



Inherit Classics, Create Legends

ALLIS SAGA

PRODUCT GUIDE





ALLIS SAGA
埃里斯克

Allis Saga at a Glance

01

Products P08-76

Crushers

MH & MS Series Single Cylinder Hydraulic Cone Crushers	09
MHC Series Multi-cylinder Hydraulic Cone Crushers	19
MHCM Series Multi-cylinder Hydraulic Cone Crushers	23
MJC Series Jaw Crushers	25
MJ Series Jaw Crushers	29
VSI Series Vertical Shaft Impact Crushers	33
HSI Series Horizontal Shaft Impact Crushers	37
GM Series Gyratory Crushers	41
W Series Wheel-mounted Mobile Units	45
E Series Dual Power Mobile Units	47
T Series Track-mounted Mobile Units	49

Screens

CS Series Circular Screens	53
CSA Series Circular Screens	55
LS Series Linear Screens	57
LSM Series Linear Screens	59
THS Series Triple Shaft Horizontal Screens	60
BSM Series Banana Screens for Mining	61
BSA Series Banana Screens for Aggregate	63
DSA Series Banana Screens for Aggregate	64
MHF Series Modular High Frequency Screens	65
FS Series Grizzly Screens	66
GS Series Grizzly Screens	67
HFS Series High-frequency Dewatering Screens	68
ESA Series Elliptical Screens	69

Feeders

FD Series Heavy-duty Grizzly Feeders	71
HGF Series Heavy-duty Grizzly Feeders	72
GZG Series Electric Drive Pan Feeders	73
GF Series Grizzly Feeders	74
PF Series Heavy-duty Pan Feeders	75
BW & BZ Series Apron Feeders	76

Typical Applications

78

ALLIS SAGA

AT A GLANCE



A national high-tech enterprise specializing in R&D and the manufacturing of high-end crushing and screening equipment in China, with exports to over 30 countries across the globe, Allis Saga has established a strong and reliable reputation in China as well as in the Global Market.

With the expertise of the key team members in the mineral processing industry and their extensive experience in crushing and screening, Allis Saga is poised to provide comprehensive process solutions that include project planning, design, construction, operation management, technical support, as well as OEM components and parts supply.

Allis Saga large size equipment with intelligent automation control system are proven to be reliable and efficient in numerous large-scale mining projects in China, among which many are replacing imported equipment over the years. Meanwhile, Allis Saga has also demonstrated excellent performance in large-scale aggregate applications in China as well as the global market.

40⁺

countries across the globe,
serving many of the world's top
500 companies.

35⁺

aggregate plants equipped
entirely with Allis Saga C&S
equipment that are running
smoothly in China.

50⁺

units MH900/950 (750kW)
largest cones operating in large
metal mines in China.

Holding a leading position in
mining sector in China.

1200⁺

units of high-end crushing and
screening equipment in operation
worldwide.

● Corporate Vision

Building an international high-end brand,
serving premium customers globally.

● Core Values

Customer focus, supreme quality,
continuous innovation, people oriented.

● Features and Advantages

Technology

National high-tech
enterprise
International
technical standards
Core team of industry
experts
More than 100
national patents



Quality

World-class machining center
National certification and
testing center
Comprehensive quality
management system
Deployment of internationally
renowned components



Services

Industrial global service
concept
OEM components and
parts supply
Expert-level value-
added services
Rebuilding and Cost
per ton Operational
contracts





Project Consultation



Planning & Design



Full-range Equipment Supply



Construction

ALLIS SAGA Supplier of Full-process Crushing and Screening Services

Production and Operation



After-sales & Services



Technical Training



Installation and Commissioning



Quality Management Systems and Qualification Certificates



TUV European Authoritative Testing Agency Certification



ISO14001 Environmental Management System



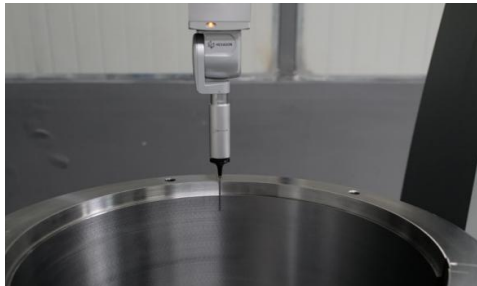
ISO9001 Quality Management System



ISO45001 Occupational Health Management System

National Laboratory CNAS

All key components are tested with top-notch & precise testing equipment and certified by Laboratory CNAS at the National Level.



World-class Machining Center

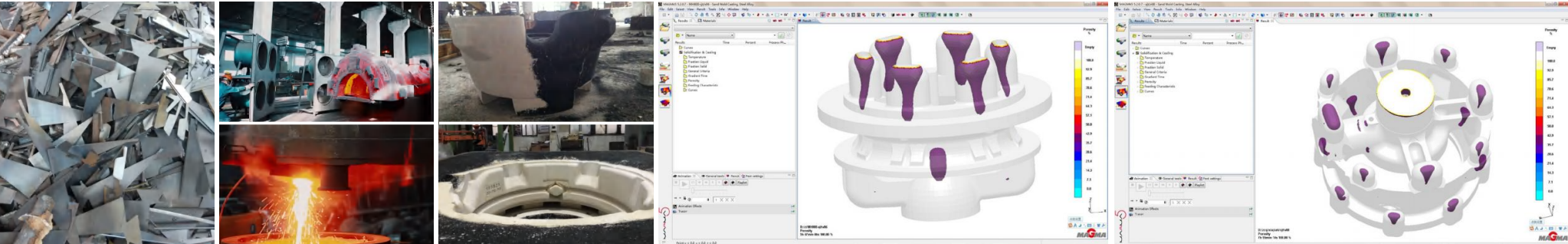
We use world-class CNC machining equipment from well-known brands such as Mazak, OM, and DOOSAN to machine all the key components.



Quality Control of Critical Components

Castings

Electric arc furnace + refining furnace + resin sand process + MAGMA software simulation



Raw material - high-quality steel recycled material

Electric arc furnace + refining furnace smelting

Resin sand molding

Advanced casting simulation software – simulation carried out before casting and adjusting the process scheme that reduces defects by 95%

Forgings



Fully-automated heat treatment control system



Advanced heat treatment equipment - Specialized shaft furnace



Advanced oil quenching bath for real-time monitoring of oil temperature



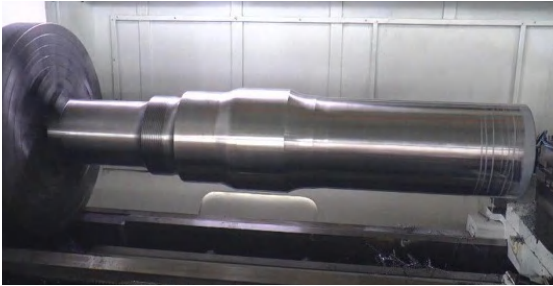
Advanced heat treatment equipment - Fully automatic carburizing equipment



Tempered independent suspension system for prevention of thermal deformation of main shaft



Rigorous non-destructive testing



Precision machining, main shaft of cone crusher



Fine machining, main shaft of gyratory crusher

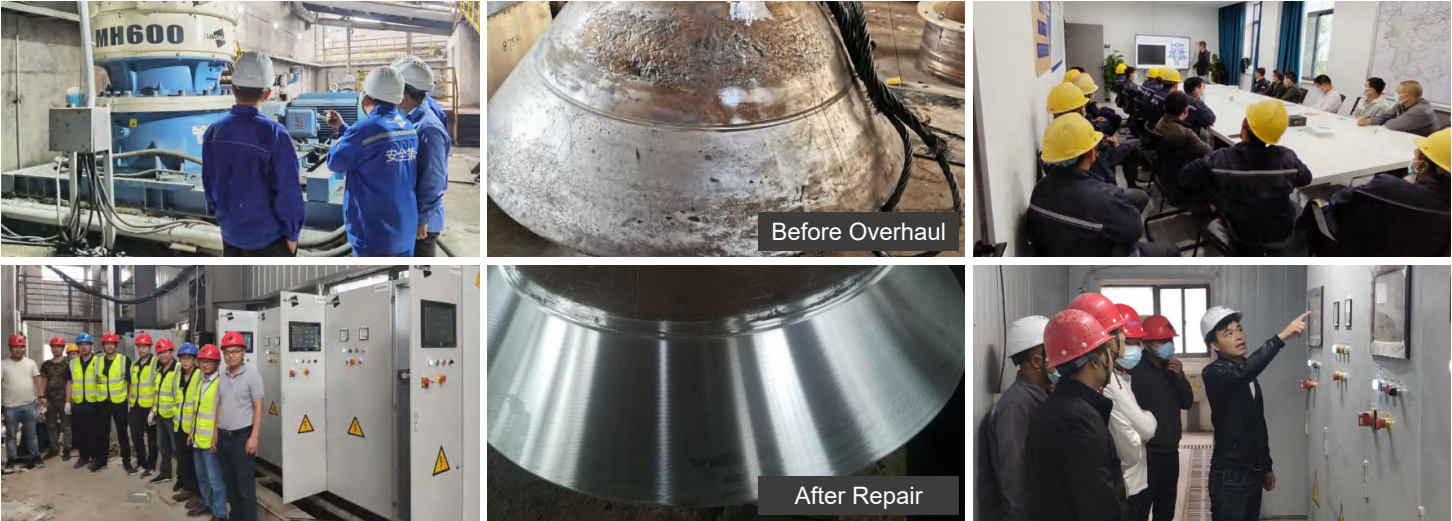
Assembly and Testing

Allis Saga professional and meticulous assembly process together with rigorous factory testing procedures ensure that every piece of equipment undergoes sufficient on-site testing before delivery.



Services and Technical Support

Allis Saga provides a comprehensive range of technical services, including equipment installation, commissioning, technical training, equipment inspection, equipment updating, equipment overhauls, and operation contracting.



After-sales Services

Refurbishment and Overhaul

Technical Training

OEM Spare and Ware Parts Supply

With a unique development history, Allis Saga can produce and manufacture OEM spare parts in accordance with the same standards and quality as internationally renowned brands in **the full range of cone crushers, jaw crushers, gyratory crushers, horizontal shaft impact crushers and vertical shaft impact crushers**. Allis Saga has also established an extensive service network in China and warehouses in key areas for customer concentration, supplying parts and wear parts for various types of crushing and screening equipment.



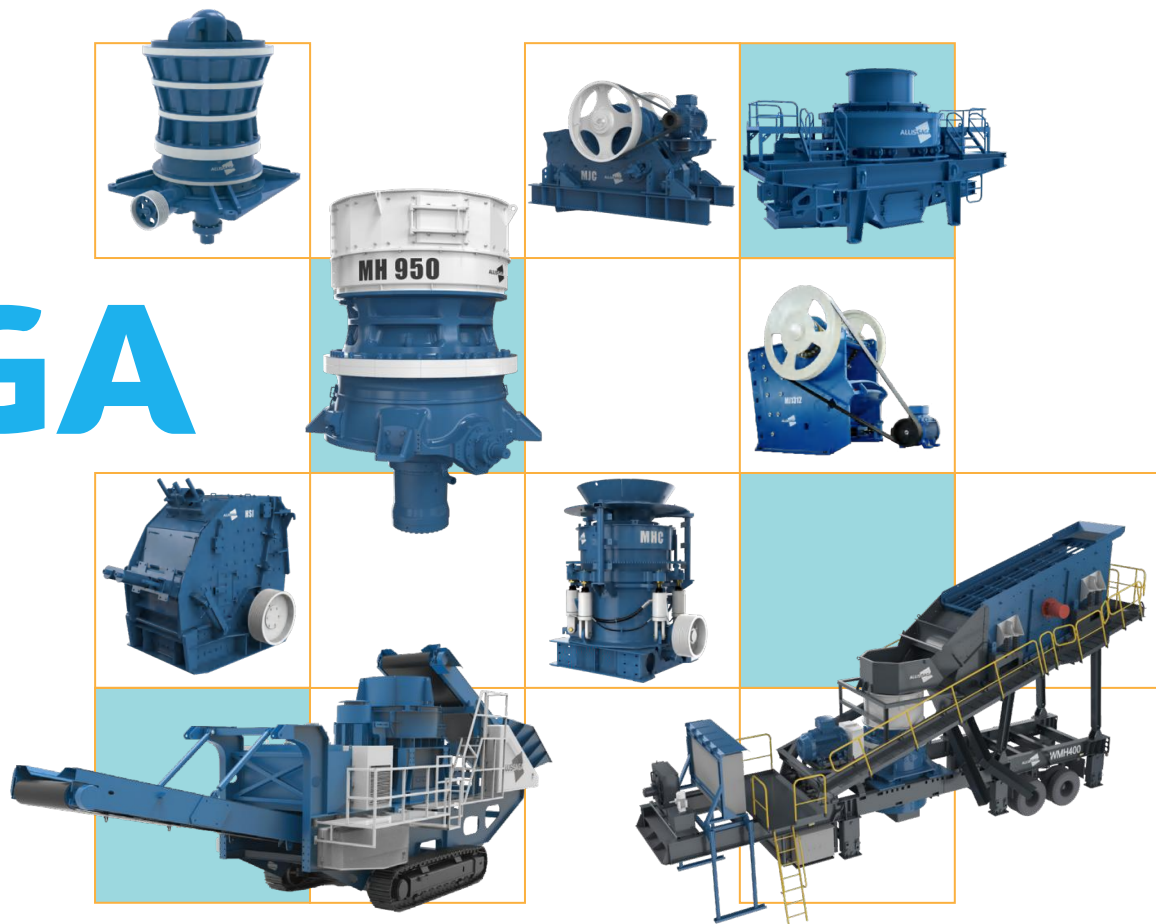
Allis Saga not only provides crushing and screening equipment but also supplies OEM spare parts and technical services to more than 300 domestic and overseas customers, in that some of the world's top 500 companies and industry giants.



ALLIS SAGA

Crushers

Allis Saga develops and manufactures various high-end crushers with advanced technology, reliable performance, as well as intelligent and efficient features. These products are sold in over 30 high-end markets worldwide, particularly in countries included in the "Belt and Road" initiative. Therefore, Allis Saga is set to become one of the few Chinese manufacturers in the industry with a competitive edge against international high-end brands.





MH/MS

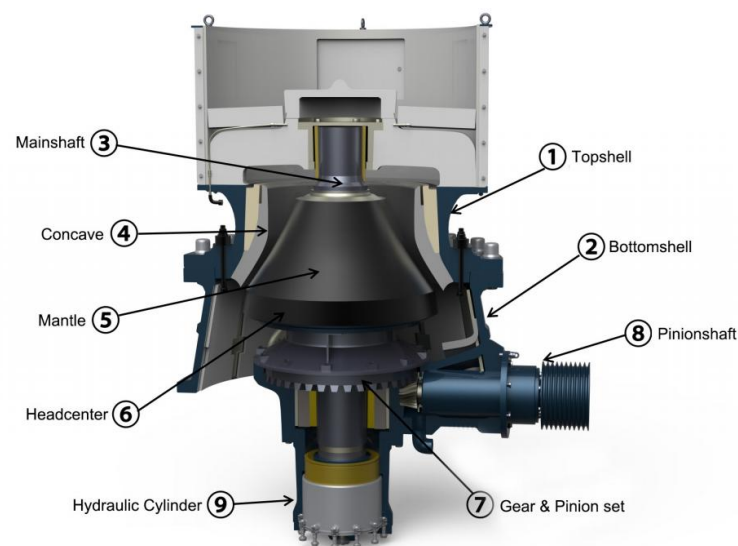
Single Cylinder Hydraulic Cone Crushers

MH/MS Series Single Cylinder Hydraulic Cone Crushers are currently among the most advanced cone crushers in the world. These cone crushers are equipped with the latest research and development achievements, with an integration of new technologies in various fields such as crushing, machinery, hydraulics, and control. They are well-suited for secondary, tertiary, and quaternary crushing applications in the mining and aggregate industries. They can effectively crush various types of ores with high Work Index and high Abrasion Index, even under demanding working conditions. The MS series crushers share the same principles and structure as the MH series but having a larger feeding intake, making them particularly suitable for primary and secondary crushing operations in mineral processing.

Advanced Technologies

- With the optimized design of crushing chambers, the production capacity and gradation can basically be kept consistent throughout the liner's lifespan.
- The safe and reliable hydraulic system effectively provides iron tramp or overload protection.
- Transmission efficiency and noise reduction are achieved with a unique bevel gear set design and an excellent internal structure.
- The power consumption of this crusher is only 50% of that of conventional crushers.

1. Robust design crusher topshell and bottomshell structure with mainshaft supported by both the upper and lower ends, thus resulting in better crushing force conditions.
2. A design with up to a dozen crusher chambers allows the crushes to be easily adaptable to changes in production via proper selection of crushing chamber and eccentric throw.
3. The CIS intelligent control system optimizes crusher performance while reducing operational costs.

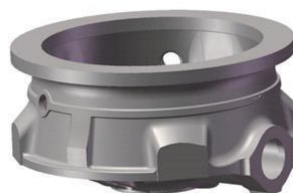


High Performance and High Reliability

- Advanced Finite Element Analysis (FEA) combined with computer simulation casting software ensures high strength and high quality of casting components.
- The latest research achievements in fields such as crushing technology, hydraulic technology and computer control technology are adopted to ensure that the MH&MS Series Single Cylinder Hydraulic Cone Crushers can adapt to various harsh application conditions and characteristics of different minerals.



Topshell



Bottomshell



Mainshaft

Casting Advantages of Topshell and Bottomshell

- Use of high-quality steel
- Advanced simulation software MAGMA
- Casting quality guaranteed

Structure Optimization on Topshell and Bottomshell

- Frame structure optimized by finite element analysis
- The horizontal and vertical stiffeners significantly strengthen the frame's strength and reduce the risk of frame cracking

Material and Process Advantages of Mainshaft

- Forged with high-quality high-grade alloy steel
- All forgings are subjected to strict and precise heat treatment, precision machining and flaw detection processes



Tank Design Features:

- All key components and parts are internationally renowned brands.
- All pump units are installed horizontally, expanding internal space of the tank for ease of maintenance.
- Suitable for mining and aggregate plants at static installation.



Tank Design Features:

- Compact design with small footprint.
- Integrated electrical cabinet for the control system.
- Suitable for mobile and modular installation.

Versatility

- Allis Saga MH&MS Series Single Cylinder Hydraulic Cone Crushers are widely applicable and used for intermediate crushing, fine crushing and extra-fine crushing operations in mining, aggregate and minerals processing.
- Several standard crushing chambers are available for each model.
The crushers can easily be adjusted and changed accordingly to suit different applications by the proper selection of crushing chamber and eccentric throw.
- The bottomshell, tank and electrical devices are interchangeable for MH&MS series cone crushers, which will bring about significant savings on components and parts inventory and equipment management.



Easy to Handle and Maintain

- CIS Automatic Control System displays all key operating parameters of the crusher clearly at a glance and formulates a replacement plan for the liner change based on its wear conditions, which greatly reduces downtime and costs.
- Over pressure dust sealing system and unique dust sealing design minimizes the potential damage caused by small particles and dust entering the crusher, thus extending the service life of all key components and reducing downtime.
- All maintenance, inspection, repairs of the cone crushers can be carried out from the top, thus minimizing downtime and increasing service quality.



Crusher Intelligent Control System - CIS System

- CIS crusher intelligent control system is a Windows-based operation system that is independently developed by Allis Saga. It is aimed at providing high reliability, wide compatibility as well as a user-friendly and interactive interface.
- The operating data of the crusher can be shared with the central control room of the customer and can be remotely controlled in real time through CIS. Remote support and diagnosis by Allis Saga team can be easily implemented through CIS connection to internet.
- The CIS system provides automatic overload protection by allowing the mainshaft to drop, so as to permit the passage of tramp iron and other uncrushable material. The system then automatically returns the mainshaft smoothly to its original position.
- The mineral processing industry is progressing towards continuous improvement of automation and achieving higher efficiency in delivering better product quality while reducing operating cost per ton of products. Hence, the CIS system is highly compatible for meeting this strict requirement of the industry.
- With a powerful memory and data storage ability, all historical operation data in the CIS system can be downloaded and transferred for a more details analysis, which is important for the establishment of a database and optimized management of the crushing system.

MH Technical Parameters

Models (Max motor power)	Cavity	Max. feed size (mm)	Nominal capacity t/h									
			CSS (mm)									
MH200 (90kW)			6	8	10	13	16	19	22	25	32	
	EC	135			49	86	93	101	106	112		
	C	90			54	89	95	105	110	117		
	M	65		42	74	79						
	MF	50	37	67	74							
	F	38	50	53	58							
MH300 (160kW)			6	8	10	13	16	19	22	25	32	38
	EC	185				109	149	160	171	181	209	
	C	145				133	143	152	164	174	199	
	MC	115			56	141	151	161	175	184		
	M	90			83	132	141	150	162			
	MF	75		62	106	117	125					
MH400 (250kW)	F	50	80	83	87	97	103					
			8	10	13	16	19	22	25	29	38	44
	EC	215				200	275	292	314	337	395	
	C	175			102	220	293	312	334	360		
	MC	140			121	263	286	300	321	347		
	M	110			185	278	297	316	339			
MH600 (315kW)	MF	85		115	228	247	264	281	301			
	F	70	136	176	190	207	221	235	252			
			13	16	19	22	25	29	32	38	51	
	EC	275			337	436	464	499	548	604		
	C	215			367	482	511	551	584	644		
	MC	175		253	425	456	485	525	553			
	M	135		294	438	470	499	538				
	MF	115	195	370	397	426	452	486				
	F	85	305	328	351	377	400	431				

EEF=Extra Fine

EF=Extra Fine

F=Fine

MF=Medium Fine

M=Medium

MC=Medium Coarse

C=Coarse

EC=Extra Coarse

The figures are approximate and give an indication of what the crusher can produce, they apply for open circuit crushing of dry material with a bulk density of 1.6t/m³.

MH Technical Parameters

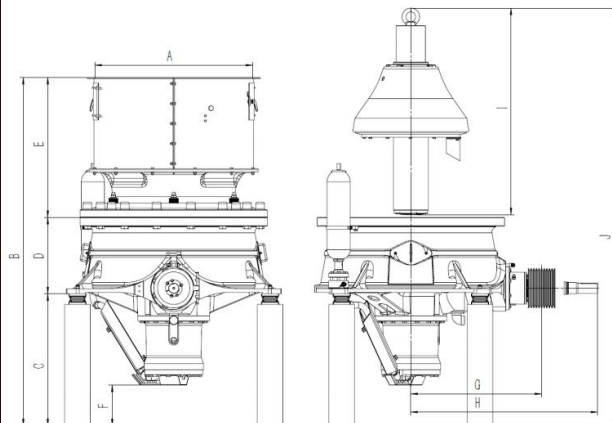
Models (Max motor power)	Cavity	Max feed size (mm)	Nominal capacity t/h												
			CSS (mm)												
MH700 (500kW)			13	16	19	22	25	29	32	35	38	41	44	48	51
	EC	315		281	371	495	580	625	660	695	730	765	799	808	760
	C	263		341	496	614	653	705	744	784	823	862	901	910	858
	MC	196		423	553	592	628	680	716	755	792	829	867	876	825
	M	152	292	495	531	567	604	652	688	724	761	798	833	841	792
MH750 (500kW)			10	13	16	19	22	25	29	32	38	44			
	MF	108		323	424	455	487	517	508	510	474	422			
	F	85	183	365	394	423	452	480	472	474	440	393			
	EF	63	285	309	333	358	382	407	399	400	373	332			
MH800 (600kW)			13	16	19	22	25	32	38	44	57	64			
	EC	350				591	850	968	1073	1174	1395	1513			
	C	240			405	637	893	1017	1126	1232	1465	1461			
	MC	195			438	723	837	953	1056	1155	1373				
	M	155			564	788	837	953	1056	1155	1374				
	MF	100		424	715	766	814	927	943						
	F	90	395	655	702	751	799	910							
	EF	80	518	559	598	640	680	774							
MH900 (750kW)			13	16	19	22	25	32	38	44	57	64			
	EC	370					464	1313	1450	1588	1887	2047			
	C	330				401	778	1408	1556	1704	2024	2160			
	MC	260			376	732	1236	1408	1557	1704	2024				
	M	195			505	955	1110	1265	1398	1530	1818				
	MF	130		350	694	925	984	1121	1239	1356	1611				
	F	120	294	673	842	899	956	1090							
MH950 (750kW)			13	16	19	22	25	32	38	44					
	EFX	100	425	667	716	764	814	928							
	EF	85	586	632	679	725	771	879	971	1064					
	EEF	75	565	609	654	698	743	847							

EEF=Extra Fine
EF=Extra Fine
F=Fine
MF=Medium Fine
M=Medium
MC=Medium Coarse
C=Coarse
EC=Extra Coarse

The figures are approximate and give an indication of what the crusher can produce, they apply for open circuit crushing of dry material with a bulk density of 1.6t/m³.

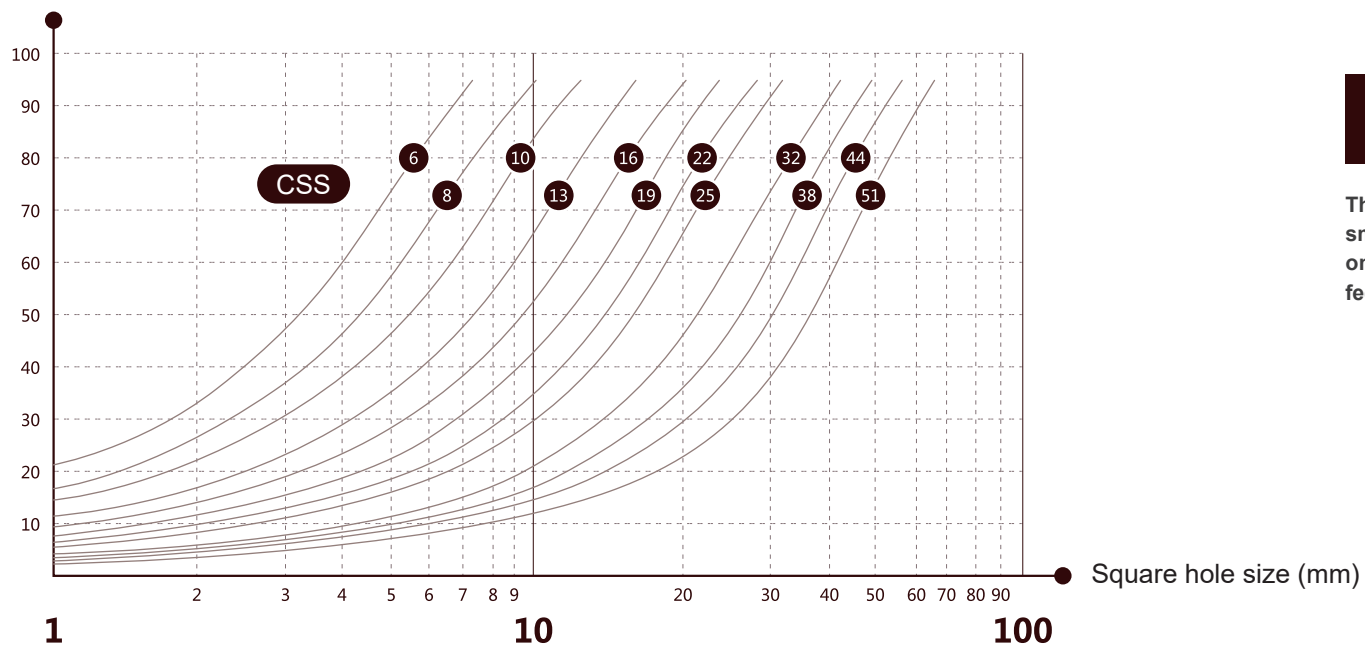
MH

Installation Parameters



Dimensions (mm)	MH200	MH300	MH400	MH600	MH700	MH750	MH800	MH900	MH950
A	Ø1078	Ø1360	Ø1540	Ø2104	Ø2101	Ø2101	Ø2450	Ø2946	Ø2946
B	2560	2992	3410	4250	4540	4631	5475	5846	5806
C	1020	1125	1300	1800	1815	1815	2205	2260	2260
D	540	655	745	880	1126	1126	1228	1188	1188
E	1000	1212	1365	1755	1599	1690	2045	2400	2410
F	400	422	452	630	497	497	999	637	637
G	843	1062	1280	1497	1745	1745	1830	2075	2075
H	1270	1705	1900	2157	2638	2638	2850	3095	3095
I	1425	1688	1985	2187	2966	2966	3095	3581	3581
J	3000	3570	4000	4788	5907	5907	6620	7075	7075
MAXIMUM OVERHAUL WEIGHT(KG)	2360	3920	5900	7700	12520	12520	14500	23800	23800
WEIGHT (EXCLUDING MOTOR) (KG)	5600	9200	15600	25850	39710	38930	50000	78100	80200

Passing rate %



MH

Product Curves

The product curve and the percentage of the crusher product that is smaller than the closed side setting (square hole, mm) is dependent on the crushability (W_i) of the material, the size distribution of the feed and other factors.

MS Technical Parameters

Models (Max motor power)	Cavity	Max. feed size (mm)	Nominal capacity t/h											
			CSS (mm)											
MS200 (90kW)			19	22	25	29	32	35	38					
	EC	240		85	116	158	169	144	121					
	C	200	70	95	128	112	96							
MS300 (160kW)			19	22	25	29	32	35	38	41	44	48	51	54
	EC	360			126	174	230	294	310	327	345	306	256	214
	C	300		108	145	199	254	270	285	301	264	180		
	MC	235	91	123	167	218	233	246	261	275	241	165		
MS400 (250kW)				25	29	32	35	38	41	44	48	51	54	
	EC	450					267	354	446	564	601	524	456	
	C	400			225	300	381	484	511	448	398	333		
	MC	300		195	268	342	435	461	486	426	378	317		
MS600 (315kW)			38	41	44	48	51	54	60	64	70	76	83	
	EC	560		350	460	588	718	857	929	978	1050	984	604	
	C	500	318	420	618	753	788	823	892	822	631			

C=Coarse

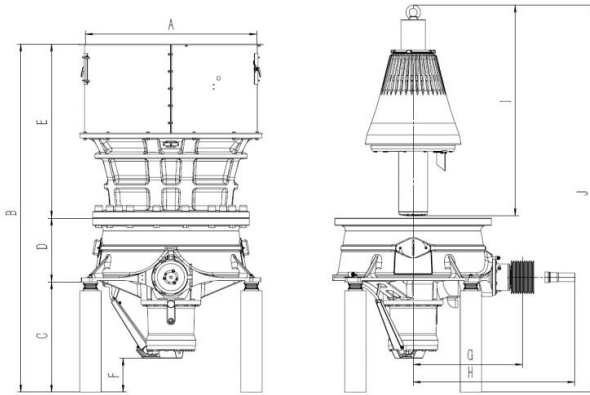
MC=Medium Coarse

EC=Extra Coarse

The figures are approximate and give an indication of what the crusher can produce, they apply for open circuit crushing of dry material with a bulk density of 1.6t/m³.

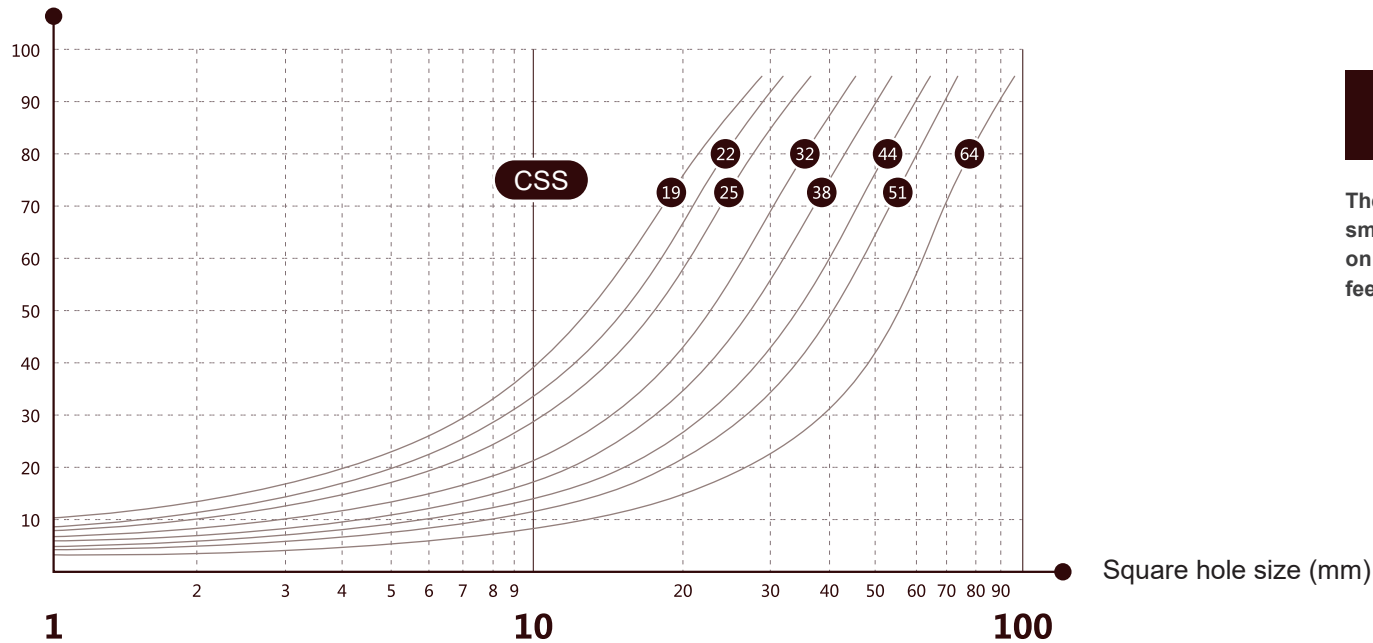
MS

Installation Parameters



Dimensions (mm)	MS200	MS300	MS400	MS600
A	Ø1285	Ø1635	Ø2000	Ø2810
B	2902	3485	4075	5100
C	1020	1125	1300	1600
D	540	655	745	880
E	1342	1705	2030	2640
F	400	422	452	630
G	843	1061	1280	1497
H	1270	1705	1900	2183
I	1703	2050	2420	2737
J	3600	3930	4600	5346
MAXIMUM OVERHAUL WEIGHT(KG)	2360	5100	8100	16500
WEIGHT (EXCLUDING MOTOR) (KG)	6800	12000	19300	36500

Passing rate %



MS

Product Curves

The product curve and the percentage of the crusher product that is smaller than the closed side setting (square hole, mm) is dependent on the crushability (W_i) of the material, the size distribution of the feed and other factors.

MH/MS

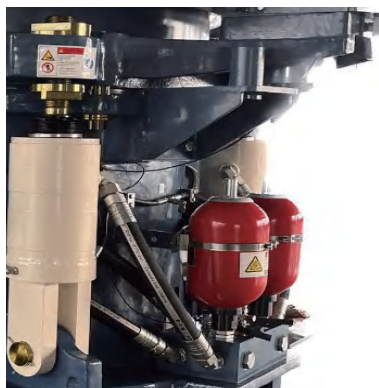




MHC

Multi-cylinder Hydraulic Cone Crushers

MHC Series Multi-cylinder Hydraulic Cone Crushers are newly-launched high performance models designed by Allis Saga with advanced technology innovation. They are mainly used for secondary and tertiary crushing operations to crush various hard ores and rocks in fields such as mining, aggregate and mineral processing.



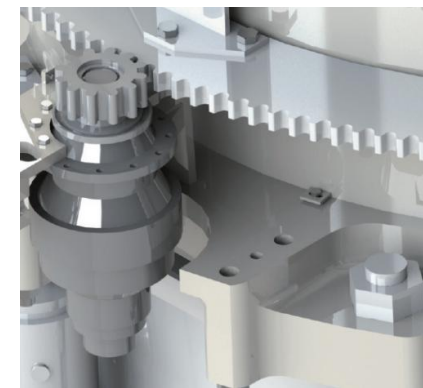
The tramp release hydraulic cylinders and accumulators with a fixed return point ensures that the crusher setting is instantaneously maintained even after passing a piece of tramp iron.



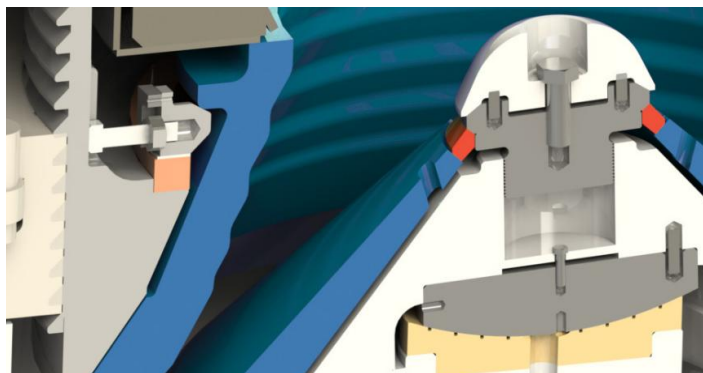
The hydraulic cylinders are designed to be arranged around the crusher body to effectively reduce the height of the crusher, thus reducing the height of the workshop with the same throughput.



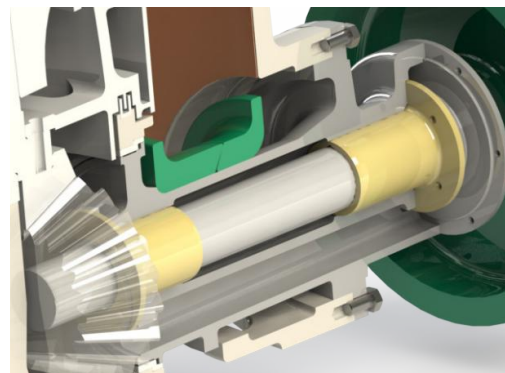
Overhaul and maintenance can be completed through dismantling from the top. The bowl and adjustment ring are easily rotated out through hydraulic motor for easy and quick replacement of the liners.



The hydraulic adjustment motor drives the adjustment ring while a threaded rotating bowl maintains a consistent setting around the entire circumference of crushing chamber to produce a more consistent gradation and superior product shape.



Same bowl/head for all applications (secondary to quaternary), can be converted from the finest to the coarsest cavity simply by replacing the mantle, bowl liner, adapter ring, and wedge bolts.



High performance non-contact labyrinth sealing system design which significantly improves the dust isolation effect, thus effectively protecting the precision components and reducing the operation cost.



MCIS multi-cylinder crusher intelligent control system with 4 main functions including Automation, Monitor, Control, Record, Communicate.

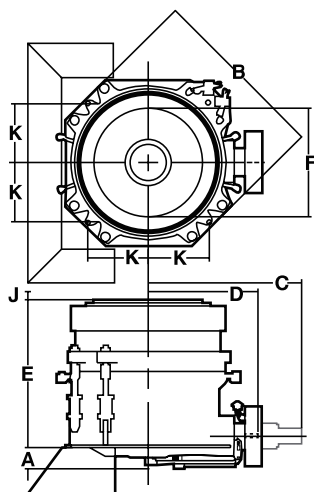
MHC Technical Parameters

Models	Mantle Head diameter (mm)	Max. feed size (mm)	Max. recommended power (kW)	Weight (excluding motor) (kg)	Countershaft speed (rpm)	Nominal capacity t/h											
						CSS (mm)											
						6	8	10	13	16	19	22	25	32	38	45	51
MHC400i	1000	220	250	16100	700-1200		94-123	108-148	136-186	164-222	182-242	199-263	210-280	217-308	251-350	279-389	
MHC500i	1120	252	315	24200	700-1200		135-176	155-211	195-266	235-316	260-346	285-376	300-401	310-441	360-501	400-556	
MHC600i	1250	317	370	29000	700-1200		158-206	181-247	229-312	275-370	304-404	335-440	352-461	380-501	422-551	468-601	
MHC700i	1400	330	500	44600	700-950			220-301	280-381	335-451	370-491	410-536	430-571	440-631	515-716	570-791	
MHC200	735	150	90	6470	750-1200	45-55	50-61	55-71	60-81	70-91	75-96	80-101	85-111	110-156			
MHC300	940	185	132	12160	750-1200			90-121	120-151	140-181	150-191	160-201	170-221	190-236	210-251		
MHC400	1120	241	250	18100	700-1200			115-141	150-186	180-221	200-241	220-261	230-281	250-321	300-381	350-441	
MHC500	1320	304	315	25600	700-1200			140-176	185-231	225-281	255-321	275-346	295-371	325-431	360-491	410-561	465-631
MHC600	1520	351	355	37000	700-950			175-221	230-291	280-351	320-401	345-431	365-456	405-536	445-606	510-701	580-791
MHC800	1720	370	630	68850	700-950			260-336	325-426	385-501	435-546	470-601	495-731	545-801	600-951	690-1051	785-1201

The capacity figures shown apply to material bulk density 1.6t/m3. Performance of the crusher is dependent on the proper selection of feeding equipment ,size distribution of the feed and other factors.

MHC

Installation Parameters



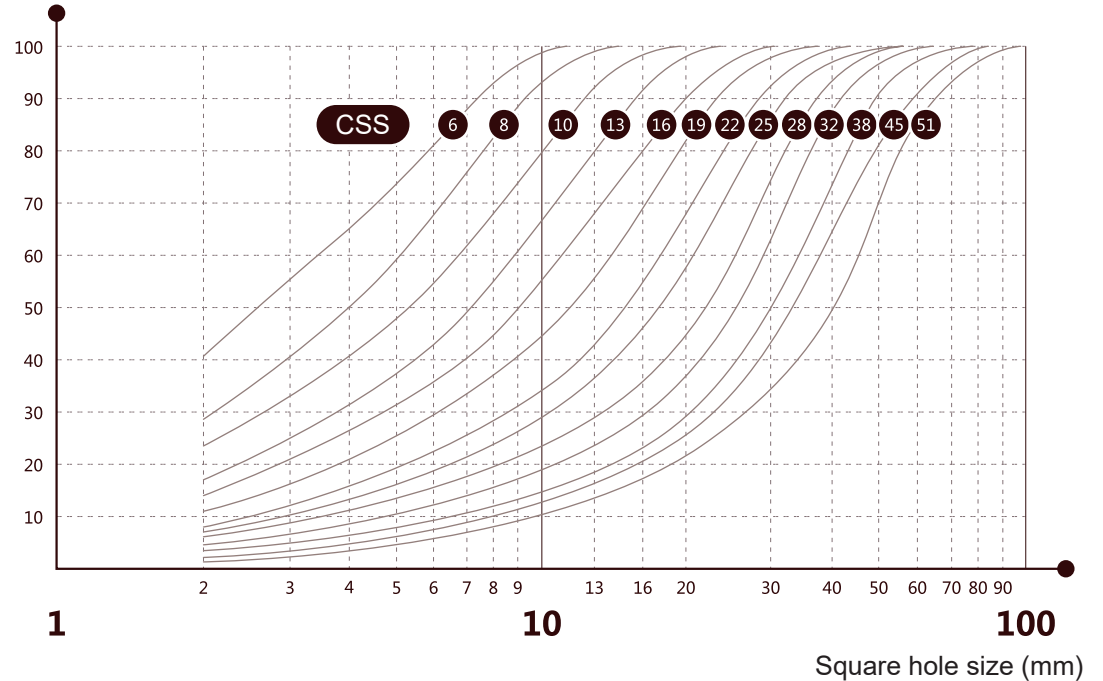
Dimensions (mm)	MHC200	MHC300	MHC400	MHC500	MHC600	MHC800	MHC400i	MHC500i	MHC600i	MHC700i
A	293	297	328	240	425	722	349	261	463	520
B	1505	1952	2207	2370	2730	3702	2778	2955	3438	3854
C	1560	1840	2020	2470	2650	3450	2817	3147	3295	3953
D	950	1160	1347	1645	1760	2225	2475	2754	2893	3522
E	1290	1630	1865	2055	2290	3538	2765	3154	3386	4633
F	694	914	1078	1308	1535	1863	2146	2512	2695	3062
J	65	70	85	150	125	159	96	175	132	185
K	NA	545	660	830	882	1130	730	940	960	1010

Models	Cavity	Standard		Short head	
		Min. CSS (mm)	Feed opening (mm)	Min. CSS (mm)	Feed opening (mm)
MHC400i	EF			8	18
	F			11	95
	M			15	156
	C			20	183
	EC			25	200
MHC500i	EF			8	67
	F			10	116
	M			16	158
	C			25	203
	EC			28	237
MHC600i	EF			9	56
	F			12	112
	M			18	205
	C			25	290
	EC			30	330
MHC700i	EF			9	52
	F			13	106
	M			20	196
	C			25	279
	EC			30	328
MHC200	EF			6	14
	F			9	74
	M			9	72
	C	13	100		
	EC	17	141		
MHC300	EF			6	10
	F	13	95	5	23
	M	17	125	6	54
	C	19	185	10	76
	EC				
MHC400	EF			6	25
	F	13	107	6	22
	M	17	150	8	53
	C	19	211	10	77
	EC	25	233		
MHC500	EF			6	52
	F	14	111	6	51
	M	20	198	8	52
	C	25	252	10	92
	EC	30	299		
MHC600	EF			6	53
	F	16	133	8	52
	M	20	204	10	57
	C	25	286	13	95
	EC	30	335		
MHC800	EF				
	F	16	219	5	33
	M	25	267	10	92
	C	32	297	13	155
	EC	32	353		

MHC

Product Curves

Passing rate %



The product curve and the percentage of the crusher product that is smaller than the closed side setting (square hole, mm) is dependent on the crushability (W_i) of the material, the size distribution of the feed and other factors.

EF=Extra Fine

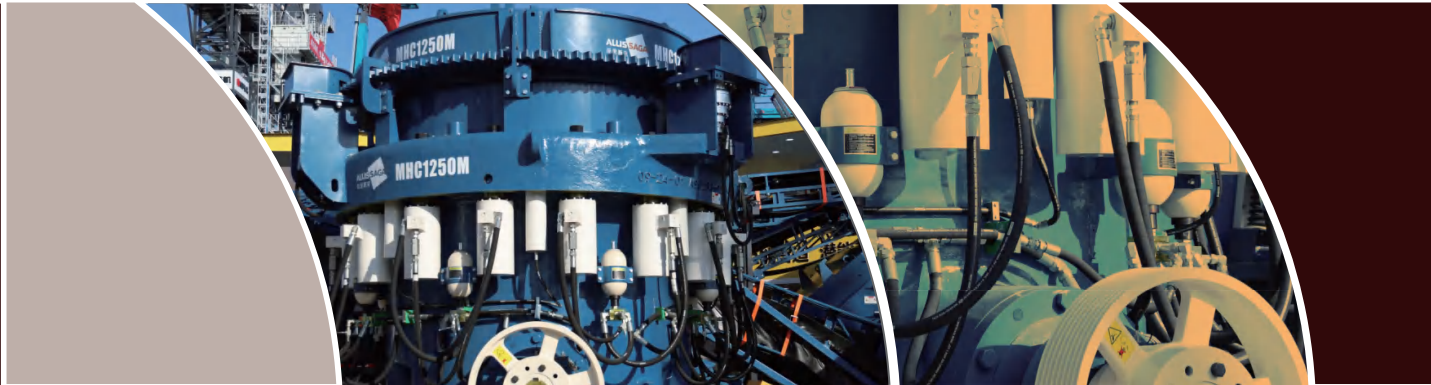
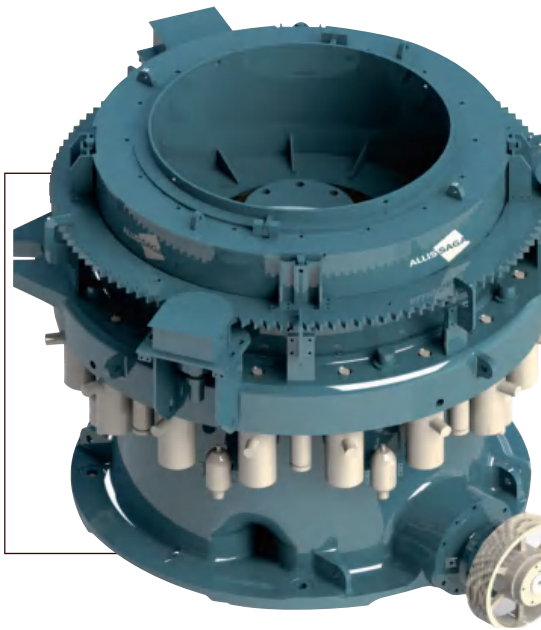
F=Fine

M=Medium

C=Coarse

EC=Extra Coarse

The figures are approximate and give an indication of what the crusher can produce, they apply for open circuit crushing of dry material with a bulk density of 1.6t/m³.



MHCM

Multi-cylinder Hydraulic Cone Crushers for Mining

MHCM Series Multi-cylinder Hydraulic Cone Crushers are designed specifically for heavy-duty mining. Building on the successful experience of the large-size single-cylinder hydraulic cone crusher MH900/MH950, MHCM maximizes the advantages of "high pivot point" and "increased throw" of multi-cylinder crushers. Compared with its competitors, MHCM offers a significant improvement in crushing capacity.

Optimizing Crushing Performance

- Efficient: MHCM is designed with greatly improved structural strength, making its crushing capacity more than twice that of other crushers.
- Collaborative: The hydraulic control system keeps the crusher in stable settings, enabling automatic discharge adjustment without shutdown to ensure stable operation of the crusher.
- Intelligent and convenient: The product features button control for easy operation; its intelligent control system (MCIS) can achieve remote control, offering a simple and safe in operation.
- Widely applicable: It is suitable for various application scenarios, such as secondary and tertiary crushing, pebble crushing, etc.



MHCM Technical Parameters

MHCM Performance Characteristics

Models	Mantle Head diameter (mm)	Max. feed size (mm)	Max. recommended power (kW)	Countershaft speed (rpm)	Nominal capacity t/h				
					CSS (mm)				
					13	19	25	38	50
MHC800M	2114	384	600	685-890	495-585	580-690	735-980	1100-1285	1460-1935
MHC1000M	2392	414	750	675-799	615-730	720-900	915-1210	1375-1750	1830-2420

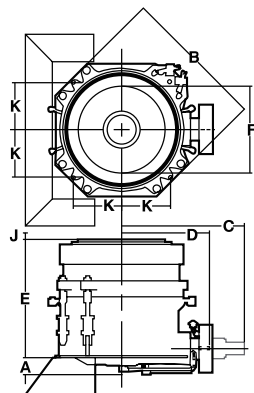
Models	Mantle Head diameter (mm)	Max. feed size (mm)	Max. recommended power (kW)	Countershaft speed (rpm)	Nominal capacity t/h								
					CSS (mm)								
					10	13	16	19	25	32	38	44	50
MHC1250M	2280	448	930	630-810	590-700	700-915	835-1020	900-1125	1145-1510	1455-1875	1720-2190	2000-2610	2290-3025
MHC2500M	3290	500	1864	616-670				1560-1920	2153-2839	2713-3518	3234-4117	3770-4993	4305-5869

The capacity figures shown apply to material bulk density 1.6 ton per cubic meter.

The crusher is one component of the circuit. As such, its performance is partly dependent on the proper selection and operation of feeders, conveyors, screens supporting structure, electric motors, drive components and surge bins.

MHCM

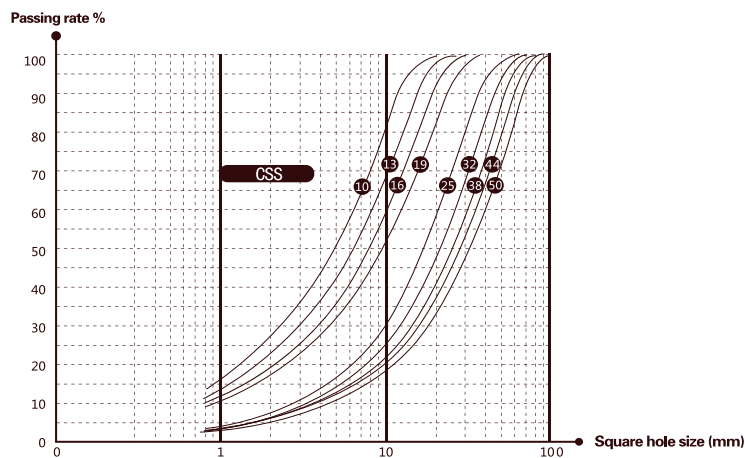
Installation Parameters



Models	MHC800M	MHC1000M	MHC1250M	MHC2500M
A (MM)	280	310	315	1059
B (MM)	4550	5360	5360	6500
C (MM)	3881	4320	4320	4830
D (MM)	2538	2885	2885	3130
E (MM)	3752	3881	3881	5566
F (MM)	2210	2530	2530	3340
J (MM)	163	150	150	406
K (MM)	1116	1245	1245	1592
Weight (excluding motor) (kg)	120570	150494	153985	450000

MHCM

Product Curves



The product curve and the percentage of the crusher product that is smaller than the closed side setting (square hole, mm) is dependent on the crushability (W_i) of the material, the size distribution of the feed and other factors.



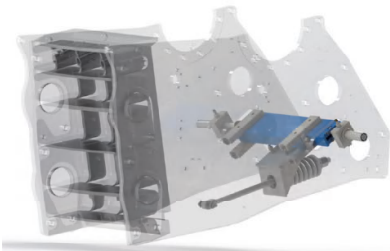
MJC

Jaw Crushers

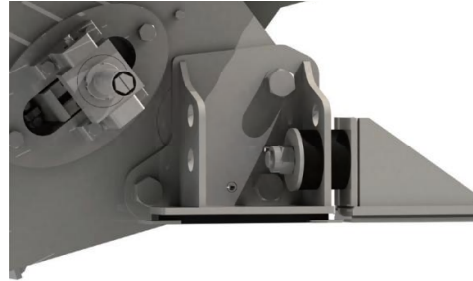
MJC series jaw crushers offer an excellent crushing performance, combining high reduction ratios and increased capacities with any feed material conditions. With the key features such as high crushing speed, long stroke and effective nip angles allows this range of jaw crushers to work in the toughest primary crushing applications across the globe.

By means of modular non-welded frame structure, a design with two high strength high quality steel plates affixed to high-quality cast steel frames through robust, precision-machined bosses secured with bolts. The absence of welding ensures excellent impact resistance.

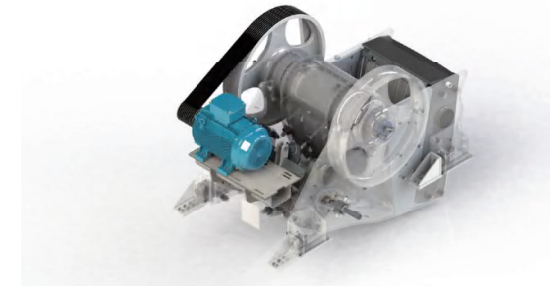
The sturdy pitman and end frames, a heavy-duty eccentric shaft and four bearings ensure superior durability and reliability.



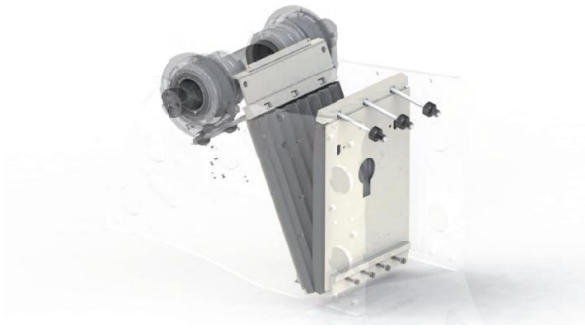
Wedge-type adjustment system is faster and safer than conventional adjustment modes.



It is equipped with dedicated rubber shock absorbers and limit blocks, so it can be installed without anchor bolts.



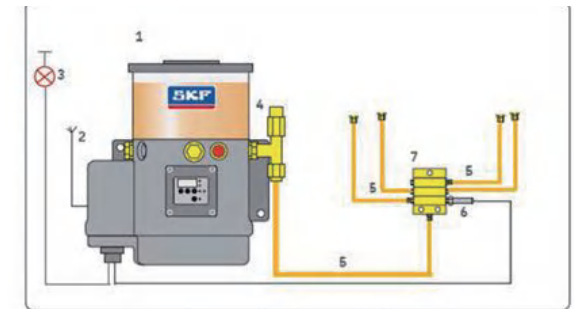
Integrated motor base reduces the installation space and maintenance cost.



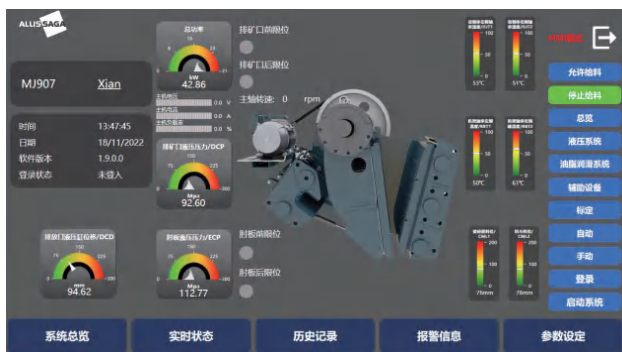
The symmetrical cavity provides a larger feeding size, which can greatly reduce the risk of bridging in primary station.



It is provided with larger and more sturdy eccentric shafts and bearings than other jaw crushers of comparable specifications.



Optional centralized lubrication device makes it safe and convenient.



JCIS --- Jaw Crusher Intelligent System with 4 main functions of Automation, Monitor, Control, Record, Communicate.

MJC Technical Parameters

Models	Feed inlet width (mm)	Feed inlet depth (mm)	Power (kW)	Speed (rpm)	Nominal capacity t/h														
					CSS (mm)														
					40	50	60	70	80	90	100	125	150	175	200	225	250	275	300
MJC806	800	510	75	350	54-78	63-97	78-112	92-136	108-153	124-178	136-192	174-247	208-291	243-337					
MJC907	930	580	90	330			104-137	122-157	139-182	159-202	172-226	218-283	263-337	308-391					
MJC1107	1060	700	110	280				148-186	164-217	187-236	204-268	253-326	304-386	352-451	394-502				
MJC1208	1150	760	132	260				161-208	177-238	202-256	223-289	269-347	319-408	368-466	409-524				
MJC1209	1200	870	160	230				173-241	193-273	209-308	232-328	284-398	338-476	382-542	441-613				
MJC1310	1300	1000	160	220							268-372	322-447	377-523	434-601	487-679	542-754	599-831		
MJC1412	1400	1200	200	220								339-472	399-557	458-637	518-721	578-803	637-883		
MJC1612	1600	1200	250	220									426-612	493-698	559-793	624-882	684-967	742-1058	813-1146
MJC2015	2000	1500	400	200										629-891	706-1002	783-1106	862-1216	939-1322	1012-1437

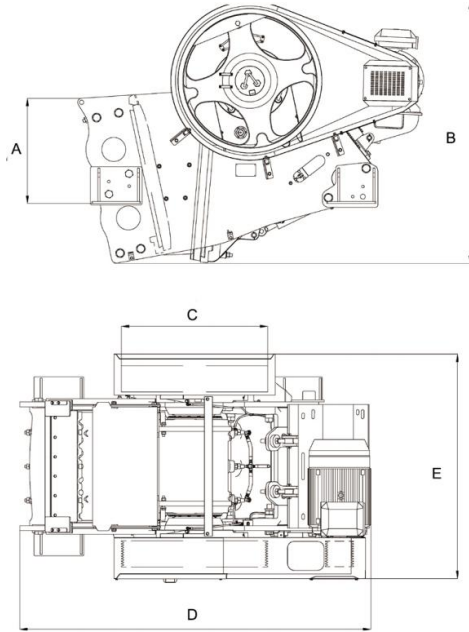
The following factors can improve the capacity and performance of the crusher:

- Selection of appropriate jaw plates
- Appropriate feeding gradation
- Controllable feeding amount
- Sufficient feeding capacity
- Adequate output area of crusher
- Discharge conveyor matching with maximum crusher capacity

The capacity figures given in the table above are approximate and are intended only to give an indication of what the crushers can be expected to produce. They apply for the open-circuit crushing of dry blasted granite with a bulk density of 1.6t/m³, the material finer than the crusher's CSS has been removed.

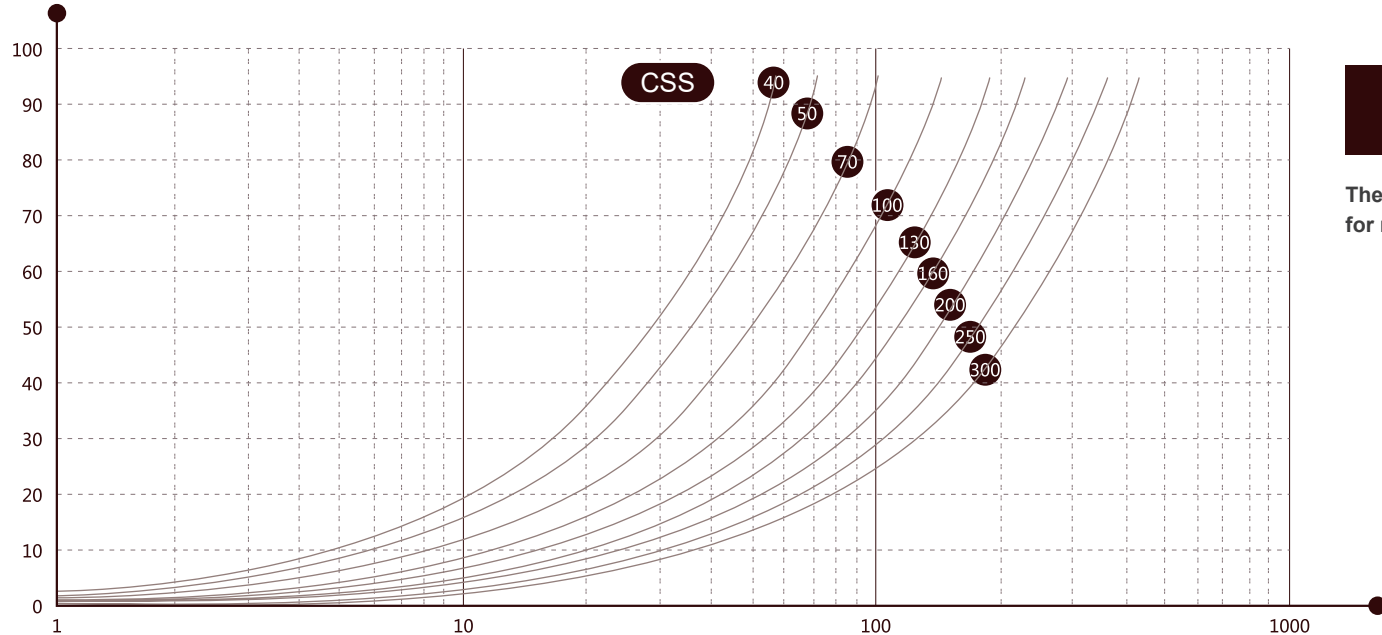
MJC

Installation Parameters



Model (mm)	MJC806	MJC907	MJC1107	MJC1208	MJC1209	MJC1310	MJC1412	MJC1612	MJC2015
A	1200	775	498	1093	2430	2439	2430	2650	2800
B	1800	1922	2473	2650	2939	3521	3410	3550	4465
C	1000	1100	1350	1500	1500	1600	1800/2000	1800	2600
D	2577	2545	2881	3515	3738	4600	5059	5686	6573
E	1526	1755	2030	2400	2400	3041	3110	3700	4040
WEIGHT (EXCLUDING MOTOR) (KG)	7680	9765	14400	18650	29000	41000	51250	76800	122000

Passing rate %

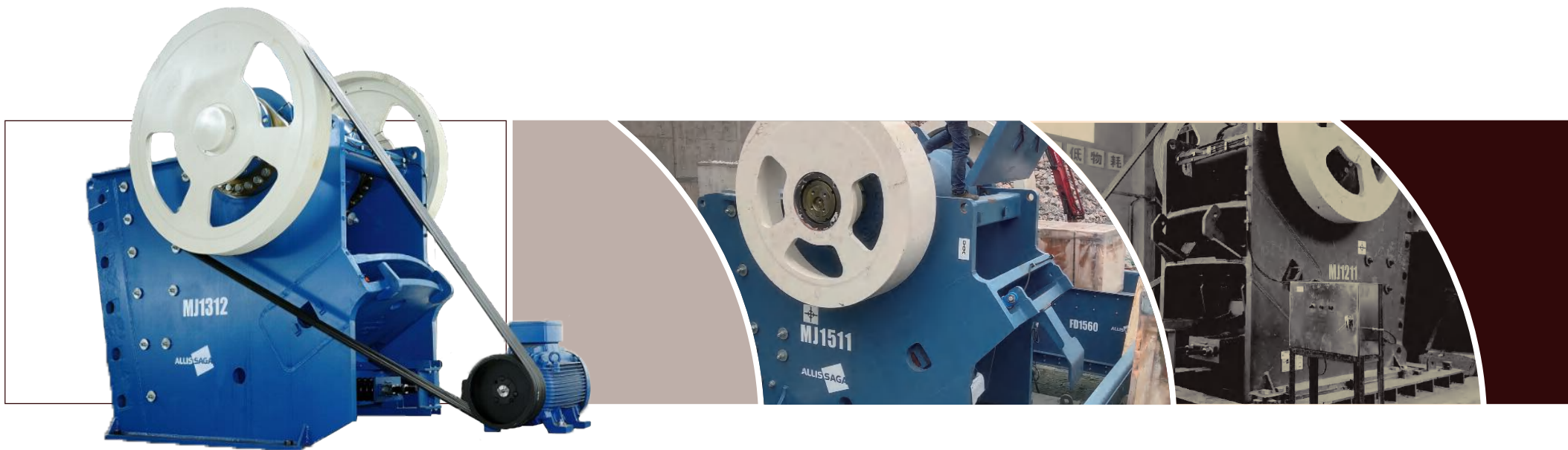


MJC

Product Curves

The figure shows product distribution curves which are representative for medium-hard material (Impact Work Index $W_i = 16$).

Square hole size (mm)

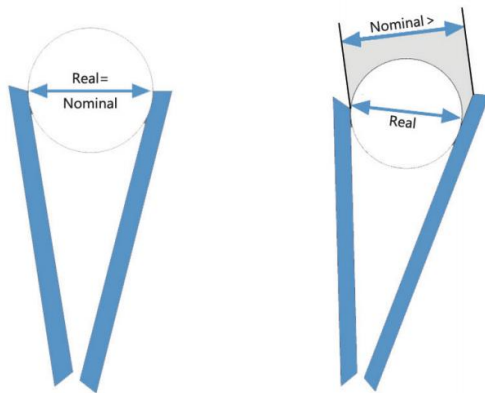
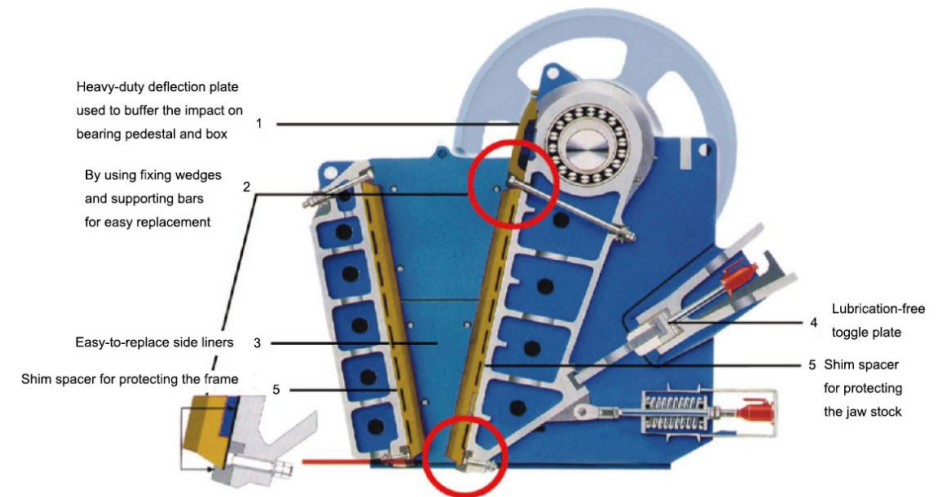


MJ Heavy-duty Jaw Crushers

MJ Series Heavy-duty Jaw Crushers are mainly used for primary crushing stage operations in industries such as mining, aggregate, and recycling. In some cases, they can also be used for secondary crushing operations, such as for the manufacturing of coarse aggregate products in the construction field. Generally, a single processing capacity of less than 1000t/h in mining and aggregate applications. Jaw Crusher offers more advantages than other types of primary crushers in terms of overall investment, maintenance and operation management.

MJ Series Heavy-duty Jaw Crushers are single-toggle jaw crushers. The front-end and back-end frames as well as the box structure design of the jaw stock possess high strength and stiffness for steel casting. The welding points of the frame are located in non-stress concentration areas, thus ensuring the stability of the frame under high impact load. The almost-square feeding opening design provides a larger feeding size, and the symmetrical V-shaped deep cavity design and nip angle of 18-23 degree can overcome cavity blockage and result in large crushing ratio and high throughput.

- The four standard roller bearings of the crusher are lubricated with grease while the labyrinth seal ring is coated in grease to effectively prevent dust from entering.
- CSS adjusted by the adjustment plates, or hydraulic jack assistance mode or hydraulic wedge adjustment mode on request.
- The jaw plates are fixed on the crusher with fixing wedges and supporting strips.
- The use of protective components effectively prevents damage to the main components, reduces the operational costs and downtime. For example, replaceable shim spacers are added between the liners and the frame/jaw stock while replaceable supporting strips are added at the discharge end to protect the jaw bodies against wear. The bearing seat is equipped with heavy-duty deflection plates to prevent wear and tear.
- With a centralized lubrication distributor, all lubrication points are connected by oil pipes to ensure safer and more convenient lubrication of bearings. On the other hand, the automatic lubrication system, which can be connected to the control system for remote alarm indication allows for better protection of the roller bearings.
- For the MJ Series, the use of an integral steel subframe platform is recommended during installation to avoid loosening of foundation bolts.

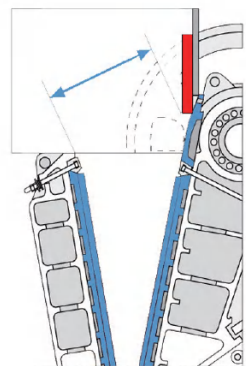


Fully Symmetrical crushing chamber:

Allis Saga symmetrical "V-shaped" chamber
Effective opening = nominal feed opening

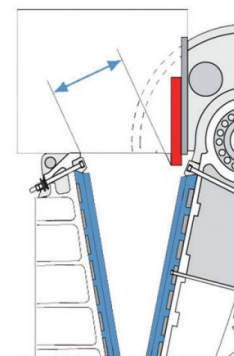
Asymmetrical crushing chamber:

Conventional asymmetrical "V-shaped" chamber
Effective opening < nominal feed opening



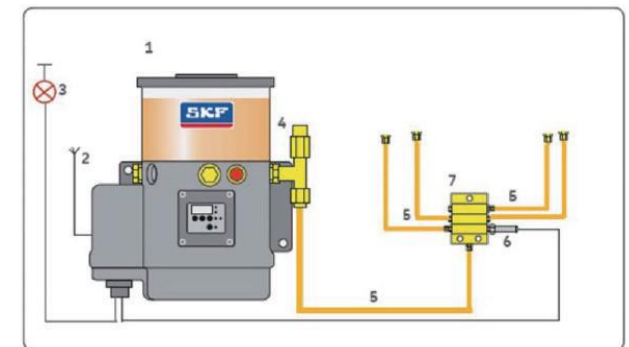
Allis Saga:

A protective plate at the top of the moving jaw means that no intrusive cross-wall is required in the feed hopper. All of the real feed opening is active and the material is crushed right at the top of the crushing chamber.



Conventional:

Cross-wall required in feed hopper to protect top of the moving jaw. Stationary cross-wall reduces effective feed opening and the material cannot be crushed until it has been lowered a good distance into the crushing chamber.



Automatic lubrication device (optional):

Centralized lubrication distributor, providing safety and convenience.

MJ Technical Parameters

Models	Motor power (kW)	Feed opening (mm)	Speed (rpm)	Nominal capacity t/h									
				CSS (mm)									
				75	100	125	150	175	200	225	250	275	300
MJ1208	132	1200×830	240	167-198	222-288	272-354	327-427	385-505	448-578	498-649	552-718	607-788	
MJ1211	160	1200×1100	210			303-392	358-462	405-530	458-592	508-657	563-732	617-802	
MJ1312	160	1300×1130	255			328-433	382-508	440-575	492-654	547-734	602-814	657-888	712-963
MJ1511	200	1500×1070	200			390-490	450-585	505-665	575-740	635-820	705-915	770-995	830-1080
MJ1513	200	1500×1300	200				475-630	545-710	605-805	670-890	740-980	815-1075	880-1165

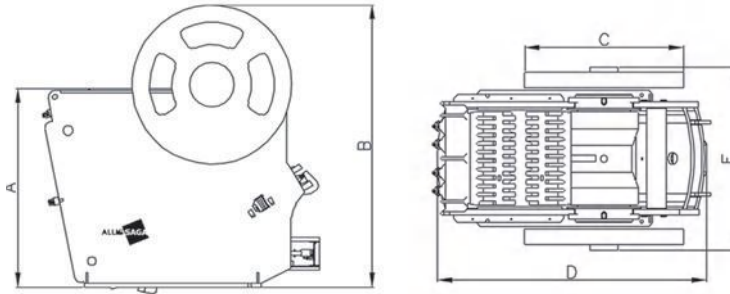
The following factors can improve the capacity and performance of the crusher:

- Selection of appropriate jaw plates
- Appropriate feeding gradation
- Controllable feeding amount
- Sufficient feeding capacity
- Adequate output area of crusher
- Discharge conveyor matching with maximum capacity of crusher

The above figures represent through the crusher capacities, which are based on a feed material with bulk density of 1.6 t/m³, a maximum feed size that will enter the crusher without bridging and material finer than the crusher closed side setting removed.

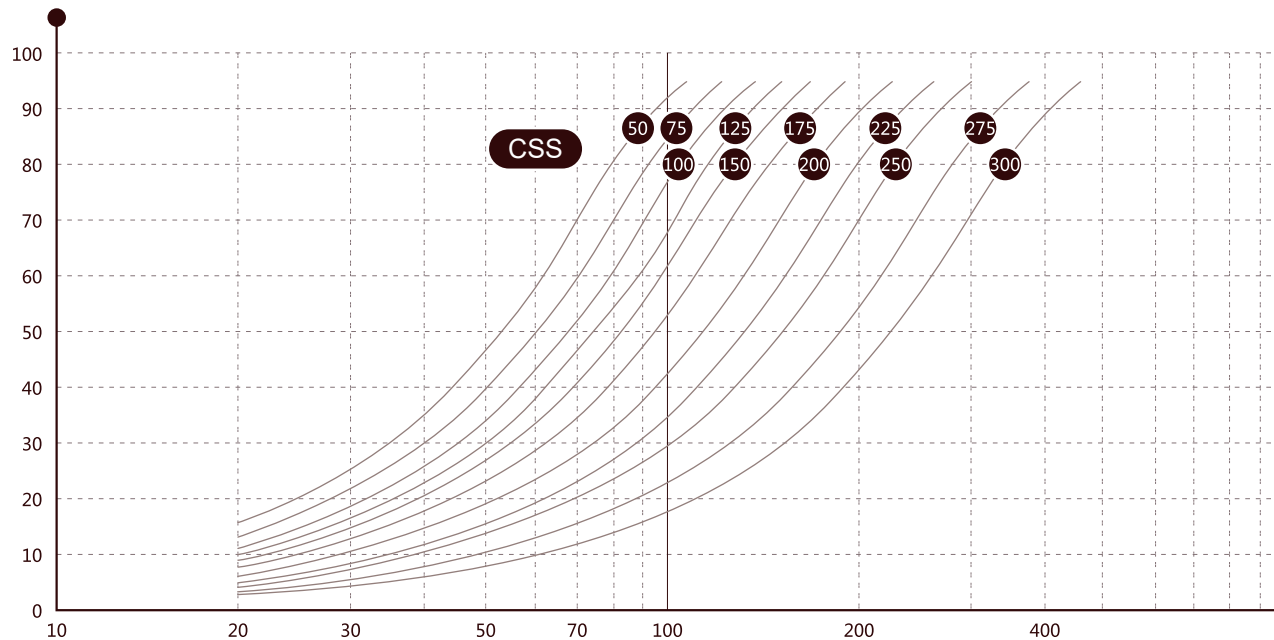
MJ

Installation Parameters



Unit (mm)	MJ1208	MJ1211	MJ1312	MJ1511	MJ1513
Output size	1200×830	1200×1100	1300×1130	1500×1070	1500×1300
A=feeding height	1938	2520	2678	2394	3045
B=maximum height	2950	3508	3843	3330	4186
C=flywheel diameter Ø	1865	1865	2170	1760	2170
D=maximum length	3230	3604	3762	4117	4496
E=maximum width	2570	2347	2468	2992	2894
Weight (excluding motor) (kg)	27000	35600	44700	54000	68900
Motor power (kW)	132	160	160	200	200
Crusher speed (rpm)	240	210	255	200	200

Passing rate %



MJ

Product Curves

The figure shows product distribution curves which are representative for medium-hard material (Impact Work Index $W_i = 16$).

● Square hole size (mm)

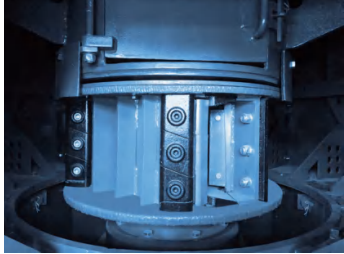


VSI

Vertical Shaft Impact Crushers

VSI series vertical shaft impact crushers utilize the "Rock-on-Rock" crushing technology, which features a unique combination of crushing and grinding in a single machine for the processing of virtually any competent, abrasive, friable or sticky material. It also offers the advantages of a horizontal shaft impact crusher, which gives the product a perfectly cubic shape. On the other hand, it mitigates the disadvantages of conventional horizontal shaft impact crushers, such as high wear and tear costs, low capacity etc.

It is a proven producer of top quality aggregate products for asphalt paving, concrete aggregates or specification sand. It has the capacity to crush a wide range of materials and will process hard, highly abrasive rocks as a matter of course. The high velocity impact crushing achieved in VSI improves the robustness and shape of the stone, thus reducing product moisture and easing the screening task while producing superior products at minimal costs.



Rotor

- Heavy duty rotor and tip/cavity wear plate design allow for improved rock bed retention within the rotor. This results in improved protection to tungsten tip plate preventing, premature failure of tip plate.
- The proven three-ports rotor design is beneficial for balanced rotor lifespan and material discharge efficiency. The modular structure allows for convenient and quick replacement of worn parts.



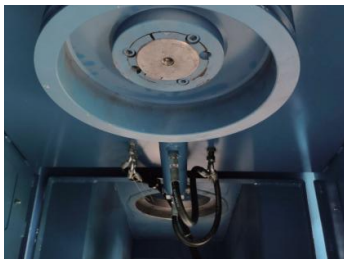
Crushing Chamber

- Optimal cavity design no roof liners required this gives the saving both in cost and maintenance downtime that also ensure no "build up" problem in chamber.
- Circulating air flow, effectively controlling dust spillover.
- Replaceable toe board ring, control plates and throttle gates are manufacturing by hardened material to give an extended trouble free operation.



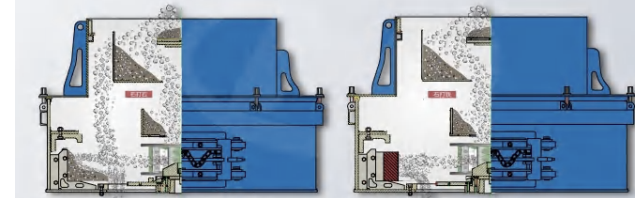
Centralization Grease Lubrication

- Independent lubrication system ensures clean grease for extended bearing life.
- Three greasing nipples and independent flow distribution valves ensure good lubrication effect; dry oil lubrication is more economical and environmentally friendly.



Hydraulic Console

- To operate the rotor throttle gate to control the feed rate to the rotor;
- Adjust the drive belt tightness easier and simple.



Rock-on-Rock

Rock-on-Metal

* The "Rock-on-Metal" mode as optional can be selected, to adapt to crushing and shaping demands for different applications.



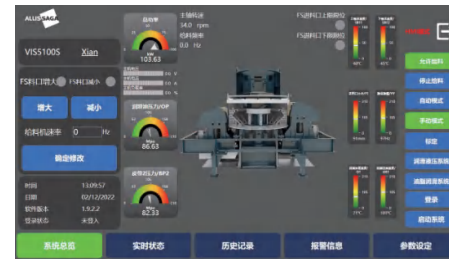
Oil Lubrication System-option

- Shares same design concept as hydraulic cone's tank for heavy-duty applications such as sand manufacturing.
- Mainly equipped to the larger size VSI.
- Better protection of bearings, to extend life time and reduce downtime.



Feeding Materials

- Adjustable overflow rate meets different material characteristics and product requirements.
- Adjustable rotor feed rate ensures continuous production.
- Better control feeding in the center ensures reasonable and stable product particle and gradation.



- **VCIS**——Vertical shaft crusher intelligent control system with 4 main functions of Automation, Monitor, Control, Record, Communicate.

VSI

Technical Parameters & Product Gradation

Models	Max feed size (mm)	Installed power (kW)	Drive	Nominal capacity (t/h)	Speed range (rpm)	Weight (including motor) (kg)
VSI5100	32	55	SINGLE MOTOR	37-64	1500-2100	6800
VSI6100	43	110	SINGLE MOTOR	64-133	1400-1900	8300
VSI7100	58	185	SINGLE MOTOR	113-224	1400-1900	8800
VSI8100S	60	250	SINGLE MOTOR	200-275	1400-1700	14500
VSI8100D	60	2×185	DUAL MOTORS	264-470	1400-1700	14900
VSI9100	66	2×250/2×315	DUAL MOTORS	400-660	1400-1700	15500
XD1200HD	66	2×400	DUAL MOTORS	500-1200	1000-1800	32300

The data provided in the table above shows the approximate application details and the expected total operating weight for each machine. All details are subject to change without prior notice. For precise application and installation details, please contact your nearest Allis Saga office.

The capacity figures given in the table above are approximate and are intended only to give an indication of what the crushers can be expected to produce. They may vary with the feeding method and material properties such as feed size, gradation, moisture etc. They apply for dry blasted granite with a bulk density of 1.6 t/m³.

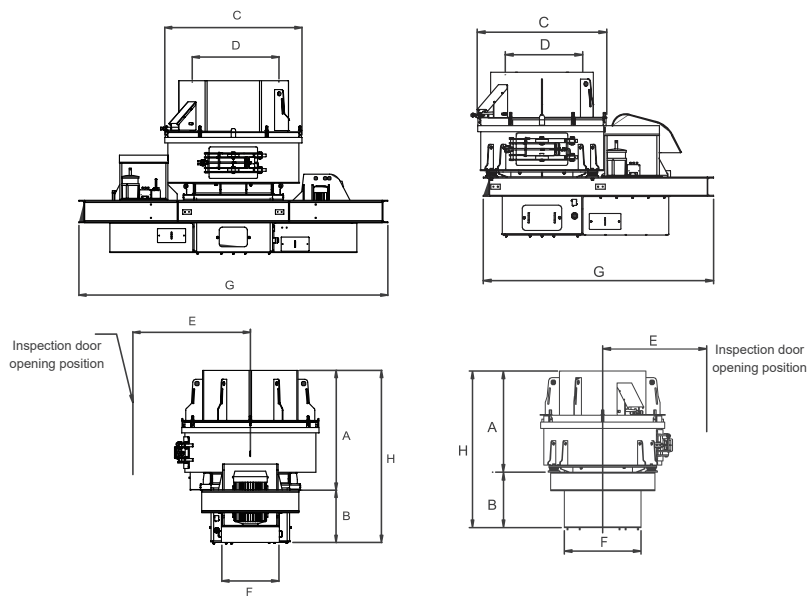
VSI8100S/D, VSI9100 and XD1200HD can be equipped with oil lubrication system.
The max feed size is the maximum side length of the feed material piece.

Size (mm)	Feed size 66~5 (mm)			Feed size 50~5 (mm)			Feed size 25~5 (mm)			Feed size 40~5 (mm)		
	Gradation(%) Rock-on-Rock			Gradation(%) Rock-on-Rock			Gradation(%) Rock-on-Rock			Gradation(%) Rock-on-Rock		
	High	Low	Average	High	Low	Average	High	Low	Average	High	Low	Average
66	✓	100	100									
50	✓	98	98	✓		100						
40	✓	96	95	✓	100	98				✓		100
25	✓	86	82	✓	94	90	✓	100	100	100	✓	96
20	✓	79	69	✓	85	78	✓	99	95	97	✓	91
12.5	✓	68	52	✓	73	60	✓	90	80	85	✓	72
9.5	✓	56	40	✓	62	46	✓	78	62	70	✓	55
6.3	✓	46	30	✓	49	36	✓	62	40	51	✓	43
5	✓	37	25	✓	40	30	✓	52	30	41	✓	36
2.5		26	14		27	19		33	15	24		22
1.25		17	10		19	11		21	11	16		15
0.63		11	6		12	7		15	7	11		11
0.315		7	4		8	5		10	5	7.5		8
0.16		5	3		6	4		6	4	5		6
0.075		4	2		4	3		4	3	3		4

The data in the table is for reference only and can not be used as a normal commitment; Due to the difference of rock, the result is different.
Please contact ALLISSAGA for more information.

VSI

Installation Parameters



VSI8100D, VSI9100, XD1200HD

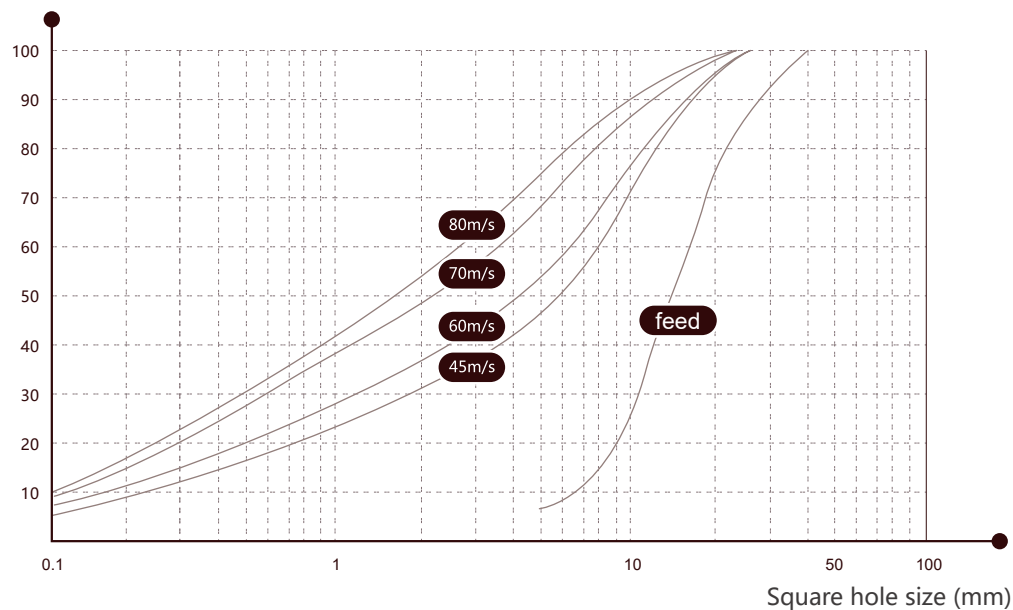
VSI5100, VSI6100, VSI7100, VSI8100S

Model (mm)	VSI5100	VSI6100	VSI7100	VSI8100S	VSI8100D	VSI9100	XD1200HD
A	1212	1648	1648	2139	2130	2130	2421
B	790	905	905	944	931	941	1148
C	1730	2040	2040	2444	2444	2444	3110
D	902	1016	1016	1216	1216	1216	2232
E	1840	1912	1912	2090	2090	2090	2910
F	1070	1270	1250	1420	1420	1420	2150
G	3166	3604	3626	3780	5500	5500	5900
H	2002	2553	2553	3083	3061	3071	3817

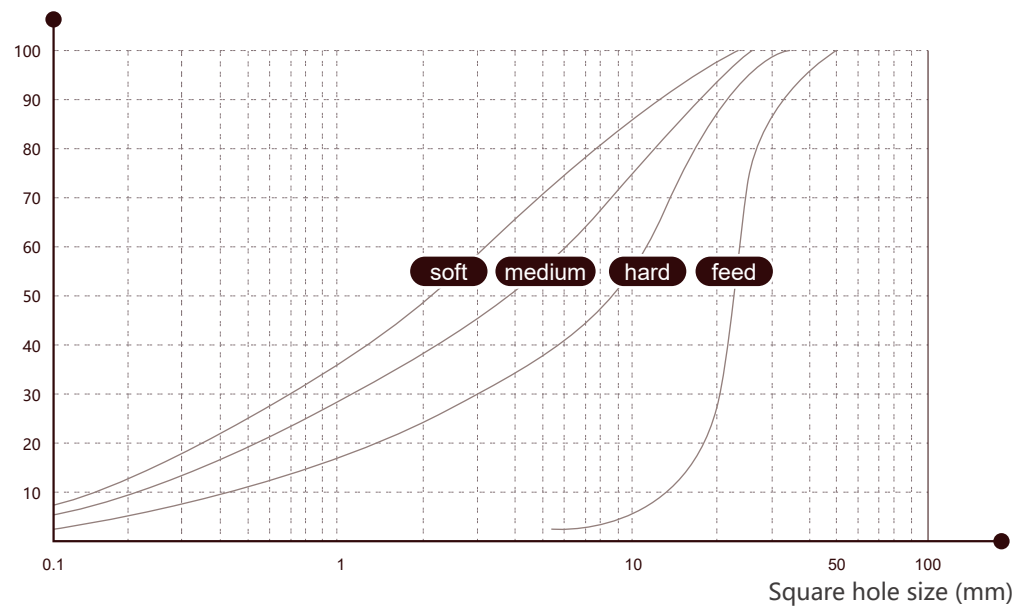
VSI

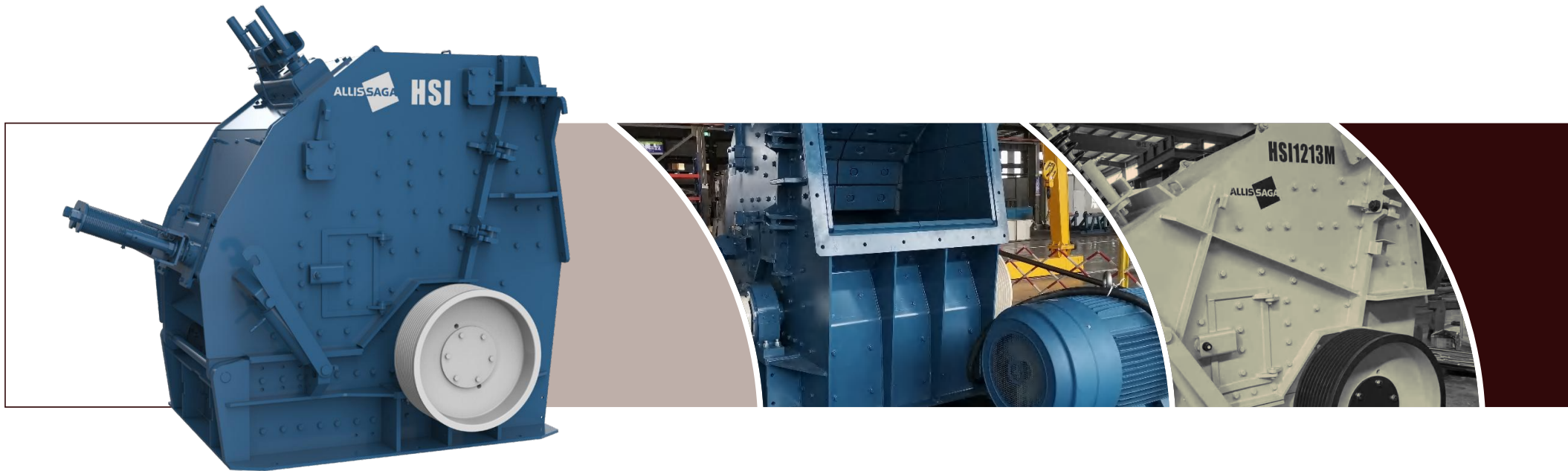
Product Curves

Passing rate (%)



Passing rate (%)





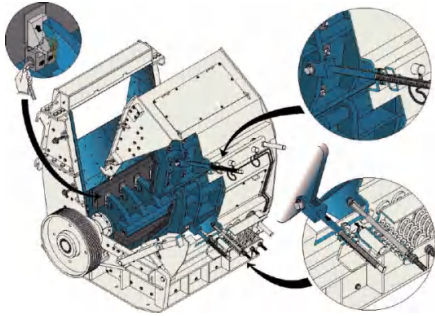
HSI

Horizontal Shaft Impact Crushers

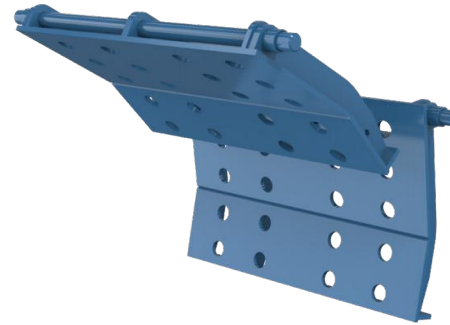
HSI series horizontal shaft impact crushers feature a design that consists of a unique combination of a heavy rotor and a large crusher chamber design, which allows for a larger feed size to increase the rotation inertia. This combination has proven to be beneficial for improving capacity and product quality while reducing operating and wear costs. HSI series impact crushers deliver unparalleled performances in primary, secondary, tertiary and recycling applications.

With a bigger crushing chamber, optimized liners and specific rotors, the crushers boost productivity in every type of application.

The idea of identical rotors for primary and secondary crushers, primary rotors to be able to use the same hammers.

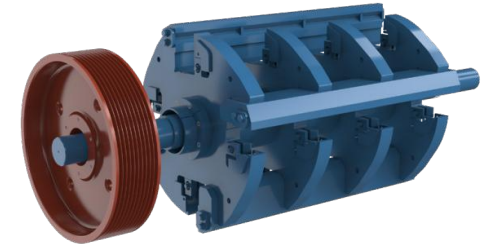


Hydraulic device not only facilitates frame opening, but also provides quick setting adjustment through double acting hydraulic cylinders. The safety pin on the frame prevents accidental startup of the equipment ensuring the safety of maintenance.



HSI crusher can be configured with various break plate quantities for the different material and product requirements.

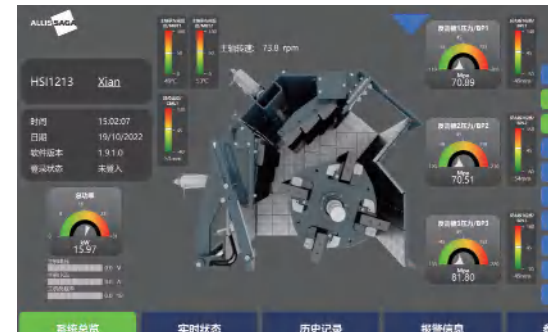
- 1 break plate for small mobile machines;
- 2 break plates mainly for primary and secondary machines;
- 3 break plates mainly for secondary and some tertiary machines.



Optimized the rotor structure design, increases the moment of inertia and improves the throughput and operation stability of the equipment, getting a greater crushing ratio.



Modular design of break plate and side wear plate, which are interchangeable for all models and be replaced according to the wear degree of each part, reducing inventory.



ICIS- horizontal shaft impact crusher intelligent control system with 4 main functions of Automation, Monitor, Control, Record, Communicate.

HSI Technical Parameters

Models	Motor power (kW)	Max feed size (mm)	Feed opening (mm)	Max. speed (rpm)
HSI1313P	200-250	900	1320×1225	700
HSI1415P	250-315	1000	1540×1320	600
HSI1620P	2×200/2×250	1300	2040×1634	500
HSI2023P	2×500/2×630	1500	2310×1986	520
HSI1110S	160-200	600	1020×820	800
HSI1213S	200-250	600	1320×880	700
HSI1520S	2×200/2×250	700	2040×995	600
HSI1213H	250-315	350	1320×560	700
HSI1315H	315-355	400	1540×600	700
HSI1520H	2×250/2×315	400	2040×700	600

P- primary crushing

S- secondary crushing

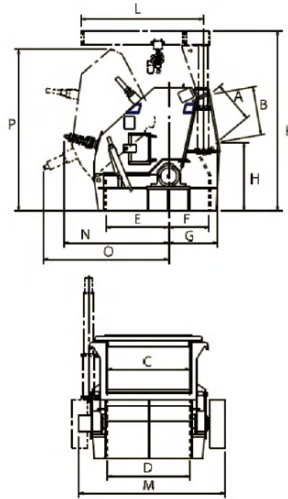
H- Special design for heavy-duty applications

The capacity figures shown apply to material bulk density of 1.6t per cubic meter. The crusher is one component of the circuit. As such, its performance is partly dependent on the proper selection and operation of feeders, conveyors, screens supporting structure, electric motors, drive components and surge bins.

		Crusher nominal capacity t/h			
Primary range	Models	Top Feed Size -800mm		Top Feed Size -600mm	
		End Product - 200mm	End Product - 100mm	End Product - 200mm	End Product - 100mm
		450	300	480	320
		560	365	600	400
		870	570	930	620
		1780	1160	1970	1270
Secondary range	Models	Top Feed Size -400mm (HSI1213H - 350mm)		Top Feed Size -200mm	
		End Product - 60mm	End Product - 40mm	End Product - 40mm	End Product - 20mm
		190	150	210	130
		250	200	280	180
		500	400	560	360
Heavy-duty range	Models	270	215	345	215
		380	300	420	270
		550	440	660	380

HSI

Installation Parameters

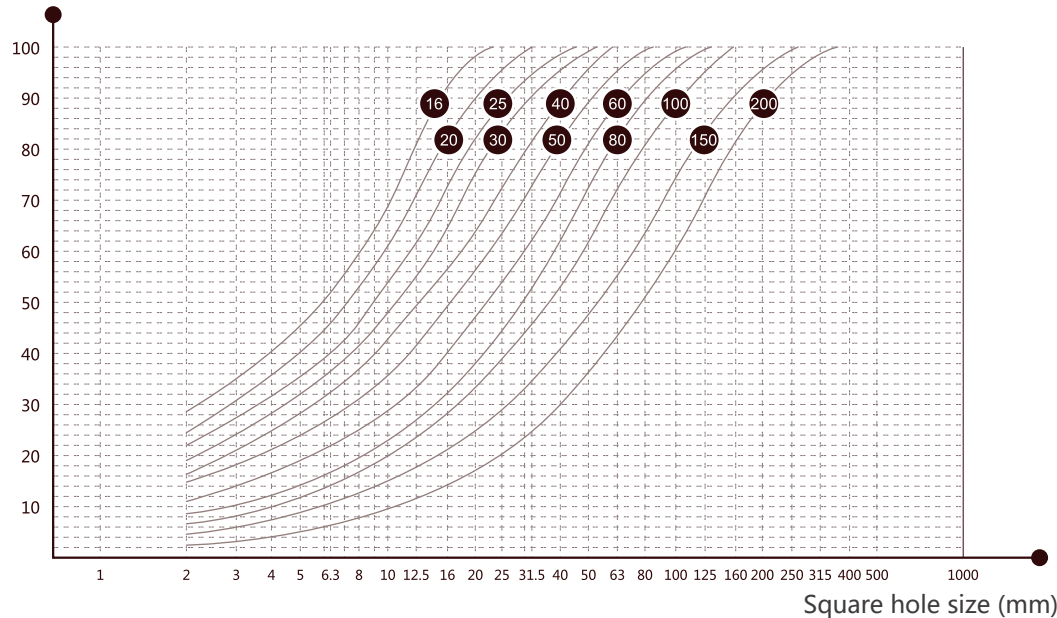


Models	Weight (without motor) (kg)	Rotor weight (kg)	Rotor diameter (mm)	Rotor width (mm)	CSS (mm)															
					A	B	C-D	E	F	G	H	K	L	M	N	O	P			
HSI1313P	17800	6340	1300	1300	1050	1225	1320	1305	760	964	1386	3765	2100	2560	2340	2764	3405			
HSI1415P	22330	8165	1400	1500	1140	1320	1540	1305	800	998	1430	4000	2295	2811	2425	2830	3600			
HSI1620P	41240	15980	1600	2000	1400	1634	2040	1600	920	1270	1772	4950	3000	3820	2630	3105	4400			
HSI2023P	80600	28280	2000	2300	1720	1986	2310	2210	1140	1631	2273	6000	3930	4424	3520	4000	5514			
HSI1110S	9250	3065	1100	1000	710	820	1020	1105	652	796	1125	3055	1800	2106	1830	2030	2716			
HSI1213S	12780	4850	1200	1300	750	879	1320	1120	705	864	1212	3145	2100	2529	1945	2306	2882			
HSI1520S	27100	10400	1500	2000	850	995	2040	1368	885	1055	1518	3950	3000	3400	2336	2763	3540			
HSI1213H	11700	4850	1200	1300	560	560	1320	1106	705	797	1558	3481	3050	2531	1980	3050	2500			
HSI1315H	16130	6370	1300	1500	600	600	1540	1177	700	845	1670	3840	3055	3785	2050	3250	2700			
HSI1520H	26750	12025	1500	2000	700	700	2040	1368	885	974	1932	4157	4000	3720	2284	3663	3088			

HSI

Product Curves & Product Gradation

Passing rate (%)



CSS (mm)

Mesh (mm)	200	150	125	100	80	60	50	40	30	25	20	15
350	100	100	100	100	100	100	100	100	100	100	100	100
250	90	98	100	100	100	100	100	100	100	100	100	100
200	80	90	97	100	100	100	100	100	100	100	100	100
150	72	83	90	97	100	100	100	100	100	100	100	100
125	63	74	81	90	97	100	100	100	100	100	100	100
100	54	66	82	81	90	98	100	100	100	100	100	100
80	45	55	64	70	79	90	95	99	100	100	100	100
63	41	49	53	64	74	84	90	97	100	100	100	100
50	32	41	47	55	63	73	82	90	97	100	100	100
40	29	33	40	46	52	61	72	80	90	95	99	100
31.5	25	29	34	41	49	55	66	76	85	90	97	100
25	20	24	28	34	40	46	57	66	76	84	90	97
20	16	19	24	28	33	38	48	56	64	75	83	90
16	15	18	21	25	30	35	46	52	60	67	77	85
12.5	11	14	17	20	24	29	37	44	50	56	64	68
10	9*	12	14	17	20	25	32	39	44	49	56	60
8	7	10	12	14	17	21	28	34	38	42	48	53
6.3	6	9	10	12	14	18	24	30	33	37	42	46
5	5	8	8	11	13	16	21	26	29	32	37	40
4	4	5	6	7	9	11	15	17	20	23	25	29
2	2	2	3	3	4	5	5	6	7	8	8	9

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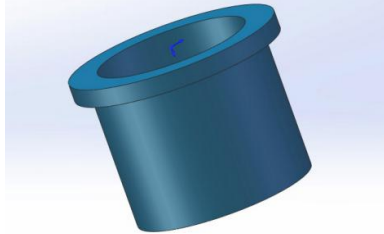
GM

Gyratory Crushers

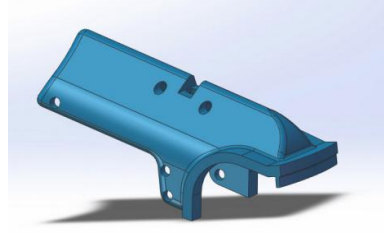
The primary gyratory crushers are the initial driving force for the entire mineral processing circuit. Through extensive research over the years in combination with Allis Saga's expertise more than 10 years in the development of large size cone crushers, Allis Saga has designed and developed the GM series gyratory crushers, which offer high capacity thanks to its generously dimensioned circular discharge opening and the continuous operation principle. Therefore, the gyratory crusher is unmatched in the field of large plants with capacities starting from 1200 t/h and above.

The Main Features of Gm Gyratory Crushers Are:

- High capacities due to increased speed and efficiency.
- High production and strength thank to the Spider, Topshells and Bottomshell are constructed of shock-resistant, high strength cast steel, allowing the use of more powerful drive motors.
- As well as for better crushing economy provided by the steep crushing chamber and long crushing surfaces.



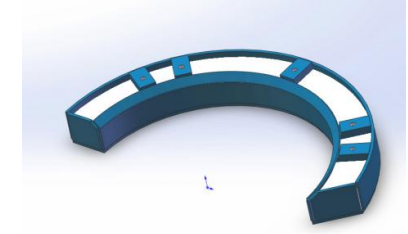
Special design spider bushing made by high grade alloy extends the service life.



Single U-shaped spider liner design better protection the spider and increase feed opening.



Mainshaft heavy-duty design, forged in one piece, no risk of loosening head centers, thereby reducing downtime; alloy steel mainshaft sleeve – no threads to damage on the shaft.



Heavy-duty design counterweight, reducing dynamic load impact by 60% effectively.

- The unique crushing chamber design ensures greater product uniformity, better distribution of wear throughout entire chamber — fewer service problems and lower operating costs alongside improved energy efficiency.
- Super spider, heavy topshell and bottomshell integrated high arch structure that increases the feed opening larger than conventional design more than 30-40%.
- Versatility of changing the Eccentric throw crusher capacity can be matched to plant requirements simply by changing the Eccentric bushing.
- Increasing the speed and horsepower of the drive motor facilitates higher throughput ability of the crusher.
- Safe and reliable supporting design facilitate maintenance and service.

- A. Automation spider lubrication is connected to GCIS control system, which ensures a trouble free lubrication between the spider bushing and the mainshaft sleeve.
- B. Main shaft position sensor system and GCIS system synergistic effect making the setting adjustment easier and a direct indication of the position of the mainshaft, allowing the operator to maintain the crusher setting and monitor liner wear.
- C. External gear and pinion adjustment simplifies and speeds up the backlash adjustment.
- D. Hydraulic lifting platforms are optional. They can help to improve the efficiency of service, maintenance and other operations.



GCIS - gyratory crusher intelligent control system

GM Technical Parameters

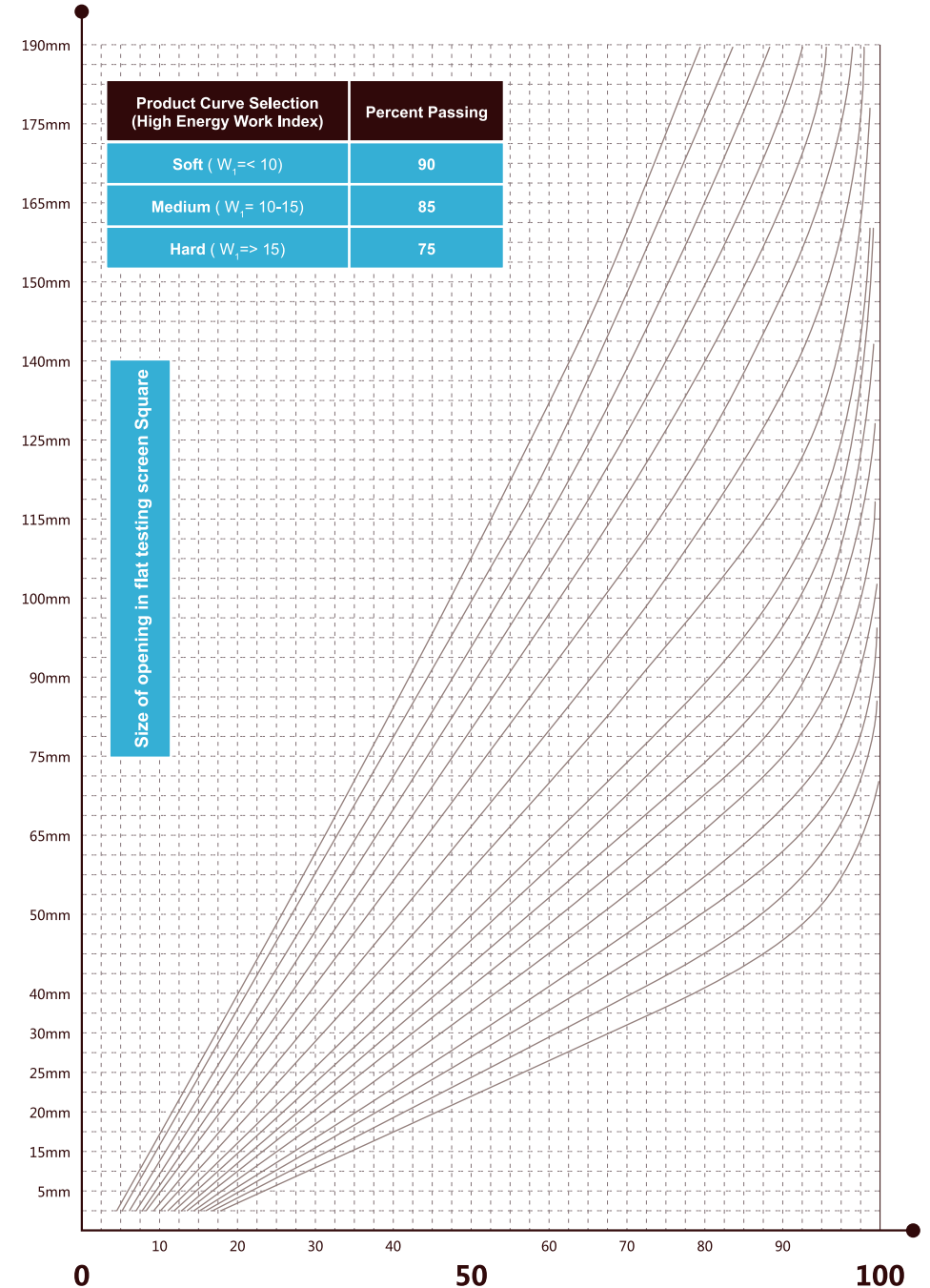
Models	Weight (without motor) (t)	Feed opening (mm)	Max Power (kW)	Pinion speed (rpm)	Max nominal capacity (t/h)
GM4265	120	1065	450	600	5255
GM5065	153	1270	450	600	6370
GM5475	242	1370	600	600	7495
GM6275	298	1575	600	600	8755
GM6089	365	1525	750	600	12495
GM60110	553	1525	1500	600	17000

Models	Nominal capacity t/h					
	Open Size Setting of discharge opening (OSS, mm)					
	150	175	200	230	250	300
GM4265	2350-3355	2895-4130				
GM5065	2410-3443	2960-4223				
GM5475	2910-4154	3170-4528	3517-5015			
GM6275	2915-4158	3850-5493	4360-6238			
GM6089		4575-6530	5342-7622	5850-8347		
GM60110		5580-7968	7396-10561	8350-11915	8967-12796	9855-14066

The above capacities are based on the assumption that 100% of the feed passes 80% of the feed opening, 80% of the feed passes 60% of the feed tosize, and 50% of the feed passes a sieve size that is 10% of the tosize. The capacities are for feed materials with a bulk density of 1.75 metric tons per cubic meter.

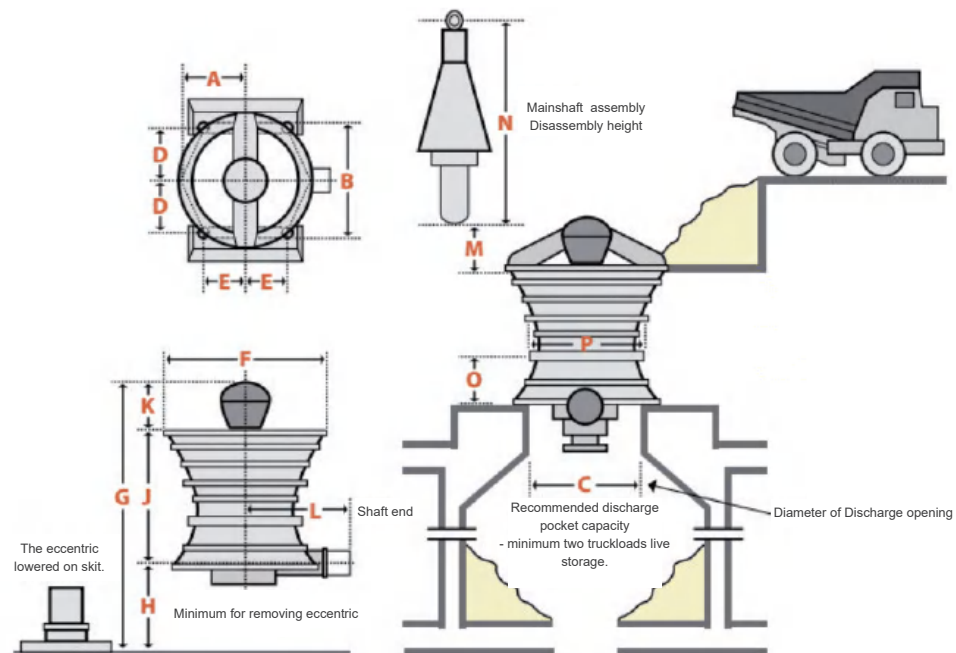
All capacities are calculated at maximum throw for each respective machine and are relative to individual application. Material characteristics, feed size distribution, work index, percent moisture, and feed method are factors when considering total crusher capacity.

PRODUCT GRADATION



GM

Installation Parameters



Models	Unit	A	B	C	D	E	F	G	H	J	K	L	M	N	O	P
GM4265	cm	167.6	358.1	261.6	166.4	152.4	393.7	689.9	209.2	338.5	142.2	219.4	15.2	457.8	125.1	301.0
GM5065	cm	167.6	358.1	261.6	166.4	152.4	445.8	760.7	209.2	400.6	150.7	219.4	15.2	520.0	125.1	301.0
GM5475	cm	204.4	439.4	322.9	207.0	174.0	492.8	840.5	244.8	435.0	160.7	245.4	15.2	563.5	145.4	358.1
GM6275	cm	204.4	439.4	322.9	207.0	174.0	557.4	908.1	244.8	503.7	159.6	245.4	15.2	618.6	145.4	358.1
GM6089	cm	228.6	513.1	374.6	175.3	175.3	558.8	1046.9	299.7	536.6	210.8	264.8	15.2	682.6	175.3	388.6
GM60110	cm	248.9	548.6	442.5	243.8	218.4	619.7	1138.2	386.4	537.2	214.6	283.8	22.9	765.6	185.4	477.5

Approximate Weights of Major Parts

Models	Unit	Total Crusher	Spider Assembly	Top Shell Assembly	Mainshaft Assembly	Bottom Shell Assembly	Mainshaft Position Cylinder Assembly	Eccentric Assembly
GM4265	kg	119,400	19,300	36,300	23,000	28,120	4,000	3,100
GM5065	kg	153,510	30,620	52,520	28,120	28,120	4,000	3,100
GM5475	kg	242,200	38,100	81,600	38,600	62,100	5,400	5,700
GM6275	kg	302,500	67,700	110,385	43,270	62,100	5,400	5,700
GM6089	kg	398,400	65,500	154,800	66,400	83,000	10,500	8,960
GM60110	kg	588,100	102,000	181,400	102,600	136,100	20,100	16,300

Mobile Crushing and Screening Units



W

Series Wheel-mounted Mobile Units

W series wheel-mounted mobile units independently developed by ALLIS SAGA are built based on Allis Saga's crushing and screening equipment. They integrate the equipment, hydraulic and electrical devices and automation systems, conveyors etc on the chassis.

- ✓ Built around tested-and-proven Allis Saga's crushers and screens
- ✓ Everything on board: feeders, screens and power installations
- ✓ Suitable for two- and three-stage crushing applications
- ✓ Quick road transportation thanks to king pin arrangement

It is also a fast and easy way to build a comprehensive plant through the use of predesigned modules, which allow for quick delivery and easy assembly to get the plant up and running in the shortest possible time. Whether building a comprehensive, totally new plant or upgrading the existing plant, W series wheel-mounted mobile units provides high efficiency and industrial performance for quick return on investment.



Three-axle chassis system equipped with a traction device which meets the road transport standards for semi-trailer. It can be towed and driven by a standard tractor, enabling quick transportation.



By using proven products, everything on board: feeders, screens and power installations, combined with the conveyors to quick build up a plant to meet different requirements.



Fixed legs and auxiliary legs are designed for different support requirements during transportation and working states.



Overall power of the equipment can be supplied either by a diesel generator or directly by the power grid, according to on-site operational requirements.



The integrated unit has a simple installation form which eliminates on-site assembly. This ensures product stability and improves operational efficiency.

	Models	Nominal capacity (t/h)	Weight (kg)	Length × width × height (mm)	Crusher Feed opening (mm)	Crusher CSS range (mm)
W-mobile jaw units	WMJC806	60-330	20000	9400×2500×4050	800×510	40-175
	WMJC907	100-390	26000	12000×2500×3300	930×580	60-175
	WMJC1107	150-500	35500	13500×3000×3700	1060×700	70-200
	WMJC1208	160-520	47000	15300×3500×4100	1150×800	70-200
W- mobile cone units	WMS200	70-169	25000	12000×3000×3800	240	19-38
	WMS300	91-345	28000	12500×3100×4000	360	19-51
	WMH200	37-117	25000	12000×3000×3800	135	6-25
	WMH300	56-209	28000	12500×3100×4000	185	6-32
	WMH400	102-395	32000	13000×3100×4000	215	8-38
W- mobile integrated cone unit plant	WUH320S*	56-209	53000	17800×3300×4500	185	6-32
W- mobile cone + screen units	WMH300S*	56-209	37000	13300×3000×4400	185	6-32
	WMH400S*	102-395	42500	15000×3280×4400	215	10-38
W- mobile VSI crsher+screen units	WVSI8100S*	330	28500	13800×3000×4400		
W-mobile screen units	WCSA1850Q	160-400	21000	12000×3000×4300		
	WCSA2060T	160-500	22500	12500×3000×4400		
	WCSA2060Q	160-500	24000	12500×3000×4500		

S* indicates this type of mobile units include screen system.

Due to different configurations, the installed power of the equipment shall be subject to the technical scheme.

The capacities are for feed materials with a bulk density of 1.6 metric tons per cubic.



E Series Dual Power Mobile Units

E (electric) series dual power mobile crushing and screening units are developed by ALLIS SAGA which have been built around proven Allis Saga crushers and screens according to the local and oversea market demand, The products are including track-mounted mobile cones, mobile jaws, and mobile screening units. These mobile units can be driven by the on-board generator set or grid power supply. Product design focuses on the stability and reliability of the entire process, outstanding fatigue strength, which can ensure operation of the units day and night, maximize customer benefits.



	Models	Feed opening (mm)	Max feed size (mm)	Nominal capacity (t/h)	Power (kW)	Length × width × height (mm)	Weight (kg)
Track-mounted mobile jaw crushing station	TJC1107E	760×1020	600	130-500	220	16660×3000×3800	45000
	TJC1208E	850×1150	720	180-500	317	16240×3600×3780	48000
	TJC1209E	1200×870	780	174-542	360	16500×3500×3912	68000
Track-mounted mobile cone crushing station	TMS300E		360	91-214	160	20600×3960×3850	55000
	TMH300E		185	56-209	160	18000×3575×3850	47000
	TMHC400S/E		241	115-441	250	23000×3800×3850	79000
	TMH400S/E		215	102-395	250	23000×3800×3850	76000
	TMHC500E		304	140-631	574	22500×3800×3850	67000
	Models	Screen box dimensions (mm)	Max feed size (mm)	Nominal capacity (t/h)	Power (kW)	Length × width × height (mm)	Weight (kg)
Track-mounted mobile screening station	TSC6018-3/E	1800X6000	150	100-520	50	13700X3600X3800	30000
	TSH6020-3/E	2000X6000	150	130-600	82.5	19440X4000X3850	47000

S* indicates this type of mobile units include screen system.

Due to different configurations, the installed power of the equipment shall be subject to the technical scheme.

The capacities are for feed materials with a bulk density of 1.6 metric tons per cubic.



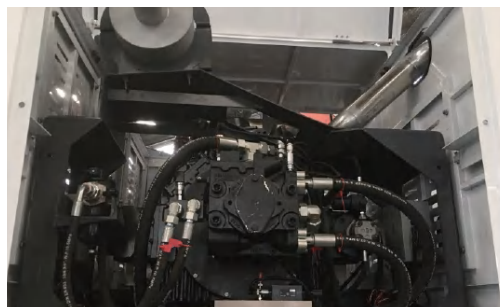
T Series Track-mounted Mobile Units

T series track-mounted mobile crushing and screening units are developed by ALLIS SAGA which have been built around proven Allis Saga crushers and screens according to the market demand. The products are including track-mounted mobile cones, mobile jaws, mobile VSI and HIS impact crushers, as well mobile screening units. These mobile units can be hydraulically driven by the built-in generator set or a diesel-electric hybrid drive (mains supply as the power source + mains supply or built-in generator set as the power source).

These units can be combined and configured freely to set up a crushing and screening plant according to the requirements.



Compact and reasonable module layout reduces the footprint of the whole device.



Imported hydraulic component ensures the reliability and durability of the hydraulic system.



Integrated control system is adopted for the device, highly intelligent and easy to operate.

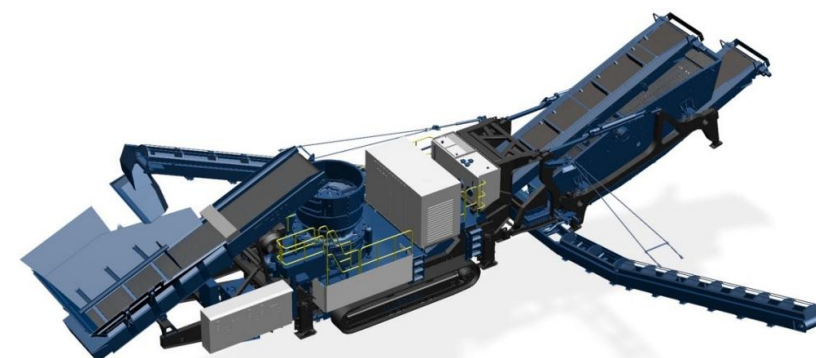


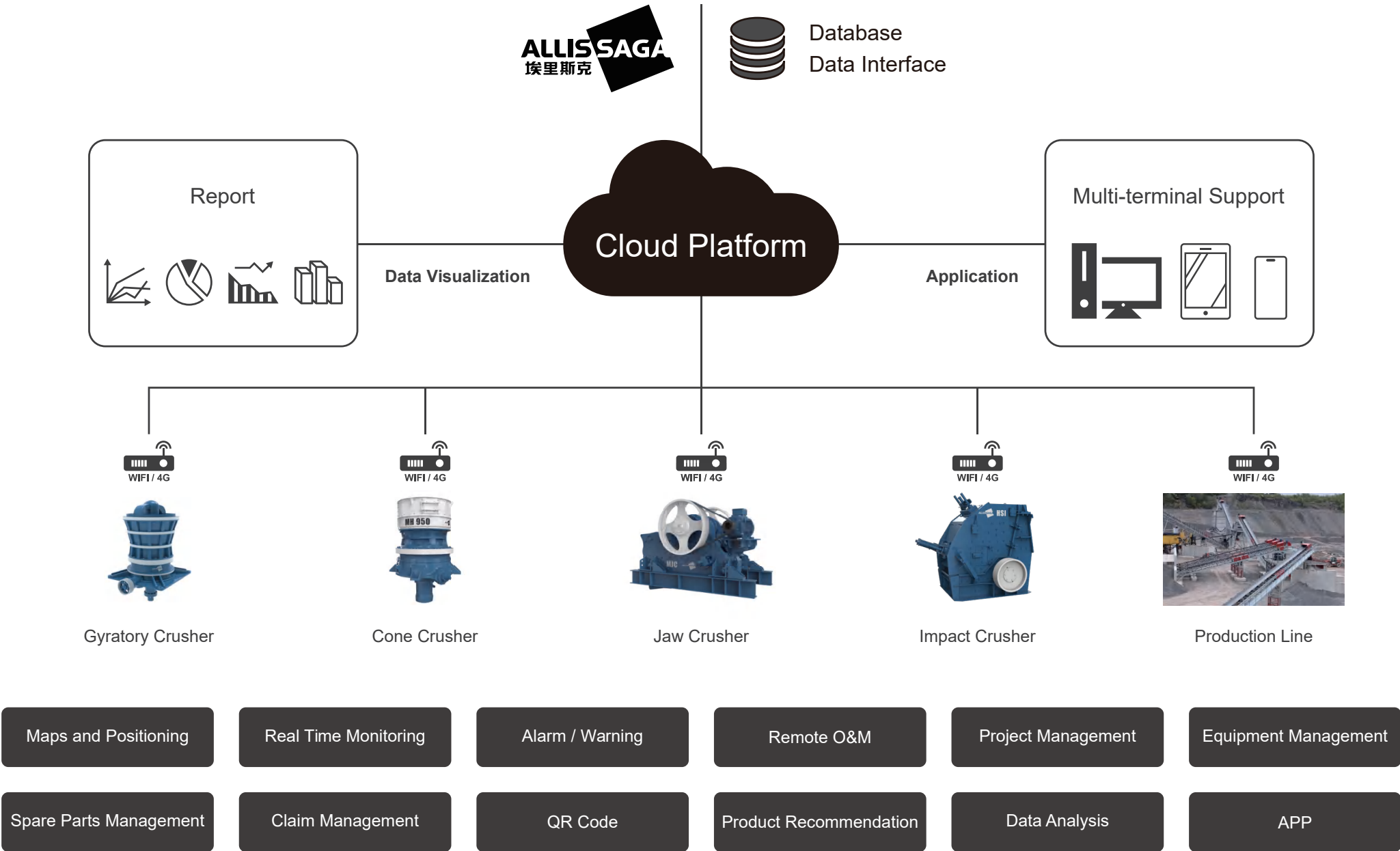
Sensors are used to monitor the operation of the device, with visible alarm signals.

	Models	Feed opening (mm)	Max feed size (mm)	Nominal capacity (t/h)	Power (kW)	Length × width × height (mm)	Weight (kg)
Track-mounted mobile jaw crushing station	TJC1107	760×1020	600	130-500	220	15066×2696×3477	45000
	TJC1208	850×1150	720	180-500	317	16651×3167×3869	65000
	TJC1209	1200×870	780	174-542	356	20200×3920×4400	66000
Track-mounted mobile impact crushing station	TI1213	900×1320	600	190-380	310	19400×3200×3600	51000
	TI1315	930×1540	700	250-350	403	18000×3500×3800	60000
Track-mounted mobile cone crushing station	TMH300		185	100-250	160	20000×3400×3800	42000
	TMH400		215	180-475	250	21000×3500×3900	63000
	TMH600		275	250-550	315	22000×3500×4000	90000
Track-mounted mobile vertical shaft crushing station	TV8100		45	100-450	268.5	15527×3720×3000	36000

	Models	Screen box dimensions (mm)	Nominal capacity (t/h)	Power (kW)	Length × width × height (mm)	Weight (kg)
Track-mounted mobile screening station	TS1554	1524×5480	400	75	18320×3190×3630	22500
	TS1860	1800×6000	800	130	14900×3000×3800	30500

Due to different configurations, the installed power of the equipment shall be subject to the technical scheme.
The capacities are meant for feed materials with a bulk density of 1.6 metric tons per cubic.





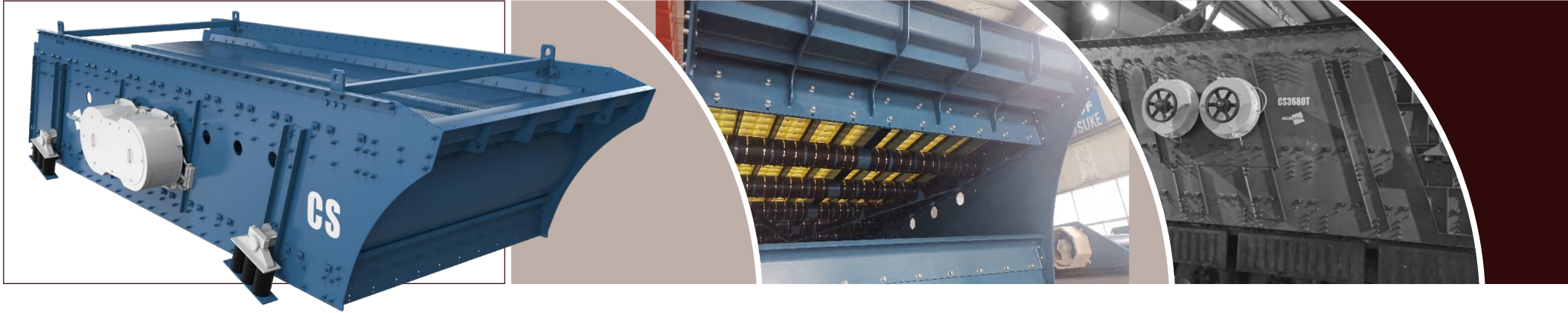
ALLIS SAGA

More Than 20 Series of Various Screens

With internationally-renowned advanced technology and design concepts, Allis Saga's screens are designed and manufactured according to European technical standards and processes. They boast of the following remarkable features:

- Higher screening efficiency and reliability.
- Modular mechanism and vibrator design easy for the product serialization.
- Various screen media for the different applications.





CS

Circular Screens

CS series heavy-duty circular screens adopt advanced European design and manufacturing concepts, which are designed for the heavy-duty quarrying, medium and fine mining screening applications with a separation range from 140mm down to 1 mm, the max feed size is generally up to 300mm somewhat depending on the selected screening media.

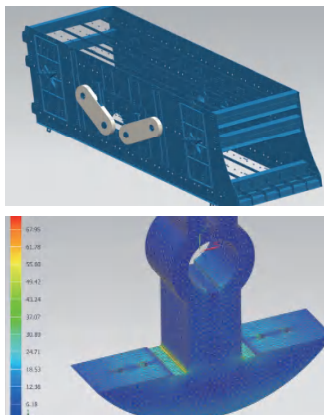
CS range screens are modular and equipped with a serialized design consisting of two or three desk design, auxiliary devices such as water spray system and dust encapsulation are available for selection.

Its Outstanding Features As Follows:

- Acceleration design up to 4.5G, high capacity and high screening efficiency
- Huck-bolting in all structural joints, ensured tightness without the need for further tightening
- Mechanism located close to gravity point, real circular stroke
- Mechanism with oil lubrication, ensured longer life span of bearings and minimum downtime
- Bolted reinforcements on high-stress areas, optimized weight
- Holes for washing pipes in all screens, access and view to the decks
- Adjustability----screen angle, stroke length and rotation speed are adjusted according to the applications

CS

Technical Parameters



CS

Circular Screen

ADVANTAGES

- Due to the unique design eccentric block combined with the eccentric shaft technology, which breaks through the conventional vibration mode, and produces higher G force (up to 4.5G), is real heavy duty and higher efficiency screen.
- Vibrating mechanisms using SKF/FAG roller bearings with the unique oil lubrication.
- Screen body with reinforcing ribs in both the vertical and horizontal directions, to ensure that the screen body sturdy and durable.
- The round tube of the screen cross beams are coated with rubber for protection.
- Wear-resistant rubber plates are used on feed box, discharge lips and the material contact surface for protection.
- Easily adaptable to varying conditions and materials, suitable for multi-application installations.

Models	Screen size (mm)	Slope (°)	Speed (rpm)	Stroke (mm)	Power (kW)	Weight (kg)	Max feed size (mm)
CS1850D	1800×4800	18-20°	600-1100	5-17	22	6940	300
CS1860D	1800×6000	18-20°	600-1100	5-17	22	8325	300
CS1860T	1800×6000	18-20°	600-1100	5-17	30	11085	300
CS2160D	2100×6000	18-20°	600-1100	5-17	30	8420	300
CS2160T	2100×6000	18-20°	600-1100	5-17	37	11730	300
CS2460D	2400×6000	18-20°	600-1100	5-17	30	9920	300
CS2460T	2400×6000	18-20°	600-1100	5-17	37	14280	300
CS3060D	3000×6000	18-20°	600-1100	5-17	37	13025	300
CS3060T	3000×6000	18-20°	600-1100	5-17	2×30	19685	300
CS3075D	3000×7200	18-20°	600-1100	5-17	2×22	19210	300
CS3075T	3000×7200	18-20°	600-1100	5-17	2×37	25415	300
CS3085D	3000×8400	18-20°	600-1100	5-17	2×30	19540	300
CS3085T	3000×8400	18-20°	600-1100	5-17	2×37	28310	300
CS3675D	3600×7200	18-20°	600-1100	5-17	2×37	22110	300
CS3675T	3600×7200	18-20°	600-1100	5-17	2×45	31800	300
CS3685D	3600×8400	18-20°	600-1100	5-17	2×37	26470	300
CS3685T	3600×8400	18-20°	600-1100	5-17	2×45	35805	300

D=Double (two decks)

T=Triple (three decks)

The weight includes the motor and wire media, the weight may vary with the different screen aperture.



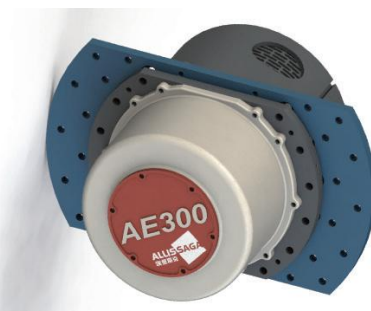
CSA

Circular Screens

CSA (Circular Screen for Aggregate) series screen is equipped with the modular vibration exciter (AE series vibration exciter) developed by Allis Saga. Robust deck frames, Huck-bolting screen body and weld-free side plates provide enhanced durability and reliability. The shaft line is positioned at the center of gravity, resulting in a perfect circular motion results on all points on the screen. Combined with an adjustable slope angle from 12-22°, this circular motion allows for excellent screening efficiency for all types of applications, such as primary, secondary stage and final screening. The weld-free crossmember sections reduce the risk of fatigue stress and optimize the product lifetime. CSA series screens are often the most economical in terms of capital expenditure and power consumption compared to other types of screens.

CSA

Technical Parameters



- Circular motion with up to 4G
- Adjustable incline of 15°-20°
- High safety design
- High-quality wear protection
- Allis Saga modular vibrator
- Automatic lubrication, modular screen media and a spray system and dust encapsulation are available for optional

Models	Screen size (mm)	Slope (°)	Speed (rpm)	Stroke (mm)	Power (kW)	Weight (kg)	Separation size (mm)	Max nominal capacity (t/h)
CSA1640D	1565×3660	18-22°	750-940	8-13	22	6500	5-300	300
CSA1640T	1565×3660	18-22°	750-940	8-13	22	7400	5-300	300
CSA1640Q	1565×3660	18-22°	750-940	8-13	22	9000	5-300	300
CSA1850D	1870×4880	18-22°	720-960	8-13	22	8900	5-300	400
CSA1850T	1870×4880	18-22°	720-960	8-13	30	10500	5-300	400
CSA1850Q	1870×4880	18-22°	720-960	8-13	30	12000	5-300	400
CSA2060D	1870×6100	18-22°	720-960	8-13	22	11800	5-300	400
CSA2060T	1870×6100	18-22°	720-960	8-13	30	12900	5-300	400
CSA2060Q	1870×6100	18-22°	770-980	8-13	37	14000	5-300	400
CSA2560D	2480×6100	18-22°	720-960	8-13	30	13500	5-300	800
CSA2560T	2480×6100	18-22°	770-980	8-13	37	16000	5-300	800
CSA2575D	2480×7500	18-22°	720-960	8-13	37	14500	5-300	900
CSA2575T	2480×7500	18-22°	770-980	8-13	2×37	19000	5-300	900
CSA3075D	3070×7500	18-22°	720-960	8-13	2×30	18500	5-300	1000
CSA3075T	3070×7500	18-22°	770-980	8-13	2×37	24500	5-300	1000
CSA3675D	3600×7500	18-22°	720-960	8-13	2×37	21500	5-300	1200
CSA3675T	3600×7500	18-22°	770-980	8-13	2×45	29500	5-300	1200

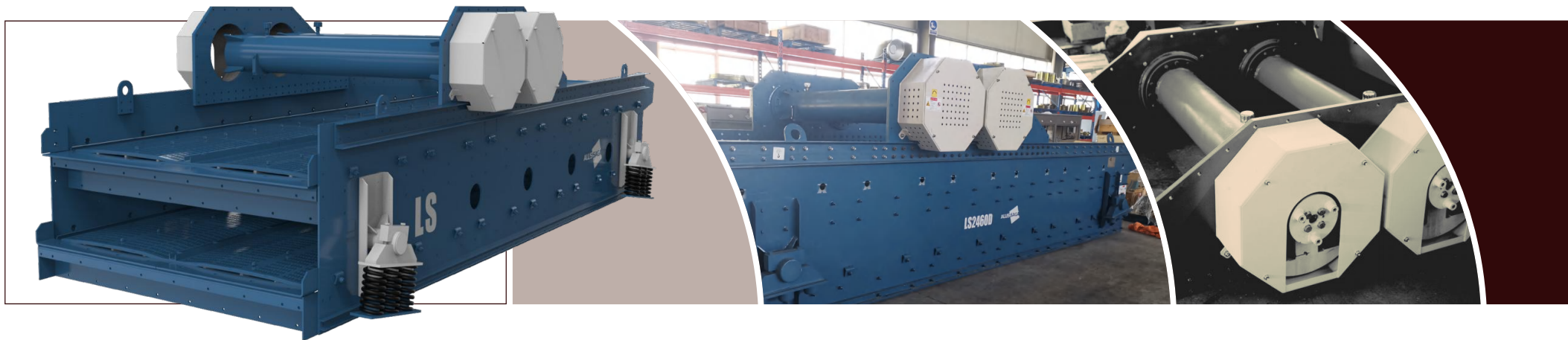
D=Double (two decks)

T=Triple (three decks)

Q=Quadruple (four decks)

The weight includes the motor and wire media, and varies with screen aperture.

The nominal capacity in the table is the data for materials with an average bulk density of 1.6t/m³.



LS

Linear Screens

LS series heavy-duty linear screens are designed for classification screening as well as scalping ahead of cone crusher both in mining and aggregate applications. Its design is based on European technology and manufactured in strict accordance with European technical standards. Thus, it can handle separation size of up to 100mm, combined with linear or elliptical motion of linear and circular vibrating screening that ensures the high screening efficiency and capacity of LS screens. With nearly horizontal installation, LS series linear screens are preferably suited for the limited surrounding facilities installation.

LS

Technical
Parameters

- The screen body and the screen frame are bolted with Huck bolts, ensured screen body sturdy and reliable enough.
- Welding stress completely eliminated after heat treatment of the overall steel structure.
- "Anti-corrosion assembly" process is adopted for the bearings with oil lubrication to guarantee service life.
- Adjustable screen angle, stroke angle and length, rotation speed to meet different processing capacity and screening requirements.
- Large processing capacity and high screening efficiency are the most prominent features of the LS series heavy-duty linear screen.
- Powerful acceleration up to 5.5G, effectively prevent the material blocking on mesh.
- Linear stroke improve the screening performance.

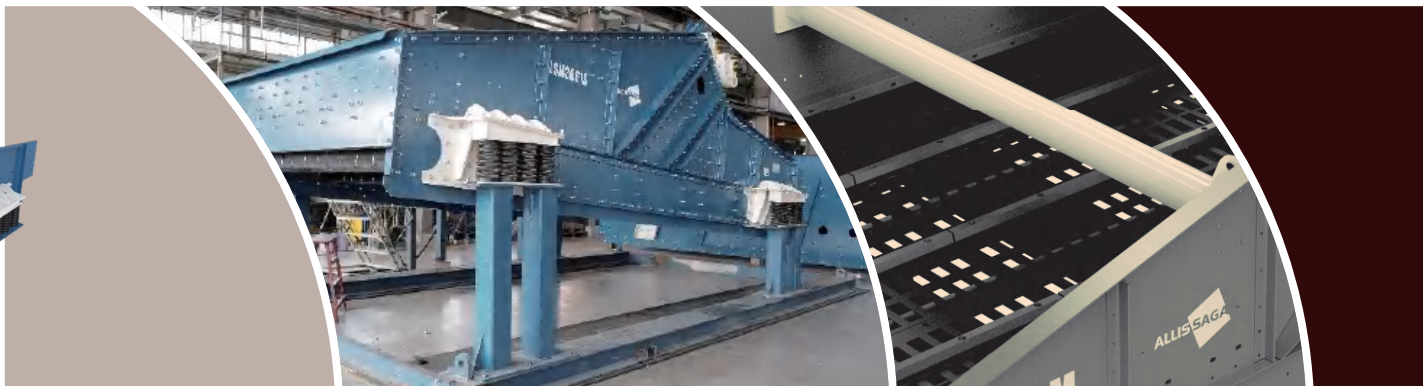
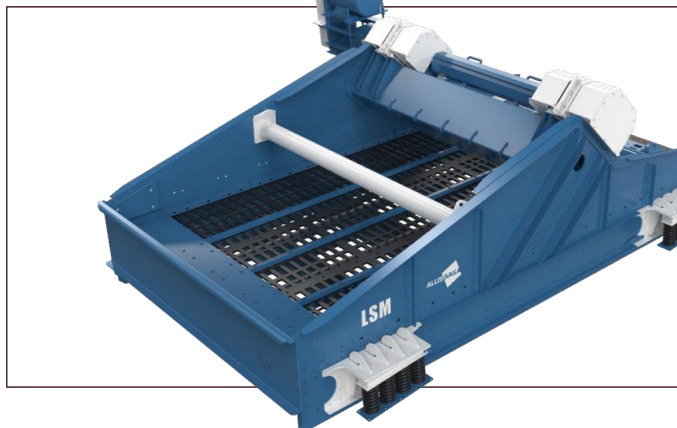
Models	Screen size (mm)	Slope (°)	Speed (rpm)	Stroke (mm)	Power (kW)	Weight (kg)	Max feed size (mm)
LS1550D	1520×5000	0-10°	750-1000	5-16	2×11	4800	300
LS1842D	1820×4200	0-10°	750-1000	5-16	2×11	4500	300
LS1850S	1820×5000	0-10°	750-1000	5-16	2×11	4220	300
LS1850D	1820×5000	0-10°	750-1000	5-16	2×11	5160	300
LS1860S	1820×6000	0-10°	750-1000	5-16	2×11	4700	300
LS1860D	1820×6000	0-10°	750-1000	5-16	2×15	6020	300
LS1860T	1820×6000	0-10°	750-1000	5-16	2×22	8400	300
LS2160D	2120×6000	0-10°	750-1000	5-16	2×15	8770	300
LS2160T	2120×6000	0-10°	750-1000	5-16	2×22	11800	300
LS2440S	2420×4000	0-10°	750-1000	5-16	2×11	5660	300
LS2440D	2420×4000	0-10°	750-1000	5-16	2×22	10660	300
LS2460S	2420×6000	0-10°	750-1000	5-16	2×15	6580	300
LS2460D	2420×6000	0-10°	750-1000	5-16	2×22	11900	300
LS2460T	2420×6000	0-10°	750-1000	5-16	2×30	15700	300
LS3060S	3020×6000	0-10°	750-1000	5-16	2×30	14000	300
LS3060D	3020×6000	0-10°	750-1000	5-16	2×37	16800	300
LS3070D	3020×7000	0-10°	750-1000	5-16	2×45	19800	300

S=Single (single decks)

D=Double (two decks)

T=Triple (three decks)

The weight includes the motor and steel wire screen. The weight may vary with the different screen aperture.



LSM

Linear Screens

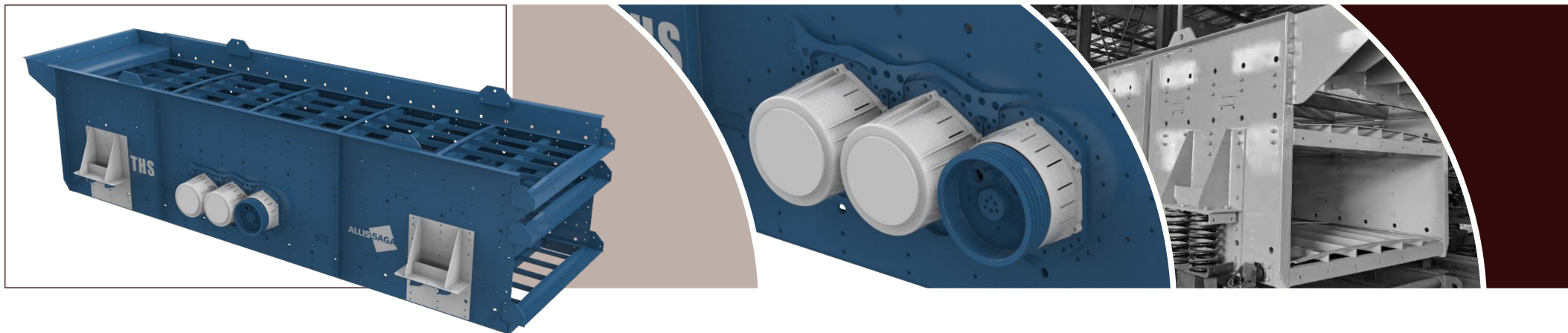
LSM series (Linear Screens for Mining) are specially designed for heavy duty mining wet and fine classification screening, making it especially suitable for SAG mill discharge applications, which can handle separation size 0.3 - 100mm. The design of LSM screens is based on European technology and manufactured in accordance with European technical standards.

Main Features and benefits:

- High efficiency due to maximum material retention on the screening surface
- High acceleration linear motion vibrator
- Great solution when low head room is required
- Design with single desk and double desk

Models	Width of screen (mm)	Length of screen (mm)	Speed (rpm)	Stroke (mm)	Power (kW)	Weight (kg)
LSM2461S	2440	6100	750-1000	6-13	37	9700
LSM2461D	2440	6100	750-1000	6-13	55	13570
LSM3061S	3050	6100	750-1000	6-13	45	11560
LSM3061D	3050	6100	750-1000	6-13	55	21700
LSM3073S	3050	7320	750-1000	6-13	55	14400
LSM3073D	3050	7320	750-1000	6-13	75	24750
LSM3661S	3660	6100	750-1000	6-13	55	13950
LSM3661D	3660	6100	750-1000	6-13	75	23700
LSM3673S	3660	7320	750-1000	6-13	55	17900
LSM3673D	3660	7320	750-1000	6-13	90	31900
LSM4361S	4270	6100	750-1000	6-13	75	22050
LSM4361D	4270	6100	750-1000	6-13	90	37500
LSM4373S	4270	7320	750-1000	6-13	75	22600
LSM4373D	4270	7320	750-1000	6-13	90	40600
LSM4385S	4270	8540	750-1000	6-13	75	23800
LSM4385D	4270	8540	750-1000	6-13	110	43900

- HEAVY DUTY construction: the screen body and the screen frame are bolted with Huck bolts, no welding structure, which is safe and reliable.
- Closed box type LOW - HEAD VIBRATOR generates the large excitation force to provide higher acceleration, high-capacity long life SKF or FAG roller bearings - less heat generation.
- Cross beam designed with square hollow section profile for maximum torsional rigidity which are coated with special protection rubber or Linatex sheet, heavy duty mechanism support beam manufactured with laminated profile and submitted to stress relief.
- Modular and standard component design for easy maintenance and replacement, wear protection with replaceable modular rubber liners, assure easy maintenance, reducing down-time.



THS

Technical Parameters

Triple Shaft Horizontal Screens

THS series screens are horizontal elliptical motion screens. This screen is extremely compact in order to achieve the best portability and the limited surrounding facilities installation. The unique triple shaft line generates a high-energy elliptical vibration. The combination of horizontal decks + high acceleration + aggressive elliptical vibration provides a strong stratification of the bed depth, which leads to high screening accuracy.

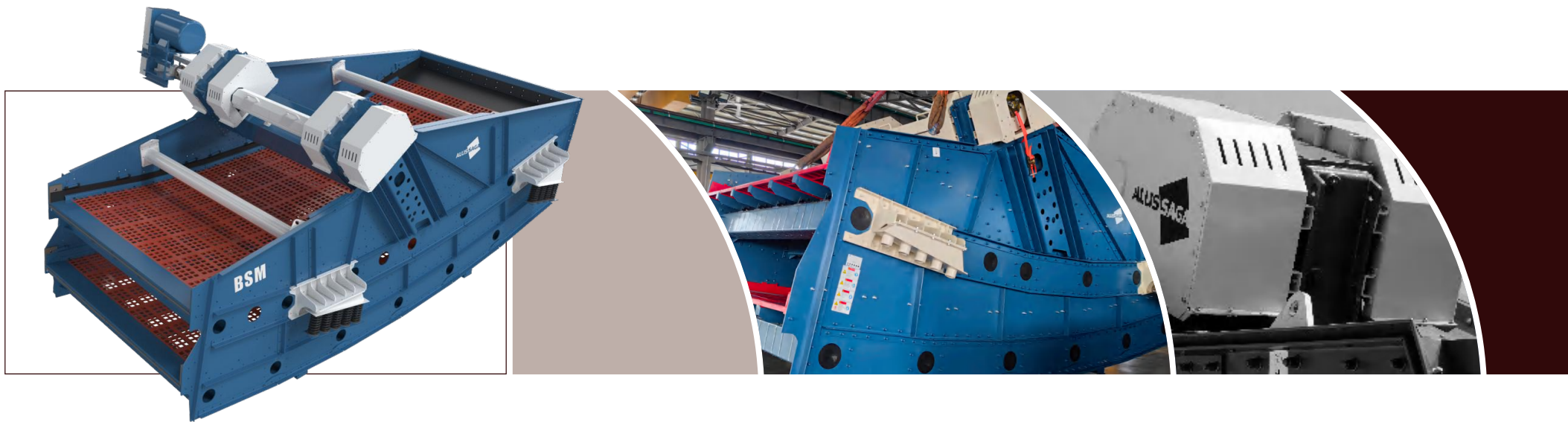
- The three shaft screens are known as high energy screens with stroke up to 20mm and acceleration up to 6G.
- Modular Allis Saga AE exciter ensures more stable operation of the screen.
- Low head and horizontal installation, preferred application on limited height surrounding.
- The capacity increased 20-25% due to unique ellipse motion compared to the same size of conventional inclined screens.

Models	Screen size (mm)	Slope (°)	Speed (rpm)	Stroke (mm)	Power (kW)	Weight (kg)	Separation size (mm)	Max capacity (t/h)
THS1649T	1600×4900	0°	770-975	8.5-18.6	37	9000	3-100	400
THS1861D	1800×6100	0°	770-975	8.5-18.6	37	9400	3-100	500
THS1861T	1800×6100	0°	770-975	8.5-18.6	37	12200	3-100	600
THS1849D	1800×4900	0°	770-975	10-18.6	37	9500	3-100	450
THS1849T	1800×4900	0°	770-975	10-18.6	37	12500	3-100	450
THS2161D	2100×6100	0°	770-975	10-18.6	37	13300	3-100	600
THS2161T	2100×6100	0°	770-975	10-18.6	55	14300	3-100	700
THS2461D	2400×6100	0°	770-975	10-18.6	55	15600	3-100	700
THS2461T	2400×6100	0°	770-975	10-18.6	55	18400	3-100	800

D=Double (two decks)

T=Triple (three decks)

The capacity listed in the table is the data for materials with an average bulk density of 1.6t/m³.



BSM

Banana Screens for Mining

BSM series screens are designed for arduous mining and coal applications and are equipped with innovative modularity heavy duty Closed box type LOW - HEAD vibrator that has high acceleration linear motion, reliable and stable operating, easy for maintenance.

High capacity and efficiency due to multi-slope design, special suitable for prescreening before proceeding to the secondary crusher and final production separation screening.

Heavy duty mechanism support beam manufactured with laminated profile and submitted to stress relieve, cross beam designed with square hollow section profile for maximum torsional rigidity. Huck bolted T-cleats and vulcanized rubber liners assure longer life span.

They are using heavy duty vibrator the same as Closed box type LOW - HEAD VIBRATOR of LSM series screens.

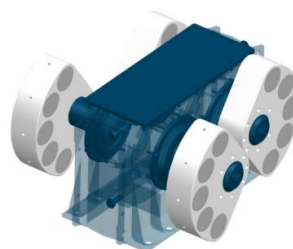
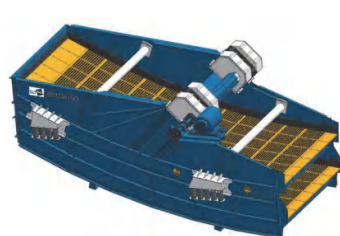
BSM

Installation Parameters

BSM

Banana Screens for Mining

- Huck bolted fixture between side plates and cross members - no welding. Side plates reinforced with vertical and horizontal stiffeners for extra strength.
- High capacity long life cylindrical roller bearings - less heat generation due to reduced friction when compared with self-alignment type and oil bath lubrication.
- Options for modular mesh, isolation frame and dust encapsulation.



Models	Screen size (mm)	Speed (rpm)	Stroke (mm)	Power (kW)	Weight (kg)	Separation size (mm)
BSM2461S	2440×6100	750-950	9-12	37	13850	10-200
BSM2461D	2440×6100	750-950	9-12	55	20000	10-200
BSM3061S	3050×6100	750-950	9-12	37	17800	10-200
BSM3061D	3050×6100	750-950	9-12	55	24650	10-200
BSM3075S	3050×7320	750-950	9-12	45	19350	10-200
BSM3075D	3050×7320	750-950	9-12	55	27850	10-200
BSM3661S	3660×6100	750-950	9-12	45	19700	10-200
BSM3661D	3660×6100	750-950	9-12	55	28550	10-200
BSM3675S	3660×7320	750-950	9-12	55	21850	10-200
BSM3675D	3660×7320	750-950	9-12	75	33900	10-200
BSM4361S	4270×6100	750-950	9-12	75	23300	10-200
BSM4361D	4270×6100	750-950	9-12	75	35300	10-200
BSM4375S	4270×7320	750-950	9-12	75	25300	10-200
BSM4375D	4270×7320	750-950	9-12	90	39550	10-200
BSM4385S	4270×8500	750-950	9-12	75	27750	10-200
BSM4385D	4270×8500	750-950	9-12	90	43500	10-200

- HEAVY DUTY construction: the screen body and the screen frame are bolted with Huck bolts without a welding structure, which is safe and reliable.
- Closed box type LOW - HEAD VIBRATOR generates the large excitation force to provide higher acceleration, higher capacity, and longer life span SKF or FAG cylindrical roller bearings - less heat generation.
- Cross beam designed with square hollow section profile for maximum torsional rigidity which are coated with special protection rubber or Linatex sheet, heavy duty mechanism support beam manufactured with laminated profile and submitted to ease and reduce stress.
- Modular and standard component design for easy maintenance and replacement, wear protection with replaceable modular rubber liners, assure easy maintenance, reducing down-time.

S=Single (single decks)

D=Double (two decks)



BSA

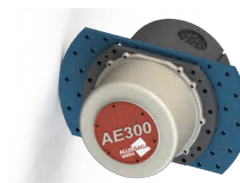
Technical Parameters

Banana Screens for Aggregate

BSA series banana screen is a triple-slope screen(25°/20°/15°) ensuring a fast travel speed with an elliptical motion in the first slope, medium travel speed and circular motion in the second slope, and a low travel speed, backwards rotating elliptical motion in the last section. The slower travel speed and strong stratification effect allows for more time and a larger surface area for screening the near-size particles. A single shaft located above the center of gravity generates the elliptical motion with variable angles.

BSA Series banana screen delivers up to 40% more capacity than a standard inclined screen -- especially when the feed material contains a high percentage of fines, ideal for the fine screen from the secondary stage to final accurate sizing in aggregate industry.

- Unique three slope design ensures higher capacity and efficiency for the screen, and help customer to produce high quality production.
- Allis Saga modular AE exciter with SKF/FAG bearings to make sure the high reliability.
- Huck bolted between screen body and desk, no welding structure, more sturdy and durable.



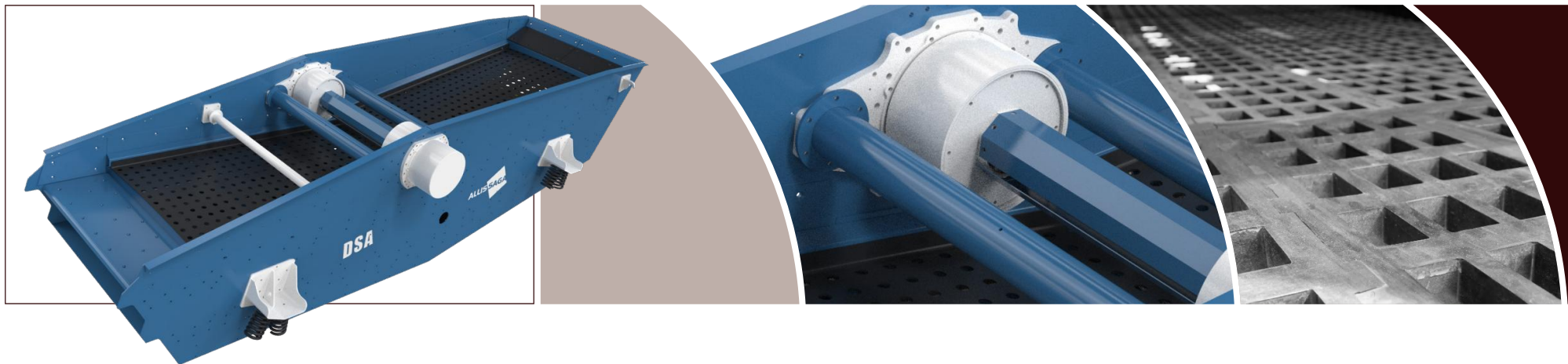
Modular vibration exciter

Models	Screen size (mm)	Slope (°)	Speed (rpm)	Stroke (mm)	Power (kW)	Weight (kg)	Separation size (mm)	Max capacity (t/h)
BSA1550D	1500×5000	25°/20°/15°	750-940	6-13	22	6500	10-200	400
BSA1550T	1500×5000	25°/20°/15°	750-940	6-13	22	7500	10-200	400
BSA1861D	1800×6100	25°/20°/15°	720-965	6-13	22	9000	10-200	550
BSA1861T	1800×6100	25°/20°/15°	720-965	6-13	22	11500	10-200	550
BSA2461D	2400×6100	25°/20°/15°	770-980	6-13	30	13500	10-200	700
BSA2461T	2400×6100	25°/20°/15°	770-980	6-13	30	15500	10-200	700
BSA2583D	2445×8300	25°/20°/15°	770-980	6-13	30	17500	10-200	1000
BSA2583T	2445×8300	25°/20°/15°	720-965	6-13	2×22	22000	10-200	1000
BSA3082D	3000×8200	25°/20°/15°	720-965	6-13	2×22	22500	10-200	1200
BSA3082T	3000×8200	25°/20°/15°	770-980	6-13	2×30	30000	10-200	1200

D=Double (two desk)

T=Triple (three desk)

The capacity listed in the table is the data for materials with an average bulk density of 1.6t/m³.



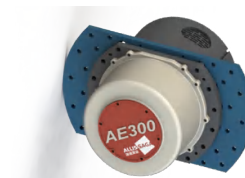
DSA

Technical Parameters

Dual Slope Screens for Aggregate

DSA (Dual Slope Screen for Aggregate) series banana screens are classified as dual slope screens that provide a fast travel speed with an elliptical motion in the first slope, medium travel speed and circular motion in the discharge section to achieve a higher screening efficiency, suitable for the large capacity required and limited installation angle, ideal for mobile screen units.

- Compact structure design, high capacity, ideal for the modular and mobile screen application.
- Double slope to make sure high screening efficiency.
- Allis Saga AE modular exciter with SKF/FAG bearings to ensure the high reliability.
- Drive mode: electrical or hydraulic.



Modular vibration exciter

Models	Screen size (mm)	Slope (°)	Speed (rpm)	Stroke (mm)	Power (kW)	Weight (kg)	Separation size (mm)	Max capacity (t/h)
DSA1840D	1800×4000	15-25°	750-950	8-12	15	10-200	5000	350
DSA1840T	1800×4000	15-25°	750-950	8-12	15	10-200	5800	400
DSA1860D	1800×6100	15-25°	750-950	8-12	15	10-200	5500	450
DSA1860T	1800×6100	15-25°	750-950	8-12	22	10-200	6000	500
DSA2055T	2000×5500	15-25°	750-950	8-12	22	10-200	6500	500

D=Double (two decks)

T=Triple (three decks)

The capacity listed in the table is the data for materials with an average bulk density of 1.6t/m³.

MHF

High Frequency Screens

MHF High Frequency Screen

Modular high frequency screens are powered by several sets of vibrators, which induce high frequency vibration directly into the screen mesh, with a frequency range of 3500-4200Hz. They are especially suitable for screening fine materials with small particle sizes (the minimum classification particle size is 0.6mm). Due to the large inclination installation angle (38-45°), the high frequency vibrating screens have a large throughput and stable operation, making them especially suitable for grading and screening in high-quality dry production processes such as sand manufacturing with fine particle sizes and recycling processes.

MHF series high frequency screens adopt professionally designed high frequency vibrating motors, which have a simpler structure compared to high frequency screens driven by hydraulic motors commonly seen in the market, resulting in low failure rate, quick and convenient on-site installation.

MHF

Technical Parameters

- The combination of high frequency motion and large inclination allows for the highest screening efficiency and processing capacity.
- Has a unique advantage on the dry method sand manufacturing processing for the sand gradation adjustment.
- The screen is designed with modular beam-frame structure in the longitudinal direction, which vibrates independently. The side plates are fastened with HUCK bolts.
- The power supply and electrical control system are modular and feature a BUS design to enable easy wiring and quick assembly.
- It is equipped with a frequency conversion control cabinet, which supports setting and controlling the vibration frequency of individual vibration exciter independently to obtain the best screening effect.



- Three screen desk frames are independently situated
- Modular dust curtain provided



- Independent vibration exciter screen beam
- The vibration frequency of each drive unit can be set separately according to the feed material characteristics



- Side plates using integral steel bending structure
- HUCK bolts fixture between side plates and beams
- Weldless screen body

Models	Screen size (mm)	Slope (°)	Speed (rpm)	Stroke (mm)	Power (kW)	Weight (kg)	Separation size (mm)	Max capacity (t/h)
MHF1860	1800×5500	38-45°	3000	0.5-2.8	18.2	5700	0-20	70-300

The capacity listed in the table is the data for materials with an average bulk density of 1.6t/m³.



FS

Technical Parameters

Grizzly Screen

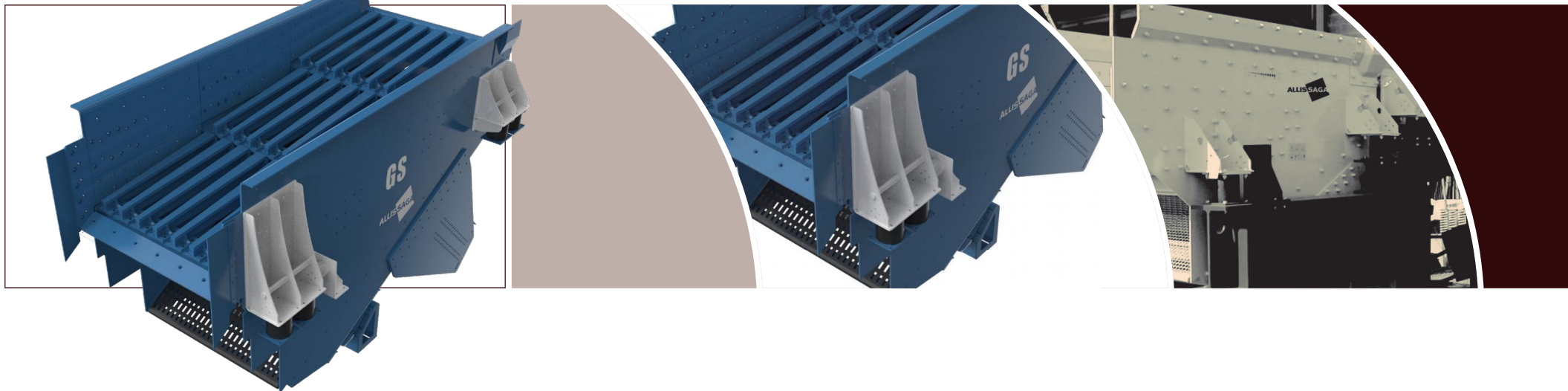
FS Grizzly Screens are robust linear-motion screens designed for heavy-duty scalping. The main purpose of scalper screen is to remove fines from the feed before primary crushing. FS screens are suitable for mining and aggregate applications. It is often combined with a reciprocating plate feeder when heavy dump loads and high capacity is required, in conjunction with a by-pass of the fines ahead of the crusher.

FS screens have their vibrating mechanism mounted under the feeder body as the standard. The double shaft mechanism generates a linear stroke, which consequently means a better feeding as well as a sustained material speed on the screen. FS screens are available with 2, 3 and 4 grizzly steps for the single deck models, depending on the size of the screen. The double deck models are equipped with grizzlies on the top deck and wire/rubber media on bottom deck (not for fines and classification screening). The drive unit incorporates two motors with cardan shafts (self-synchronizing mechanism, no gear wheels) and the components of the mechanism are mainly the same as that of the LS screens. The double shaft mechanism makes the installation slope of 5 degrees sufficient in most cases.

- Double shaft mechanism generates a linear stroke that delivers better performance.
- Versatile adjustment possibilities enable best achievable scalping performance.
- Large separation range available with one or two deck construction.
- High acceleration keeps the grizzly section clean Low headroom requirement gives an advantage for lay-out designing.

Models	Grizzly length (mm)	Size of screen		Speed (rpm)	Double amplitude (mm)	Power (kW)	Weight (kg)	Maximum feeding
		surface (mm)	Slope (°)					diameter (mm)
FS1831	2×900	1820×3000	0-10°	800-1000	5-12	2×11	6400	1500
FS1541	3×900	1520×3900	0-10°	800-1000	5-12	2×11	6500	1200
FS1841	3×900	1820×3900	0-10°	800-1000	5-12	2×11	7850	1500
FS2141	3×900	2120×3900	0-10°	800-1000	5-12	2×18.5	9260	1500
FS1851	4×900	1820×4800	0-10°	800-1000	5-12	2×18.5	10500	1500
FS2151	4×900	2120×4800	0-10°	800-1000	5-12	2×22	11640	1500
FS2451	4×900	2420×4800	0-10°	800-1000	5-12	2×30	15500	1500
FS1542	3×900	1520×4200	0-10°	800-1000	5-12	2×18.5	9400	1200

The weight includes motor and grizzly bars (gap=100 mm). The weight varies with the gap of grizzly bars.



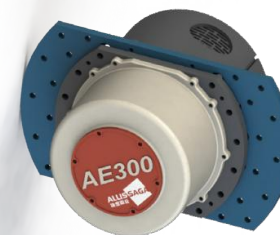
GS

Technical Parameters

Grizzly Screens

GS series grizzly screens are equipped with a modular vibration exciter mounted under the machine body. These screens are specifically designed for heavy-duty operating conditions in order to achieve high throughput. They are capable of processing highly abrasive materials, with a maximum capacity 1500TPH and maximum feed size of up to 1500 mm. The GS series grizzly screens perfectly complement the FS series grizzly screens.

- Modular vibration exciter, linear motion with higher G force of up to 5.5, making it highly reliable and durable.
- It is used in combination with PF pan feeder, reciprocating plate feeder, apron feeder.
- Its frequency and stroke are adjustable to achieve excellent pre-screening effect.
- The frame is fastened by Huck bolts to ensure overall strength.
- Bottom desk: Wear-resistant plate chute or wire or rubber media to be installed upon request.



Models	Screen size (mm)	Slope (°)	Speed (rpm)	Stroke (mm)	Power (kW)	Weight (kg)	Max feed size (mm)	Max capacity (t/h)
GS1635	1600×3500	0-10°	800-1000	8-12	22	7960	1000	750
GS1645	1600×4500	0-10°	800-1000	8-12	30	11500	1200	1000
GS1845	1800×4500	0-10°	800-1000	8-12	30	13560	1350	1200
GS2060	2000×6000	0-10°	800-1000	8-12	55	16000	1500	1500

The weight includes motor and grizzly bars (gap=100 mm). The weight varies with the different grizzly bars gap.

The capacity listed in the table is the data for materials with an average bulk density of 1.6t/m³.



HFS

Technical Parameters

High Frequency Dewater Screens

High Frequency Dewatering Screens are the latest addition to Allis Saga's complete line of vibrating screens for the mining and mineral processing industries. The screens operate at high frequency and are designed for dewatering and desliming operations, such as dewatering sand, coal, and metallic ore slurries. The feed end section is designated at a sharp incline for removal of high percentage of water during the initial stages of screening. The remaining sections are mounted at a slight reverse incline to retain material and compact the bed into a filter cake. The vibration of the screen causes the compacted material cake to move forward and filters the remaining moisture for discharge through the screen surface opening.

- It is designed and manufactured according to European standards.
- Twin electro-mechanical vibrators are mounted to provide a straight – line motion at 45 degrees to horizontal. This sharp action provides both vertical lifting and horizontal conveying action for optimum dewatering.
- Screen body bolted with Huck bolts to ensure overall strength.
- High operating speed increases dewatering capability 1200 - 1800 rpm with up to 1/4" throw.
- Simple stroke adjustment by repositioning weight segments.

Models	Screen area (m ²)	Power (kW)	Desk Number	Weight (kg)	Speed (rpm)	Aperture size (mm)	Max feed size (mm)	Nominal capacity (t/h)
HFS0924	2.23	6	1	1900	1200-1800	0.2-25	50	10-40
HFS1230	3.72	14	1	2400	1200-1800	0.2-25	50	10-50
HFS1236	4.47	14	1	3100	1200-1800	0.2-25	50	10-60
HFS1530	4.65	14	1	3200	1200-1800	0.2-25	50	15-75
HFS1836	6.7	14	1	4000	1200-1800	0.2-25	50	20-100
HFS1848	8.93	16.8	1	5100	1200-1800	0.2-25	50	25-120
HFS2436	8.93	17.8	1	6000	1200-1800	0.2-25	50	40-150

The weight includes vibration motors and modular polyurethane screen. The weight may vary with screen aperture.

The capacity listed in the table is the data for materials with an average bulk density of 1.6t/m³.



ESA

Technical Parameters

Elliptical Screens

ESA (Elliptical Screen for Aggregate) screens feature two unbalanced shaft lines rotating in opposite directions to generate a high-energy elliptical motion. This deceptively simple solution is more efficient than conventional horizontal screens that have a linear motion, and ESA Series is more reliable than other elliptical motion screens. ESA Series separates the materials with consistency and accuracy, even in damp and sticky conditions, such as wet screening or screening of sticky and dirty materials.

- Simple design with no welding structure, making it durable and sturdy.
- The high-energy elliptical motion of the ESA Series provides customers with up to 25% greater capacity than a conventional screen of the same size.
- There are significant advantages on the screening efficiency when wet screening or screening of sticky and dirty materials.
- Allis Saga modular AE exciter to make sure the screen high reliability.
- ESA designed with up to 50% more space between the decks, easy for maintenance.
- Options for centralization lubrication system, modular screen mesh and washing system etc.

Models	Screen size (mm)	Slope (°)	Speed (rpm)	Stroke (mm)	Power (kW)	Weight (kg)	Separation size (mm)
ESA1848D	1870×4880	18°	750-950	8-16.5	15/15	5500	3-150
ESA1848T	1870×4880	18°	750-950	8-16.5	15/22	7500	3-150
ESA1861D	1870×6100	18°	750-950	8-16.5	15/22	8000	3-150
ESA1861T	1870×6100	18°	750-950	8-16.5	15/22	11500	3-150
ESA2561D	2480×6100	18°	750-950	8-16.5	22/30	11000	3-150
ESA2561T	2480×6100	18°	750-950	8-16.5	22/30	16000	3-150

D=Double (two decks)

T=Triple (three decks)

The weight includes the motor and the modular polyurethane screen.

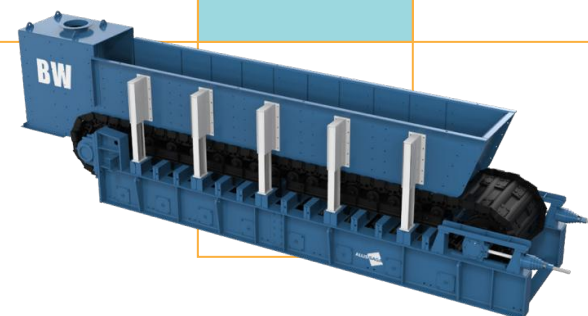
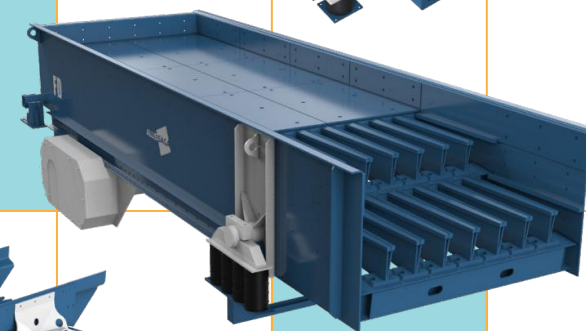
The weight may vary with the different screen aperture.

ALLIS SAGA

A Wide Range of Feeders

Allis Saga offers a wide range of high-quality feeders that are widely used in mining, aggregate and recycling industries. Its design and manufacture are adapted to European standards with robust structure, high stability and reliability.

Allis Saga possesses extensive experience with many types of feeders and is well qualified to help customers select the right crushing and screening equipment for their plant.





FD

Technical Parameters

Heavy-duty Grizzly Feeders

FD series grizzly feeders are specially designed for high capacity and heavy-duty operations, its designed and manufactured are based on European technology and standards. They are mainly applied in primary, secondary for feeding and scalping. Compact and robust structure design with an extensive capacity range up to 1800t/h. Standard hopper volume 26-45 m³ with max feed size up to 1500mm. The low profile makes FD feeders cost-effective to install.

- The frame body and desk are fastened by Huck bolts to ensure overall strength.
- Heavy-duty double shaft mechanism with synchronous gears in an oil-bath for extended service intervals, the acceleration up to 5.5G ensuring the screening efficiency and prevent blocking.
- Highly adjustable for tailored performance——Adjustable grizzly gaps; Easy adjustment of stroke length by extra counter weights. Gear wheel transmission facilitating easy adjustment of stroke angle; Spring pedestals for inclination adjustment; Optional electrical or hydraulic speed (capacity) adjustment.
- Minimal and easy maintenance——Thick replaceable wear plates on all exposed surfaces with a mechanism that can be easily dismantled mechanism for easy servicing.
- A cross-tensioned optional second deck can be installed for removal of natural fines.

Models	Pan width		Slope (°)	Speed (rpm)	Stroke (mm)	Grizzly length (mm)	Power (kW)	Weight (kg)	Max feed	
	* feed length (mm)								size (mm)	Max capacity (t/h)
FD1030	1020×3000		0-10°	500-1000	4-10	1×900	15	3480	≤800	560-850
FD1050	1020×4500		0-10°	500-1000	4-10	1×1200	15	4500	≤800	560-850
FD1060	1020×6000		0-10°	500-1000	4-10	2×900	22	6000	≤800	560-850
FD1260	1220×6000		0-10°	500-1000	4-10	2×900	22	6855	≤900	710-1090
FD1560	1520×6000		0-10°	500-1000	4-10	2×900	30	8050	≤1000	870-1330
FD1860	1820×6000		0-10°	500-1000	4-10	2×900	37	10620	≤1500	1030-1570
FD2066	2040×6600		0-10°	500-1000	6-12	1190+1610	55	15500	≤1500	1800

The weight includes motor and grizzly bars (with a gap 100 mm).

The weight may vary with the different gap of grizzly bars.

The capacity listed in the table for materials with an average bulk density of 1.6t/m³.



HGF

Technical Parameters

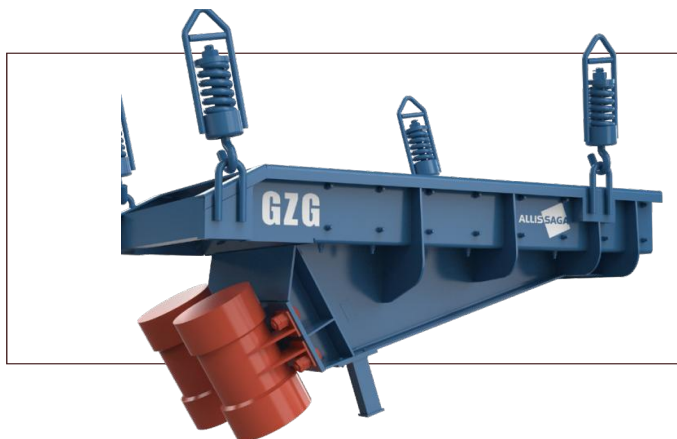
Heavy-duty Grizzly Feeders

HGF series grizzly feeder features a heavy duty design with Allis Saga modular AE exciter for open pit application, match the largest jaw crushers and impact crushers to effectively scalp and bypass material to relieve the crusher and remove low quality fine material to improve the plant product. Its low profile design allows the feeders equipped to mobile units as well. Max capacity up to 2400tph, the max feed size up to 1500mm for HGF2066.

- The frame body and desk are fastened by Huck bolts to ensure overall strength.
- Modular and reliable design AE exciter, stroke adjustability by the help of extra counterweight plates to be added in positive or negative positions.
- Modular vibration AE exciters with SKF or FAG bearings are lubricated with grease to ensure more stable operation as well as easy and low maintenance.
- Optimized feed to the crusher by help of drive belt ratio and a frequency converter optional.
- One, two grizzly section design, with adjustable grizzly gap, Individual grizzly bars, solid grates and rubber bars are available for option.
- Thick replaceable wear plates on all exposed surfaces.
- The spring seat is installed with pins. The feeder can be installed at a slope angle of 0-10°.

Models	Pan width		Slope (°)	Speed (rpm)	Stroke (mm)	Power (kW)	Max feed	
	*feed length (mm)						size (mm)	Max capacity (t/h)
HGF1361	1300×6100		0-10°	790-990	7-12	15	6600	700-1000
HGF1661	1600×6100		0-10°	790-990	7-12	30	11050	850-1200
HGF2066	2000×6600		0-10°	790-990	7-12	55	14950	1600-2400

The capacity listed in the table for materials with an average bulk density of 1.6t/m³.



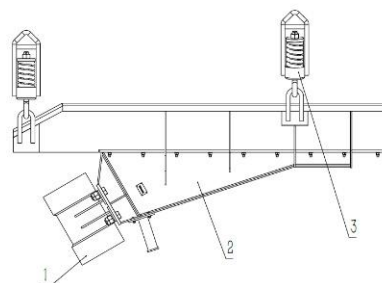
GZG

Electric Drive Pan Feeders

Allis Saga GZG Series Pan Feeders are driven by Self-Synchronized and reliable unbalanced motors, widely used in mining, metallurgy, coal, aggregate, light, chemical, power and food etc industries. It is suitable for delivering materials in lump, particle and powder uniformly and continuously from the silo bin or the hopper to the receiving device. (e.g. crusher, screener, carrier, coal dressing and packing machinery.)

GZG

Technical Parameters



1. Vibration motor 2. Frame 3. Shock absorber

Models	Pan size (mm)	Max capacity (t/h)		Speed (rpm)	Stroke (mm)	Power (kW)	Weight (incl. vibration motors) (kg)	Max feed size (mm)
		0°	10°					
GZG80-4	800×1400×250	158	242	1450	3-5	2×0.75	650	250
GZG90-4	900×1400×250	189	284	1450	3-5	2×1.0	720	300
GZG100-4	1000×1500×250	284	399	1450	3-5	2×1.0	860	300
GZG110-4	1100×1500×250	315	441	1450	3-5	2×1.0	960	300
GZG125-4	1250×1750×300	473	683	1450	3-5	2×1.5	1150	350
GZG130-4	1300×1750×300	480	683	1450	3-5	2×1.5	1250	350
GZG150-6	1500×1800×300	756	1050	960	3-7	2×1.7	1650	400
GZG160-6	1600×2000×315	872	1250	960	3-7	2×2.35	1870	400
GZG180-6	1800×2000×375	998	1365	960	3-7	2×2.35	2350	400
GZG200-6	2000×2200×400	1050	1680	960	3-7	2×2.6	2700	400
GZG220-6	2200×2400×500	1575	2100	960	3-7	2×4.5	3500	450

- Simple and compact structure, allowing for easy installation and maintenance with low operations cost and noise.
- The linear motion Pan Feeders will ensure high efficiency, high capacity and accurate operation as well as low liner wear.
- Adjustable inclination from 0-10 degrees to adapt to different materials and installation requirements.
- The feed rate can either be adjusted by repositioning weight segments in the drive or through a frequency converter (optional).
- Hanging type and seating type available.

Models	Pan size (mm)	Max capacity (t/h)		Speed (rpm)	Stroke (mm)	Power (kW)	Weight (incl. vibration motors) (kg)	Max feed size (mm)
		0°	10°					
GZG1020H	1000×2000×300	350	480	960	3-8	2×2.0	1015	330
GZG1320H	1300×2000×300	450	630	960	3-8	2×2.6	1525	415
GZG1423H	1400×2260×300	550	750	960	3-8	2×4.5	2200	460
GZG1630H	1600×3000×350	650	950	960	3-8	2×7	3710	500
GZG2030H	2000×3000×350	1300	1800	960	3-8	2×12	5500	600

H: Heavy duty applications

The capacity listed in the table for materials with an average bulk density of 1.6t/m³.



GF

Technical Parameters

Feeders for Mobile Crusher Units

GF series grizzly feeders adopt modular exciters with a closed base, screen or grizzly decks, compact sized and light weight but made for the scalping, pre-screening and feeding rock solid applications. They are also equipped with a squirrel-cage motor drive, with some models available with hydraulic drive. The capacity of the vibrating chute can be adjusted by changing the speed of rotation with a frequency inverter or changing the eccentric weight of the vibrating units. They are particularly suitable for primary crushing feeding in mobile crushing stations. They are also an ideal choice for static crushing plant with the capacity < 500TPH. Its max feeding capacity up to 550TPH, and the max feed size 800mm.

- Compact sized, a closed base vibrating chute can be used for feeding, emptying, reloading or proportioning.
- Particularly suitable as discharge chute for silos.
- Vibrating chutes with grizzly decks or screen cloths can be used for screening duties that do not have high demand.
- Various grizzly spacings available for different needs.
- Wide capacity range.



Models	Size (mm)	Slope (°)	Speed (rpm)	Stroke (mm)	Power (kW)	Weight (kg)	Max feed size (mm)	Max capacity (t/h)
GF827	800×2700	0-10°	1000-1500	5-10	2×2.0	1500	500	250
GF832	800×3200	0-10°	800-1200	5-10	2×2.2	1900	500	250
GF1142	1100×4200	0-10°	800-1200	5-10	2×5	2900	700	500
GF1148	1100×4800	0-10°	800-1200	5-10	2×7	4400	700	500
GF1232	1200×3200	0-10°	800-1200	5-10	2×5	2340	800	500
GF1242	1200×4200	0-10°	800-1200	5-10	2×7	3150	800	550

The weight includes vibration motor and grizzly bars (gap=100 mm).

The weight may vary with the different grizzly gap.

The capacity listed for materials with an average bulk density of 1.6t/m³.



PF

Technical Parameters

Pan Feeder with AE Vibrator

PF (Pan Feeder) adopts Allis Saga AE modular vibrator, which can be used for coarse material under heavy working conditions, and can handle high abrasive materials, with the maximum feeding rate up to 1000TPH and the maximum feed size up to 1200mm.

- It can be used for wet, viscous or even frozen feeding operations.
- 0 degree installation for use in space-constrained environments.
- Modular vibrator, equipped with SKF or FAG bearings to ensure more stable operation.
- It is often used in combination with GS series grizzly screen for the best fines removal.

Models	Feeder size (mm)	Slope (°)	Speed (rpm)	Stroke (mm)	Power (kW)	Weight (kg)	Max feed size (mm)	Max capacity (t/h)
PF1325	1300×2500	0°	1000-1500	5-12	11	3500	900	500
PF1361	1300×6100	0°	1000-1500	5-12	15	5100	900	600
PF1635	1600×3500	0°	1000-1500	5-12	22	5530	1000	750
PF1661	1600×6100	0°	1000-1500	5-12	30	6900	1200	1000

The capacity for feed material with an average bulk density of 1.6t/m³



BW/BZ

Apron Feeders

Apron feeders are widely used in the heavy hard rock mining industry such as iron ore, gold, copper, bauxite mines include various size materials that range from dry and abrasive to material that is very cohesive and difficult to handle, as well as to other bulk materials handling industries such as coal mines, power plants, rock quarries and cement.

“Tractor/Dozer Chain” style feeders (BZ series) are the preferred design that utilizes tractor type undercarriage chain, rollers and tail wheels that are used on bulldozers and excavator machines. Crawler tractor components are all “sealed for life lubricated” and thus do not require regular lubrication. This provides the feeder reliable, trouble free operation.

Allis Saga also design and manufacture” bush-roller chain “ style feeders (BW series) for medium load applications.

Features and Benefits:

- Provide better feed control to prevent choking of material feeding downstream equipment and adjustable feeding speed to meet different materials and needs.
- The ability to absorb the shock loading of material loading (via trucks, loaders and rail car dumpers) directly on the feeder.
- Normally horizontal installation, also allows the tilted installation, max angle to be 23° in special applications.
- It is designed with drive modules with various combination forms, including planetary reducer combination, parallel axis reducer combination, and motor automatic control combination. Users may choose a preferred combination according to their needs.
- SKF bearing with integral bearing seat.

Models	Center-to-center head and tail		Speed (m/s)	Feed size (mm)	Nominal capacity (t/h)	Motor power (kW)	Overall dimension (L*W*H) (mm)	Weight (kg)
	Pan width (mm)	wheel axles (rpm)						
BW100-6	1000	6000	0.01-0.1	500	80-160	11	86,200×4960×1600	15000
BW100-12	1000	12000	0.05-0.1	500	60-130	15	13,500×4215×1675	23500
BW120-4	1200	4000	0.014-0.08	600	45-150	11	5810×5160×1480	12600
BW120-6	1200	6000	0.01-0.1	600	80-160	11	8620×5160×1600	16000
BW120-11	1200	11000	0.01-0.1	600	50-100	15	11,463×5029×2860	23500
BW120-19	1200	19000	0.014-0.09	600	45-150	22	21,620×5460×2000	41000
BW120-4.5	1200	4500	0.054	600	150	15	7183×3616×2071	30500
BW125-6	1250	6000	0.014-0.08	600	45-150	11	8620×5240×1950	18900
BW125-12	1250	12000	0.014-0.08	600	45-150	18.5	14,620×5460×2000	31800
BW140-8	1400	8000	0.017-0.17	700	100-200	22	10,350×5948×1840	29200
BW140-16	1400	16000	0.006-0.06	700	20-200	22	18,310×6447×2030	45900
BW140-18.03	1400	18030	0.006-0.06	700	20-200	22	20,380×6440×2030	50900
BW150-5	1500	5000	0.014-0.08	700	85-288	15	7620×5440×1950	18700
BW150-10.5	1500	10500	0.006-0.06	700	20-200	22	12,850×5595×1705	49400
BW150-15	1500	15000	0.006-0.06	700	20-200	22	17,350×5595×1705	58800
BW160-6	1600	6000	0.017-0.17	800	61-610	22	8354×6099×2100	25000
BW160-9	1600	9000	0.076	800	180	22	11,250×5716×2240	34700
BZ160-9	1600	9000	0.01-0.07	800	27-270	30	11,250×4153×2890	50000
BZ180-8	1800	8000	0.01-0.07	1000	500	37	10,250×4353×2890	59000
BZ180-8.75	1800	8750	0.01-0.07	1000	500	37	11,050×4353×2890	61000
BZ180-9	1800	9000	0.01-0.07	1000	500	37	11250×4353×2890	63000
BZ180-9.8	1800	9800	0.01-0.07	1000	500	37	12,000×4353×2890	63000
BZ180-10	1800	10000	0.01-0.07	1000	500	37	12,200×4353×2890	66000
BZ200-9.8	2000	9800	0.01-0.07	1000	700	45	12,000×4553×2890	82000
BZ220-10	2200	10000	0.01-0.07	1200	800	45	12,000×4753×2890	85000
BZ230-10	2300	10000	0.01-0.07	1500	850	55	12,000×4853×2890	86000
BZ240-10	2400	10000	0.02-0.06	1600	550-900	2×37	12,000×4953×2890	95000
BZ250-11.46	2500	11460	0.01-0.07	1800	100-1000	2×45	12,000×5053×2890	105000
BZ180-8	1800	8000	0.022-0.046	800	30-320	37	10,300×4295×3650	53000
BZ180-12	1800	12000	0.05	1000	360	45	14,723×6697×2080	67800
BZ220-10	2200	10000	0.018-0.055	1500	220-680	45	12,650×4495×3350	80400
BZ240-10	2400	10000	0.018-0.055	1500	220-680	45	12,650×4695×3350	83400

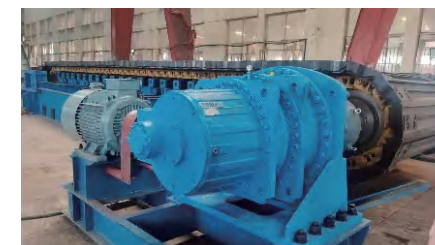
The selection and parameters of apron feeder is subject to be calculated and designed, according to the application conditions, please contact Allis Saga.
The above weights are for reference only. The weights are not including the motor.



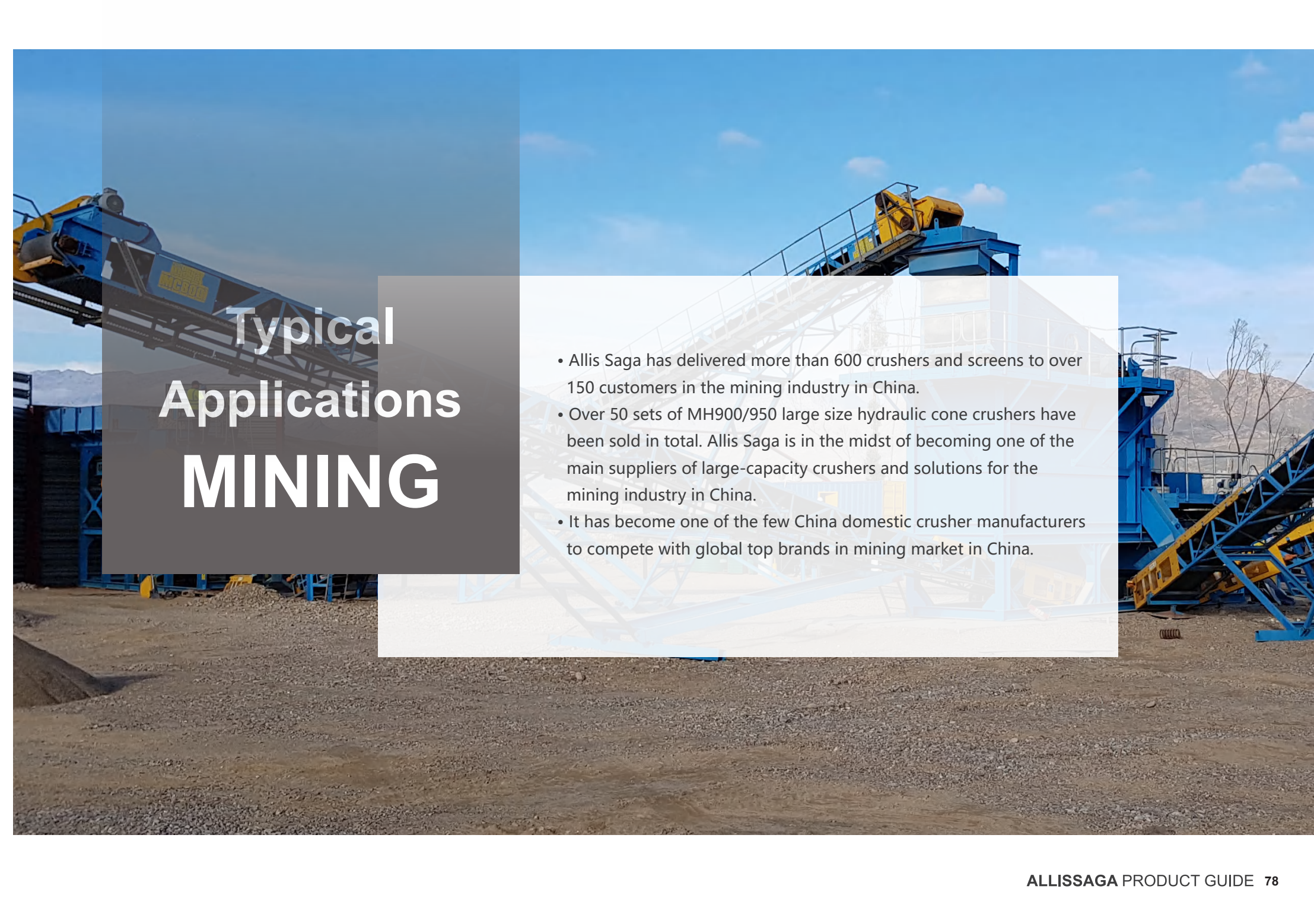
Robust structure



Heavy duty chain



Drive unit A wide range of drive unit options is offered to meet the various requirements. Available units include constant speed electric, variable speed AC or DC, and variable speed hydraulic drive.

The background image shows a large industrial mining site. In the foreground, there is a large pile of grey gravel. In the middle ground, a blue and yellow Allis Saga MC900 hydraulic cone crusher is visible, mounted on a blue metal frame. The crusher is angled upwards. In the background, there are more industrial structures and a clear blue sky with some light clouds. The overall scene is a typical mining operation.

Typical Applications MINING

- Allis Saga has delivered more than 600 crushers and screens to over 150 customers in the mining industry in China.
- Over 50 sets of MH900/950 large size hydraulic cone crushers have been sold in total. Allis Saga is in the midst of becoming one of the main suppliers of large-capacity crushers and solutions for the mining industry in China.
- It has become one of the few China domestic crusher manufacturers to compete with global top brands in mining market in China.

Midi Mine H8800 Upgrading Project, Pangang Group

Ore type : Vanadium Titanium Magnetite Iron Ore

Capacity: 1500t/h

Equipment: MH900EC × 1 replaced H8800



Zhangzhuang Mine Project, Ma-steel, Baowu Group

Ore type: Magnetite

Capacity: 800t/h

Equipment : MH800EF×1 to replace CH870



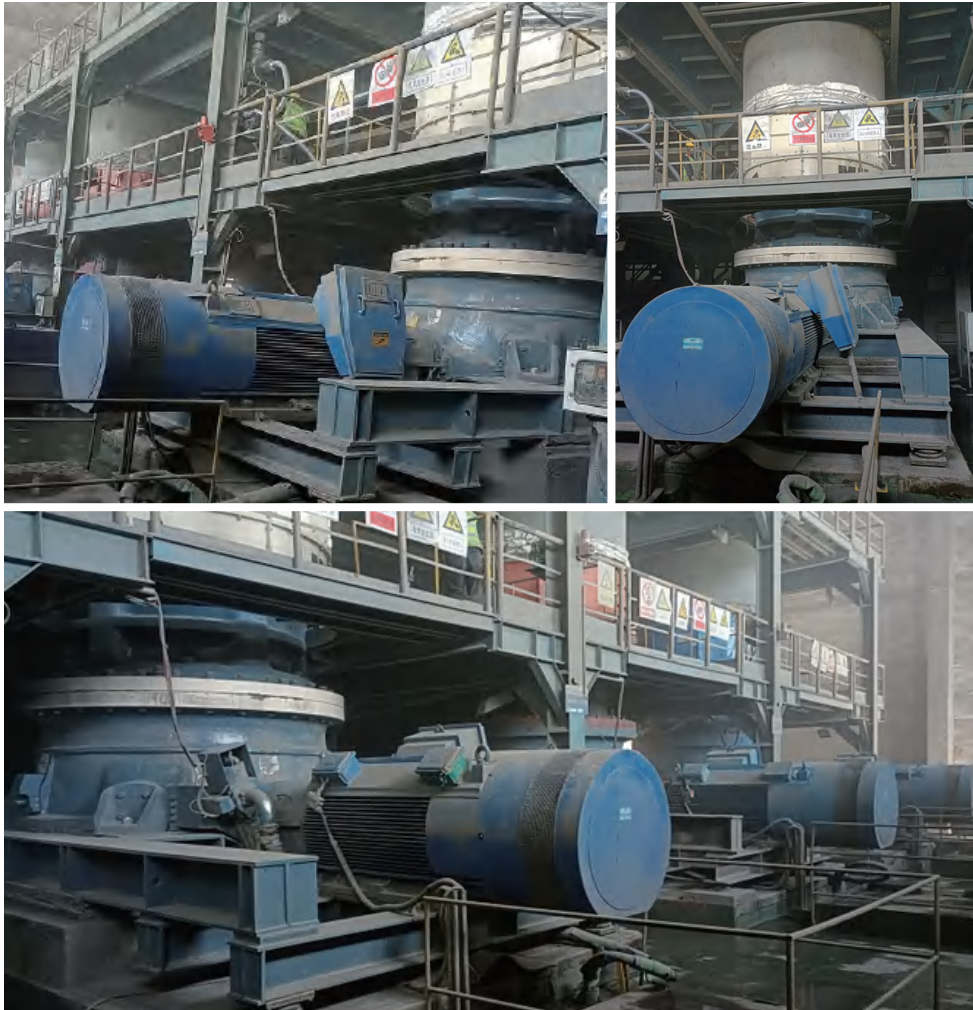
Successful Application for Leading Players in the Steel Industry

Barun Mine CH880 Secondary Crusher Upgrading Project, Baowu Group

Ore type: Magnetite

Capacity: over 1100t/h

Equipment: MH950EF×1 to replace H8800



Ekou Iron Mine Project, TISCO, Baowu Group

Ore type: Iron ore

Capacity: 450t/h

Equipment: MHC600C×1 to replace HP500



Tietai Mine Expansion Project,
Tianbao Group in Chengde, Hebei Province

Ore type: Ultra-low vanadium titanium iron ore
Capacity: 6000t/h
Equipment: MH900C × 3



Shuolian Mine Project,
Jinglian Group in Chengde, Hebei Province

Ore type: Iron ore
Capacity: 6000t/h
Equipment: MH950EF × 8



Widely Application for Large Private Steel Companies in China

Dadi Mine Project, Jingcheng Group in Chengde, Hebei Province

Ore type: Iron ore

Capacity: 10000t/h (P95=10mm)

Tertiary cones: MH950EF×12



Batasanshan Mine Project in Shanxi Province

Ore type: Iron ore

Processing capacity: 500t/h

Equipment: MH950EFX×1; LS2460D×1



Hua Tuo Mine Phase I/II, Huatuogroup in Inner Mongolia

Ore type: Iron ore

Capacity: phase I 2000t/h; Phase II 4000t/h

Equipment: MH800EF×3, MH900C×2 and MH900MF×3



Xiushuihe Mine Expansion Project, Tranvic Group in Sichuan Province

Ore type: Iron ore

Capacity: 300t/h+800t/h

Equipment: 800tph crushing line: MJC1612 × 1, MH800EC × 1, MH800EF × 2, GBZ2400-1800 × 1
300tph crushing line: FD1260 × 1, MJC1209 × 1, MH600C × 1, MH600F × 1



Complete C&S Equipment Application in Lithium Industry

Yichun Yongyi Lithium Industry Project

Ore type: Lithium

Capacity: 300t/h

Equipment: FV1450 × 2, GZG150-6 × 1, MJC1209 × 1, MH400EC × 1, MH600MF × 1, CSA3075D × 1



Yichun Jindi Lithium Industry Project

Ore type: Lithium

Capacity: 300t/h

Equipment: FV1560×2, MJC1209×2, MH400EC×2, MH600MF×1, CSA3075D×1



Luoyang Xinxin Kuangye Project

Ore type: Molybdenum

Capacity: 200t/h (P95=10mm)

Equipment: FD1260×1, MJ1208×1, MH400EC×1, MH600F×1, LS2460D×1



Shangyuan Mining Company Iron Mine Project of Zhaofeng Steel Group in Kuancheng

Ore type: Iron ore

Capacity: 300t/h (P95=10mm)

Equipment: FD1260×1, MJC1208×1, MS300C×1, MH600F×1, LS2460D×2





Typical Applications AGGREGATE

- **Earning outperformance in large-scale aggregate projects by providing a complete set of large size equipment with intelligent automation system.**
Over 10 large scale aggregate production lines with the capacity exceeding 1000tph are put into operation.
- **EPC capability is widely recognized by the customers.**
Henan Nanyang Xinmiao and Ningbo Xiangshan EPC projects are successively put into operation.
- **Leveraging the technological advantages in mining field and actively participating in the comprehensive utilization and processing of iron ore stripping materials.**
A comprehensive utilization of iron ore waste project in Shanxi exceeded the designed capacity 800tph.
- **High-end and high reliability hard rock crushers have been widely recognized by customers in aggregate industry.**
Over 500 crushers and screens have successfully applied in the sand & gravel field in China.

Ningbo Jintongshan Comprehensive Development and Utilization Aggregate Project (Nbcih)

Ore type: Tuff

Capacity: 3400t/h

Equipment: a total of 96 sets of crushers and screens for the entire line are supplied by Allis Saga



Xiangshan High-grade Aggregate Epc Project

Ore type: Tuff

Capacity: 500t/h

Equipment: A complete set of crushers and screens provided by Allis Saga, incl. FD1260×1, MJ1211×1, MS400×1, MH400×2, CS3080T×2, VSI9100×1, GZG125-4×17, GZG150-6×1, as well as environmental protection equipment and conveyors.



Zhuji Xiangshan Comprehensive Development and Utilization Aggregate Project (Zhejiang Nbcih)

Ore type: Limestone

Capacity: 1700t/h

Equipment: a total of 37 sets of crushing and screening equipment supplied for the entire line



Shanxi Jinduicheng Tailings Aggregate Project

Ore type: Tailings, molybdenum containing ore

Processing capacity: 700t/h

Equipment: FD1560×1, MJ1208×1, MH600MC×2, GZG125-4×2, VSI8100D×2, CS3070D×2

All crushing and screening equipment are Allis Saga's product.



Xinmiao Renewable Resources Epc Project, Nanyang City in Henan Province

Ore type: River pebble

Capacity: 300t/h

Equipment:

Primary stage: FD1260 Grizzly Feeder +MJC907 jaw crusher

Secondary stage: 1×MH600MF cone crusher

Spray washing screening: 1 × LS3060D linear vibrating screen (20/5mm) Sand making: 1 × JPS600 Sand Maker-rod Mill

Sand washing system: 4 × XFS200 bucket wheel sand washing +1 × FS750 integrated fine sand recovery System

Filter press: 3 × XMZGF500/1500-U box type diaphragm filter press

Other auxiliary equipment: LD16T-25.5H=10.5M 16t single-beam bridge crane

LD10T-22.5H=10.5M 10t single-beam bridge crane, QZ16T-22.5H=10.5M 4.5 m³

Two sets of bridge grabbing crane, belt conveyor (21 sets), electric gate valve, single-layer grizzly valve and electro-hydraulic gate valve.



Zhaoxing Limestone Aggregate Project in Hebei

Ore type: Limestone

Capacity: 1000t/h

Equipment: FD1860×1, MJ1513×1, FS2451×1, MS600EC×1, CS3070D×2, CS3070T×1



Iron Ore Stripped Material Comprehensive Utilization Aggregate Project in Shanxi

Ore type: Iron ore waste

Capacity: 1000t/h

Equipment: FD1860×1, GZG1505×1, GZG1805×3, MJ1312×1, MS600EC×1, MH800MF×1, MH600M×1, VSI8100D×2, CS3080T×1, YAQ3061×3





Typical Applications **OVERSEAS PROJECTS**

- Allis Saga has established strategic cooperative relationships with leading players of industry such as Terex, Holcim, Heidelberg etc.
- Over 200 sets of crushers and screens have been exported to more than 30 countries and regions, including the United States, the United Kingdom, Australia, Russia, Malaysia, Thailand and South Africa etc.
- Allis Saga Malaysia as the support center for oversea business, as well as Allis Saga has established a solid partnership and distribution network in Russia, Southeast Asia, South Africa, and other places.

EPC Aggregate Project in Russia

Ore type: Diabase

Capacity: 210t/h

Equipment: FD1050D×1, MJC1107×1, GZG110-4×3, MH400EC×1, LS1860T×1, LS1550D×2, VSI8100S × 1. belt conveyor 15 sets, 1 set of electrical control system.



SDE Group Dardangdova Project in Russia

Ore type: Basalt

Processing capacity: 250t/h

Equipment configuration: MHC500i×1, CSA2060T×2, CSA2060D×1, HSI1313P×1



Northern Ireland Aggregate Project

Ore type: Coarse sandstone, hard sandstone (similar to tuff in China)

Capacity: 300t/h

Equipment: MS300C×1, MH400MF×1, MH300MF×1



Granite Engineering Project in Malaysia

Ore type: Granite

Capacity: 300t/h

Equipment: MJ1208×1, MS300EC×1, MH400M×1



Iran Sangang Project

Ore type: Iron ore

Capacity: 800t/h

Equipment: FD1860×1, MJ1513×1, MS600EC×1, MH600MF×2, LS2460D×3



Terex Project for TG Cones

Ore type: Granite

Equipment: MH300EC×1



Track Mounted Mobile Jaw Crusher in Democratic Republic of the Congo

Ore type: Copper cobalt ore

Capacity: 220t/h

Equipment: TC1209×1



Wheel Mounted Mobile Jaw Crusher and Cone Crusher for Yangzi Copper Mine in Myanmar

Ore type: Copper mine

Processing capacity: 300t/h

Equipment configuration: FD1260×1, WMJC1208×1, WMS300×1



NOTES



- **Allis Saga Mining and Construction Co., Ltd**

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**BUILDING A WORLD-CLASS BRAND,
SERVING GLOBAL PREMIUM CUSTOMERS**



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