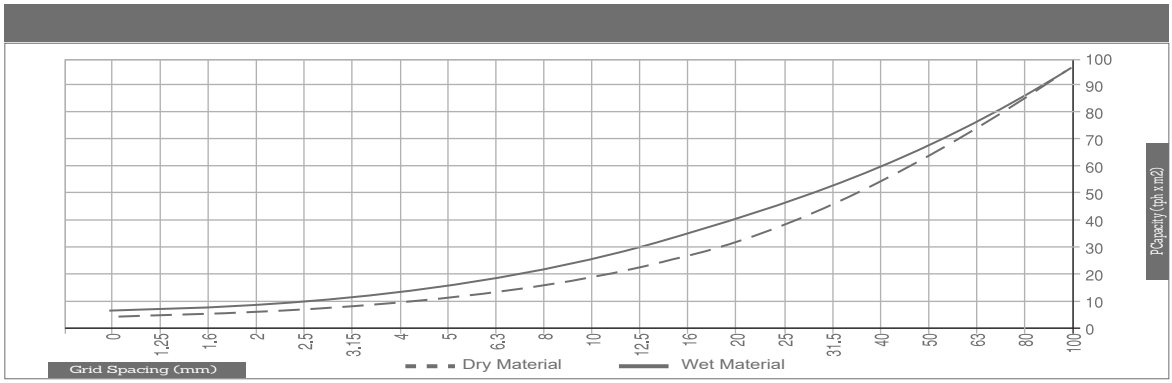
- Washing spray over the screen
- Chute with valve



EG Series Grizzly Scalper Models and Technical Specifications

Model	Unit	EG1000	EG1200	EG1500
Width	(mm)	1.000	1.200	1.500
Length	(mm)	2.500	3.000	4.000
Surface	(m2)	2,5	3,6	6
Power	(kW)	15	18,5	22
Max. Feed Size	(mm)	800	1.000	1.200
Max. Capacity	(tph)	500	600	900

Product Distribution Curve



MOBILE UNITS

SAES Mobile Units are designed and manufactured as heavy duty type similar to stationary units. They are designed for minimizing initial investment cost owing to the ease in transportation, assembly and disassembly process.

Mobile Jaw Crusher Units and Technical Specifications

Model	Unit	UC60	UC90	UC110	UC125
Feeder Model		B70	B100	B110	B125
Feeder Dimensions	(mm)	700 x 3.000	1.000 x 3.750	1.120 x 4.900	1.200 x 4.000
Crusher Model		C60	C90	C110	C125
Feed Opening	(mm)	600 x 380	900 x 650	1.100 x 850	1.250 x 1.000
Discharge Belt	(mm)	600 x 10.000	750 x 11.500	1.000 x 4.500	1.000 x 6.000
Capacity	(tph)	80	180	290	430
Power	(kW)	50	100	150	180
Transport Dimensions					
Length	(mm)	10.000	11.000	12.800	13.000
Width	(mm)	2.500	2.800	3.100	3.300
Height	(mm)	3.300	3.600	4.200	4.400
Weight	(kg)	24.000	36.000	70.000	85.000

Mobile Primary Impact Crushers Technical Specifications

Model	Unit	UP1313	UP1415
Feeder Model		B110	B125
Feeder Dimensions	(mm)	1.120x4.900	1.250x5.000
Crusher Model		P1313	P1415
Feed Opening	(mm)	1.300x1.200	1.500x1.300
Rotor Dimensions	(mm)	Ø1.300x1.300	Ø1.400x1.500
Discharge Belt		1.000x4.500	1.000x5.000
Capacity	(mm)	350	550
Power	(kW)	220	340
Transport Dimensions			
Length	(mm)	12.000	12.000
Width	(mm)	2.800	3.100
Height	(mm)	4.400	4.400
Weight	(kg)	55.000	65.000

MOBILE UNITS

Mobile Secondary Impact Crushers Technical Specifications					
Model	Unit	US1210	US1313	US1315	US1420
Crusher Model		S1210	S1313	S1315	S1420
Feed Opening	(mm)	1.000x800	1.300x500	1.500x900	2.000x500
Rotor Dimensions	(mm)	Ø1.200x1.000	Ø1.300x1.300	Ø1.300x1.500	Ø1.400x2.000
Capacity	(tph)	160	250	350	450
Power	(kW)	185	250	315	355
Transport Dimensions					
Length	(mm)	8.000	8.000	8.000	8.000
Width	(mm)	2.400	2.700	3.100	3.600
Height	(mm)	4.400	4.400	4.400	4.400
Weight	(kg)	20.000	25.000	29.000	36.000

Mobile Vibrating Screens Technical Specifications						
Model	Unit	UE1650	UE1660	UE2050	UE2060	UE2260
Screen Model		E1650	E1660	E2050	E2060	E2260
Screen Width	(mm)	1.600	1.600	2.000	2.000	2.200
Screen Length	(mm)	5.000	6.000	5.000	6.000	6.000
Capacity	(tph)	400	500	600	700	800
Power	(kW)	15	15	22	22	30
Transport Dimensions						
Length	(mm)	10.000	11.000	11.000	11.000	11.000
Width	(mm)	3.300	3.300	3.500	3.500	3.700
Height	(mm)	4.200	4.200	4.200	4.200	4.200
Weight	(kg)	14.000	15.000	18.000	20.000	23.500

CONVEYOR BELTS

SAES Belt Conveyor units are manufactured as mobile or stationary at required length and width as long as not exceeding the theoretical limits.

General Specifitions

- Motion transmittal system with reducer
- Belt cleaners
- Elastic bands
- Electric motor with high performance and low voltage
- Monoblock-body reducer
- One sided walk way (excluding stocking and discharge conveyors)

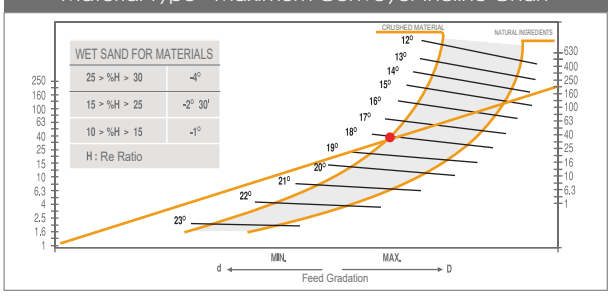
Optional Specifitions

- Automatic grease lubrication system with PLC control
- Corded switch and tachometer, belt covering
- Weighing machine, belt slip switch

Conveyor Overall Dimensions						Conveyor Width (mm)					
Model	Model	Number of Times	Bottom (mm)	Top (mm)	Band Thickness	600	650	750	800	1.000	1.200
EP 250	EP 250	2		2	8,5	•	•	•	•	•	
	EP 70	3	3	2	8,0	•	•	•	•	•	
EP 315	EP 160	2	4	2	9,0	•	•	•	•	•	
	EP 100	3	3	2	8,0	•	•	•	•	•	
	EP 70	4	4	2	10,0	•	•	•	•	•	
EP 400	EP 200	2	4	2	9,5				•	•	•
	EP 100	3	4	2	9,5				•	•	•
	EP 70	4	4	2	10,0				•	•	•
EP 500	EP 160	3	5	2	12,65				•	•	•
	EP 120	4	4	2	12,07				•	•	•
	EP 100	5	5	2	13,80				•	•	•

Conveyor Models and Technical Specifications		Conveyor Width (mm)					
Model	Unit	500	600/650	750/800	1000	1200	1400
Power	(kW)	3...15	4...15	4...30	5,5...44	7,5...60	11...60
Max. Feed Size	(mm)	100	150	200	300	350	400
Primary Material (V=1,5 m/s)	(tph)	120	200	400	750	1.100	1.600
Secondary Material (V=1,8 m/s)	(tph)	150	250	450	900	1.400	1.900
Fine Material (V=2,2 m/s)	(tph)	180	300	600	1.100	1.700	2.400

Material Type - Maximum Conveyor Incline Chart



SPIRAL CLASSFIERS

SAES Spiral Classifiers provide high performance with low power consumption. Owing to their simple design they have an ease in assembly process.

General Specifitions

- High performance
- Easy erection
- Low power consumption
- eplaceable plastic rubber coating

Optional Specifitions

- Frequency converter.

Spiral Classifier Models and Technical Specifications

Model	Unit	YH60	YH80	YH120	YH60-2	YH80-2	YH120-2
Type		Single Screw			Twin Screw		
Body Dimensions	(mm)	750x6.650x1.800	970x8.650x1.900	1.250x1.100x1.100	1.400x6.650x1.800	1.750x8.650x1.900	2.700x1.100x1.100
Spiral Dimensions	(mm)	Ø600x6.000	Ø800x8.000	Ø1.200x10.000	Ø600x6.000	Ø800x8.000	Ø1.200x10.000
Single Screw	(kW)	5,5	7,5	15	2x5,5	2x7,5	2x15
Twin Screw	(rpm)	24	22	15	24	22	15
Capacity	(tph)	30	40	150	60	80	300
Water Consumption	(m3/h)	30-110	35-125	102-375	55-205	65-230	65-230

BUCKET WHEELS

SAES Bucket Wheels provide advantage to the user with low power consumption and water saving. Owing to their simple design they have an ease in assembly process.

General Specifitions

- Simple constrictions
- Low water consumption
- Low power consumption
- Easy erection

Optional Specifitions

- Frequency converter.

Bucket Wheel Models and Technical Specifications			
Model	Unit	YK60	YK120
Wheel Diameter	(mm)	3.150	3.150
Wheel Width	(mm)	800	1.600
Area	(m^2)	5	10
Capacity	(tph)	60	120
Feed Size	(mm)	0-6	0-6
Power	(kW)	2,2	4
Speed	(rpm)	1,3	1,3
Water Consumption	(m3/h)	80	160
Weight	(kg)	4.000	4.600
Operating Weight	(kg)	12.000	14.000

SCRUBBERS

SAES Scrubbers are designed for the process of washing soil and stream sand and separating clay from sand grains and ejecting them with water by its rotational motion. They are accepted as highly effective machines for enabling to put the material into sort of a grinding process. It can provide high performance with their low power consumption used for washing sand gravel material directly.

General Specifitions

- Welding joint body
- Pneumatic tire wheel

Optional Specifitions

- Frequency converter.
- Inner steel lining
- Unlined liner wall
- Inner Rubber-Coated lining

Scrubber Models and Technical Specifications				
Model	Unit	YT2060	YT2475	YT3090
Barrel Diameter	(mm)	2.000	2.400	3.000
Length	(mm)	6.000	7.500	9.000
Capacity	(tph)	80-140	150-250	260-430
Feed Size	(mm)	200	250	350
Power	(kW)	2x22	2x30	04x22
Barrel Rotation Speed	(rpm)	12	10	8
Input Opening	(mm)	Ø800	Ø900	Ø1.200
Output Opening	(mm)	Ø1.200	Ø1.500	Ø1.800
Water Consumption	(m3/h)	100-150	200-250	300-400
Weight	(kg)	11.000	22.000	34.000
Operating Weight	(kg)	15.500	28.000	42.000

LOG WASHERS

SAES Log Washers are designed to remove tough, plastic clay contaminants and other materials from gravel, stone and various ore feeds. These washer are capable of accepting feed material up to 100mm. As the percentage of material to be removed increases, longer units should be used to increase the washing action.

General Specifitions

- Log shafts fabricated from extra-heavy, one-piece steel pipe and flanged at both ends to facilitate maintenance.
- Twin-Seal Pak submerged rear bearings.
- Paddles made of specially developed steel for maximum abrasion resistance.
- Clean-out gates available and positioned at underside of washer box.

Optional Specifitions

- Inner Rubber-Coated lining
- Inner steel lining
- Unlined liner wall
- Frequency converter.

Log Washer Models and Technical Specifications			
Model	Unit	LW9060	LW9090
Pallet Diameters	(mm)	Ø900	Ø900
Length	(mm)	6.000	9.000
Max. Feed Size	(mm)	100	100
Power	(kW)	2x22	2x30
Speed	(rpm)	33	33
Capacity	(tph)	90-150	150-200
Water Consumption	(m3/h)	40-90	70-120

DEWATERING SCREENS

SAES Dewatering screens has been designed to improve product quality by purifying surface from moisture.

General Specifitions

- Simple and functional structures
- High performance
- Multi-purpose use
- Easy erection
- Low power consumption

AUTOMATION UNITS

Plant Automation
The control panel is a bench-type switchboard and has a mimic diagram on it which illustrates the material flow and electric motors in the plant on it. It helps to monitor and control all operations in process

Crusher Automation
Automation unit maintains maximum production capacity by adjusting process parameters online and improves productivity and quality while reducing maintenance and operating costs by preventing overload.

breakdowns in your plant by simplified control system that every electrician can easily understand. Your plant will operate either manually or with automation system with full capacity and productivity.
Some basic features of the automation system…

Sequential Stop
To prevent a sudden overcharge on transformers and generators, the crushers in the plant will sequentially start according to their power capacities. Then the plant starts operating from the back to the front with following to the time parameters determined earlier.

Interlog Operating
The performance of a motor depends on the other motor operating before it. A non-operating motor shuts off the other associated motors with it. The crushers are only stopped in case of any breakdowns belong to them (e.g. overcharge, oil pressure). Thus, stops are avoided often, which caused by minor breakdowns. After trouble shooting, the stopped motors start again and the plant continue to operate in regular performance.

Electric Current Control on Crushers
The electric current on crushers is controlled continuously and the feeder is interfered according to this current value. Thus, overloading of crushers is avoided and continuous flow in the plant is maintained.

Crusher Maintenance Period
Maintenance time parameters are entered for the crushers on the program. When the run time of the crusher reach its limit, which is pre-defined earlier, operator is warned.

Animation
The operation in the plant, breakdowns, electric current values on crushers, feeder speed, belt weigher values and crusher run time can be traceable.

Breakdown Controls
Thermal switch cutout, corded circuit breaker, belt shift, belt breakage, electric current, greasing and hydraulic adjustments for crushers are controlled.

Belt Weigher
Tonnage values on the belt weighers in the plant are monitored instantly, logged and reported whenever needed. Available only in Computer Aided Automation systems.

Automatic Filling
Truck filling is automatically controllable according to required tonnage values if belt weighers are occupied on the stockpiling conveyors or on the conveyors under the stockpiling hoppers. Even in systems in which magnetic cards are used, truck driver himself may perform the loading process by swiping his card to devices without an assistance of a loading staff.
*Available only in Computer Aided Automation systems

Breakdown Logs
Tonnage values on the belt weighers in the plant are monitored instantly, logged and reported whenever needed. Available only in Computer Aided Automation systems.

DUST SYSTEMS

Dust Suppression Units

Dust suppression system injects fine water droplets directly in the crusher housing, resulting in a spectacular dust reduction over the entire crusher line.

Dust control systems are an important factor in meeting both environmental and health and safety requirements, while also helping and protecting employees and reducing site emissions. We offer complete solutions for the control of dust in all material handling processes.

Our dust suppression systems control airborne dust without wetting the product while adding very little moisture. Our systems are fully installed and integrated into all processes and control dust without the need for expensive extraction systems.

Filter Systems

Particles coming up during production processes must be purified from the working environment and aspiration air because they are important for environmental consciousness and human health. SAES dust Collecting units with our wide product range and designs specific to the process are being put into service of you.

Bag type jet filters are designed according to dust type and process parameters. Bag type and characteristic to be used in the filter are determined according to details of the process. Cleaning system may optionally be time adjusted or with difference pressure control.

SPARE PARTS AND SERVICE

Service

- Repair Maintenance Revision
- Technical Support
- Original Spare Parts Service

Repair Maintenance Revision

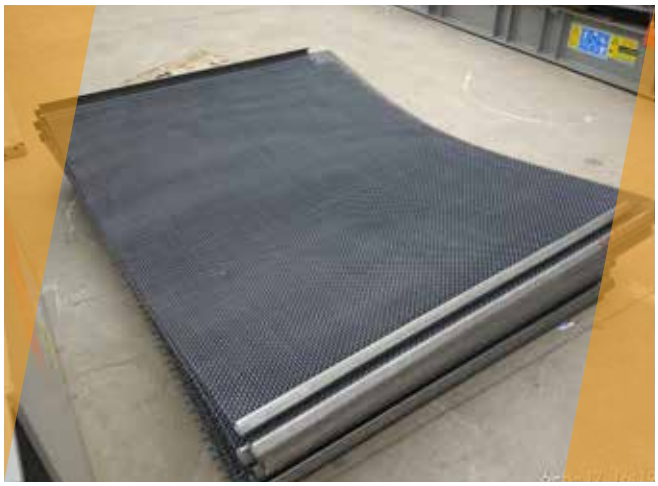
SAES undertakes the mechanical and electrical maintenance of the plants as part of revision services and renders service with revision team for the periodic maintenance of the plants.

Technical Support

SAES gives particular importance to the technical information that will lead the user to the solution in every condition. We work with our customers in mutual trust and cooperation for the purpose of improving productivity and leading to the optimal manufacturing with our technical support.

Original Spare Parts Service

SAES ensures complete customer satisfaction after sale with procurable original spare parts service for the purpose of decreasing down time and loss of production.



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