



8 x 5 CRUSHER SPECIFICATIONS

Overview

The Keegor Single Toggle, Roller Bearing Jaw Crusher is of the overhead eccentric type, and is well adapted to producing the finely crushed product which is required in the Assay Office, Metallurgical Laboratory and any other application requiring crushing of samples.

The machine is of robust design and continuous, production orientated applications can be accommodated under certain conditions.

Although the 8" x 5" crusher can be used in most laboratories for the main sample preparation function, it is preferred to install our smaller Keegor 5" x 3" Crusher for this purpose, particularly if multiple units are to be installed.

The 8" x 5" machine is best suited to primary crushing only, in a Laboratory where the majority of samples to be crushed are oversized for the smaller machine.

The reasons for this are as follows:

Higher capital cost of the large machine.

Higher maintenance cost of the large machine (both for the cost of spares and in difficulty of handling, storing and installing the larger components).

Higher noise levels from the large machine.

Larger machine more difficult to operate and is rather ungainly for laboratory use.

Larger floor area required for the larger machine.

General Details

Maximum Feed Size:

The machine is capable of accepting a maximum feed size of the same proportions as the feed opening (203 x 127 mm). This translates into a maximum feed size of 100% minus 127 mm.

Minimum Crushed Particle Size:

The crusher can comfortably reduce the feed down to 100% minus 6 mm.



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Drive:

Totally enclosed fan cooled, 11 kW, 4 pole, 525V or 380V motor (or other voltage on request), which can be conveniently mounted behind or above the crusher.

The motor is supplied complete with a 3 groove V-pulley.

For geological fieldwork or remote locations, a petrol or diesel motor can be supplied in place of the electric motor.

Frame:

This is of one-piece steel construction and is of heavier section than the frames of contemporary machines of equivalent capacity.

Eccentric Shaft:

Accurately machined from EN9 steel, with a minimum tensile strength of 45 tons. The shaft has been designed for the heaviest duty and is supported in the main frame on heavy duty, double row, self-aligning roller bearings, grease packed and adequately sealed against the ingress of dust and moisture.

Pitman Arm:

A one-piece steel casting supported on large diameter, heavy duty, adjustable taper roller bearings, sealed with felt against the intrusion of dust and moisture.

Toggle & Seats:

These are of white iron, easily accessible and inexpensive to replace. The toggle is maintained in position by two powerful drawback springs, the tension of which is controlled by means of two easily accessible eyebolts.

Stationary Jaw Holder:

The main feature of this component is the ease with which it can be withdrawn from the machine for inspection and/or renewal of jaw plates.

Material:

Cast Steel.



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Jaw Plates:

These are of 14% manganese steel and are interchangeable and reversible. The method of clamping the jaw plates in position is simple and effective, the swing jaw being held by a wedge-shaped clamp at its upper end and the stationary jaw plate by a clamp at its lower end.

Cheek Plates:

These are of 14% manganese steel, rectangular in shape, interchangeable and reversible and are housed in two rectangular recesses in the main frame. The plates are held securely in position by two setscrews and the clearance between them and the jaw plates controlled by three setscrews on either side of the main frame.

Control of Product Size:

This is affected by two acute angled complementary iron wedges, which can be adjusted in or out by means of large set screws, one on either side of the main frame.

Protection from Shock Overloads:

The steel distance pieces passing through the front of the main frame, transmit the thrust of the stationary jaw to a heavy steel plate, clamped against a machined face on the front of the main frame by 6 powerful compression springs.

Any sudden overload causes the stationary jaw to swing forward, the shock being transferred through the distance pieces to the compression springs. Provision has been made for the adjustment of the tension of the shock absorber springs.

Flywheels:

These are of heavy one-piece cast construction.

General:

This crusher is manufactured entirely in South Africa with the exception of the anti-friction bearings, which are available ex local stocks.