

# Metso C120 jaw crusher





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The versatile New 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.

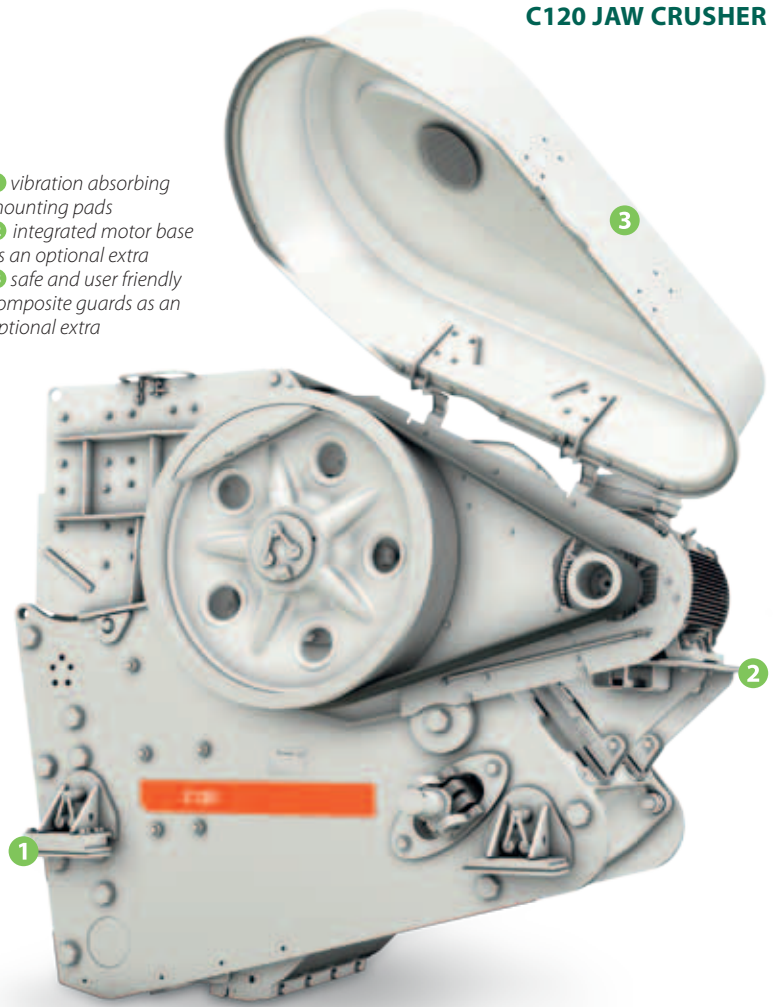
The crusher is mounted without bolts between crusher and structure using mounting pads, which absorb the dynamic forces thus reducing the dynamic loads transmitted to the structures underneath.

## 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

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



**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")            |

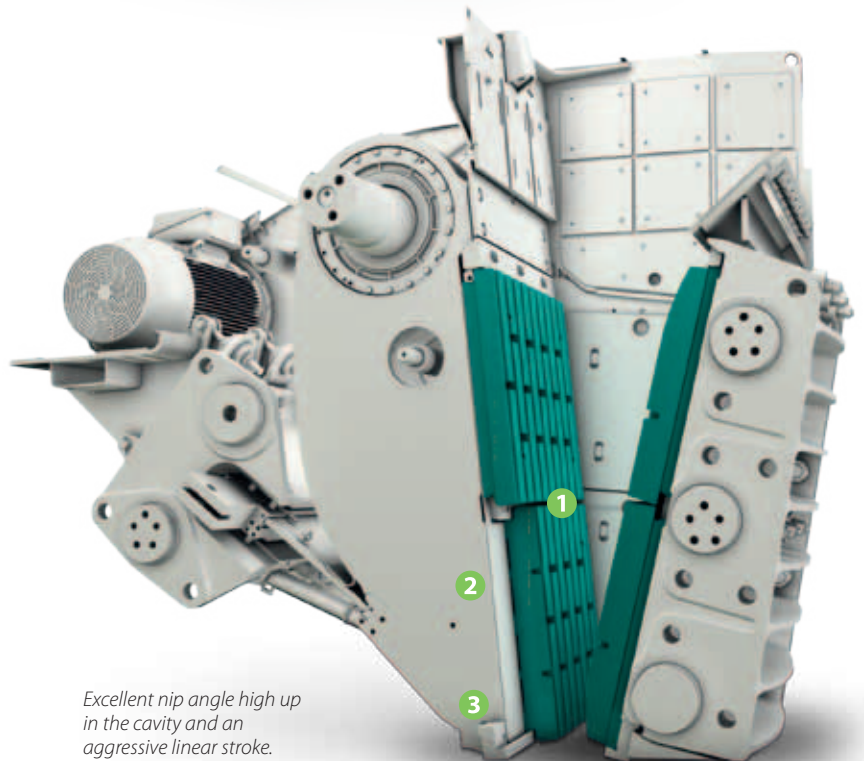
**Capacity**

| Product size<br>mm (in) | Closed side setting<br>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.



*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

## Metso's Mining and Construction crushing equipment

### Product families:

#### Unit crushers

- C series jaw crushers
- Primary gyratory crushers
- GP series cone crushers
- HP series cone crushers
- MP series cone crushers
- NP series horizontal impact crushers
- Barmac series vertical impact crushers
- Nordberg laboratory crushers

#### Mobile crushing plants

- Lokotrack LT series track-mounted crushing plants
- Nordberg NW series wheel-mounted crushing plants

#### Stationary crushing plants

- Complete plants for aggregate production
- Complete plants for recycling applications



All Metso Minerals Oy Tampere Works equipment is produced in accordance with a quality assurance system that complies with the ISO 9001 standard, as certified by Lloyd's Register Quality Assurance Limited.



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