Datasheet **Sample Preparation** Wescone Crusher Model W300

Wescone Crusher Model W300

Compact, High Speed, High Reduction Ratio Cone Crusher

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Unique Mid-Range Primary Crusher Suitable for Laboratory and Plant Use

The Wescone W300 features an innovative simultaneous double crushing action that assures rapid size reduction of the feed material and minimises production of oversize discharge to typically less than 15%.

The centre of the Wescone crushing action is close to the eccentric mass of the crusher. This results in lower out of balance forces allowing higher operating speeds. The Wescone can be operated at a speed to generate maximum fines or at a slower speed to produce less fines and a higher proportion of particles closer to the crusher gap setting.

Features and Benefits

- **Reduced capital cost:** simple installation and flexibility of application allows for continuous or batch use in laboratory and plant environments.
- **Increased productivity:** features a uniquely designed simultaneous double crushing action that assures rapid size reduction and minimises production of oversize discharge.
- **Reduced operational costs:** single stage crushing, at a 15:1 reduction ratio, increases productivity.
- **Improved quality:** variable operating speed allows user to tailor the output product size.
- **Decreased installation costs:** reduced plant infrastructure, easily incorporated into process streams due to its compact design.

Automation friendly: well suited to incorporation into linear automation systems that minimise manual handling, improve process control and increase productivity.

Shown here is a Wescone W300 cone crusher integrated with a residue type rotary sample divider (RSDR).

- **Flexibility of use:** can be supplied as a ready-to-use laboratory crusher. Laboratory package includes mounting frame, inlet and sample tray.
- **High level motor protection:** IP65 rated electric motor is totally protected against dust ingress and against low pressure water jets from any direction.

Materials routinely crushed by the Wescone W300 include iron ore, bauxite, nickel ore, high carbon ferro chrome, silicon slag, manganese, gold bearing ores and cement clinker. The diversity of these products reflect the versatility of the crusher and its ability to handle almost any crushable product.

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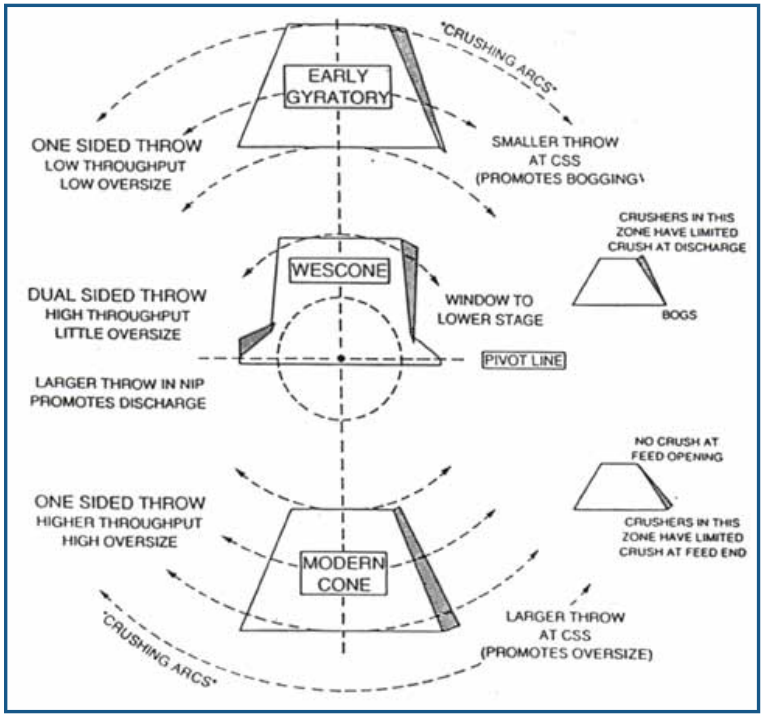
Technical Data

Maximum Feed Size	50 mm sphere
F80	35 mm sphere
Usual Product Size (Minimum CSS)	2 - 3 mm
% Passing CSS	>90%
Throughput at 3 mm CSS	2,500 - 3,500 kg/h
Throughput at 6 mm CSS	5,000 - 6,000 kg/h
Throughput at 12 mm CSS	9,500 - 10,500 kg/h
Maximum Reduction Ratio	15:1
Motor Power	9.2 kW
Maximum Main Shaft Speed	300 - 720 rpm
Dust Extraction Points	Zero
Mass	500 kg with motor and frame
Dimensions (length x width x height)	1,180 mm x 765 mm x 1,370 mm

Please note that the figures quoted above 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



The Wescone's flexibility of application allows for continuous or batch use in laboratory and plant environments.

Here a W3000 is mounted above a linear cross stream sampler in an iron ore sample tower.

- Crushes more than 90% of feed to size in the first pass
- Achieves reduction ratios up to 4 times greater than other crushers
- Reduces or increases fines, with no liner changes
- Low eccentric mass, no counter weights, less vibration
- Full roller bearing construction, no high pressure oil system or coolers
- Available in a variety of configurations e.g. production unit, sample station, laboratory configuration
- Weighs 20-25% less than other crushers
- Ease of maintenance and operation
- High chrome liners for long life
- Low power consumption
- Simple construction

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