Sandvik CJ411, CJ412, CJ613, CJ615 and CJ815

Jaw crushers

Better crushing starts here
Sandvik jaw crushers are reliable, high performing crushers built to optimize primary crushing applications. The new and improved jaw crusher range now include hydraulic wedge setting with syncronized retraction arragement, high efficiency main motor, upgraded guarding and clearer role-based user-friendly documentation—integrating even more of the safety, performance and sustainability you expect from Sandvik solutions.

Sandvik jaw crushers come complete and ready for plug and play installation for easy integration, minimizing delays to safe productivity and profitability. A welded main frame, material quality improvements, optimized parts uniformity across the range and clearer user-friendly documentation ensure a reliable crushing operation.

The new ACS-j system simplifies monitoring and control of key components, helping you maintain optimal crushing performance and availability through easy troubleshooting. The wide range of jaw plates can be mixed and reversed to ensure optimal, versatile crushing.

Sandvik is proud of the positive circularity impact we make through the design, manufacturing and operation of our jaw crushers. From the energy efficiency of our motors to the smarter all-in-one footprint to the fully recyclable materials used in their design, Sandvik jaw crushers are a natural fit in sustainable quarry and mining operations.

When you buy Sandvik Original Equipment and parts you know you are buying quality that's built to last – in the tough conditions they are built for. Backed up by the expertise and experience of an industry-leading partner that can reliably deliver support, solutions and troubleshooting wherever your operation is.

Advantages
- Reliable operation with safe and easy maintenance
- Proven technology with welded design
- High capacity
- High reduction
- Deep symmetrical crushing chamber and optimized nip ngle maximizes size reduction and production capacity
- Hydraulic wedge setting with syncronized retraction arrangement
- Better power and motor access
- Improved guarding for retraction system



SANDVIK

General data	CJ411	CJ412	CJ613	CJ615	CJ815
Manufacturer			Sandvik		
Type			Primary Crusher		
Model no. / size	CJ411 / 1100 x 800	CJ412 / 1200 x 800	CJ613 / 1300 x 1100	CJ615 / 1500 x 1100	CJ815 / 1500 x 1300
Motor power, kW (hp)	110 (150)	132 (180)	160 (220)	200 (275)	200 (275)
Drive type			V-Belt Drive		

Performance	CJ411	CJ412	CJ613	CJ615	CJ815
Max feed size, mm (in)	760 (30)	750 (29)	1,070 (42)	960 (38)	1170 (46)
CSS range, mm (in)	70 - 225 (2.8 - 9)	70 - 275 (2.8 - 11)	130 - 300 (5 - 12)	115 - 300 (4.5 - 12)	150 - 225 (5.9 - 8.9)
Nominal capacity, mtph (stph)	150 - 565 (165 - 625)	165 - 790 (185 - 870)	330 - 960 (360 - 1,060)	385 - 1,085 (420 - 1,200)	480 - 1,160 (529 - 1,280)

General dimensions and loads	CJ411	CJ412	CJ613	CJ615	CJ815
Feed opening					
Feed opening, mm (in)	1,045 x 840 (41 x 33)	1,200 x 830 (47 x 33)	1,300 x 1,130 (51 x 44)	1,500 x 1,070 (59 x 42)	1,500 x 1,300 (59 x 51)
Crusher dimensions assembly					
Height, mm (in)	3,300 (130)	3,340 (131)	4,000 (157)	4,200 (165)	4,490 (177)
Width, mm (in)	3,400 (134)	3,580 (141)	4,100 (161)	4,420 (174)	4,386 (173)
Length, mm (in)	3,470 (137)	3,460 (136)	4,700 (185)	4,320 (170)	5,142 (202)
Weights					
Jaw crusher assembly, kg (lb)	29,150 (64,300)	34,050 (75,100)	56,100 (123,700)	65,150 (143,700)	81,650 (180,000)
Jaw crusher, kg (lb)	24,050 (53,000)	28,550 (62,940)	48,000 (105,900)	56,900 (125,500)	72,350 (159,500)
Subframe assembly, kg (lb)	1,500 (3,310)	1,800 (3,970)	2,450 (5,400)	2,600 (5,750)	3,150 (6,945)
Drive assembly, kg (lb)	1,500 (3,310)	1,500 (3,310)	2,600 (5,750)	2,500 (5,500)	2,600 (5,730)
Guard assembly, kg (lb)	600 (1,320)	600 (1,320)	1,400 (3,100)	1,300 (2,900)	1,550 (3,420)
Static loads			Refer to foundation loads in the manuals		
Dynamic loads			Refer to foundation loads in the manuals		

Frame assembly	CJ411	CJ412	CJ613	CJ615	CJ815
Frame					
Construction			Welded		
Material, front frame			Cast steel		
Material, back frame			Cast steel		
Material, side plates			Steel plate		
Weight, kg (lb)	11,250 (24,800)	12,350 (27,230)	17,800 (39,300)	19,400 (42,800)	27,050 (59,640)
Jaw plate, stationary					
Material			Cast manganese steel		
Weight, kg (lb)	1,700 (3,750)	2,050 (4,520)	3,950 (8,710)	3,650 (8,050)	5,100 (11,240)
Fastening method			Clamping bar		
Cheek plate, upper					
Material			Cast manganese steel		
Weight, kg (lb)	220 (485)	220 (485)	380 (840)	520 (1,150)	750 (1,650)
Fastening method			Bolted		
Quantity			2		
Cheek plate, lower					
Material			Cast manganese steel		
Weight, kg (lb)	190 (420)	190 (420)	390 (860)	240 (530)	330 (730)
Fastening method			Bolted		
Quantity				2	
Wear plate					
Material			Steel plate		
Weight, kg (lb)	85 (190)	95 (210)	150 (330)	350 (770)	420 (930)
Fastening method				Bolted	
Shim plate					
Material	–		Steel plate		
Weight, kg (lb)	–	470 (1,040)	1,100 (2,430)	1,400 (3,090)	1,700 (3,750)
Fastening method	–		Bolted		

Jaw assembly	CJ411	CJ412	CJ613	CJ615	CJ815
Jaw					
Material			Cast steel		
Weight, kg (lb)	4,300 (9,480)	5,200 (11,470)	8,500 (18,740)	10,150 (22,380)	14,050 (30,975)
Jaw plate, moving					
Material			Cast manganese steel		
Weight, kg (lb)	1,600 (3,530)	1,950 (4,300)	4,100 (9,040)	3,950 (8,710)	4,900 (10,800)
Fastening method			Clamping bar		
Deflector plate					
Material			Cast steel		
Weight, kg (lb)	230 (510)	250 (550)	380 (840)	630 (1,390)	770 (1,700)
Fastening method			Bolted		
Eccentric shaft					
Material			Forged steel		
Length, mm (in)	2,070 (82)	2,320 (91)	2,468 (97)	2,870 (113)	2,870 (113)
Weight, kg (lb)	880 (1,940)	1,400 (3,090)	2,150 (4,740)	2,500 (5,500)	2,500 (5,500)
Flywheel					
Material			Cast ductile iron		
Diameter, mm (in)	1,300 (51)	1,300 (51)	2,170 (85)	1,760 (69)	2,170 (85)
Weight, kg (lb)	1,700 (3,750)	1,700 (3,860)	1,600 (3,530)	2,800 (6,180)	2,550 (5,620)
Roller bearings, jaw					
Type			Spherical roller bearing		
Quantity			2		
Roller bearings, frame					
Type			Spherical roller bearing, tapered		
Quantity			2		
Flywheel					
Design			Labyrinth ring		
Seal type			V-Ring		
Material			NBR		
Quantity			6		
Wear plate					
Material			Steel plate		
Weight, kg (lb)	85 (190)	95 (210)	150 (330)	350 (770)	420 (930)
Fastening method			Bolted		

Setting assembly	CJ411	CJ412	CJ613	CJ615	CJ815
Wedges					
Material			Hardened steel		
Weight, kg (lb)	150 (330)	180 (397)	240 (530)	370 (820)	370 (820)
Quantity			2		
Hydraulic cylinder, wedge					
Weight, kg (lb)	35 (77)	35 (77)	80 (180)	80 (180)	80 (180)
Quantity			2		
Toggle plate, short					
Material			Ductile iron		
Length, mm (in)	605 (24)	540 (21)	720 (28)	915 (36)	915 (36)
Width, mm (in)	980 (39)	1,130 (44)	1,130 (44)	1,360 (54)	1,360 (54)
Weight, kg (lb)	240 (529)	250 (551)	350 (770)	690 (1520)	690 (1520)
Toggle plate, long					
Material			Ductile iron		
Length, mm (in)	637 (25)	620 (24)	775 (31)	950 (37)	950 (37)
Width, mm (in)	980 (39)	1,130 (44)	1,130 (44)	1,360 (54)	1,360 (54)
Weight, kg (lb)	260 (570)	290 (640)	380 (840)	720 (1590)	720 (1590)
Toggle seat, wedge					
Material			Hardened steel		
Weight, kg (lb)	55 (121)	85 (187)	95 (210)	150 (330)	150 (330)
Eccentric shaft					
Toggle seat, jaw					
Material			Hardened steel		
Weight, kg (lb)	40 (88)	45 (99)	45 (99)	140 (310)	140 (310)

Retraction assembly	CJ411	CJ412	CJ613	CJ615	CJ815
Spring					
Material			Spring steel		
Weight, kg (lb)	40 (90)	40 (90)	40 (90)	55 (120)	55 (120)
Quantity			2		
Hydraulic cylinder, retraction					
Weight, kg (lb)	15 (34)	18 (39)	35 (80)	35 (80)	35 (80)
Retraction guard					
Material			Steel / Rubber		
Weight, kg (lb)			90 (200)		
Fastening method			Bolted		

Feed hopper assembly	CJ411	CJ412	CJ613	CJ615	CJ815
Feed hopper, lower					
Material			Steel plate, steel sheet		
Weight, kg (lb)	650 (1,440)	640 (1,410)	650 (1,440)	730 (1,610)	880 (1,940)
Feed hopper, upper					
Material			Steel plate, steel sheet		
Weight, kg (lb)	550 (1,215)	560 (1,240)	440 (970)	450 (990)	490 (1,080)
Feed hopper, liners					
Material			Steel HB 400		
Max weight, kg (lb)			25 (55)		
Fastening method			Bolted		

Subframe assembly	CJ411	CJ412	CJ613	CJ615	CJ815
Subframe, crusher					
Material			Steel beam, steel plate		
Max weight, kg (lb)	1,150 (2,534)	1,400 (3,090)	2,000 (4,410)	2,150 (4,740)	2,550 (5,620)
Fastening method			Bolted		
Subframe, motor					
Material			Steel beam, steel plate		
Max weight, kg (lb)	300 (661)	280 (620)	380 (840)	380 (840)	510 (1,120)
Fastening method			Bolted		

Guards assembly	CJ411	CJ412	CJ613	CJ615	CJ815
Belt guard					
Material			Steel beam, steel plate, steel sheet		
Max weight, kg (lb)	340 (750)	350 (775)	540 (1,190)	490 (1,080)	590 (1,300)
Fastening method			Bolted		
flywheel guard					
Material			Steel beam, steel plate, steel sheet		
Max weight, kg (lb)	250 (550)	250 (550)	410 (900)	370 (820)	410 (900)
Fastening method			Bolted		

Drive assembly	CJ411	CJ412	CJ613	CJ615	CJ815
Electric motor					
Type			Three phase squirrel cage induction motor		
Frame size	315S/M	315S/M	355M/L	355M/L	355M/L
Shaft diameter D, mm (in)	80 (3.1)	80 (3.1)	100 (4)	100 (4)	100 (4)
Shaft length C, mm (in)	170 (7)	210 (8)	210 (8)	210 (8)	210 (8)
Mounting			B3T		
Rated output, kW (hp)	110 (150)	132 (180)	160 (220)	200 (275)	200 (275)
Rated voltage, V			380, 400, 460, 525, 575		
Rated frequency, HZ			50, 60		
Rated speed			990 rpm @ 50 Hz, 1,190 rpm @ 60 Hz		
Poles			6		
Energy efficiency			IE4		
Protection class			IP55		
Insulation class			F		
Max weight, kg (lb)	1,350 (2,980)	1,450 (3,200)	1,950 (4,300)	1,950 (4,300)	1,950 (4,300)
Vibrations			Motor designed to handle up to ±0.5G in all horizontal directions with a frequency of f = 5 Hz.		
Motor bracket assembly					
Material				Steel plate	
Weight, kg (lb)	370 (815)	370 (815)	530 (1,170)	440 (970)	520 (1,150)
Belt tension method				Threaded rod	
Pulley, main motor frequency 50 Hz					
Grooves, SPC	9xSPC	9xSPC	8xSPC	11xSPC	8xSPC
Material				Grey cast iron	
Weight, kg (lb)	90 (200)	65 (145)	120 (265)	110 (245)	90 (200)
Pulley, main motor frequency 60 Hz					
Grooves, SPC	9x5V	10x5V	5x8V	11x8V	7x8V
Material				Grey cast iron	
Weight, kg (lb)	55 (120)	40 (110)	70 (155)	65 (145)	70 (155)
Belt drive, main motor frequency 50 Hz					
Belt type				SPC	
Number of belts	9	9	8	11	8
Flywheel pitch diameter, mm (in)	1,290 (51)	1,290 (51)	2,160 (85)	1,750 (69)	2,160 (85)
Motor pulley pitch diameter, mm (in)	315 (12)	315 (12)	500 (20)	355 (14)	440 (17)
Belt length, mm (in)	5,400 (213)	5,517 (217)	8,830 (348)	7,260 (286)	9,430 (371)
Distance C-C between pulley and flywheel, mm (in)	1,350 (53)	1,412 (56)	2,170 (85)	1,840 (72)	2,525 (99)
Belt drive, main motor frequency 60 Hz					
Belt type	5V	5V	8V	8V	8V
Number of belts	9	10	5	11	7
Flywheel pitch diameter, mm (in)	1,300 (51)	1,300 (51)	2,165 (85)	1,760 (69)	2,170 (85)
Motor pulley pitch diameter, mm (in)	265 (10)	265 (10)	415 (16)	305 (12)	380 (15)
Belt length, mm (in)	5,360 (211)	5,490 (216)	8,760 (345)	7,215 (284)	9,475 (373)
Distance C-C between pulley and flywheel, mm (in)	1,350 (53)	1,414 (56)	2,166 (85)	1,841 (72)	2,570 (101)

Hydraulic system	**CJ411**	**CJ412**	**CJ613**	**CJ615**	**CJ815**
Connection system			DIN 24° Cone ISO 8434-1		
Maximum system pressure, bar			250		

Hydraulic powerpack	**CJ411**	**CJ412**	**CJ613**	**CJ615**	**CJ815**
Electric motor					
Type			Three phase squirrel cage induction motor		
Frame size			112M		
Mounting			B5T		
Rated output, kW (hp)			3.7 - 4.0 (5 - 5.4)		
Rated voltage, V			380, 400, 460, 525, 575		
Rated frequency, Hz			50/60		
Rated speed, rpm			1,450/1,750		
Pump					
Type			Gear pump		
Pump flow, liter/min (gallon/min)			6 (1.6) @ 50 Hz, 7.2 (1.9) @ 60 Hz		
Filter					
Type			Return filter		
Filtration grade, micron			10		
Quantity			1		
Oil tank volume, liter (gallon)			20 (5.3)		
Dry weight, kg (lb)			80 (180)		
Length, mm (in)			602 (24)		
Width, mm (in)			365 (14)		
Height, mm (in)			646 (25)		

Grease system	**CJ411**	**CJ412**	**CJ613**	**CJ615**	**CJ815**
Connection system			DIN 24° Cone ISO 8434-1		
Grease distrubutor			Progressive feeder distributor		

Grease unit assembly (option)	**CJ411**	**CJ412**	**CJ613**	**CJ615**	**CJ815**
Encapsulation			Electric cabinet, steel, IP66		
Pump design			Piston pump		
Pump motor			Integrated		
Pump capacity, cm^3/min (oz/min)			2.5 (0.85)		
Supply voltage, VAC			110/230		
Max load, A			2.5		
Grease tank capacity, kg (lb)			6 (13)		
Dry weight, kg (lb)			22 (50)		
Depth, mm (in)			318 (13)		
Width, mm (in)			481 (19)		
Height, mm (in)			506 (20)		

ACS-J	CJ411	CJ412	CJ613	CJ615	CJ815
Function	The purpose of the system is to monitor and control the crusher				
Electrical hardware					
Control box					
Weight, kg (lb)	22 (49)				
Depth, mm (in)	210 (8)				
Width, mm (in)	500 (20)				
Height, mm (in)	500 (20)				
Enclosure material	Sheet steel				
Protection class	IP66				
NEMA type	Type 12				
Supply voltage, VAC	100-240				
Control voltage, VDC	24				
Power pack box					
Weight, kg (lb)	19 (42)				
Depth, mm (in)	210 (8)				
Width, mm (in)	380 (15)				
Height, mm (in)	380 (15)				
Enclosure material	Sheet steel				
Protection class	IP66				
NEMA type	Type 4				
Supply voltage, VDC	24				
Control voltage, VDC	24				
Setting box					
Weight, kg (lb)	0.8 (1.8)				
Depth, mm (in)	65 (2,6)				
Width, mm (in)	80 (3)				
Height, mm (in)	170 (7)				
Enclosure material	Polycarbonate				
Protection class	IP66				
NEMA type	–				
Supply voltage, VDC	24				
Safety functions					
Alarm severity levels	A, B, C or D				

Grease system	CJ411	CJ412	CJ613	CJ615	CJ815
Connection system	DIN 24° Cone ISO 8434-1				
Grease distrubutor	Progressive feeder distributor				

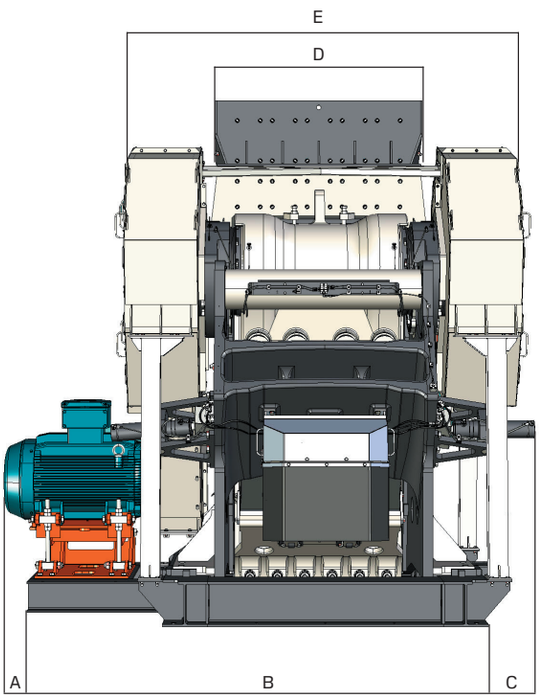
Technical specification

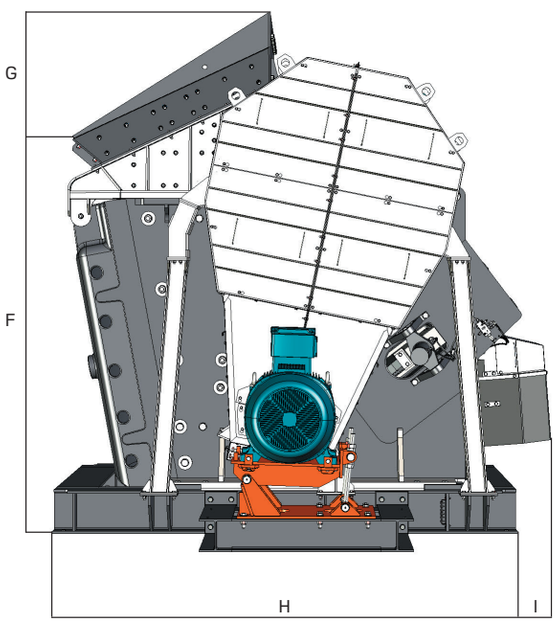
Paint / surface finish	CJ411	CJ412	CJ613	CJ615	CJ815
Top coat	Polyurethane, Gloss 55 ± 5 Measured in 60° angle				
Dryfilm thickness, top coat, µm	120 min.				
Top coat colors	Sandvik grey, Sandvik orange and Sandvik white				

Jaw plates	CJ411	CJ412	CJ613	CJ615	CJ815
Fixed side - type (alloy)	HD (M1, M9)	HD (M1, M9)	HD (M1, M9)	HD (M1, M8, M9)	HD (M1, M8, M9)
	CC (M1, M9)	CC (M1, M9)	CC (M1, M9)	CC (M1, M8, M9)	CC (M1, M8, M9)
	C (M1, M9)	C (M1, M9)	C (M1, M9)	–	–
	WT (M1, M9)	WT (M1, M9)	–	–	–
Moving side - type (alloy)	HD (M1, M9)	HD (M1, M9)	HD (M1, M9)	HD (M1, M8, M9)	HD (M1, M8, M9)
	CC (M1, M9)	CC (M1, M9)	CC (M1, M9)	CC (M1, M8, M9)	CC (M1, M8, M9)
	C (M1, M9)	C (M1, M9)	C (M1, M9)	–	–
	WT (M1, M9)	WT (M1, M9)	–	–	–

Sandvik offers different types of jaw plates and alloys to suit quarrying and mining applications.
Our patterns include Corrugated (C), Coarse Corrugated (CC), Heavy Duty (HD).

Dimensions	CJ411	CJ412	CJ613	CJ615	CJ815
A mm(in)	330 (13)	330 (13)	280 (11)	280 (11)	290 (11.4)
B mm (in)	2,716 (107)	2,983 (117)	3,300 (130)	3,700 (146)	3,640 (143)
C mm (in)	397 (16)	265 (10)	510 (20)	450 (18)	460 (18.1)
D mm (in)	1,400 (55)	1,552 (61)	1,620 (64)	1,840 (73)	1,820 (72)
E mm (in)	2,564 (101)	2,714 (107)	2,900 (114)	3,400 (134)	3,300 (130)
F mm (in)	2,681 (106)	2,674 (105)	3,600 (142)	3,300 (130)	4,000 (158)
G mm (in)	1,060 (42)	790 (31)	1,100 (43)	1,040 (41)	1,160 (46)
H mm (in)	2,976 (117)	2,840 (112)	3,800 (150)	3,900 (154)	4,100 (161)
I mm (in)	318 (13)	414 (16)	220 (9)	380 (15)	290 (11)





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