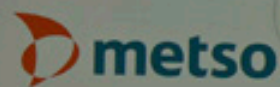


Engineered for the toughest feed materials

Nordberg® C Series™ jaw crushers



Nordberg C130

Proven
reliability and
performance

Nordberg® C Series™ jaw crushers



A long-term investment



Pinned and bolted, non-welded frame construction



Proven reliability and performance



Safe and easy to use and maintain

Long-lasting productivity

Nordberg® C Series™ jaw crushers:

- C80™
- C96™
- C106™
- C116™
- C120™
- C130™
- C150™
- C160™
- C200™

Maximum productivity with low operating costs

Nordberg® C Series™ jaw crushers are engineered for the toughest feed materials in the primary crushing stage. They deliver the crushing performance you need, and have proven their reliability and productivity in well over 10,000 quarrying, mining, recycling and industrial minerals applications since 1975.

C Series jaw crushers have a strong pinned and bolted, non-welded frame construction and the highest power ratings in each size class, which brings benefits to stationary, underground and mobile crushing applications. They are designed to the highest safety standards to make the use and maintenance as easy as possible. Metso's in-house expertise and close cooperation with our suppliers and customers enables continuous development of our jaw crushers.

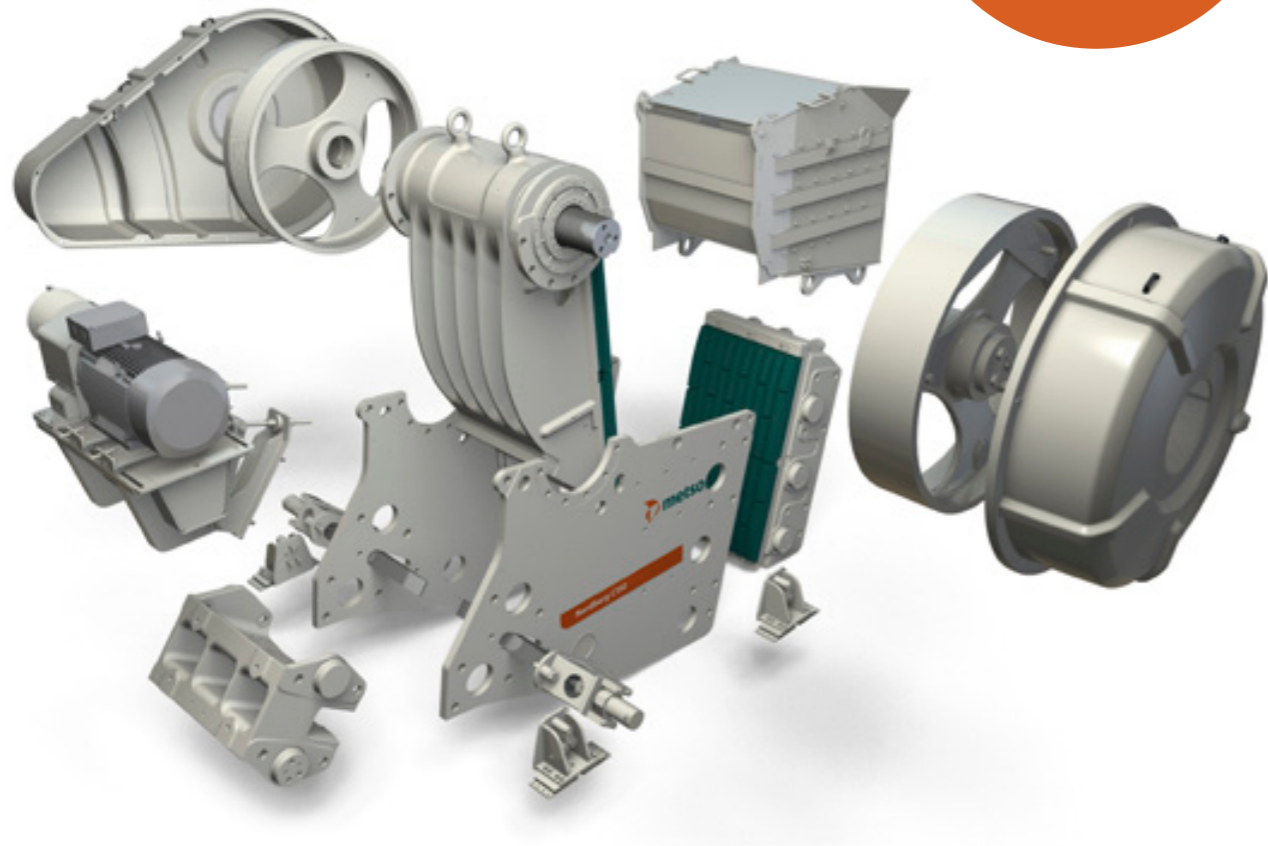


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Pinned and bolted, non-welded frame construction

Save time and costs
Minimize on-site engineering
Install easily



Nordberg® C Series™ jaw crushers are based on pinned and bolted, non-welded frame construction. This design principle contributes to their excellent fatigue life and strength, which has been proven in FEM calculations, extensive simulations and in the toughest real-life applications. This, combined with high-quality steel casting design and large size spherical roller bearings, delivers the reliability that Nordberg C Series jaw crushers are known for.

Long-term investment

At Metso, we know that C Series jaw crushers are long-term investments for our customers. That's why we have designed them for dependable productivity over their entire lifetime, year after year. The key to their proven reliability and high uptime is their revolutionary pinned and bolted design without welded seams. This, combined

with swift installation and easy maintenance, provides high availability to improve profitability and shorten the pay-back time of the investment.

Thanks to Metso's experience and comprehensive testing at customer sites, the critical parts are protected against wear by long-lasting wear items. For

example, pitman eye protection protects the bearings and the pitman casting from impacts caused by really coarse feed, and it is also effortless to change. Even the main frame components are changeable thanks to the pinned and bolted design, prolonging the potential lifetime of the jaw crusher.

Modular design enables easy installation

Nordberg C Series jaw crushers are modular for quick, easy installation and commissioning in new plants and when replacing old jaw crushers. This minimizes on-site engineering and fabrication, saves time, and reduces installation and structural costs. The integral motor base reduces space requirements and allows standard flywheel guards to be used, eliminating the need for local engineering and fitting. The optional feed chute can be attached during installation.

C Series jaw crushers are also easy to install in underground mining applications as the modular design allows them to be dismantled for transportation in tight spaces. Mounting the crusher does not require anchor bolts. This is due to our unique solution where the crusher is standing on its own weight, and vibrations are absorbed by rubber dampers under support brackets.



Proven performance

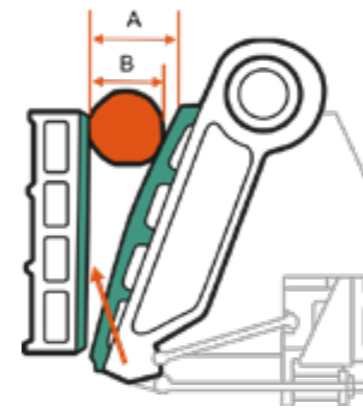


Excellent material intake capability

Nordberg C Series jaw crushers have excellent material intake capacity because the feed opening has the right width to depth ratio. This ensures that rocks enter the cavity without uptime-consuming bridging. C Series crushers can handle very coarse feed material, thus reducing the need for blasting and hammering. An optional feed chute is available, which is designed for uninterrupted material flow from the feeder straight into the crusher cavity.



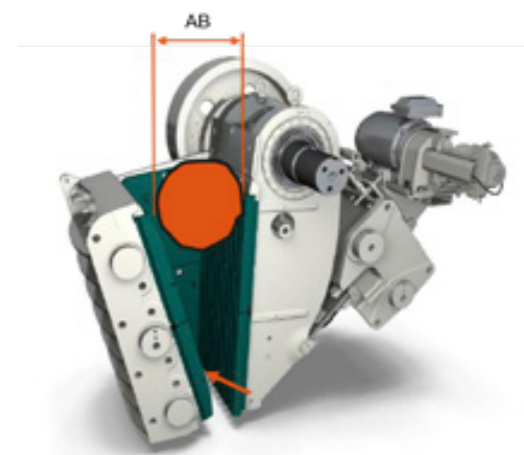
Conventional jaw crusher design:



Aggressive pitman motion

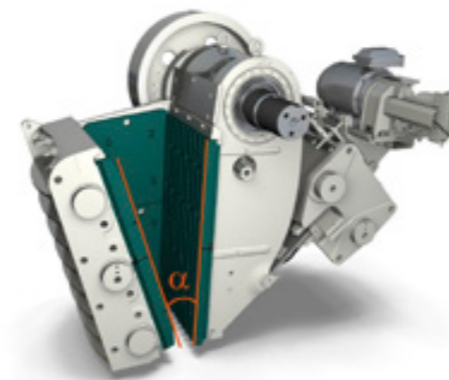
Getting the kinematics of the movable jaw dies right is an important aspect when considering the performance of a jaw crusher. Our industry-leading stroke is amplified from top to bottom, being at its longest in the lower parts of the cavity. This increases the open area between the jaw dies allowing the material to have more space to get out, while also enabling inter-particle crushing. This design principle results in an increase in both the capacity and the reduction ratio.

Nordberg C Series jaw crusher:



Benefits of tilted installation:

- Full utilization of the feed opening
- Maximized capacity with horizontally directed stroke
- Longer wear part lifetime due to less attrition



Optimal nip angle ensures excellent bite in the cavity

The correct nip angle between the movable and fixed jaw dies ensures good bite and material flow down, even with slippery feed material. It also reduces wear on the jaw dies, reducing operating costs. With a good grip, the jaw crusher can crush rocks efficiently through the entirety of the cavity, and the nip angle can be further improved with an intermediate plate.

Optimal design reduces operational and wear costs

Metso offers a wide selection of different manganese jaw die profiles and thicknesses to achieve the perfect match for applications including quarrying, mining, aggregates, and recycling of demolition material and asphalt. We use the optimum tooth spacing and profile, jaw thickness and alloys for each application to ensure reliable, long lasting performance. Metso jaw die fixing components are extremely durable and can be quickly replaced, reducing wear part-related costs even further. Metso also develops custom jaws for special applications. Special cheek plates are also available.

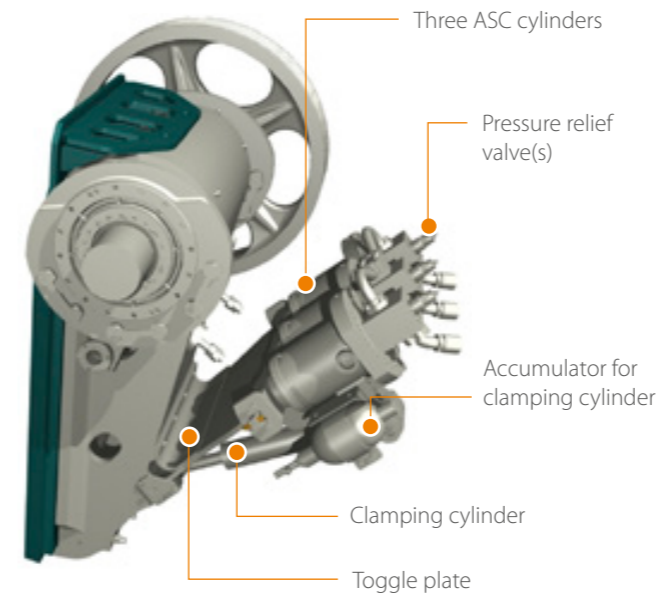




Safe and effortless operation and maintenance

The setting of the Nordberg C Series jaw crusher can be adjusted with two wedges without shim plates. The adjustment system is mechanically moved as standard, and the fully automatic hydraulic option is available to make the wedge movement even faster and safer. Other safety-enhancing features are the lightweight yet impact resistant composite guards for the flywheels and V-belts.

Maintenance and operation can also be enhanced with an optional motor base integrated into the rear frame. This lets the motor move in sync with the crusher, reducing the time you need to spend on V-belt alignment and tensioning. In addition, the greasing of the crusher can be centralized by a distributor or even automated with a greasing pump.



Active Setting Control (ASC)

Active Setting Control (ASC) is an optional accessory for the C96™, C106™, C116™ and C120™ models. This greatly enhances the crusher's performance in hard applications with frequent uncrushable objects, such as in recycling or slag applications. It also significantly improves uptime because it lets you adjust settings under a full crushing load.

With ASC, combined with IC10C, the crusher setting opens automatically when it encounters uncrushable material and returns back to the original setting, enabling it to continue crushing seamlessly.

ASC technology protects the crusher's critical components from damage with three cylinders built inside the rear frame. The unique three cylinder concept prevents the pitman bearings from twisting and ASC also includes a toggle plate for optimum jaw crusher protection.



IC10C crusher automation

Nordberg C Series jaw crushers are available with Metso IC10C crusher automation which controls and monitors crusher and ancillary equipment helping to achieve the best performance, protection and safety, and to maximize uptime. The IC10C provides constant throughput by full control of the crushing process, as well as condition and data monitoring together with the many sensors available.

Crusher automation is easy to install and is provided as complete package including interface to all selected options such as crusher motor starter, hydraulic powerpack, greasing unit and crushers sensors.

Standard package provides control logic also for feeder and discharge conveyor. Optionally with crushing station module the automation can provide further primary station automation including further conveyor control options, dust remover control, water spray control, magnetic separator control and many others.

The web-based Remote User-Interface is easy to use and enables remote control for improved operator safety and comfort. Remote control enables the operator to access all the real-time process information in centralized and safe control room with ability to adjust CSS and feed rate.

IC10C can be connected to customer's plant wide automation by using standard communication protocols. Metso Metrics fleet management system provides key performance indicators remotely anywhere anytime helping to monitor equipment utilization, plan upcoming service events with maintenance calendar and to have notifications of critical events.

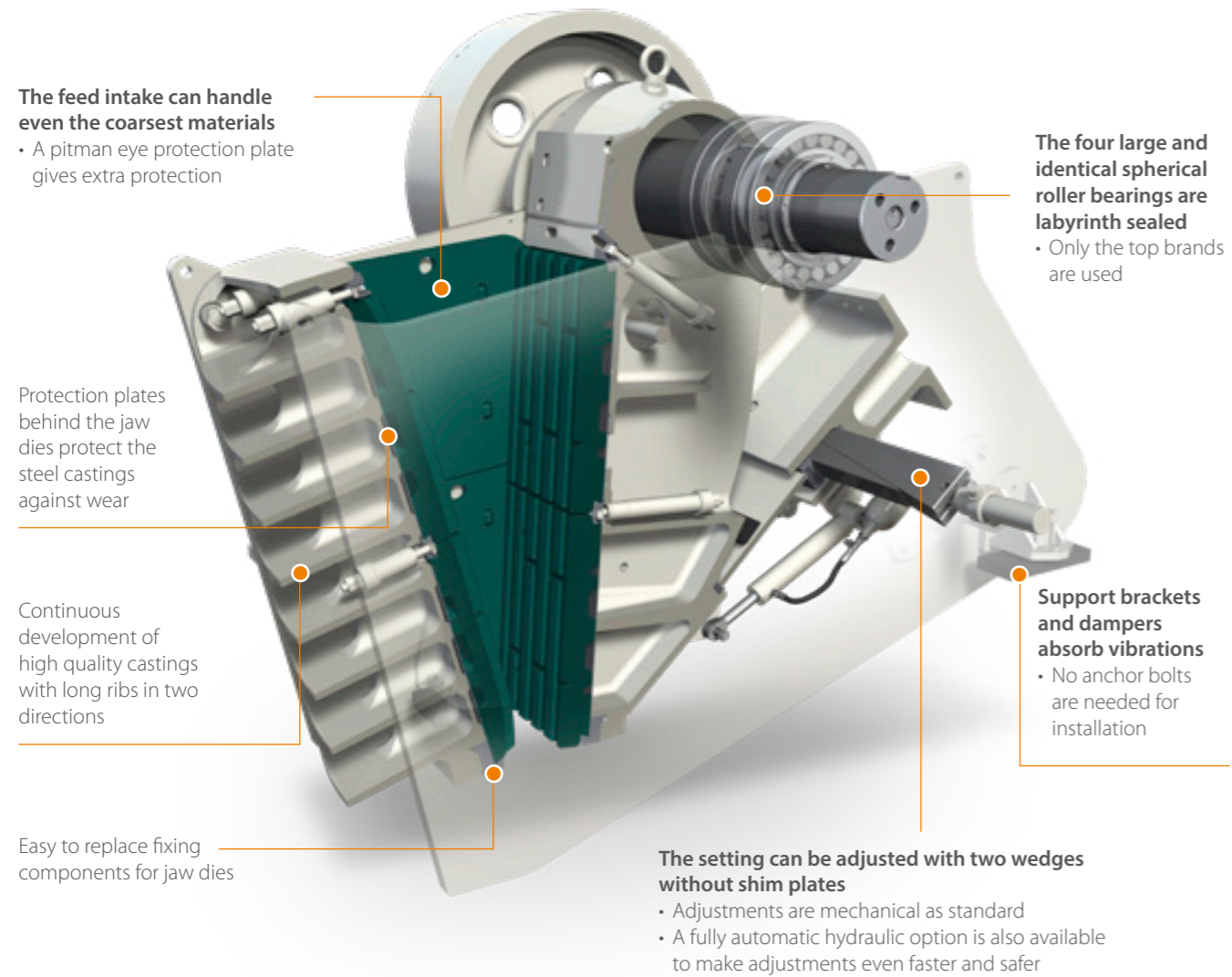


Nordberg® C Series™ jaw crushers

Proven reliability and performance

Designed for the toughest crushing applications

Nordberg® C Series™ jaw crushers are designed to handle the toughest feed materials in the primary crushing stage. They have proven their performance in at least 10,000 reference cases since 1975, in applications including mining, quarrying, recycling and industrial minerals. They have the highest power ratings in each size class thanks to their strong pinned and bolted frame, making them ideal for stationary, underground and mobile crushing applications.



Technical specifications Nordberg® C Series™ jaw crushers

| | C80™ | C96™ | C106™ | C116™ | C120™ | C130™ | C150™ | C160™ | C200™ |
|-----------------------------------|-----------------------|------------------------|------------------------|------------------------|------------------------|-------------------------|-------------------------|-------------------------|--------------------------|
| Maximum installed power | 75 kW (100 hp) | 90 kW (125 hp) | 110 kW (150 hp) | 132 kW (175 hp) | 160 kW (200 hp) | 185 kW (250 hp) | 200 kW (300 hp) | 250 kW (350 hp) | 400 kW (500 hp) |
| Speed | 350 rpm | 330 rpm | 280 rpm | 260 rpm | 230 rpm | 220 rpm | 220 rpm | 220 rpm | 200 rpm |
| Basic crusher weight *) | 7 650 kg (16 870 lbs) | 10 150 kg (22 380 lbs) | 15 650 kg (34 502 lbs) | 19 240 kg (22 470 lbs) | 27 990 kg (61 710 lbs) | 40 150 kg (88 516 lbs) | 50 950 kg (112 330 lbs) | 76 300 kg (168 213 lbs) | 124 000 kg (273 373 lbs) |
| Operational crusher weight **) | 9 340 kg (20 590 lbs) | 12 260 kg (27 030 lbs) | 18 510 kg (40 810 lbs) | 22 470 kg (49 540 lbs) | 31 690 kg (69 860 lbs) | 46 300 kg (102 070 lbs) | 59 440 kg (131 100 lbs) | 87 260 kg (192 400 lbs) | 147 110 kg (324 320 lbs) |
| Minimum closed side setting | 40 mm (1 5/8") | 60 mm (2 3/8") | 70 mm (2 3/4") | 70 mm (2 3/4") | 70 mm (2 3/4") | 100 mm (4") | 125 mm (5") | 150 mm (6") | 175 mm (7") |
| Maximum closed side setting | 175 mm (7") | 175 mm (7") | 200 mm (8") | 200 mm (8") | 175 mm (7") | 250 mm (10") | 250 mm (10") | 300 mm (12") | 300 mm (12") |
| Nominal feed opening | | | | | | | | | |
| Width ***) | 800 mm (32") | 930 mm (37") | 1 060 mm (42") | 1 150 mm (45") | 1 200 mm (47") | 1 300 mm (51") | 1 400 mm (55") | 1 600 mm (63") | 2 000 mm (79") |
| Depth ***) | 510 mm (20") | 580 mm (23") | 700 mm (28") | 760 mm (30") | 870 mm (34") | 1 000 mm (39") | 1 200 mm (47") | 1 200 mm (47") | 1 500 mm (59") |
| Estimated maximum feed size ****) | 410 mm (16") | 460 mm (18") | 560 mm (22") | 610 mm (24") | 700 mm (28") | 800 mm (32") | 960 mm (38") | 960 mm (38") | 1200 mm (47") |

*) Crusher without options ***) Actual feed opening depths are cavity specific ****) This dimension refers to the middle dimension of the estimated maximum rock size that can be fed to the crusher with new jaw dies.



Multiple available options to fit every application, including:

- Feed chute
- Flywheel and V-belt guards
- Motor base with drive system
- Hydraulic setting adjustment




IC10C crusher automation for crushing process optimization and monitoring.




Active Setting Control (ASC) for C96, C106, C116 and C120 to enhance performance and protect the crusher in hard applications with frequent uncrushable objects.




Service tools for safe maintenance are part of the standard delivery.




A long-term investment



Pinned and bolted, non-welded frame construction



Proven reliability and performance



Safe and easy to use and maintain

Technical specifications Nordberg® C Series™ jaw crushers

| | C80™ | C96™ | C106™ | C116™ | C120™ | C130™ | C150™ | C160™ | C200™ |
|---|-----------|-----------|-----------|-----------|-----------|-----------|-----------|------------|-------------|
| Crusher throughput capacity, scalped feed material | | | | | | | | | |
| Closed side setting | Capacity | | | | | | | | |
| 40 mm | 55 - 75 | | | | | | | | |
| 15/8" | 60 - 80 | | | | | | | | |
| 50 mm | 65 - 95 | | | | | | | | |
| 2" | 75 - 100 | | | | | | | | |
| 60 mm | 80 - 110 | 105 - 135 | | | | | | | |
| 23/8" | 90 - 120 | 115 - 150 | | | | | | | |
| 70 mm | 95 - 135 | 125 - 155 | 150 - 185 | 165 - 205 | 175 - 240 | | | | |
| 23/4" | 110 - 145 | 135 - 170 | 160 - 205 | 180 - 225 | 195 - 265 | | | | |
| 80 mm | 110 - 150 | 140 - 180 | 165 - 215 | 180 - 235 | 195 - 270 | | | | |
| 31/8" | 120 - 165 | 155 - 200 | 185 - 240 | 200 - 260 | 215 - 295 | | | | |
| 90 mm | 125 - 175 | 160 - 200 | 190 - 235 | 205 - 255 | 210 - 305 | | | | |
| 3½" | 140 - 190 | 175 - 220 | 205 - 260 | 225 - 280 | 235 - 330 | | | | |
| 100 mm | 140 - 190 | 175 - 225 | 205 - 265 | 225 - 285 | 235 - 325 | 270 - 369 | | | |
| 4" | 150 - 210 | 195 - 250 | 230 - 295 | 245 - 315 | 260 - 360 | 297 - 406 | | | |
| 125 mm | 175 - 245 | 220 - 280 | 255 - 325 | 270 - 345 | 285 - 395 | 325 - 446 | 340 - 470 | | |
| 5" | 195 - 270 | 240 - 310 | 280 - 360 | 295 - 380 | 315 - 435 | 358 - 491 | 375 - 515 | | |
| 150 mm | 210 - 290 | 265 - 335 | 305 - 385 | 320 - 405 | 340 - 475 | 380 - 523 | 400 - 555 | 430 - 610 | |
| 6" | 230 - 320 | 290 - 370 | 335 - 428 | 350 - 450 | 375 - 515 | 418 - 576 | 440 - 610 | 475 - 670 | |
| 175 mm | 245 - 335 | 310 - 390 | 355 - 450 | 370 - 465 | 385 - 540 | 435 - 600 | 460 - 635 | 495 - 695 | 630 - 890 |
| 7" | 270 - 370 | 340 - 430 | 390 - 495 | 405 - 515 | 430 - 595 | 479 - 661 | 505 - 700 | 545 - 765 | 695 - 980 |
| 200 mm | | | 395 - 500 | 410 - 520 | | 490 - 677 | 520 - 720 | 560 - 790 | 710 - 1000 |
| 8" | | | 445 - 560 | 460 - 580 | | 539 - 746 | 570 - 790 | 615 - 870 | 780 - 1100 |
| 225 mm | | | | | | 545 - 754 | 580 - 800 | 625 - 880 | 785 - 1105 |
| 9" | | | | | | 600 - 830 | 640 - 880 | 685 - 965 | 860 - 1215 |
| 250 mm | | | | | | 600 - 831 | 640 - 880 | 685 - 965 | 865 - 1215 |
| 10" | | | | | | 661 - 915 | 705 - 970 | 755 - 1060 | 950 - 1340 |
| 275 mm | | | | | | | | 745 - 1055 | 940 - 1320 |
| 11" | | | | | | | | 820 - 1160 | 1030 - 1455 |
| 300 mm | | | | | | | | 815 - 1145 | 1015 - 1435 |
| 12" | | | | | | | | 895 - 1260 | 1120 - 1575 |

Mtph
Stph

Benefits of primary crushing with scalping

- Better total capacity in all applications
- Better wear part wear profile
- Longer lifetime of wear parts
- Better total economy
- Lower risk of packing

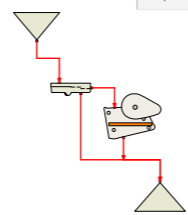
Smaller closed side settings may be possible depending on application and end product requirements, contact Metso for more information. For a performance estimation for your specific application, please simulate with the Bruno™ process simulation program or contact Metso.

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 closed side setting removed. The capacities may vary depending on the feeding method and on feed characteristics such as gradation, bulk density and moisture, clay content and crushability. Measurement of the crusher's closed side setting varies depending on the jaw profile that is being used and this has an impact on the crusher's capacity and product gradation.

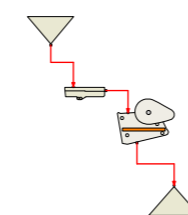
The following factors will enhance crusher capacity and performance:

- 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

Scalped feed



Non-scalped feed



Technical specifications Nordberg® C Series™ jaw crushers

| | C80™ | C96™ | C106™ | C116™ | C120™ | C130™ | C150™ | C160™ | C200™ |
|---|-----------|-----------|-----------|-----------|-----------|---------------|---------------|---------------|---------------|
| Crusher throughput capacity, non-scalped feed material | | | | | | | | | |
| Closed side setting | Capacity | | | | | | | | |
| 40 mm | 63 - 86 | | | | | | | | |
| 15/8" | 72 - 98 | | | | | | | | |
| 50 mm | 65 - 95 | | | | | | | | |
| 2" | 84 - 122 | | | | | | | | |
| 60 mm | 92 - 127 | 121 - 155 | | | | | | | |
| 23/8" | 102 - 140 | 134 - 171 | | | | | | | |
| 70 mm | 109 - 155 | 144 - 178 | 173 - 213 | 190 - 236 | 205 - 277 | | | | |
| 23/4" | 120 - 170 | 158 - 195 | 191 - 235 | 209 - 260 | 225 - 304 | | | | |
| 80 mm | 133 - 179 | 156 - 212 | 190 - 242 | 209 - 265 | 237 - 321 | | | | |
| 31/8" | 145 - 196 | 171 - 231 | 209 - 267 | 230 - 292 | 259 - 350 | | | | |
| 90 mm | 156 - 210 | 182 - 246 | 215 - 275 | 236 - 300 | 269 - 365 | | | | |
| 3½" | 169 - 229 | 198 - 267 | 237 - 303 | 260 - 331 | 293 - 396 | | | | |
| 100 mm | 179 - 242 | 209 - 283 | 240 - 313 | 263 - 338 | 303 - 409 | 316 - 428 | | | |
| 4" | 199 - 270 | 234 - 316 | 265 - 345 | 290 - 373 | 338 - 458 | 353 - 478 | | | |
| 125 mm | 241 - 327 | 281 - 380 | 306 - 414 | 335 - 445 | 391 - 529 | 407 - 551 | 420 - 568 | | |
| 5" | 270 - 365 | 313 - 424 | 337 - 456 | 369 - 491 | 437 - 591 | 455 - 616 | 469 - 635 | | |
| 150 mm | 309 - 417 | 357 - 483 | 387 - 523 | 415 - 555 | 484 - 654 | 503 - 681 | 521 - 705 | 599 - 811 | |
| 6" | 345 - 467 | 399 - 540 | 427 - 577 | 457 - 612 | 541 - 731 | 562 - 761 | 582 - 788 | 670 - 906 | |
| 175 mm | 380 - 514 | 438 - 592 | 472 - 638 | 500 - 670 | 581 - 800 | 605 - 819 | 627 - 849 | 722 - 976 | 917 - 1 241 |
| 7" | 425 - 575 | 489 - 662 | 520 - 703 | 551 - 739 | 650 - 882 | 676 - 915 | 701 - 949 | 807 - 1 091 | 1 025 - 1 387 |
| 200 mm | | | 562 - 760 | 590 - 800 | | 711 - 963 | 739 - 999 | 849 - 1 149 | 1 082 - 1 464 |
| 8" | | | 619 - 838 | 650 - 882 | | 795 - 1 076 | 826 - 1 117 | 949 - 1 284 | 1 209 - 1 636 |
| 225 mm | | | | | | 822 - 1 112 | 855 - 1 157 | 983 - 1 331 | 1 255 - 1 699 |
| 9" | | | | | | 919 - 1 243 | 956 - 1 293 | 1 099 - 1 487 | 1 403 - 1 989 |
| 250 mm | | | | | | 937 - 1 267 | 975 - 1 319 | 1 121 - 1 517 | 1 437 - 1 898 |
| 10" | | | | | | 1 047 - 1 416 | 1 090 - 1 474 | 1 253 - 1 695 | 1 605 - 2 172 |
| 275 mm | | | | | | | | 1 264 - 1 710 | 1 625 - 2 199 |
| 11" | | | | | | | | 1 413 - 1 911 | 1 816 - 2 457 |
| 300 mm | | | | | | | | 1 411 - 1 909 | 1 820 - 2 462 |
| 12" | | | | | | | | 1 577 - 2 133 | 2 034 - 2 752 |

Mtph
Stph

Benefits of primary crushing without scalping

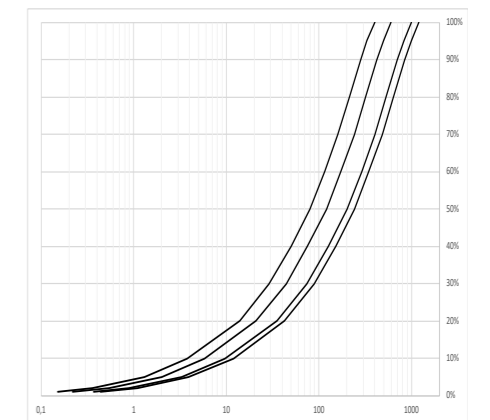
- Simpler flowsheet
- More compact lay-out
- Preferred in some mining applications

Smaller closed side settings may be possible depending on application and end product requirements, contact Metso for more information. For a performance estimation for your specific application, please simulate with the Bruno™ process simulation program or contact Metso.

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 closed side setting removed. The capacities may vary depending on the feeding method and on feed characteristics such as gradation, bulk density and moisture, clay content and crushability. Measurement of the crusher's closed side setting varies depending on the jaw profile that is being used and this 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





High-quality jaw crusher parts are the perfect fit

Original replacement jaw crusher parts ensure the proper fit, form and function to reduce maintenance issues and increase longevity. Metso has a complete offering for both standard and engineered-to-order parts, ensuring you have the availability and support required. Our global distribution and logistics network ensures that Metso OEM spare and wear parts are available when you need them.

Spare parts

- Frame parts
- Mechanical adjustment systems
- Hydraulic adjustment systems
- Mounting systems
- Lubrication systems
- Toggle plates

Wear parts

- Jaw plates
- Cheek plates



Helpful service tools

All Nordberg C Series jaw crushers are delivered with safe-to-use lifting tools for daily maintenance tasks.

This includes a maintenance platform to make changing and rotating wear parts safer, quicker and more ergonomic.

Lifting tools for jaw dies, cheek plates and toggle plate are part of the standard delivery.



Maximize your jaw crusher's efficiency, availability and longevity

Metso offers a full portfolio of services from maintenance, equipment upgrades and retrofits, process optimization and controls to Life Cycle Services to ensure that you get the best out of your jaw crusher, reach your production goals and maximize your jaw crusher's lifetime. You can be sure that our experts are always there to help you!

"The C160 is already impacting our business with improved production,"

says Andy Meadows, Group Engineering Manager of Longcliffe

CASE Longcliffe Quarries Ltd., UK



Improved operational efficiency and reliability

Longcliffe Quarries Ltd, produce specialty high-quality calcium carbonate products at their Brassington Moor Quarry. To meet their long-term objectives they decided to replace their existing primary crusher with a Nordberg C160 jaw crusher. The new crusher was installed into the existing space, respecting the feed and conveyor system. This was possible thanks to the modular design of the C160, which enabled it to be built in the final location. The new crusher justified the capex investment with improved production and throughput. And it also reduced downtime and improved operational efficiency and reliability.

CASE Albchrome, Burrel, Albania



Demanding ferrochrome crushing

Albchrome crushes demanding plates of ferrochrome using Nordberg C Series C120 and C96 jaw crushers at their plant in Burrel, Albania. The C120 is operated as a primary crusher followed by the C96 as a secondary crusher in a closed circuit producing -50 mm material.

Due to the extra hard and highly abrasive feed material, the stationary plant and the operation had to be designed so that the material could be processed and crushed as efficiently as possible. They decided to equip the jaw crushers with Active Setting Control (ASC) technology to protect them from damage caused by the types of uncrushable objects common in crushing applications with ferrochrome-like feed material.



All Nordberg products are supported through Metso and through our network of authorized Metso distributors with our expert service, technical support and genuine Metso spare parts.

➤ Read more: [metso.com/showroom](https://www.metso.com/showroom)

Learn more about Nordberg® C Series™ jaw crushers

 metso.com/nordberg

Find your closest Metso or distributor sales team

 metso.com/contacts



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