Sandvik CJ613 and CJ615

Jaw crushers

Better crushing starts here
Sandvik jaw crushers are reliable, high performing crushers built to optimize primary crushing applications. The new and improved CJ613 and CJ615 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.

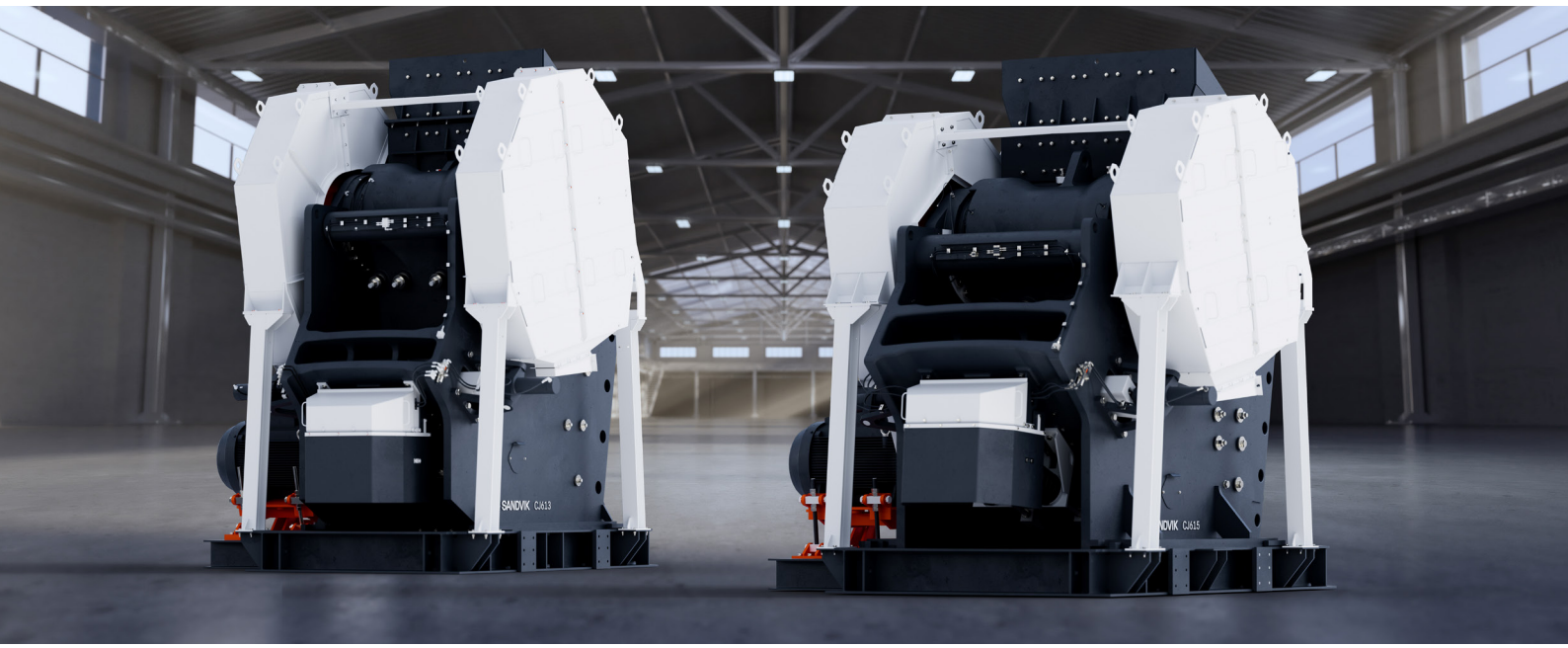
Sandvik jaw crushers come complete and ready for plug and play installation for easy integration, minimizing delays to safe productivity and profitability. A welded main frame, material quality improvements, optimized parts uniformity across the range and clearer user-friendly documentation ensure a 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 angle maximizes size reduction and production capacity
- Hydraulic wedge setting with syncronized retraction arrangement
- High energy efficiency main motor
- Improved guarding for the retraction system



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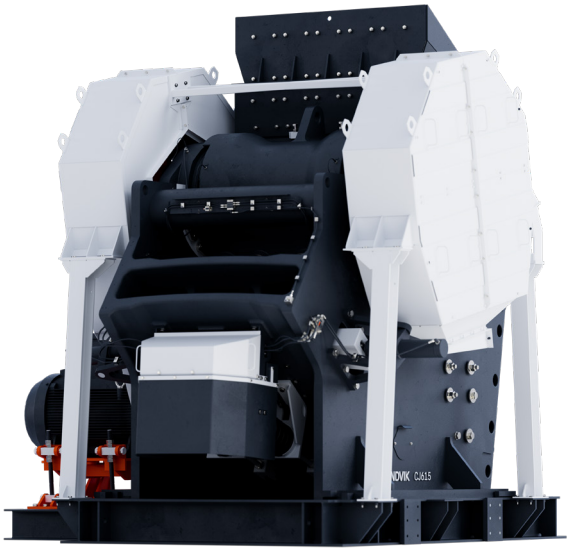


General data	CJ613	CJ615
Manufacturer	Sandvik	Sandvik
Type	Primary Crusher	Primary Crusher
Model no. / size	CJ613 / 1300 x 1100	CJ615 / 1500 x 1100
Motor power, kW (hp)	160	200
Drive type	V-Belt Drive	V-Belt Drive

Performance	CJ613	CJ615
Max feed size, mm (in)	1,070 (42)	960 (38)
CSS range, mm (in)	130 - 300 (5 - 12)	115 - 300 (4.5 - 12)
Nominal capacity, mtph (stph)	330 - 960 (360 - 1,060)	385 - 1085 (420 - 1,200)

General dimensions and loads	CJ613	CJ615
Feed opening		
Feed Opening, mm (in)	1,300 x 1,130 (51 x 44)	1,500 x 1,070 (59 x 42)
Crusher dimensions assembly		
Height, mm (in)	4,000 (157)	4,200 (165)
Width, mm (in)	4,100 (161)	4,420 (174)
Length, mm (in)	4,700 (185)	4,320 (170)
Weights		
Jaw crusher assembly, kg (lb)	56,100 (123,700)	65,150 (143,700)
Jaw crusher, kg (lb)	48,000 (105,900)	56,900 (125,500)
Subframe Assembly, kg (lb)	2,450 (5,400)	2,600 (5,750)
Drive Assembly, kg (lb)	2,600 (5,750)	2,500 (5,500)
Static loads	Refer to foundation loads in the manuals	Refer to foundation loads in the manuals
Dynamic loads	Refer to foundation loads in the manuals	Refer to foundation loads in the manuals

Frame assembly	CJ613	CJ615
Frame		
Construction	Welded	Welded
Material, front frame	Cast steel	Cast steel
Material, back frame	Cast steel	Cast steel
Material, side plates	Steel plate	Steel plate
Weight, kg (lb)	17,800 (39,300)	19,400 (42,800)
Jaw plate, stationary		
Material	Cast manganese steel	Cast manganese steel
Weight, kg (lb)	3,950 (8,710)	3,650 (8,050)
Fastening method	Clamping bar	Clamping bar
Cheek plate, upper		
Material	Cast manganese steel	Cast manganese steel
Weight, kg (lb)	380 (840)	520 (1,150)
Fastening method	Bolted	Bolted
Quantity	2	2
Cheek plate, lower		
Material	Cast manganese steel	Cast manganese steel
Weight, kg (lb)	390 (860)	240 (530)
Fastening method	Bolted	Bolted
Quantity	2	2
Wear plate		
Material	Steel plate	Steel plate
Weight, kg (lb)	150 (330)	350 (770)
Fastening method	Bolted	Bolted
Shim plate		
Material	Steel plate	Steel plate
Weight, kg (lb)	1,100 (2,430)	1,400 (3,090)
Fastening method	Bolted	Bolted

Jaw assembly	CJ613	CJ615
Jaw		
Material	Cast steel	Cast steel
Weight, kg (lb)	8,500 (18,740)	10,150 (22,380)
Jaw plate, moving		
Material	Cast manganese steel	Cast manganese steel
Weight, kg (lb)	4,100 (9,040)	3,950 (8,710)
Fastening method	Clamping bar	Clamping bar
Deflector plate		
Material	Cast steel	Cast steel
Weight, kg (lb)	380 (840)	630 (1,390)
Fastening method	Bolted	Bolted
Eccentric shaft		
Material	Forged steel	Forged steel
Length, mm (in)	2,468 (97)	2,870 (113)
Weight, kg (lb)	2,150 (4,740)	2,500 (5,500)
Flywheel		
Material	Cast ductile iron	Cast ductile iron
Diameter, mm (in)	2,170 (85)	1,760 (69)
Weight, kg (lb)	1,600 (3,530)	2,800 (6,180)
Roller bearings, jaw		
Type	Spherical roller bearing	Spherical roller bearing
Quantity	2	2
Roller bearings, frame		
Type	Spherical roller bearing, tapered	Spherical roller bearing, tapered
Quantity	2	2
Flywheel		
Design	Labyrinth ring	Labyrinth ring
Seal type	V-Ring	V-Ring
Material	NBR	NBR
Quantity	6	6
Wear plate		
Material	Steel plate	Steel plate
Weight, kg (lb)	150 (330)	350 (770)
Fastening method	Bolted	Bolted

Setting assembly	CJ613	CJ615
Wedges		
Material	Hardened steel	Hardened steel
Weight, kg (lb)	240 (530)	370 (820)
Quantity	2	2
Hydraulic cylinder, wedge		
Weight, kg (lb)	80 (180)	80 (180)
Quantity	2	2
Toggle plate, short		
Material	Ductile iron	Ductile iron
Length, mm (in)	720 (28)	915 (36)
Width, mm (in)	1,130 (44)	1,360 (54)
Weight, kg (lb)	350 (770)	690 (1520)
Toggle plate, long		
Material	Ductile iron	Ductile iron
Length, mm (in)	775 (31)	950 (37)
Width, mm (in)	1,130 (44)	1,360 (54)
Weight, kg (lb)	380 (840)	720 (1590)
Toggle seat, wedge		
Material	Hardened steel	Hardened steel
Weight, kg (lb)	95 (210)	150 (330)
Eccentric shaft		
Toggle seat, jaw		
Material	Hardened steel	Hardened steel
Weight, kg (lb)	45 (99)	140 (310)

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

Feed hopper assembly	**CJ613**	**CJ615**
Feed hopper, lower		
Material	Steel plate, steel sheet	Steel plate, steel sheet
Weight, kg (lb)	650 (1,440)	730 (1,610)
Feed hopper, upper		
Material	Steel plate, steel sheet	Steel plate, steel sheet
Weight, kg (lb)	440 (970)	450 (990)
Feed hopper, liners		
Material	Steel HB 400	Steel HB 400
Max weight, kg (lb)	25 (55)	25 (55)
Fastening method	Bolted	Bolted

Subframe assembly	**CJ613**	**CJ615**
Subframe, crusher		
Material	Steel beam, steel plate	Steel beam, steel plate
Max weight, kg (lb)	2,000 (4,410)	2,150 (4,740)
Fastening method	Bolted	Bolted
Subframe, motor		
Material	Steel beam, steel plate	Steel beam, steel plate
Max weight, kg (lb)	380 (840)	380 (840)
Fastening method	Bolted	Bolted

Guards assembly	**CJ613**	**CJ615**
Belt guard		
Material	Steel beam, steel plate, steel sheet	Steel beam, steel plate, steel sheet
Max weight, kg (lb)	540 (1190)	490 (1080)
Fastening method	Bolted	Bolted
flywheel guard		
Material	Steel beam, steel plate, steel sheet	Steel beam, steel plate, steel sheet
Max weight, kg (lb)	410 (900)	370 (820)
Fastening method	Bolted	Bolted

Drive assembly	CJ613	CJ615
Electric motor		
Type	Three phase squirrel cage induction motor	Three phase squirrel cage induction motor
Frame size	355M/L	355M/L
Shaft diameter D, mm (in)	100 (4)	100 (4)
Shaft length C, mm (in)	210 (8)	210 (8)
Mounting	B3T	B3T
Rated output, kW (hp)	160	200
Rated voltage, V	380, 400, 460, 525, 575	380, 400, 460, 525, 575
Rated frequency, HZ	50, 60	50, 60
Rated speed	1,450 rpm @ 50 Hz, 1,750 rpm @ 60 Hz	1,450 rpm @ 50 Hz, 1,750 rpm @ 60 Hz
Poles	6	6
Energy efficiency	IE4	IE4
Protection class	IP55	IP55
Insulation class	F	F
Max weight, kg (lb)	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 designed to handle up to ±0.5G in all horizontal directions with a frequency of f = 5 Hz.
Motor bracket assembly		
Material	Steel plate	Steel plate
Weight, kg (lb)	520 (1,150)	430 (950)
Belt tension method	Threaded rod	Threaded rod
Pulley, main motor frequency 50 Hz		
Grooves, SPC	8xSPC	11xSPC
Material	Grey cast iron	Grey cast iron
Weight, kg (lb)	120 (265)	110 (245)
Pulley, main motor frequency 60 Hz		
Grooves, SPC	5x8V	11x8V
Material	Grey cast iron	Grey cast iron
Weight, kg (lb)	70 (155)	65 (145)
Belt drive, main motor frequency 50 Hz		
Belt type	SPC	SPC
Number of belts	8	11
Flywheel pitch diameter, mm (in)	2,160 (85)	1,750 (69)
Motor pulley pitch diameter, mm (in)	500 (20)	355 (14)
Belt length, mm (in)	8,830 (348)	7,260 (286)
Distance C-C between pulley and flywheel, mm (in)	2,170 (85)	1,840 (72)
Belt drive, main motor frequency 60 Hz		
Belt type	8V	8V
Number of belts	5	11
Flywheel pitch diameter, mm (in)	2,165 (85)	1,760 (69)
Motor pulley pitch diameter, mm (in)	415 (16)	305 (12)
Belt length, mm (in)	8,760 (345)	7,215 (284)
Distance C-C between pulley and flywheel, mm (in)	2,166 (85)	1,841 (72)

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

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

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

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

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

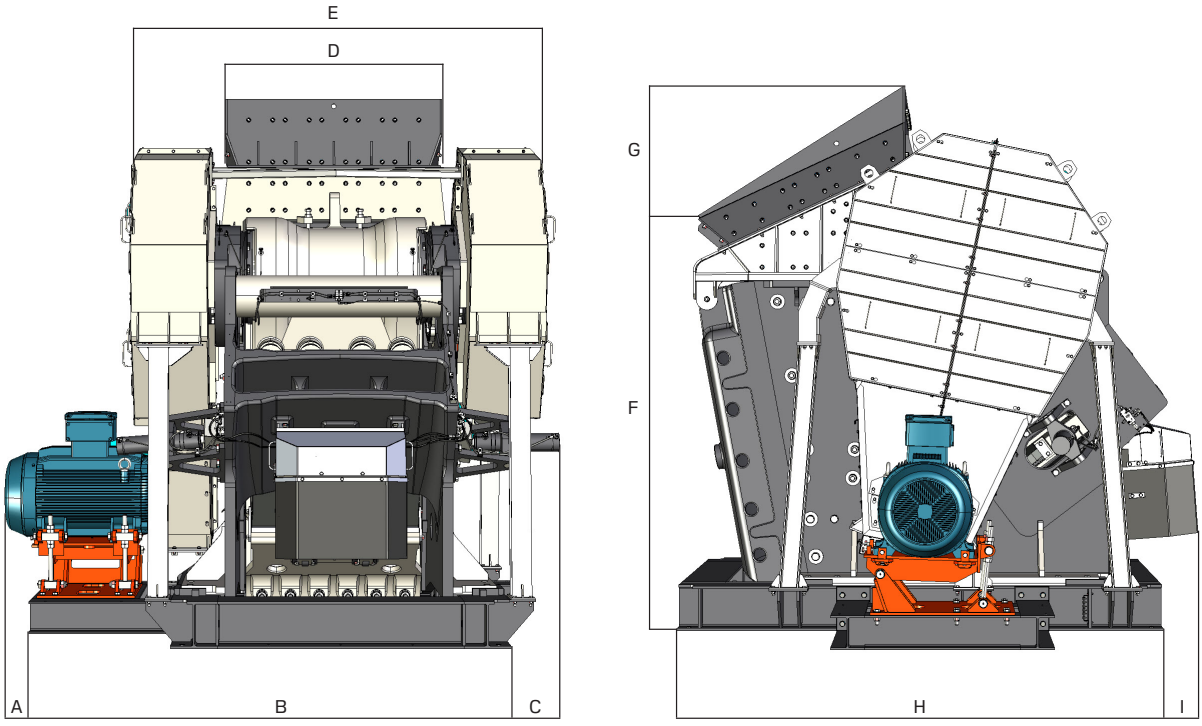
Grease system	CJ613	CJ615
Connection system	DIN 24° Cone ISO 8434-1	DIN 24° Cone ISO 8434-1
Grease distrubutor	Progressive feeder distributor	Progressive feeder distributor

Paint / surface finish	CJ613	CJ615
Top coat	Polyurethane, Gloss 55 ± 5 Measured in 60° angle	Polyurethane, Gloss 55 ± 5 Measured in 60° angle
Dryfilm thickness, top coat, µm	120 min.	120 min.
Top coat colors	Sandvik grey, Sandvik orange and Sandvik white	Sandvik grey, Sandvik orange and Sandvik white
Height, mm (in)	506 (20)	506 (20)

Jaw plates	CJ613	CJ615
Fixed side - type (alloy)	-	HD (M1, M8, M9)
	CC (M1, M8, M9)	CC (M1, M8, M9)
	C (M1, M9)	-
	ST (M1, M8, M9)	ST (M1, M8, M9)
Moving side - type (alloy)	-	HD (M1, M8, M9)
	CC (M1, M8, M9)	CC (M1, M8, M9)
	C (M1, M9)	-
	ST (M1, M8, M9)	ST (M1, M8, M9)

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

Dimensions	CJ613	CJ615
A mm(in)	280 (11)	280 (11)
B mm (in)	3,300 (130)	3,700 (146)
C mm (in)	510 (20)	450 (18)
D mm (in)	1,620 (64)	1,840 (73)
E mm (in)	2,900 (114)	3,400 (134)
F mm (in)	3,600 (142)	3,300 (130)
G mm (in)	1,100 (43)	1,040 (41)
H mm (in)	3,800 (150)	3,900 (154)
I mm (in)	220 (9)	380 (15)



All dimensions and weights are rounded. Always consult the manuals for exact values.