

SYTECHS MINING TECHNOLOGY



SYTECHS ST-SS-H/S HYDRO CONE CRUSHERS



NORTH AMERICAN TECHNOLOGY

**2 YEARS EXTENDED
WARRANTY**

SS-H/S SERIES CONE CRUSHERS

The Sytechs **SS-H/S** Series Hydro Cone crushers are suitable for a high-capacity Secondary, Tertiary and Quaternary applications. The SS-H/S series are of Single Shaft design that is hydraulically adjustable for proper selection of the crushing chamber. The Hydro cones can match any changes in production requirements through the selection of crushing chambers and an eccentric throw while the crusher is in working condition and by a press of button. This flexibility means that it's suitable for a wide range of applications.

Features:

- High Performance & Efficiency
- Constant Feed acceptance Capability
- High output
- High quality product

Full Control of the Process

- Intelligent Control System
- Safety & Setting Adjustment Functions
- Heavy Duty Hydraulic Cylinder , supporting and adjusting the Main Shaft
- Automatic Overload Protection
- A variety of standard crushing chamber types to be chosen, which can fully meet various production requirements
- Automatic Control System Continuous monitoring of the internal load of the crusher and automatically adjust the equipment to get the best performance.
- Guaranteed performance when original Sytechs parts are used, a long lifetime of the cone crusher is guaranteed.

Easy Handling & Maintenance

- All Servicing & Handling of the cone is done from the upper side.
- Robust & Effective Sealing against Dust

Excellent Versatility

- Easy setting adjustment to match the desired output size
- Excellent choice for Secondary, Tertiary applications.

Customers Satisfaction

- Vast Experience around the Globe
- High Efficient worldwide service & Distribution network
- Efficient, Cost Effective repair and rebuilding services.

Soft Start Drive (SSD) System

The SS-H Series Cone crushers are supplied with Soft Start Drives (SSD) System which are used to limit inrush current associated with electric motor startup. Soft-start drives lower the initial voltage by adding solid-state series impedance and ramp up until full speed is achieved. Doing this extends the life of the motor and mechanical components that are connected to it. The SSD also eliminates high inrush current on large electric motors which places a high demand (Power Surge) on the electrical supply system and often results in extra cost and larger power generators.



INTELLIGENT CONTROL SYSTEM

Guaranteed performance when original Symonstechnology (Sytechs) parts are used, a long lifetime of the cone crusher is guaranteed

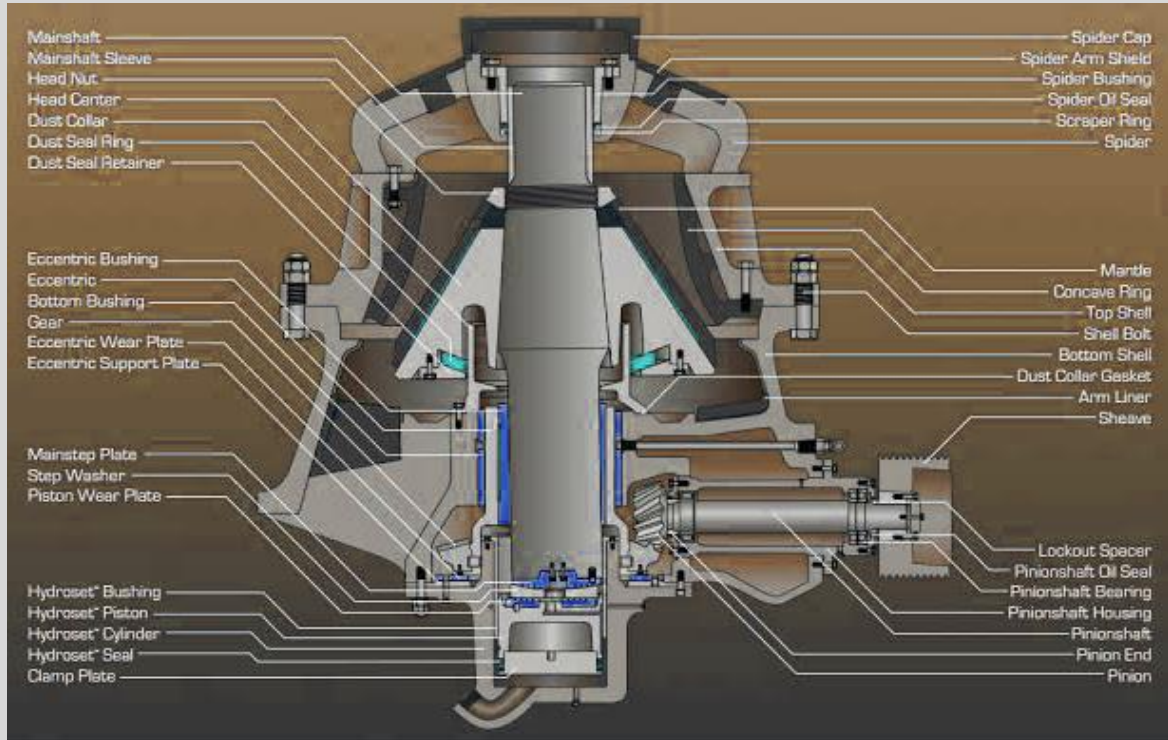
Wearing parts are available with High Manganese MN13%, Mn18%, Mn21%

MODEL	Power Kw	Chamber Types	Max Feed Size (mm)	Nominal Capacity in TPH with Crusher running at CSS mm																	
				19	22	25	29	32	35	38	41	44	48	51	54	60	64	70	76	83	
SS420S	90	EC	240	85	92-115	101-158	107-168	114-143	121												
				70	76-95	82-128	90-112	96													
SS430S	132	C	360	127-199	116-145	127-199	135-254	144-270	152-285	165-310	174-327	183-344	196-306	205-256	214						
				91	98-123	106-166	116-218	124-232	131-246	139-261	147-275	154-291	165								
SS440S	220	C	450			225	239-299	254-381	267	282-353	298-446	313-583	334-601	349-524	365-456						
					195	214-267	228-342	242-435	256-461	270-486	284-511	298-448	318-398	333							
SS660S	315	EC	300																		
SS60S	500	C	500																		
SS420H	90	C	135	46	50-85	54-92	58-99	62-105	66-112	76-128	81-162	86-173	98-197	104-208							
				70	76-95	82-128	90-112	96													
SS430H	132	MC	115	57	62-140	67-151	72-162	80-152	86-162	87-114	92	92	92	104							
				70	76-123	82-145	88-155	94-162	100-170	106-178	112-186	118-194	124-208	130-214	136-220	142-234	148-240	154-254	160-260	166-266	172-272
SS440H	220	MC	110	114	124-227	134-245	144-263	153-281	163-299	186-248	196-258	212-276	222-396	232-423	252-450	287-451	318-363	323			
				70	90-135	96-176	104-191	112-206	120-221	129-236	137-251	156-208									
SS660H	315	EC	275	177	190-338	203-436	216-464	246-547	272-605	298-662	328-511	328-511	328-511	328-511	328-511	328-511	328-511	328-511	328-511	328-511	
				70	90-135	96-176	104-191	112-206	120-221	129-236	137-251	156-208									
SS870H	520	C	240	406	433-636	461-893	525-1018	581-1125	636-1232	700-1357	756-1464	820-1461	876-1286	906-1331	912-2128	912-2128	912-2128	912-2128	912-2128	912-2128	
				70	90-135	96-176	104-191	112-206	120-221	129-236	137-251	156-208									
SS880H	600	MC	260	541	576-864	657-1231	726-1361	795-1490	876-1642	945-1771	1025-1538	1094-1231	1115	1115	1115	1115	1115	1115	1115	1115	
				70	90-135	96-176	104-191	112-206	120-221	129-236	137-251	156-208									

CRUSHING CHAMBER

EEF- Extra Extra Fine
EF- Extra Fine
EFX-Extra Fine Extra
F-Fine
MF-Medium Fine

M-Medium
MC-Medium Coarse
C-Coarse
CX-Coarse Extra
EC-Extra Coarse



Skid mounted Unit. The cone crusher along with the driving electric motor are both mounted on a skid structure to reduce vibration and belt hammering. This results in better driving performance and longer motor bearing/counter shaft bushing life.



EXTENDED WARRANTY POLICY (OPTIONAL)

PART	TIME PERIOD			
	1yr.	2yrs.	3yrs.	4yrs.
Class I Parts				
Class II Parts	100%	66%	33%	
Class III Parts				

CLASS I

Adjustment Cap
Adjustment Ring Bowl
Bowl Adapter Ring Clamp
Ring Countershaft
Counter shaft Box
Eccentric Extension Cap
Feed Distributor
Head
Head Center
Head Nut Locking Collar
Lower Spring Segment
Main Frame
Main Shaft Main Shaft
Nut Shaft Extension Shell
Socket

CLASS II

Spider
Spider Cap
Springs Tie Rod
Tie Rod Nut
Upper Spring Segment

CLASS II

Bowl Lock Counterweight
Gear
Gear Housing
Lower Step Bearing Plate
Lower Thrust Bearing
Main Frame Cap
Main Frame Pin Oil
Flinger
Oil Flinger Housing Pinion
Upper Step Bearing Plate
Upper Thrust Bearing

CLASS III

Anti-Spin Mechanism
Arm Guard
Bottom Sleeve
Bowl Adjustment Ram
Clamping Cylinder
Countershaft Bushing
Dust Collar
Eccentric Bushing
Eccentric Thrust Bearing
Eccentric Thrust Washer
Feed Cone
Feed Hopper
Feed Plate
Floating Ring
Floating Ring Retainer
Gearbox Guard
Head Wiper Ring Lower
Hydraulic Cylinder
Hydraulic Lock Post

Locking Nut Locking
Nut Cover Lock Link
Main Frame Liner
Main Shaft Sleeve
Motorized Rotating Feed
Distributor
Oil Collar Gear
Outer Eccentric Bushing
Power Unit
Sealing Ring
Socket Liner
Socket Plate
Socket Sealing Ring
Spider Bushing Spider
Guard Spider Wing
Guard Spring Bolt
Swivel Plate
Thrust Plate
Top Sleeve
Seals
Guide Bushing
Head Wiper Ring



FACTORY



HI-TECH FACTORY



COMPUTERIZED MACHINING



Crusher Capacities

The capacity figures shown apply to material weighing 100 pounds per cubic foot or 1600 kg per cubic meter. The crusher is one component of the circuit. As such, its performance is in part dependent on the proper selection and operation of feeders, conveyors, screens, supporting structure, electric motors, drive component and surge bins. Where used, attention to the following factors will enhance crusher capacity and performance.

- ✓ Proper selection of crushing chamber for material to be crushed.
- ✓ A feed grading containing proper distribution of the particle sizes.
- ✓ Controlled feed rate.
- ✓ Proper conveyor sized to carry maximum crusher capacity.
- ✓ Discharge conveyor sized to carry maximum crusher capacity.
- ✓ Properly sized scalping and closed circuit screens.
- ✓ Automation controls.
- ✓ Adequate crusher discharge area.

The following factors will detract from crusher capacity and performance.

- ✓ Sticky material in crusher feed.
- ✓ Fines material in crusher feed (smaller than crusher setting) exceeding 10% of crusher capacity.
- ✓ Excessive feed moisture.
- ✓ Feed segregation in crushing cavity.
- ✓ Improper feed distribution around circumference of crushing cavity.
- ✓ Lack of feed control.
- ✓ Inefficient use of recommended connected horsepower.
- 8 Insufficient conveyor capacity.
- ✓ Insufficient scalper and closed circuit screen capacities.
- 10 Insufficient crusher discharge area.
- ✓ Extremely hard or tough material.
- ✓ Operation of crusher at less than recommended full load countershaft speed.

For more complete information on Sytechs)products, dealer services, and industry solutions, please contact sales@sytechs-minerals.com
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ISO 9001
QUALITY
SYSTEM

Manufactured as per North American Design and Specifications,
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