

# Jaw crusher Nordberg® C120™







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The versatile Nordberg C120 jaw crusher has been engineered with no compromises for stationary quarrying and mining applications, while keeping in mind the specific requirements of mobile and portable applications. It has been designed to be a perfect fit for challenging large-scale contracting, aggregate and mining processes.

## Developed on the basis of true field experience

The crusher was developed on the basis of field experience from customer sites. Crusher cavity, kinematics and operating parameters have been defined and optimized to guarantee the excellent productivity for which Metso C jaws are known and valued. Crusher height utilization has been optimized to give the steepest possible cavity cross-section. Excellent nip angle high up in the cavity, together with an aggressive linear stroke at the bottom, ensure high throughput capacity and reduction. Outstanding reliability combines with excellent productivity to give the lowest cost per produced ton of end product.

## Easy to install

The C120 has a range of bolt-on options, including an on-board motor base, and guarding for the flywheel and drives made from specially developed composite materials, which makes the unit simple to install as a crusher only or as a complete module in a new or existing plant.

The crusher is mounted without bolts between crusher and structure using mounting pads, which absorb the dynamic forces thus reducing the dynamic loads transmitted to the structures underneath.

## Safe to operate and maintain

The C120 jaw crusher is designed to be safe to operate and maintain. There are a limited number of service points and they can be accessed easily and safely. Lifting tools for items such as jaw dies, cheek plates and the toggle plate are supplied with the crusher to guarantee safe maintenance procedures and to ensure the safety of both crusher operators and maintenance crew.

- Benefits:**
- Reliability
  - Productivity
  - Easy to install
  - Safety

### Technical specification

Feed opening width	1200 mm (47")
Feed opening depth	870 mm (34")
Nominal power	160 kW (200 HP)
Weight (Basic unit)	26,000 kg (57,200 lbs)
Operating speed	230 rpm
Minimum c.s.s.	70 mm (2-3/4")
Maximum c.s.s.	200 mm (8")

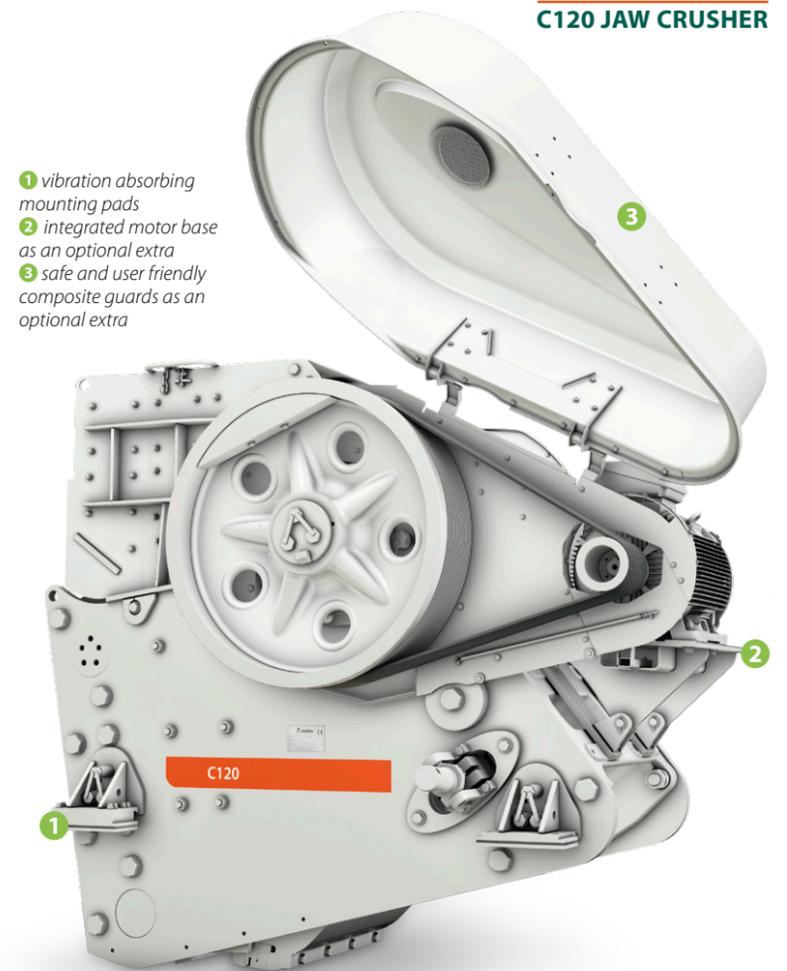
### Capacity

Product size mm (in)	Closed side setting mm (in)	Mtph (Stph)
0-105	70	175 - 240
0-4 1/8	2 3/4	195 - 265
0-120	80	195 - 270
0-4 3/4	3 1/8	215 - 295
0-135	90	210 - 305
0-5 3/8	3 1/2	235 - 330
0-150	100	235 - 325
0-6	4	260 - 360
0-185	125	285 - 395
0-7	5	315 - 435
0-225	150	340 - 475
0-9	6	375 - 515
0-260	200	385 - 540
0-10	8	430 - 595

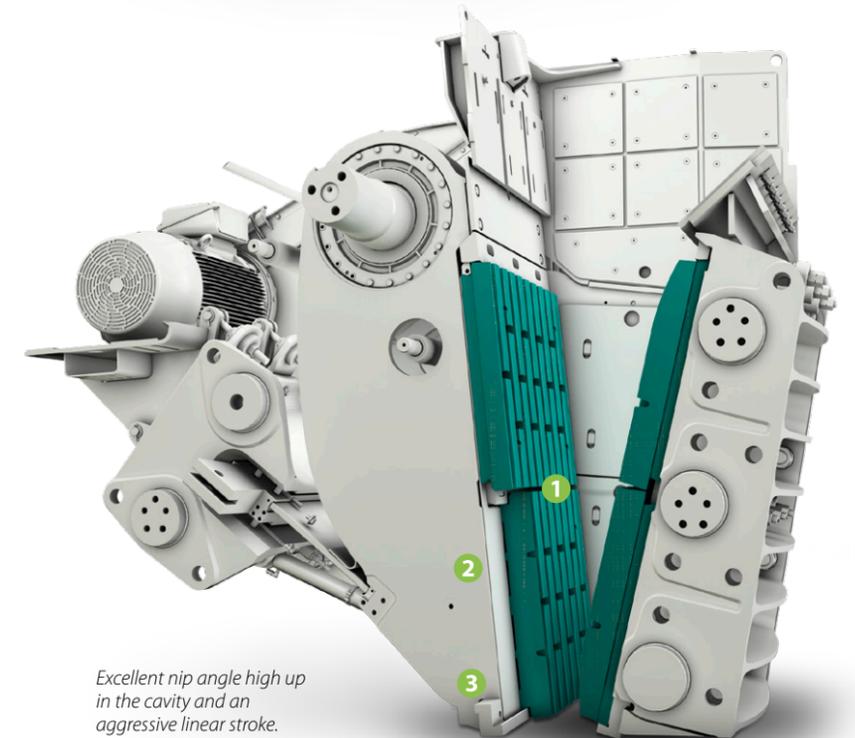
The above figures represent through the crusher capacities, which are based on a feed material with an average specific gravity of 2.7 t/m<sup>3</sup>, a maximum feed size that will enter the crusher without bridging and material finer than the crusher's closed side setting removed. The capacities may vary depending on the feeding method and on feed characteristics such as gradation, bulk density, moisture, clay content and crushability.

Measurement of the crusher's closed side setting varies depending on the jaw profile that is being used and has an impact on the crusher's capacity and product gradation. The following factors will enhance crusher capacity and performance:

1. Proper selection of the jaws.
2. Proper feed gradation.
3. Controlled feed rate.
4. Sufficient feeder capacity and width.
5. Adequate crusher discharge area.
6. Discharge conveyor sized to convey maximum crusher capacity.



- 1 vibration absorbing mounting pads
- 2 integrated motor base as an optional extra
- 3 safe and user friendly composite guards as an optional extra



Excellent nip angle high up in the cavity and an aggressive linear stroke.

- 1 single- or 2-piece jaw dies
- 2 casting protection plates
- 3 replaceable toe wedges







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