

# Complete CRUSHERPLANT





K S4800 (CS440) **CONE CRUSHER** 



**DVIK** JM1513 (CJ815) JAW CRUSHER









# IMPACT CRUSHER



# 2 Units = 1A/1B HAZEMAG AP-PH1214 IMPACT CRUSHER

# **Technical Specifications:**

Feed Size:-500 mm max.

Product Size: - 60 mm (80%)

• Feeding Capacity: 2 x 250 TPH.

Feeding arrangement: By Loaders

Power Requirement: 2 x 380 kw

# Vibrating feeder, Including Screening Section:

Feeder Width :mm 1,200

Feeder Length :mm 4,900

Screening Area:mm 2x600x1,200

Crusher Design: single rotor impact crusher

Rotor Design: QB Rotor, designed for recycling

Rotor Diameter: 1,200 mm

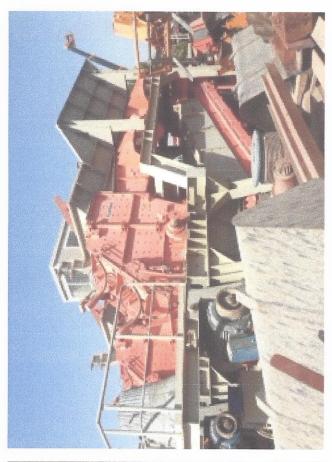
Rotor Width: 1,340 mm

Gap setting system
Front Apron: hydraulically

Rear Apron: hydraulically

Plant having duel feeding hopper by wheel loader.

- Having the duel primary vibro feeder & Impactor and combined single screen.
- Two no. magnetic separator to pull out steel from the concrete after crushing.
- Connecting conveyor
- Picking station
- Major Advantage: Civil work not required just level & compact the surface





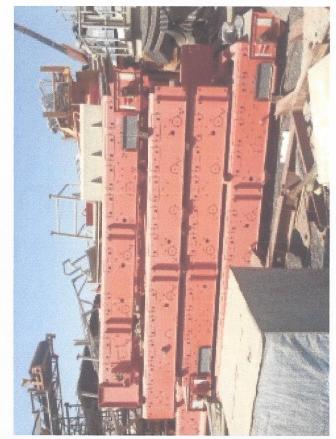














# 2 UNITS = 1A/1B HAZEMAG AP-PH1214 IMPACT CRUSHER

## **TECHNICAL SPECIFICATION**

S1.01.02 FEED HOPPER

Technical Data:

Feed Material

CDW

Capacity

5m³

The Hopper is a steel structure, including support, designed for feeding with a wheel loader.

S1.02.0 2 VIBRATING FEEDER, INCLUDING SCREENING SECTION

TYPE: 1200/4900

Technical Data:

Feeder Width

1200 mm

Feeder Length

4900 mm

Screening Area

2x600x1200

S1.02.1 2 CHUTE FOR FINE FRACTION PLASSING THE SCREEN

S1.03.0 2 DISCHARGE BELT CONVEYOR

TYPE: 650/2600

Technical Data:

Belt Width

650 mm

C-C Spacing Approx

2600 mm

S1.04.0 2 STOCKPILE BELT CONVEYOR

TYPE: 650/10000

Technical Data:

Belt Width

650 mm

C-C Spacing Approx

10000 mm

S1.05.0 2 CRUSHER INLET HOOD/RUBBER CURTAIN/WATER SPRINKLING SYSTEM

The Crusher Inlet Hood is a welded steel plate design including a rubber curtain and water sprinkling system for dust suppression.

### \$1.05.1 2 CRANE

This crane consists of a crane beam and a electric hoisting unit.

## S1.05.2 2 IMPACT CRUSHER

TYPE: AP-PH 1214/QB

Technical Data:

Crusher Design :

:

:

:

:

:

Single Rotor Impact Crusher

Rotor Design

QB Rotor, designed for recycling

Rotor Diameter

1200 mm

Rotor Width

1340 mm

**Gap Setting System** 

Front Apron

Hydraulically

Rear Apron

Hydraulically

S1.05.3 2 V-BELT DRIVE SYSTEM

## \$1.05.4 2 LV MOTOR

Technical Data:

Power of Motor

250 kW

Speed of Motor

1480 RPM

Туре

Squirrel Cage

Design

B3

## S1.05.5 2 CRUSHER DISCHARGE CHUTE

The Crusher Discharge Chute underneath the crusher is connected to the discharge vibrating feeder. It comprises of a rugged steel plate design with changeable wear plates.

# S1.06.0 2 DISCHARGE VIBRATING FEEDER

TYPE: 1.2/2.4

The Discharge Vibrating Feeder is mounted underneath the Crusher Chute and ensures a constant discharge to the connected belt conveyor.

# S1.07.0 2 DISCHARGE BELT CONVEYOR

TYPE: 1400/4700

Technical Data:

Belt Width

1400 mm

C-C Spacing Approx

4700 mm

# S1.08.0 2 PRIMARY OVER BELT-MAGNET

TYPE: 95/100

Technical Data:

Magnet Width

950 mm

C-C Spacing Approx

1000 mm

The Over Belt Magnet consists of a fixed magnet, with a revolving belt conveyor with vulcanized cross-bars. The belt drive is driven by means of a hollow shaft geared motor.

# S1.09.0 2 DISCHARGE BELT CONVEYOR (FEEDING TO SCREENING UNIT)

TYPE: 800/15000

TYPE: 800/19000

Technical Data:

Belt Width

800 mm

C-C Spacing Belt 1 Approx:

15000 mm

C-C Spacing Belt 2 Approx:

19000 mm

# S1.10.0 1 DISCHARGE BELT CONVEYOR

TYPE: 800/7500

Technical Data:

Belt Width

800 mm

C-C Spacing Approx

7500 mm

## S1.11.0 1 SECONDARY OVER BELT-MAGNET

TYPE: 75/100

Technical Data:

Magnet Width

750 mm

C-C Spacing Approx

1000 mm

The Over Belt Magnet consists of a fixed magnet, with a revolving Belt Conveyor with vulcanized cross-bars. The belt drive is driven by means of a hollow shaft geared motor.

# S1.12.0 1 SINGLE DECK VIBRATING SCREEN

TYPE: 1600/4500

Technical Data:

Screen Width

: 1600 mm

Screen Length

4500 mm

Deck

60 mm

#### S1.12.1 1 **SCREEN DISCHARGE CHUTE**

The Screen Discharge Chute underneath the screen is connected to the Discharge Belt Conveyor.

:

#### S1.12.0 1 **DISCHARGE BELT CONVEYOR**

TYPE: 1000/4500

Technical Data:

Belt Width

:

1000 mm

C-C Spacing Approx

4500 mm

#### S1.14.0 1 STOCKPILE BELT CONVEYOR

TYPE: 800/20000

Technical Data:

Belt Width

1000 mm

C-C Spacing Approx

20500 mm

#### S1.15.0 1 **PICK-OUT BELT CONVEYOR**

TYPE: 650/5100

Technical Data:

Belt Width

650 mm

C-C Spacing Approx

5100

Drive

ADJUSTABLE (Frequency Controlled)

The Pick-Out Belt Conveyor will allow manually separation of light fractions.

#### S1.16.0 1 **OVERSIZE RETURN BELT CONVEYOR**

TYPE: 650/15000

Technical Data:

Belt Width

650 mm

C-C Spacing Approx

15000 mm

Inclination

22 ?

Due to the inclination of the Oversize Return Belt Conveyor, a belt with chevron like actuators is used.

## S1.17.0 1 SUPPORT STEEL STRUCTURE FOR THE ENTIRE PLANT

The Support Steel Structure comprises all components necessary to build-up the complete plant, including supports, platforms, walkways, handrail, ladder, etc. It is made of a rugged steel construction according to German DIN Standards.

# S118.0 1 ELECTRIC EQUIPMENT

CUSTOMER HAS TO SUPPLY A SINGLE LV INPUT CONNECTION FOR EACH MCC.

The Electrical Equipment comprises of all necessary equipment to run the entire plant. All equipment is according to the relevant DIN, VDE and IEC Standards. This includes:

- LV Motors Complete
- MCC (Motor Control Cabinet) for all motor, including:
  - PLC (DCS)
  - Contractors
  - Fuses
  - Main Switch
  - Illumination
- Safety Key System for Crusher
- Field Wiring, including:
  - Motor Cable
  - Control Cable
  - Signal Cable
  - Fitting
  - Mounting

# \$1.19.0 1 HYDRAULIC EQUIPMENT

This comprises of the complete hydraulic equipment, which is necessary for operation and maintenance of the crusher.

# **SPARE PARTS FOR HAZEMAG PLANT**

NO.	CODE	DESCRIPTION	QTY		
1	BB06	Blow Bars – Type QB 1214, F40-3	8		
2	BB01	Clamping Wedge Set, Item 6	6		
3	BB02	Wear Plate, Item 26	6		
4	BB02	Wear Plate, Item 30	6		
5	BB03	Wear Plate, Item 34	6		
6	BB04	Inlet Beam, Item 37	7		
7	BB05	Impact Plate, Item 47	5		

# SANDVIK

# COMPLETE SANDVIK PLANT

# Combination of JAW & CONE CRUSHER includes the

No.	EQUIPMENT NAME	TYPE	TYPE POWER		SERIAL NO.	PART NO.	WEIG	GHT (kg	
1	Jaw Crusher	JM 1513:3 (	:3 (CJ 815) 200 kw		670305	-	3	4700	
2	Cone Crusher	S 4800 (CS		220 kw	670368	-	1	9300	
3					2881		9		
4	- Pan Feeder	PFU-10	23	2.4 kw	2882	7110052-09		947	
5			1/23 4.5 kw		2880	7110337-00		2770	
6	Vibro Feeder	PFU-16/			-	-		2770	
7	Grizzly Feeder	HGF-165	522G 30 kw		637		- 970		
8					6233.1	_	-	_	
9	- Magnetic Separator	SMO 32.12	25.110 4 kw		6233.2		-		
NO	CONVEYORS	CONVENCE			LENGTH (M)		POWER		
1	Conveyor - 1		DELI	WIDTH (MM) 1200	7 TENGTH (M)		7.5		
2	Conveyor - 2			1200	40		45		
3	Conveyor - 3			1200	40			45	
4	Conveyor - 4			1200			22		
5	Conveyor - 5			1200	25		30		
6	Conveyor - 6			1200	15		15		
	Conveyor - 6				15		15	QTY	
NO	LAU G		WISCE	LLANEOUS				(LOT	
2	All Steel Structure for Jan G	rusher Cons Cons	shor Food	loss Crimby Hone	M			1	
3	All Steel Structure for Jaw C Primary Hopper Plates	rusner, cone cru	sner, reed	ers, Grizziy, nopp	bers, magnetic sepai	rator, etc.			
4	Base Frame							1	
5	Feed Chute							1	
6	Discharge Chutes							1	
7	Motor Base Frame							1	
8	Conveyor Trough							1	
9	Conveyor Supporting Structu	ıres						1	
10	Hydraulic Unit							1	
11	Anchor Plate with Bolts for (	Civil Foundation						1	
12	All Supporting Structure for		ılic. Mech	anical Items				1	
NO			ELECTRICA				QUANT		
1	Plug and Play Control Panel	in Porta Cabin					1 No		
2	Cables			W			Complet	e Set	
	Switch		A-CHICAGO AND				Complet	e Set	
3							Complet	e Set	
3	Local Panel							L SCC	
	Local Panel Push Button						Complet		
4							Complet	te Set	

# SANDVIK

# Former name: S4800 (CS440)

The hydraulically adjusted Sandvik Cone Crushers are characterized by robust design and high performance. The combination of Constant Liner Performance, CLP crushing chambers and high motor power give these crushers very high capacity.

# Key specifications

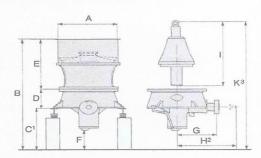
Total weight	19300 kg (42500 lbs)
Max permitted power	220 kW (295 hp)
Capacity	195-600 tph (215-660 stph)
CSS range	25-54 mm (1-2 1/8 in)
Max feed size	300-450 mm (12-18 in)

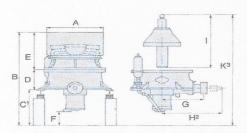


# Features and values

- High performance lowest total cost.
  - Excellent versatility.
- Full control of the process.
- Easy to handle and maintain.
- Reliable.

# Dimensions, mm





Note: Reference line (not floor level) giving minimal dimensions for removal of: 1. Hydroset cylinder, 2. Pinion shaft, 3. Main shaft

	CS420									
A	Ø 1285	Ø 1635	Ø 2000	Ø 2800	Ø 1078	Ø 1360	Ø 1540	Ø 2104	Ø 2450	Ø 2660
В	2902	3485	4075	5100	2560	2992	3410	4215	5475	6456
C1	1020	1125	1300	1600	1020	1125	1300	1600	2200	2870
D	540	655	745	860	540	655	745	860	1228	1186
E	1342	1705	2030	2640	1000	1212	1365	1755	2045	2400
F	400	422	452	631	400	422	452	631	998	1151
G	843	1061	1280	1497	843	1061	1280	1497	1824	2073
H <sup>2</sup>	1270	1705	1900	2156	1270	1705	1900	2156	2850	3100
1	1703	2050	2420	2895	1425	1688	1985	2344	3095	3545
Ka	3600	4250	4930	5355	3000	3570	4000	4835	6600	7770

Dimensions are intended only as a guide for preliminary planning of the installation and should not be used for the construction of foundations, etc.



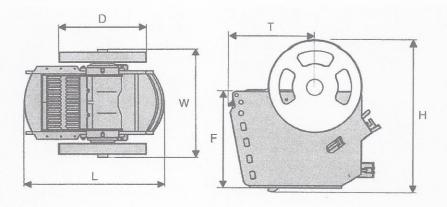
# **JAW CRUSHER JM1513**



Every Sandvik jaw crusher is a product of know-how and experience optimized by Finite Element Analysis (FEA). Each model is tested virtually for stress, strain, shock, deformation, thermal loading, vibration and noise under a wide range of load conditions. The result is exceptional reliability.

Model	Former name	Capacity t/h	Feed opening mm (inch)	CSS range mm (inch)	Max permitted power kW (hp)	Total weight kg (lbs)
CJ411	JM1198	150-565	1045 x 840 (41 x 33)	100-225 (3-9)	110 (150)	21700 (47800)
CJ412	JM1208	165-790	1200 x 830 (47 x 33)	100-275 (3-11)	132 (200)	26600 (58600)
CJ612	2 1841211 300-805		1200 x 1100 (47 x 43)	125-275 (5-11)	160 (250)	36600 (80700)
CJ613	3M1312	330-960	1300 x 1130 (51 x 45)	125-300 (5-12)	160 (250)	41500 (91500)
CJ615	W1511	385-1185	1500 x 1070 (59 x 42)	125-300 (5-12)	200 (275)	53000 (116800)
CJ815	3M1513	480-1160	1500 x 1300 (59 x 51)	150-300 (6-12)	200 (275)	64500 (142200)

# SANDVIK



			Crusher model								
			CJ408	CJ409	CJ411	CJ412	CJ612	CJ613	CJ615	CJ815	CJ211
Feed opening	mm	în	800x550 32x22	895x660 35x28	1045x840 41x33	1200x830 47x33	1200x1100 47x43	1300x1130 51x45	1500x1070 59x42	1500x1300 59x51	1100x700 43x27
L = Max length	m	in	2.37 93	2.55 101	2.99 118	3.23 127	3.61 142	3.76 148	4.11 161	4.50 177	2.39 94
W = Max width	m	in	1.76 69	1.88 74	2.09 82	2.57 101	2.35 92	2.47 97	3,00 118	2.90 108	2.45 91
H = Max height	m	in	2.03 80	2.38 94	2.82 111	2.95 116	3.51 138	3.85 152	3,33 131	4.19 165	2.1 8
D	m	in	1.40 55	1.60 63	1.86 74	1.86 74	1.86 74	2.17 86	1.76 70	2.17 86	1.2
F	m	ín	1.33 53	1.58 62	1.88 74	1.93 76	2.50 98	2.68 105	2.39 94	3.05 120	1.5
<b>T</b>	m	în	1,37 54	1.48 58	1.77 70	1.74 67	2.03 79	2.30 91	2.25	2.65 104	1.5
Shipping volume	m³	ft³	10 343	13 447	20 704	23 810	32 1127	38 1329	48 1690	58 2042	14. 49
CSS min-max	mm	in	50-175 2-7	50-175 2-7	75-225 3-9	75-275 3-11	125-275 5-11	125-300 5-12	125-300 5-12	150-300 6-12	40-20 1.6-7.
Total weight	kg	lbs	9900 21800	14100 31100	21700 47800	26600 58600	36600 80700	41500 91500	53000 116800	64500 142200	1460 3220
Motor power	kW	hp	55 75	75 100	110 150	132 200	160 250	160 250	200 275	200 275	9 12
Crusher speed	rpm		300	270	240	240	210	225	200	200	27































# TECHNOLOGICAL FLOW

