



Jaw Crusher Model JC5000

Sturdy, Hard Wearing
300 mm x 500 mm Plant Jaw Crusher



Robust and Dependable

A robust and dependable high-capacity jaw crusher suitable for large laboratory and plant applications. The JC5000 is the largest model in Essa range of proven and reliable heavy-duty jaw crushers.

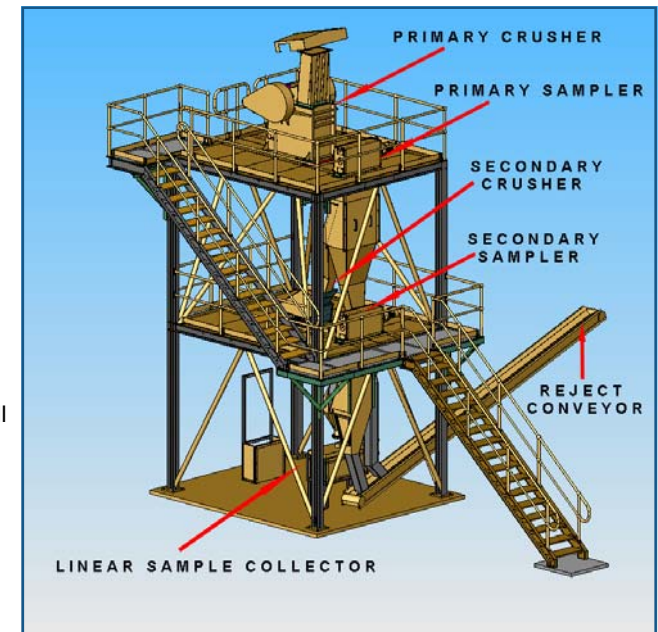
The JC5000 finds general application in a variety of operating environments. It readily accepts soft to very hard ore, rock and large industrial particulate up to 85% of its 300 mm x 500 mm jaw opening.

This is a heavy duty machine suitable for use in a continuous or large batch operating environment. Typical applications will include primary crushing of large lump ore in sampling stations and pilot plants, the pre-crushing of materials being prepared for analytical or metallurgical laboratory use and in industrial production facilities.

Features and Benefits

- ▶ **Reduced capital cost:** flexibility of use allows for continuous or batch use in laboratory and plant applications.
- ▶ **Primary crushing application:** 500 mm x 300 mm jaw opening accepts large input feed size up to 250 mm.
- ▶ **Increased productivity:** high reduction ratio, with 30 mm product size, results in faster and more efficient crushing with reduced process stages.
- ▶ **High throughput:** fast and powerful crushing at 15 tonnes per hour throughput.
- ▶ **Increased availability:** designed with a mechanically simple single toggle that is reliable and easy to maintain and repair.
- ▶ **Improved quality:** easy and fast jaw gap adjustment provides good control of product sizing while minimising downtime and labour service requirements.

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The JC5000 is ideally suited to handle the primary crushing of large lump ore in sampling stations

- ▶ **Multi-purpose use:** installation flexibility allows for use in multiple applications and operating environments.
- ▶ **Reduced operating/spares cost:** extended wear part life with reversible and interchangeable jaw plates.
- ▶ **Decreased downtime and maintenance costs:** long life roller bearings exhibit reliability at high load capacity.
- ▶ **Improved safety:** full drive guarding enhances personal safety and complies with client OH&S standards.
- ▶ **High level motor protection:** IP65 rated electric motor is totally protected against dust ingress and against low pressure water jets from any direction.



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Shown here in Essa's Perth workshop next to the Model JC3000 Jaw Crusher (left of picture).

Technical Data

Jaw Inlet	500 mm x 300 mm
Maximum Feed Size	250 mm (85% of jaw inlet)
Usual Product Size	30 mm
Maximum Product Size	75 mm
Throughput at Usual Product Size	15,000 kg/h
Motor Power	22 kW, 3 phase
Toggle Speed	325 strokes per minute
Dynamic Loading - Vertical	+/- 8.34 kN
Dynamic Loading - Horizontal	+/- 1.87 kN
Dynamic Frequency	5.42 Hz
Dust Extraction Points	Zero
Dust Extraction Flow	n/a
Mass	3,500 kg
Dimensions (length x width x height)	1,190 mm x 765 mm x 1,370 mm

Please note that the figures quoted at left are nominal only performance expectations that can vary according to the physical characteristics of the material being prepared, the condition of the equipment, the gap adjustment and the method of feeding the crusher.

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