

EC66 Series Cone Crusher



ENDURON® EC Series Cone Crusher

ENDURON® EC series cone crushers deliver a proven approach to processing crushed ores and quarry rock products.

These crushers are designed to be reliable, simple to operate and maintain, while incurring low operational costs. The design of our live-shaft cone crusher has been proven to perform in heavy-duty secondary, tertiary and quaternary crushing applications. ENDURON® EC series cone crushers have also demonstrated reliable performance in demanding pebble crushing applications.

Designed to deliver high crushing force through a large throw, increased horsepower and moderate increases in crushing speed, the ENDURON® EC series cone crusher also incorporates modern hydraulic features that allow users to safely and easily adjust the crusher's settings. Siemens PLC hardware enables straightforward integration, interaction and control of ENDURON® cone crushers. The new HMI interface simplifies maintenance and servicing, improving operational efficiency while providing clear operator guidance and ease of use.

Tramp material is dealt with safely through a fully automated tramp-release and setting recovery system. The tramp-release hydraulics can also be used to safely clear the crushing chamber should a sudden disruption in plant power cause a shut-down of the cone crusher.

In addition, ENDURON® EC series cone crushers can be operated remotely and fully integrated into the plant's control system if required.

The ENDURON® EC series cone crusher range is manufactured using a combination of heat-treated, stress-relieved, high-strength and forged alloy steels. This combination, complemented by cast bronze alloy bushings, ensures long service life, even in the most demanding crushing applications.

Design Features

- Heat treated, stress relieved casted parts
- Forged steel alloy shaft
- Alloy steel head
- Rotating bowl assembly
- Hydraulic push button control of CSS via ring gear
- Hydraulic tramp release
- Hydraulically supported clearing of crushing chamber
- Hydraulic thread locking during crushing via hydraulic cylinders
- ESCO® crushing chambers
- Compact Hydraulic and Lubrication Power Unit (H/LPU) with an improved sustainable footprint
- New automation platform with IO-Link technology
- Defined lifting points for safe handling and easier maintenance

Applications

- Secondary crushing of extracted ore or aggregate materials
- Tertiary crushing of extracted ore or aggregate materials
- Quaternary crushing of extracted ore or aggregate materials
- Recycling of construction materials
- Pebble crushing

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Designed to maximise performance, our entire range of crushing and grinding equipment is also backed by the Weir's unrivalled global service network, which means that our experts are here to support you every step of the way, regardless of your site's location.

Materials of Construction

Main frame	High strength cast steel
Main shaft	Alloy steel - forged
Bushings	Cast bronze alloy
Head	High strength cast steel
Bowl	High strength cast steel

Physical Properties

Head diameter	1676mm (66.0")
Weight	43,500kg (95,900lbs)
Throw	75.0mm (3.0")
Pinion speed	560rpm
Power	250kW (350hp)

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	Standard				Short head			
Chamber type	Extra Coarse	Coarse	Medium	Fine	Extra Coarse	Coarse	Medium	Fine
Closed side setting	38-64mm	25-51mm	22-38mm	16-38mm	16-25mm	10-25mm	6-19mm	6-13mm
Max feed size	325-375mm	230-280mm	200-250mm	180-220mm	140-170mm	100-140mm	65-95mm	45-80mm
Capacity range	475-740mtph	380-560mtph	360-475mtph	300-475mtph	320-380mtph	200-380mtph	155-365mtph	155-260mtph

Note: All limits are with material that have a rating of 12 to 14 Wt.

Maximum feed size = (maximum open + maximum closed) / 2 @ given setting per cavity book.