

# Metso MX™

Multi-Action cone crusher



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+10%  
more uptime



-10%  
operational costs



Up to 70%  
wear part  
utilization



Multi-Action  
technology



Selective  
production



Safe and  
simple



# Metso MX

## A giant leap in profitability



### +10% more uptime

The effective uptime of Metso MX is significantly greater compared with traditional cone crushers. The patented Multi-Action technology allows dynamic setting adjustment and wear compensation without having to stop the process. It also automatically optimizes protection against uncrushable objects with daily protection adjustment, increasing uptime even further.



### -10% operational costs

Metso MX with Multi-Action is the most cost-efficient crusher technology on the market. It enables 10% or more savings in operational costs compared with traditional cone crushers. Savings in wear components, coupled with effective and continuous crushing action, provides an unbeatable starting point to bring down the cost per ton in any quarry and mining application.



### Up to 70% wear part utilization

Metso MX provides maximum utilization of the wear parts, up to 70% of the mass. Optimal cavity design, stroke direction and an effectively distributed crushing action lead to the ultimate rock-on-rock crushing motion. Together with Multi-Action technology, this results in extended maintenance intervals and higher production.



### Multi-Action technology

The Metso's patented Multi-Action technology is a revolutionary way to optimize the crusher setting and wear compensation in real time, requiring no human actions. Both the piston and rotating bowl adjustments can be fully automated. Dynamic setting adjustment and wear compensation are designed to be used when the crusher is operating at its full potential without needing to stop the process.



### Selective production

The smart optimization of Multi-Action technology is the key advantage to reach the desired end-product shape and particle size distribution while eliminating waste. End products can be measured even 10 times per second and viewed directly from the Metso IC crusher automation display. You can easily control and automate parameters such as material cavity level, crusher speed, power, setting and piston pressure.



### Safe and simple

Metso MX is designed to be the safest cone crusher to operate and maintain. During the crushing operation, all moving parts are inside the crusher. Lifting devices and hydraulic tools make maintenance simple and safe. Backing resins for liners are no longer needed, something that operators and the environment appreciate. The simple design of the MX also enables easy disassembly without heating any components.



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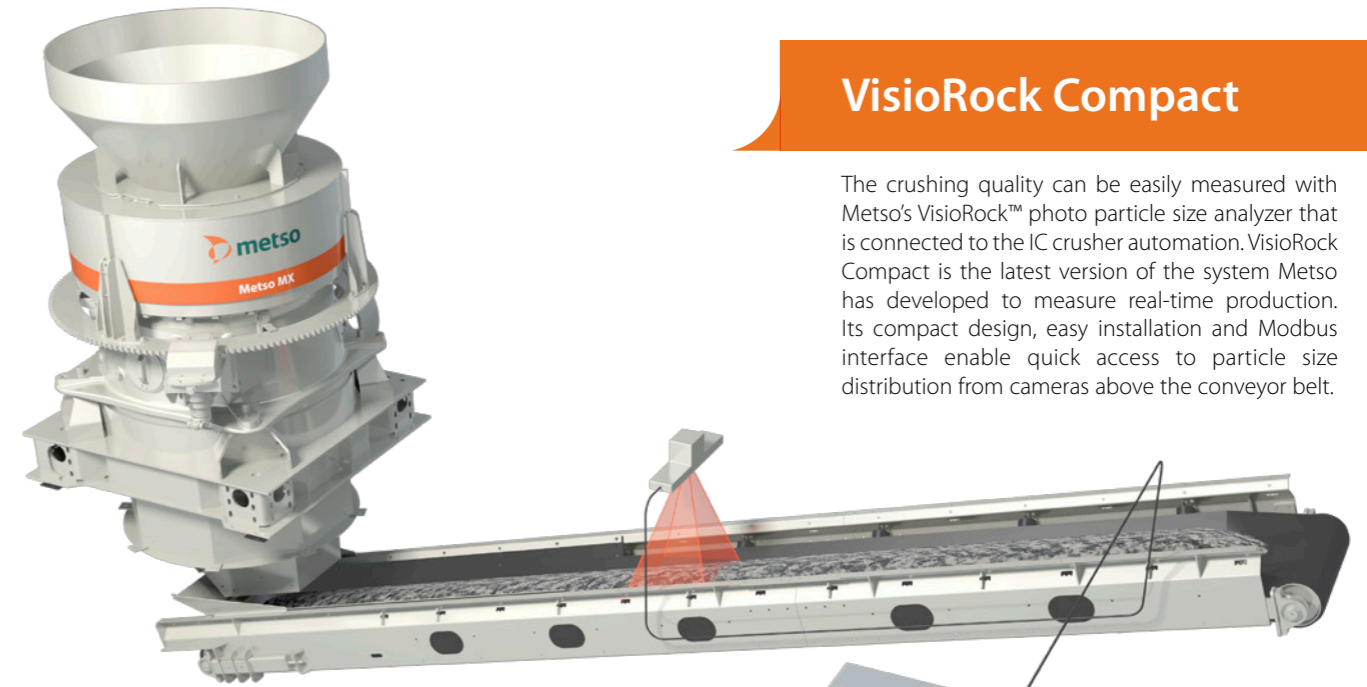
## The intelligent crusher



- 1 Piston
- 2 Rotating bowl
- 3 Head
- 4 Spiral bevel gear
- 5 Antispin device
- 6 Head seal
- 7 Inspection door
- 8 Liners without backing resin

### Protection

Metso MX provides a maximized tramp release distance and very high protection against uncrushable objects and overloading in all conditions, even with completely new wear parts.

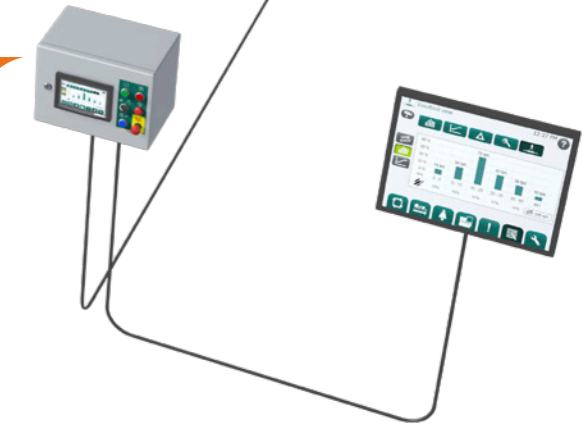


### VisioRock Compact

The crushing quality can be easily measured with Metso's VisioRock™ photo particle size analyzer that is connected to the IC crusher automation. VisioRock Compact is the latest version of the system Metso has developed to measure real-time production. Its compact design, easy installation and Modbus interface enable quick access to particle size distribution from cameras above the conveyor belt.

### Metso IC crusher automation

Metso IC™ crusher automation is an advanced way to optimize your production efficiency and uptime in all conditions. It protects the crusher in multiple ways, as it is safer and more user friendly. The process can be started and stopped by pressing a single button for the feeder, crusher, and conveyors. Metso IC incorporates setting and load modes, plus offers practically unlimited ways to control your crusher's operation and feeding conditions.



### Technical specifications

Metso MX4	Metric	Imperial
Maximum power	315 kW	400 HP
Maximum feed size	257 mm	10 1/2"
Minimum setting	8 mm	5/16"
Head diameter	1,175 mm	46 1/4"
Length *)	3,700 mm	12' 1"
Width *)	2,840 mm	9' 3"
Height *)	2,930 mm	9' 7"
Weight *)	21,200 kg	46,750 lbs

\*) Complete installation: crusher and sub frame, motor sub frame, guards, and feed arrangements

### Typical applications

Metso MX4	Metric tons per hour	Short ton per hour
Maximum throughput	430-600	470-660
Ballast production	160-220	175-240
0/20 mm or 3/4"	220-285	240-315
0/10 mm or 3/8"	130-160	140-175
Sand production	60-80	65-90

The capacities listed are dependent on the feed gradation, crushing chamber, material density, material cleanliness, moisture and crushability.

# The Metso Way – Making the big difference to our customers

Everything we do is based on deep industry knowledge and expertise that makes the big difference to our customers. Decades of close customer collaboration and adapting to our customers' ever-changing needs have transformed us into a knowledge company.



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Metso has applied for multiple patents relating to the technology used.

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