



SANDVIK JAW CRUSHER SERIES

TECHNICAL SPECIFICATION

HIGH CAPACITY JAW CRUSHERS AND LOW COST PER TON

Sandvik's top-of-the-line CJ-type jaw crushers are specifically built for your primary applications where resizing is the key objective. They allow the material to be processed within your crushing plant. To ensure optimum performance, the jaw crusher needs to have a good feed level and a homogeneous feed.

Our jaw crushers are of the single-toggle type and feature a deep, symmetrical crushing chamber, a large feed opening for its size, and an ideal nip angle that offers smooth material flow and high reduction efficiency.

Jaw crushers are normally capable of a reduction ratio of 1:2 or 1:3. This ratio is affected by the feed material's bulk density, crushability, size distribution and moisture content – among other factors – and will affect the crushing chamber performance.

The nip angle is the angle between the fixed and moving jaw plates. Our Sandvik CJ crushers have an optimum nip angle in the 16-23 degree range.



ADVANTAGES

Safe and easy operation and maintenance

Proven technology with welded design offer a reliable operation

High capacity

High reduction

Deep symmetrical crushing chamber and optimized nip angle maximizes size reduction and production capacity

Wider intake opening offers possibility to handle larger feed

FEED SIZE

CRUSHER	CSS (MM)*	FEED OPENING (MM)	MAX FEED (MM)**	WEAR PLATE (MM)***	JAW SHIM PLATE (MM)****
CJ211	60-200	1,100 x 700	630	10	2 x 30*****
CJ409	40-180	895 x 660	600	6	-
CJ411	70-225	1,045 x 840	750	6	-
CJ412	70-275	1,200 x 830	750	6	2 x 30
CJ612	115-275	1,200 x 1,100	990	12	50
CJ613	130-300	1,300 x 1,070	1,070	6	50*****
CJ615	115-300	1,500 x 1,070	960	15	50
CJ815	145-300	1,500 x 1,300	1,170	15	50

* Minimum CSS is depending on Work Index

** Apply for regularly shaped material. Occasional larger lumps can be accepted, but if material is irregularly shaped, difficulties may be also experienced with smaller lumps.

*** Wear plates are installed on both sides as standard. This is to prevent impact on the frame and jaw.

**** The jaw shim plate is installed on the fixed side, except on CJ211 and CJ412 where the two plates are installed on both sides. This is optional equipment.

***** Jaw shim plate is installed instead of the wear plate.

CAPACITIES IN MTPH

CSS (MM)	CJ211
60	110-160
70	120-180
80	135-205
90	150-230
100	160-250
125	195-310
150	230-370
170	265-430
200	300-490

CAPACITIES IN STPH

CSS (INCH)	CJ211
2 3/8	115-165
2 3/4	130-200
3 1/8	150-225
3 1/2	165-255
4	175-275
5	215-340
6	250-410
7	290-475
8	330-540

The left figures refer to fines removed from feed and the right refers to fines included in the feed.

The Sandvik jaw crusher above is designed for the motor sizes listed in RPG and technical specifications. This means that for harder materials, the crusher will have to be operated at larger settings to avoid overload of drive and/or motor. Using oversized motors will lead to radically shorter crusher life and various mechanical problems. Warranty will not cover this!

Capacity figures apply for clean, friable and dry granite with a bulk density of 1.6 t/m³ (100 lbs./cu.ft.) or compact density 2.65 g/cm³.

CAPACITIES IN MTPH

CSS (MM)	CJ409	CJ411	CJ412	CJ612	CJ612 WEDGE SETTING	CJ613	CJ615	CJ815
50	85-115							
75	100-160	150-200	165-220					
100	125-200	200-265	220-290					
125	150-235	245-325	270-355	300-395	300-395	330-430	385-495	
150	175-275	295-390	325-430	355-465	355-465	385-505	445-590	480-625
175	(200-320)	(340-445)	385-505	405-530	405-530	440-575	505-665	545-710
200		(385-505)	445-580	455-595	455-595	495-650	570-745	610-800
225		(430-565)	495-650	(505-660)		550-730	630-825	675-885
250			550-720	(560-735)		605-810	(700-920)	745-975
275			605-790	(610-805)		660-885	(765-1000)	(820-1070)
300						715-960	(825-1085)	(885-1160)

CAPACITIES IN STPH

CSS (INCH)	CJ409	CJ411	CJ412	CJ612	CJ612 WEDGE SETTING	CJ613	CJ615	CJ815
2	95-125							
3	110-175	165-220	180-245					
4	140-220	220-290	245-320					
5	165-260	270-360	300-390	330-435	330-435	365-475	425-495	
6	190-300	325-430	360-475	390-515	390-515	425-555	490-650	530-690
7	(220-350)	(375-490)	425-555	445-585	445-585	485-635	555-735	600-780
8		(425-555)	490-640	500-655	500-655	545-715	630-820	670-880
9		(475-625)	545-715	(555-730)		605-805	695-910	745-975
10			605-795	(620-810)		670-895	(770-1015)	820-175
11			665-870	(670-890)		730-975	(845-1100)	(905-1180)
12						790-1060	(910-1195)	(975-1280)

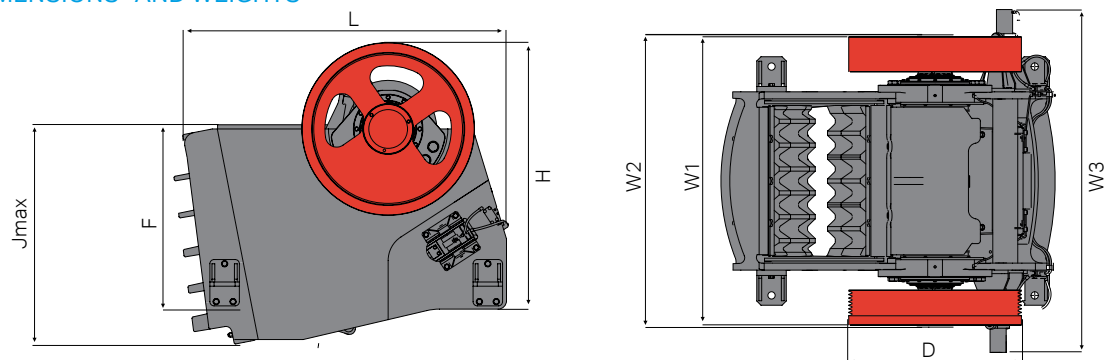
() CSS may not be possible to obtain with some jaw plate patterns.

The left figures refer to fines removed from feed and the right refers to fines included in the feed.

The Sandvik jaw crusher line is designed for the motor sizes listed in RPG and technical specifications. This means that for harder materials, the crusher will have to be operated at larger settings to avoid overload of drive and/or motor. Using oversized motors will lead to radically shorter crusher life and various mechanical problems. Warranty will not cover this!

Capacity figures apply for clean, friable and dry granite with a bulk density of 1.6 t/m³ (100 lbs./cu.ft.) or compact density 2.65 g/cm³.

DIMENSIONS* AND WEIGHTS

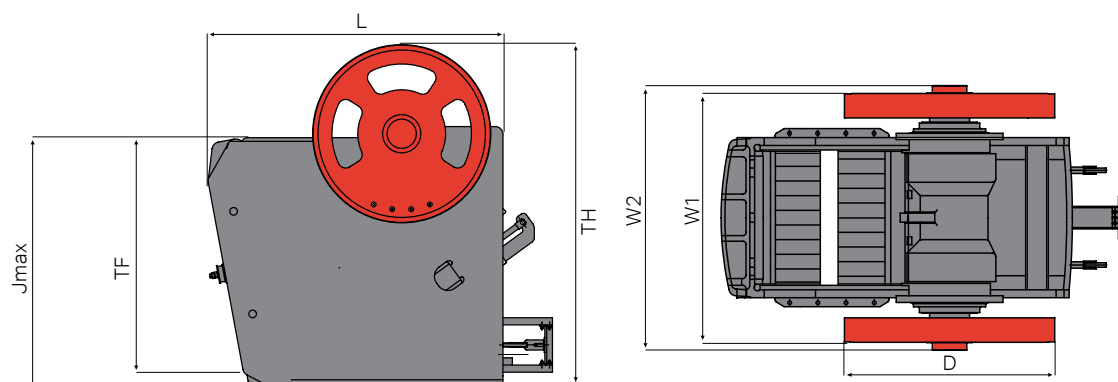


CJ211

Jmax, Max height from jaw	(mm)	1,585
TF, Overall feed height	(mm)	n/a
F, Feed height	(mm)	1,120
L, Max Length	(mm)	2,386
H, Height	(mm)	1,735
TH, Overall height	(mm)	n/a
W1, Width flywheels	(mm)	2,054
W2, Width shaft	(mm)	2,082
W3, Width cylinder	(mm)	2,447
D, Flywheel diameter	(mm)	1,230
Weight***	(kg)	14,300
Crushers speed	(rpm)	270
Mom. Of inertia, J	(kgm ²)	388

* Detailed installation drawings can be found on the Sandvik Intranet or through your Sandvik contact

*** Figures are approximate weights. The weight for each individual unit will vary depending on type of jaw plates, use of shim plate or not, manufacturing tolerances etc.

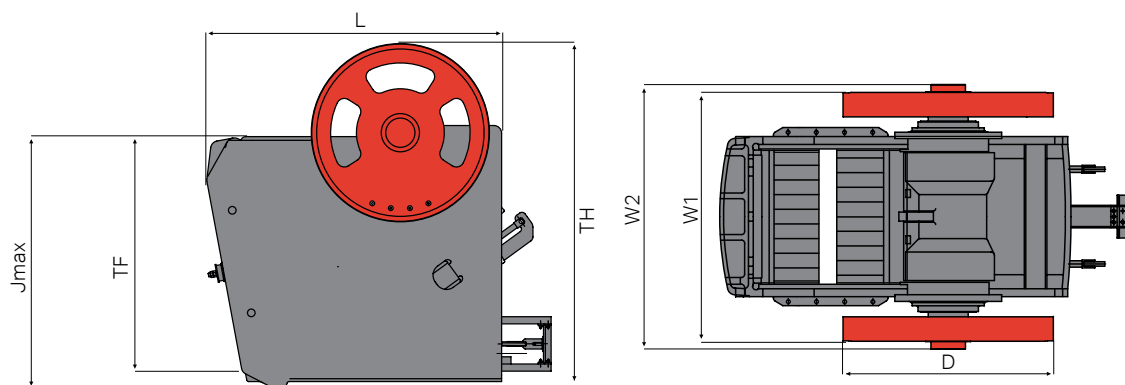


		CJ409	CJ409**	CJ411	CJ412	CJ412**
Jmax, Max height from jaw	(mm)	1,780	1,780	2,032	2,098	2,098
TF, Overall feed height	(mm)	1,580	1,580	1,882	1,938	1,938
F, Feed height	(mm)	n/a	n/a	n/a	1,590	n/a
L, Max Length	(mm)	2,554	2,554	2,986	3,230	3,230
H, Height	(mm)	n/a	n/a	n/a	2,603	2,374
TH, Overall height	(mm)	2,383	2,230	2,815	2,950	2,668
W1, Width flywheels	(mm)	1,723	1,723	1,965	2,208	2,428
W2, Width shaft	(mm)	1,882	1,882	2,093	2,336	n/a
W3, Width cylinder	(mm)	n/a	n/a	n/a	2,571	2,569
D, Flywheel diameter	(mm)	1,605	1,300	1,865	1,865	1,300
Weight***	(kg)	13,200	13,500	20,600	25,200	26,500
Crushers speed	(rpm)	270	270	240	240	240
Mom. Of inertia, J	(kgm ²)	610	510	1,490	1,490	1,050

* Detailed installation drawings can be found on the Sandvik Intranet or through your Sandvik contact

** Special version with compact flywheel used for mobile units

*** Figures are approximate weights. The weight for each individual unit will vary depending on type of jaw plates, use of shim plate or not, manufacturing tolerances etc.



		CJ612	CJ613	CJ615	CJ815
Jmax, Max height from jaw	(mm)	2,700	2,902	2,695	3,319
TF, Overall feed height	(mm)	2,520	2,678	2,394	3,045
F, Feed height	(mm)	n/a	n/a	n/a	n/a
L, Max Length	(mm)	3,996	3,762	4,117	4,496
H, Height	(mm)	n/a	n/a	n/a	n/a
TH, Overall height	(mm)	3,508	3,843	3,330	4,186
W1, Width flywheels	(mm)	2,199	2,326	2,876	2,750
W2, Width shaft	(mm)	2,347	2,468	2,992	2,894
W3, Width cylinder	(mm)	2,826****	n/a	n/a	n/a
D, Flywheel diameter	(mm)	1,865/1,600	2,170	1,760	2,170
Weight***	(kg)	39,000	41,500	53,000	63,500
Crushers speed	(rpm)	210	225	200	200
Mom. Of inertia, J	(kgm ²)	2,080	2,610	3,130	4,200

* Detailed installation drawings can be found on the Sandvik Intranet or through your Sandvik contact

** Special version with compact flywheel used for mobile units

*** Figures are approximate weights. The weight for each individual unit will vary depending on type of jaw plates, use of shim plate or not, manufacturing tolerances etc.

**** Only if the option hydraulic wedge setting is chosen

DRIVE AND MOTOR

CRUSHER	NO. OF V-BELTS	V-BELT TYPE/LENGTH* (STANDARD FITTING)	MOTOR PULLEY P.C.D (MM)	MOTOR SPEED *** (RPM)	MOTOR (KW/HP)
CJ211	7	SPC/4,750	335 MGT100	985	90/125
CJ409	6	SPC/800	440 MGT100	985	75/100
CJ409**	7	SPC/7,500	355 MGT100	985	75/100
CJ411	8	SPC/9,000	450 MGT125	985	110/150
CJ412	8	SPC/9,000	450 MGT125	985	132/180
CJ412**	9	SPC/8,000	315 MGT100	985	132/180
CJ612	8	SPC/10,600	400 MGT100	985	160/220
CJ613	8	SPC/11,200	500 MGT125	985	160/220
CJ615	11	SPC/9,500	355 MGT100	985	200/275
CJ815	8	SPC/11,200	440 MGT125	985	200/275

* Other types and lengths are available.

** Special version with compact flywheel used for mobile units.

*** 50 Hz



SELECTION OF JAW PLATES

Sandvik offers seven teeth patterns and up to three alloy selections (M1, M2, M8) to suit the different types of quarrying and mining applications. Our patterns include Wide Teeth (WT), Wide Wave (WW), Corrugated (C), Coarse Corrugated (CC), Sharp Teeth (ST), Heavy Duty (HD), Heavy Duty Ultra-Thick (UT).

M1 is the standard alloy, offering high resistance to shock and impact. It also work well with hard rock. Our M2 and M8 alloys offer high resistance to abrasive rock, but have lower resistance to shock and impact.

The optimal jaw plate selection can be determined based on the rock/ore type characteristics (WI, AI) and the feed characteristics (friction, gradation).

WIDE TEETH (WT)



Good wear resistance. For feed with a lot of fines.
Can be used on both fixed and moving sides.

WIDE WAVE (WW)



For slabby and less abrasive feed material.
Feed is relatively easy to crush.
Good top-size control.

SHARP TEETH (ST)



For flaky feed material with a lot of fines.
Good gripping ability.
Very good top-size control.
Highly recommended if the AI is not too high.

CORRUGATED (C)



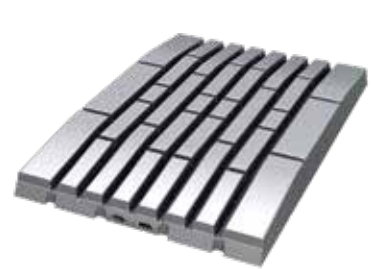
Suitable for less abrasive material.
Good for small CSS settings.
Good top-size control.

COARSE CORRUGATED (CC)



For abrasive material.
For feed with a lot of fines.
Used for large CSS settings.
Good top-size control.

HEAVY DUTY (HD)



For very abrasive material.
Less top-size control.
Can be combined with a CC moving plate.

HD ULTRA-THICK (UT)



For very abrasive material.
Less top-size control.
Fixed plate based on our
HD pattern with an extra 30 mm
thickness for longer wear life.
To be used with the CC moving plate.

Contact your local Sandvik rep to help you select
the right plate combination for your application.

CJ211 (J11) JAW CRUSHING SOLUTIONS

ALLOY MIX	PLATE	JAW PLATES		
		C	ST	HD/CC
M1	Fixed	400.2207-001	400.0739-001	400.2870-001
	Moving	400.1101-001	400.0738-001	400.2869-001
M2	Fixed	400.2207-002	400.0739-002	400.2870-002
	Moving	400.1101-002	400.0738-002	400.2869-001

All jaw plates are one piece unless otherwise stated.

CHEEK PLATES

Upper plate	400.0639-001	Lower plate	-
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DEFLECTOR PLATE 400.3136-001

CRUSHING CHAMBERS

CORRUGATED (C)



Suitable for less abrasive material.
For feed with a lot of fines.
Good for small CSS settings.
Good top-size control.

SHARP TEETH (ST)



For flaky feed material with a lot of fines.
Good gripping ability.
Very good top-size control.
Highly recommended if the
AI is not too high.

HEAVY DUTY/COARSE CORRUGATED (HD/CC)



For very abrasive material.
Used for large CSS settings.
Good top-size control

CJ409 (JM907) JAW CRUSHING SOLUTIONS

JAW PLATES

ALLOY MIX	PLATE	WT	C
M1	Fixed	400.0483-001	400.0418-001
	Moving	400.0483-001	400.0417-001
M2	Fixed	400.0483-002	400.0418-002
	Moving	400.0483-002	400.0417-002

All jaw plates are one piece unless otherwise stated.

CHEEK PLATES

Upper plate	10-314-386-000	Lower plate	10-314-404-000
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DEFLECTOR PLATE 10-314-479-000

CRUSHING CHAMBERS

WIDE TEETH (WT)



Good wear resistance.
For feed with a lot of fines.
Can be used on both fixed
and moving sides.

CORRUGATED (C)



Suitable for less abrasive material.
For feed with a lot of fines.
Good for small CSS settings.
Good top-size control.

CJ411 (JM1108) JAW CRUSHING SOLUTIONS

ALLOY MIX	PLATE	JAW PLATES		
		WT	C	CC
M1	Fixed	400.0436-001	400.0409-001	400.0437-001
	Moving	400.0436-001	400.0410-001	400.0433-001
M2	Fixed	400.0436-002	400.0409-002	400.0437-002
	Moving	400.0436-002	400.0410-002	400.0433-002

All jaw plates are one piece unless otherwise stated.

CHEEK PLATES

Upper plate	10-314-262-000	Lower plate	10-314-263-000
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DEFLECTOR PLATE 10-214-384-000

CRUSHING CHAMBERS

WIDE TEETH (WT)



Good wear resistance.
For feed with a lot of fines.
Can be used on both fixed and moving sides.

CORRUGATED (C)



Suitable for less abrasive material.
For feed with a lot of fines.
Good for small CSS settings.
Good top-size control.

COARSE CORRUGATED (CC)



For abrasive material.
For feed with a lot of fines.
Used for large CSS settings.
Good top-size control.

CJ412 (JM1208) JAW CRUSHING SOLUTIONS

JAW PLATES

ALLOY MIX	PLATE	WT	C	CC	ST	HD	HD/CC
M1	Fixed	400.0411-001	400.0407-001	400.0425-001	402.4744-01	400.0413-001	400.0413-001
	Moving	400.0411-001	400.0408-001	400.0420-001	402.4745-01	400.0412-001	400.0420-001
M2	Fixed	400.0411-002	400.0407-002	400.0425-002	402.4744-02	400.0413-002	400.0413-002
	Moving	400.0411-002	400.0408-002	400.0420-002	402.4745-02	400.0412-002	400.0420-002

All jaw plates are one piece unless otherwise stated.

CHEEK PLATES

Upper plate	10-314-262-000	Lower plate	10-314-263-000
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DEFLECTOR PLATE BG00541518

CRUSHING CHAMBERS

WIDE TEETH (WT)



Good wear resistance.
For feed with a lot of fines.
Can be used on both fixed
and moving sides.

CORRUGATED (C)



Suitable for less abrasive material.
For feed with a lot of fines.
Good for small CSS settings.
Good top-size control.

COARSE CORRUGATED (CC)



For abrasive material.
For feed with a lot of fines.
Used for large CSS settings.
Good top-size control.

SHARP TEETH (ST)



For flaky feed material with a lot of fines.
Good gripping ability.
Very good top-size control.
Highly recommended if the
AI is not too high.

HEAVY DUTY (HD)



For very abrasive material.
Less top-size control.
Can be combined with a
CC moving plate.

HEAVY DUTY/COARSE CORRUGATED (HD/CC)



For very abrasive material.
Used for large CSS settings.
Good top-size control.

CJ612 (JM1211) JAW CRUSHING SOLUTIONS

JAW PLATES						
ALLOY MIX	PLATE	CC	ST	WW	HD	HD/CC
M1	Fixed	400.2266-001	402.4747-01	400.0440-001*	400.0426-001*	400.0426-001*
	Fixed middle	-	-	400.0442-001	400.0427-001	400.0427-001
	Moving	400.0443-001	402.4748-01	400.0438-001*	400.0423-001*	400.0443-001
	Moving middle	-	-	400.0439-001	400.0424-001	-
M2	Fixed	400.2266-002	402.4747-02	400.0440-002*	400.0426-002*	400.0426-002*
	Fixed middle	-	-	400.0442-002	400.0427-002	400.0427-002
	Moving	400.0443-002	402.4748-02	400.04383-002*	400.0423-002*	400.0443-002
	Moving middle	-	-	400.0439-002	400.0424-002	-

All jaw plates are one piece unless otherwise stated.

*Two pieces

CHEEK PLATES

Upper plate	402.4239-01	Lower plate	402.4635-01
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DEFLECTOR PLATE 402.4250-00

CRUSHING CHAMBERS

COARSE CORRUGATED (CC)



For abrasive material.
For feed with a lot of fines.
Used for large CSS settings.
Good top-size control.

SHARP TEETH (ST)



For flaky feed material with a lot of fines.
Good gripping ability.
Very good top-size control.
Highly recommended if the
AI is not too high.

WIDE WAVE (WW)



For slabby and less abrasive feed material.
Feed is relatively easy to crush.
Good top-size control.

HEAVY DUTY (HD)



For very abrasive material.
Less top-size control.
Can be combined with a CC moving plate.

HEAVY DUTY/COARSE CORRUGATED (HD/CC)



For very abrasive material.
Used for large CSS settings.
Good top-size control.

CJ613 (JM1312) JAW CRUSHING SOLUTIONS

JAW PLATES					
ALLOY MIX	PLATE	C	CC	ST	UT/CC
M1	Fixed	400.0447-001	400.0422-001	400.0963-001	BG00372142-01
	Moving	400.0446-001	400.0421-001	400.0964-001	400.0421-001
M2	Fixed	400.0447-002	400.0422-002	-	BG00372142-02
	Moving	400.0446-002	400.0421-002	-	400.0421-002
M8	Fixed	-	-	400.0963-004	-
	Moving	-	-	400.0964-004	-

All jaw plates are one piece unless otherwise stated.

CHEEK PLATES

Upper plate	10-214-351-000	Lower plate	10-214-352-000
Upper plate (HX900)	BG00395192	Lower plate (HX900)	BG00395193

DEFLECTOR PLATE	BG00643389
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CRUSHING CHAMBERS

CORRUGATED (C)



Suitable for less abrasive material.
For feed with a lot of fines.
Good for small CSS settings.
Good top-size control.

COARSE CORRUGATED (CC)



For abrasive material.
For feed with a lot of fines.
Used for large CSS settings.
Good top-size control.

SHARP TEETH (ST)



For flaky feed material with a lot of fines.
Good gripping ability.
Very good top-size control.
Highly recommended if the
Al is not too high.

ULTRA THICK/COARSE CORRUGATED (UT/CC)



For very abrasive material.
Used for large CSS settings.
Less top-size control.
UT fixed plate offers longer wear life.

CJ615 (JM1511) JAW CRUSHING SOLUTIONS

JAW PLATES					
ALLOY MIX	PLATE	CC	ST	HD	HD/CC
M1	Fixed	400.0485-001	400.0490-001	400.0434-001*	400.0434-001*
	Fixed middle	-	-	400.0435-001	400.0435-001
	Moving	400.0488-001	400.0491-001	400.0434-001*	400.0488-001
	Moving middle	-	-	400.0435-001	-
M2	Fixed	400.0485-002	-	400.0434-002*	-
	Fixed middle	-	-	400.0435-002	-
	Moving	-	-	400.0434-002*	-
	Moving middle	-	-	400.0435-002	-
M8	Fixed	400.0485-004	400.0490-004	400.0434-004*	400.0434-004*
	Fixed middle	-	-	400.0435-004	400.0435-004
	Moving	400.0488-004	400.0491-004	400.0434-004	400.0488-004
	Moving middle	-	-	400.0435-004	-

All jaw plates are one piece unless otherwise stated.

*Two pieces

CHEEK PLATES

Upper plate	402.4521-01	Lower plate	402.4522-01
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DEFLECTOR PLATE 402.4500-00

CRUSHING CHAMBERS

COARSE CORRUGATED (CC)



For abrasive material.
For feed with a lot of fines.
Used for large CSS settings.
Good top-size control.

SHARP TEETH (ST)



For flaky feed material with a lot of fines.
Good gripping ability.
Very good top-size control.
Highly recommended if the
AI is not too high.

HEAVY DUTY (HD)



For very abrasive material.
Less top-size control.
Can be combined with a CC moving plate.

HEAVY DUTY/COARSE CORRUGATED (HD/CC)



For very abrasive material.
Used for large CSS settings.
Good top-size control.

CJ815 (JM1513) JAW CRUSHING SOLUTIONS

JAW PLATES					
ALLOY MIX	PLATE	CC	ST	HD	HD/CC
M1	Fixed	400.0473-001*	400.0780-001	400.0463-001**	400.0463-001**
	Fixed middle	-	-	400.0462-001*	400.0462-001*
	Moving	400.0472-001*	400.0779-001	400.0460-001**	400.0472-001*
	Moving middle	-	-	400.0461-001*	-
M2	Fixed	-	-	400.0463-002**	-
	Fixed middle	-	-	400.0462-002*	-
	Moving	-	-	400.0460-002**	-
	Moving middle	-	-	400.0461-002*	-
M8	Fixed	400.0473-004*	400.0780-004	400.0463-004**	400.0463-004**
	Fixed middle	-	-	400.0463-004*	400.0462-004*
	Moving	400.0472-004*	400.0779-004	400.0460-004**	400.0472-004*
	Moving middle	-	-	400.0461-004*	-

All jaw plates are one piece unless otherwise stated.

*Two pieces

**Four pieces

CHEEK PLATES

Upper plate	402.4361-01	Lower plate	402.4622-01
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DEFLECTOR PLATE 402.4337-00

CRUSHING CHAMBERS

COARSE CORRUGATED (CC)



For abrasive material.
For feed with a lot of fines.
Used for large CSS settings.
Good top-size control.

SHARP TEETH (ST)



For flaky feed material with a lot of fines.
Good gripping ability.
Very good top-size control.
Highly recommended if the
AI is not too high.

HEAVY DUTY (HD)

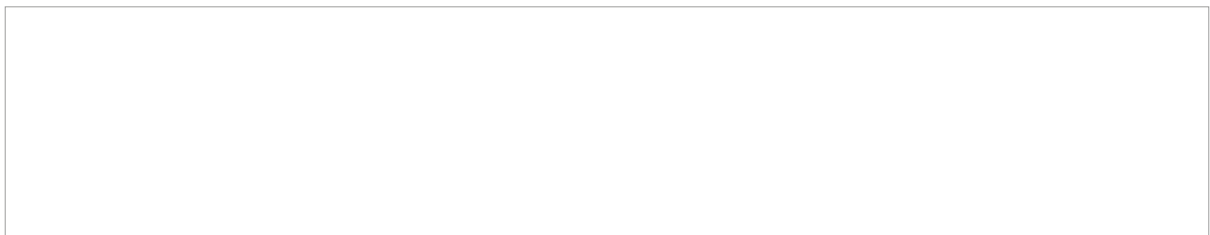


For very abrasive material.
Less top-size control.
Can be combined with a CC moving plate.

HEAVY DUTY/COARSE CORRUGATED (HD/CC)



For very abrasive material.
Used for large CSS settings.
Good top-size control.



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