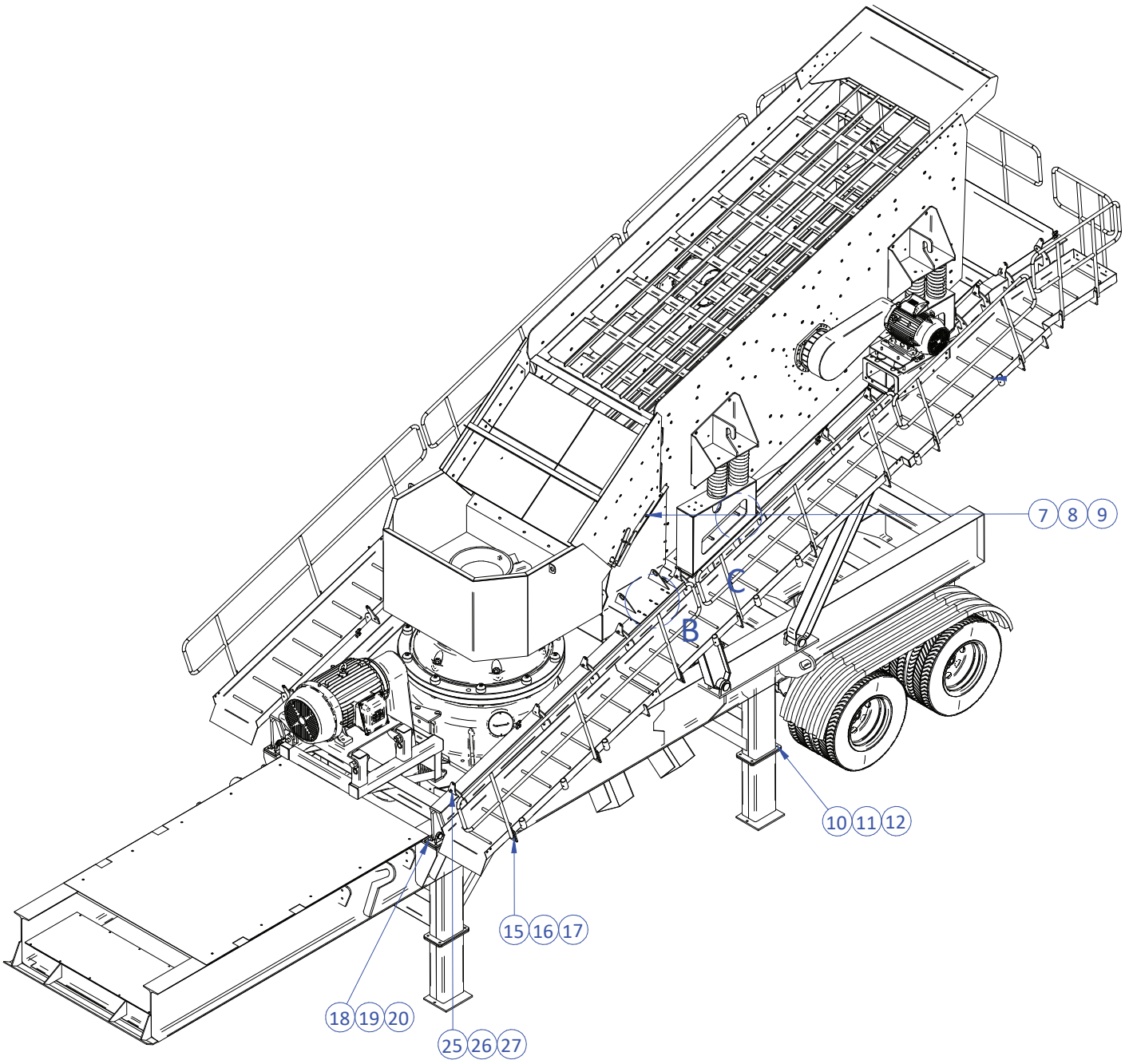
Taurian® MPS

CG Series™

CONE CRUSHER



A Legacy of Excellence

Since being established in the early 2000s, Taurian™ has installed over 600+ cone crushers across India with over 300+ belonging to the upgraded CG Series™. The CG Series™ cone crushers were first introduced in 2017 and are built on the success of our 10+ years of the CG Series™ Cone Crusher experience. It's simple yet rugged design, built for maximizing application versatility and minimizing maintenance has kept customers satisfied for years.

CG 150 | Mysore, Karnataka

CG 150 | Kishangarh, Rajasthan

CG 250 | Belapur, Mumbai

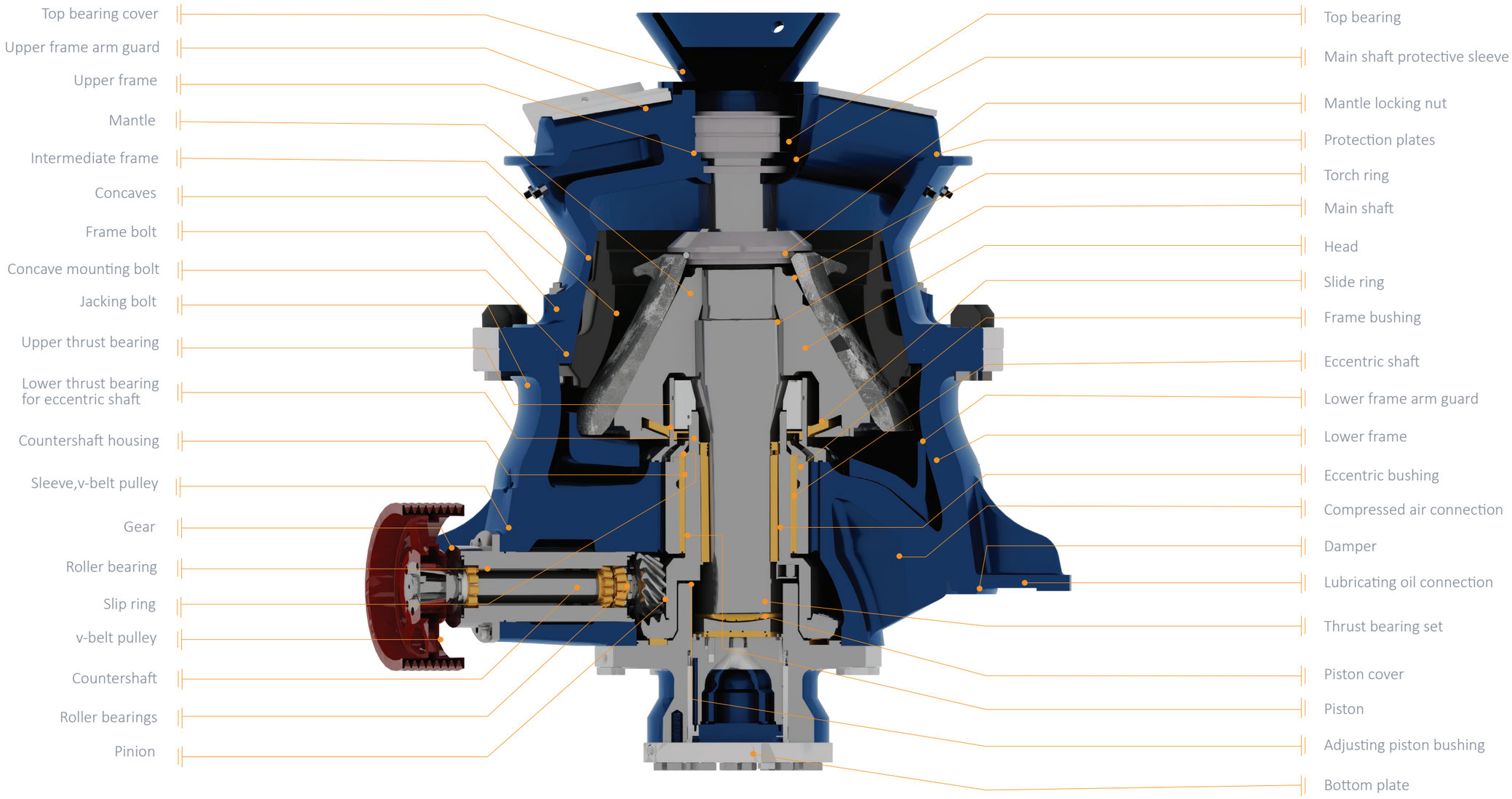
Engineered for Reliability and Low Maintenance

Taurian™ CG Series cone crushers are engineered to provide predictable, trouble-free performance in all environments or stages of crushing. Featuring a straightforward design, they are easy to maintain, service, and versatile. Their strong yet simple floating shaft design, offers mechanical reliability and has the main shaft participating in the crushing kinematics. Many aspects involved in crusher production, such as stroke length, capacity and quality, are all easily adjusted by rotating the eccentric bushing inside the crusher.

Designed For Versatility

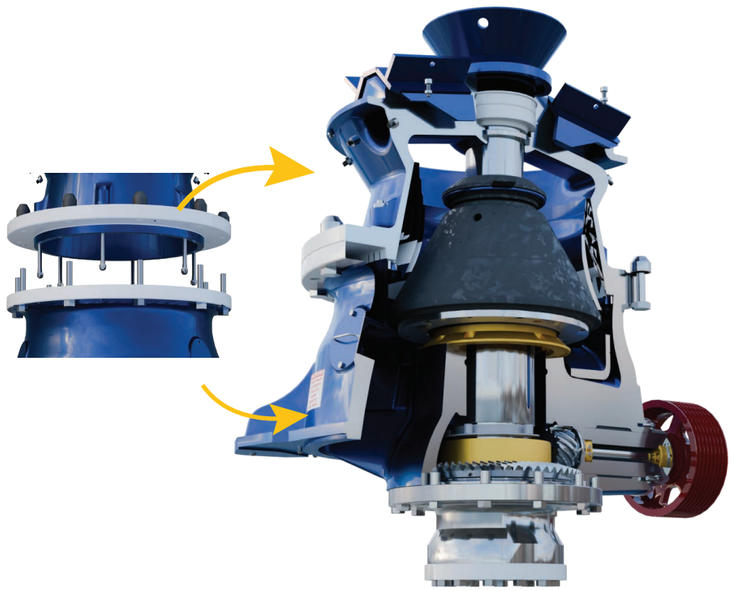
Their extra-large feed opening and chamber designs allows the use of multiple different cavity profiles to provide the perfect application fit for every crushing stage. Additionally, CG cones performance is less sensitive to the feed material level in the cavity They can mechanically tolerate on/off feed and even run empty for long periods of time with no issues due to the main shaft being supported from top and bottom. If the feed rate and feed level in the cavity is up and down – CG cone crusher is your choice.

Designed for Maximum Productivity



Unmatched Performance and Reliability: Floating Shaft Benefits

The Taurian CG Series™ Cone Crushers leverage a floating shaft construction that is engineered for the most demanding quarrying and mining applications. The shaft is supported from both the top and bottom, making them the preferred choice for applications demanding maximum durability and reliability.



Singular piston cup design for precise CSS adjustment and tramp release

The CG Series cone crusher features a floating shaft design for precise CSS adjustments (6-45 mm), enhancing product quality by up to 10%. Its tramp release system handles uncrushable materials (up to 200 mm), cutting downtime by 15%. With a 250-bar piston cup, it ensures responsive control, low maintenance, and efficient operation for optimized crushing performance.

Robust Main Frame Casting Design:

The crusher's robust one-piece cast mainframe, made from two high-strength steel castings (700 MPa), delivers superior structural integrity. This design increases strength by 20% compared to multi-piece frames and reduces maintenance by 10% with fewer failure points, ensuring durability and reliability under the toughest crushing conditions.

CG 250 | Leh, Ladakh

Benefits of Adjustable Stroke Lengths

Optimized Choke Feeding

Adjusting the stroke enables the crusher to maintain choke-fed conditions for different feed rates.

Enhanced Product Shape

Shorter strokes allow for tighter CSS, resulting in improved product size distribution, enhancing fines by up to 8%.

Reduced Energy Consumption

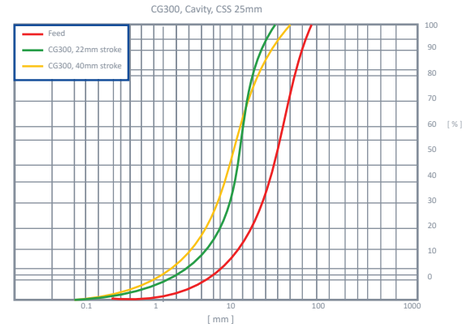
Short strokes lower energy usage by approximately 5%.

Decreased Recirculation Load

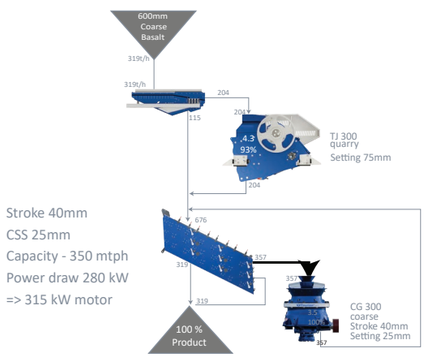
Smaller top size of output decreases recirculation up to 12%.

Lower Packing Risk

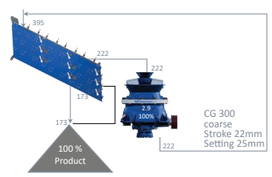
Shorter strokes prevent material packing, ensuring continuous operation even with up to 20% fines in the feed.



Longer stroke means higher capacity and more power draw



Stroke 40mm
CSS 25mm
Capacity - 350 mtph
Power draw 280 kW
=> 315 kW motor

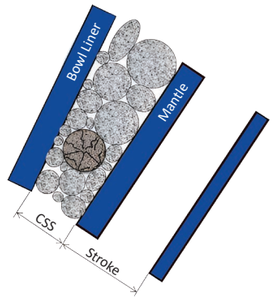


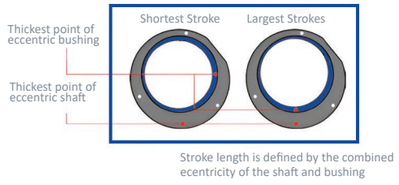
Stroke 22mm
CSS 25mm
Capacity - 220 mtph
Power draw 140 kW
=> 200 kW motor

Versatile Stroke Options for Optimal Performance

Innovative Stroke Adjustment

The CG cone crusher's adjustable stroke feature enables quick changes to the stroke length by simply rotating the eccentric bushing—no disassembly or special tools required, and it takes just 30 minutes! This adaptability harmonizes throughput with the rest of the crushing plant, ensuring consistent product size, improved quality, and optimized overall plant performance.



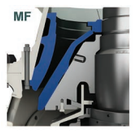


A Wide Cavity Selection : Versatility Redefined

With our comprehensive selection of cavity profiles, the CG cone crusher ensures the perfect solution for your application. The CG Series boasts a selection of 9 unique cavity profiles from extra fine to extra coarse. The liners are configured for multiple crushing stages- including secondary, tertiary, and quaternary options

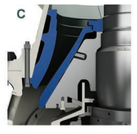
CG100 EF, CG250 EF, CG300 EF, CG500 EF

CG100 F, CG250 F CG300 F, CG500 F



CG100 MF, CG250 MF, CG300 MF, CG500 MF

CG100 M, CG250 M, CG300 M, CG500 M



CG100 C, CG250 C, CG300 C, CG500 C

CG250 EC, CG300 EC, CG500 EC

Drawing on decades of experience we have the expertise to select the optimal chamber and alloy best suited for your application. The right combination extends component lifespan, reducing the frequency of replacements and lowering operational costs.

Case Study

Mr. Balasaheb Murdare,
Owner of Shri Nimbadaitya Stone Crusher

After experiencing Taurian's machines, im convinced there's no better choice. The versatility offered by the plant has allowed us to adapt to the changing markets.

-**Mr. Balasaheb Murdare, SNSC**

Versatile 320 TPH 4 Stage Crushing Plant in Ahmednagar

Shri Nimbadaitya aimed to target the growing sand market to meet rising infrastructure demands.

Challenge: They required a 320 TPH plant capable of handling varying feed materials and producing different aggregate sizes while reducing spare parts inventory. Using identical crushers with different liners was essential to simplify operations and minimize costs.

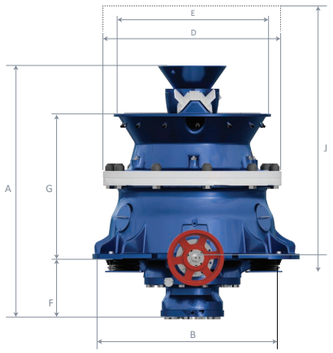
Solution: We installed a 4-stage crushing and screening plant featuring the Swift 300J Jaw Crusher, two CG 250 Cone Crushers , and Circular Motion Screens. The identical CG cone crushers were fitted with different liners—one operating with a medium liner as a secondary crusher and the other one with an extra fine liner as a sander tertiary unit. This provided the needed versatility and reduced spare parts stocking which was demanded by snsc. The equipment handled varying feeds efficiently and was easy to operate.

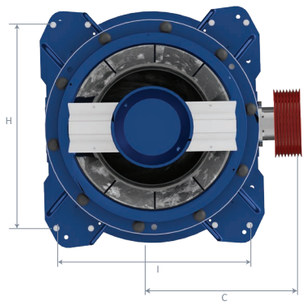
Results: The plant achieved consistent production at 320 TPH. Versatility allowed quick adjustments for different feed materials, simplifying operations and reducing downtime. The commonality of equipment minimized spare parts requirements, lowering operational costs while ensuring high-quality output.

Conclusion: The successful installation enabled the client to meet market demands effectively. The client also partnered with his colleague to install a second plant of the same layout in the region.


CG 200 | Ahmadnagar, Maharashtra

Technical Specification





Dimensions

	CG100	CG150	CG200	CG260	CG300	CG350	CG500
A	2038	2328	2383	2383	2181	2546	2771
B	Ø 1300	Ø 1300	Ø 1649	Ø 1649	Ø 1860	Ø 1860	Ø 2300
C	908	908	1165	1165	1401	1401	1589
D	Ø 1320	Ø 1320	Ø 1700	Ø 1700	Ø 1820	Ø 1820	Ø 2280
E	Ø 1040	Ø 1360	Ø 1400	Ø 1500	Ø 1480	Ø 1686	Ø 1775
F	566	566	449	449	499	499	629
G	1167	1442	1513	1520	1275	1582	1602
H	1400	1400	1700	1700	1700	1700	2113
I	1090	1090	1400	1400	1400	1400	1590
J**)	2067	2416	2477	2520	2239	2550	2887
J***)	2250	2600	2660	2700	2920	3230	3550

*) Basic machine without options. Weights given with heaviest cavity.
**) From dampers to top of feed hopper.
***) From dampers to top of feed with subframe.

Feed Opening

	CG100	CG150	CG200	CG260	CG300	CG350	CG500
EF	40 mm		40 mm	40 mm	40 mm		50 mm
F	50 mm		80 mm	70 mm	60 mm		90 mm
MF	100 mm			90 mm	100 mm		130 mm
M	130 mm	200 mm	120 mm	120 mm	130 mm	280 mm	180 mm
C	150 mm	250 mm	200 mm	180 mm	180 mm	380 mm	220 mm
EC				220 mm	260 mm		280 mm
EX							300 mm

Technical Specification

Model	CG 100	CG 150	CG 200	CG 260	CG 300	CG 350	CG 500
Feed size	40-150 mm	200-250 mm	40-200 mm	40-220 mm	40-260 mm	280-380 mm	50-300 mm
Capacity	80-120 TPH	110-230 TPH	145-210 TPH	170-260 TPH	210-355 TPH	300-400 TPH	350-550 TPH
CSS range	8-25 mm	20-45 mm	8-30 mm	8-35 mm	8-35 mm	25-50 mm	10-40 mm
Motor	75-90 kW	75-90 kW	130-160 kW	130-200 kW	200-250 kW	132-250 kW	250-355 kW
Weight	5800 kg	7350 kg	10700 kg	10200 kg	13400 kg	16200 kg	26500 kg

Technical Specification

Model	Stroke Options	Approximate TPH at Close Side Setting (CSS)									
		8 mm*	10 mm*	15 mm	20 mm	25 mm	30 mm	35 mm	40 mm	45 mm	50 mm
CG 100	16	40-50	45-55	60-70	80-90	85-95					
	20	50-55	50-60	70-80	95-105						
	25		55-65	75-90	105-120						
CG 150	16				80-90	105-115	120-130	135-145	145-165	155-175	
	20					120-130	145-155	160-180	170-200	185-215	
	25						185-195	200-220	210-230		
CG 200	20	80-100	85-105	105-125	120-145	150-170	170-190				
	25		100-120	130-150	160-180	180-210					
	30			160-180	190-210	210-230					
CG 260	18	70-90	90-105	105-120	120-140	150-170	170-190	180-200			
	25		110-130	125-150	150-170	170-190	190-210	200-230			
	32			150-170	170-190	190-220	210-230	230-260			
	40				200-230	220-250	230-260				
CG 300	25	100-120	110-130	135-155	160-180	190-210	210-235	240-260			
	32	110-130	120-150	165-195	195-225	230-260	265-295	300-330			
	40		150-170	205-235	245-275	290-320	325-355				
CG 350	18					170-190	170-210	190-230	210-255	235-275	255-295
	25						220-270	225-315	290-345	320-350	330-350
	32							360-400	380-420	400-440	
	40								450-500	480-530	
CG 500	25		140-160	160-180	190-210	240-260	270-290	310-330	350-370		
	32			230-250	270-290	310-330	340-370	380-410	430-450		
	36			290-310	320-340	380-410	430-460	480-510			

*For Softer Material

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