Jaw crusher
Metso C120

metso
Expect results

Jaw crusher
Metso C120

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

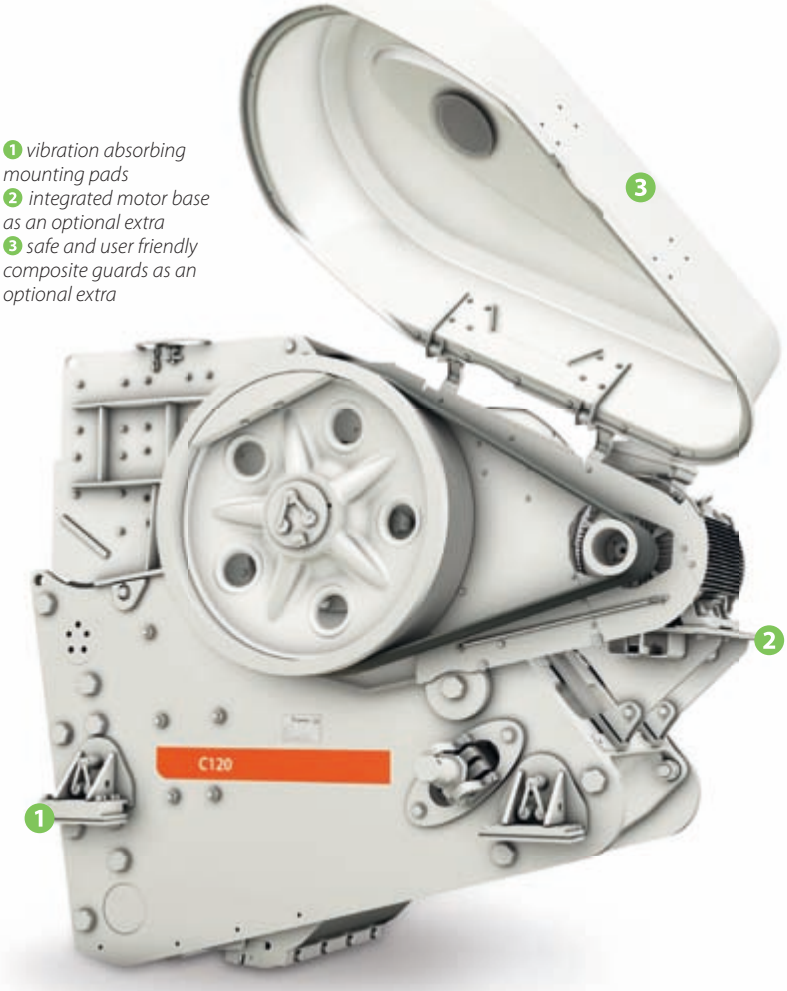
The C120 has a range of bolt-on options, including an on-board motor base, and guarding for the flywheel and drives made from specially developed composite materials, which makes the unit simple to install as a crusher only or as a complete module in a new or existing plant.

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*

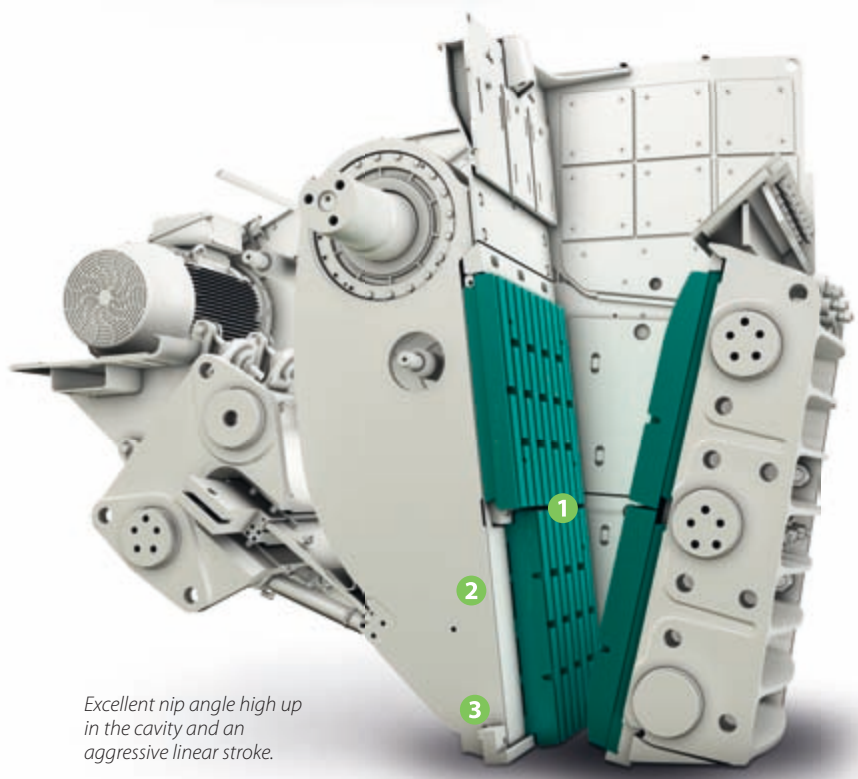
Technical specification	
Feed opening width	1200 mm (47")
Feed opening depth	870 mm (34")
Nominal power	160 kW (200 HP)
Weight (Basic unit)	26,000 kg (57,200 lbs)
Operating speed	230 rpm
Minimum c.s.s.	70 mm (2-3/4")
Maximum c.s.s.	200 mm (8")

Capacity		
Product size 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/m3, 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 and screening 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

Unit screens
- DF series screens
- CVB series screens
- FS series screens
- TS series screens
- MF series screens
- RF series screens

Unit feeders
- TK series feeders
- VF series feeders
- LH.G series feeders
- VG series feeders
- PF series feeders
- HRBM series feeders

Mobile crushing and screening plants
- Lokotrack LT series track-mounted crushing plants
- Lokotrack ST series track-mounted screening plants
- Lokotrack CT and CW series track- and wheel-mounted conveyors
- 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.

metso
Expect results

www.metso.com/miningandconstruction
minerals.info.csr@metso.com

Mining and Construction Technology main contacts

AUSTRALIA AND NEW ZEALAND
Metso Minerals (Australia) Ltd
1110 Hay Street
West Perth, WA 6005
Australia
Phone: +61 8 9420 5555
Fax: +61 8 9320 2500

CHINA
Metso Minerals (Beijing) Ltd
19/F, The Exchange Beijing, Tower 4
No. 118 Jian Guo Lu Yi Chaoyang District
100022 Beijing
China
Phone: +86 10 6566 6600
Fax: +86 10 6566 2583

EUROPE, MIDDLE EAST AND AFRICA
Metso Minerals España, S.A.
C/ Rivas N° 4
28032 Madrid
Spain
Phone: +34 91 825 5700
Fax: +34 91 825 5740

INDIA AND ASIA-PACIFIC
Metso Minerals (India) Pvt Ltd
1st Floor, DLF Building No. 10,
Tower A, DLF Cybercity
DLF Phase II
Gurgaon 122002
India
Phone: +91 124 235 1541
Fax: +91 124 235 1601

NORTH AND CENTRAL AMERICA
Metso Minerals Industries Inc.
20965 Crossroads Circle
Waukesha, WI 53186
U.S.A.
Phone: +1 262 717 2500
Fax: +1 262 717 2504

RUSSIA AND OTHER CIS COUNTRIES
ZAO Metso Minerals (CIS)
V.O. Liniya, 70
199178 St. Petersburg
Russia
Phone: +7 812 740 3040
Fax: +7 812 740 5775

SOUTH AMERICA
Metso Minerals Indústria e Comércio Ltda
Avenida Independência, 2500 - Éden
18087-050 Sorocaba
Brazil
Phone: +55 15 2102 1300
Fax: +55 15 2102 1696

METSO´S MINING AND CONSTRUCTION TECHNOLOGY
Lokomonkatu 3, P.O.Box 306
FI-33101 Tampere
Finland
Phone: +358 20 484 142
Fax: +358 20 484 143

Subject to alteration without prior notice, Brochure No. 2635-10-11-ESBL/Tampere-English,
© 2011 Metso. Printed in Finland