

Cavex® Hydrocyclones

G4 hydrocyclones

Technical Specifications



Minerals

Design features

- Adjustable inlet size through interchangeable inlet wedge to optimise performance.
- Replaceable drop-in Linatex® premium rubber or ceramic liners.

Applications

- Mineral processing including closed circuit grinding, tails disposal, desliming and flotation or gravity concentration.
- Coal Processing
- Power / FGD
- Industrial
- Chemical
- Sand and gravel
- Limestone
- Phosphate

Outstanding efficiency, capacity, and long wear life.

Cavex® G4 hydrocyclones provide high capacity, economical and efficient classification, particularly in closed circuit grinding operations. Clusters of Cavex® G4 hydrocyclones are also suitable for removing oversized grit from cement, clay, drill mud, effluent and other slurries.

Classification occurs when coarse material reporting to the spigot is returned for further grinding, while fine material in the overflow progresses for further processing, such as CIP or flotation processing.

Fines recovery and de-gritting of very fine solids requires small cyclones operating at higher than normal pressures. The diameter of the Cavex® G4 hydrocyclone required to achieve this high pressure is determined by the particle size to be recovered. Total required throughput determines the number of Cavex® hydrocyclones needed.

An interchangeable inlet wedge allows the operator to quickly and easily vary the inlet size. This innovative feature provides the ability to fine-tune the Cavex® G4 hydrocyclone performance without physically removing it from the process line, resulting in increased productivity and decreased downtime.

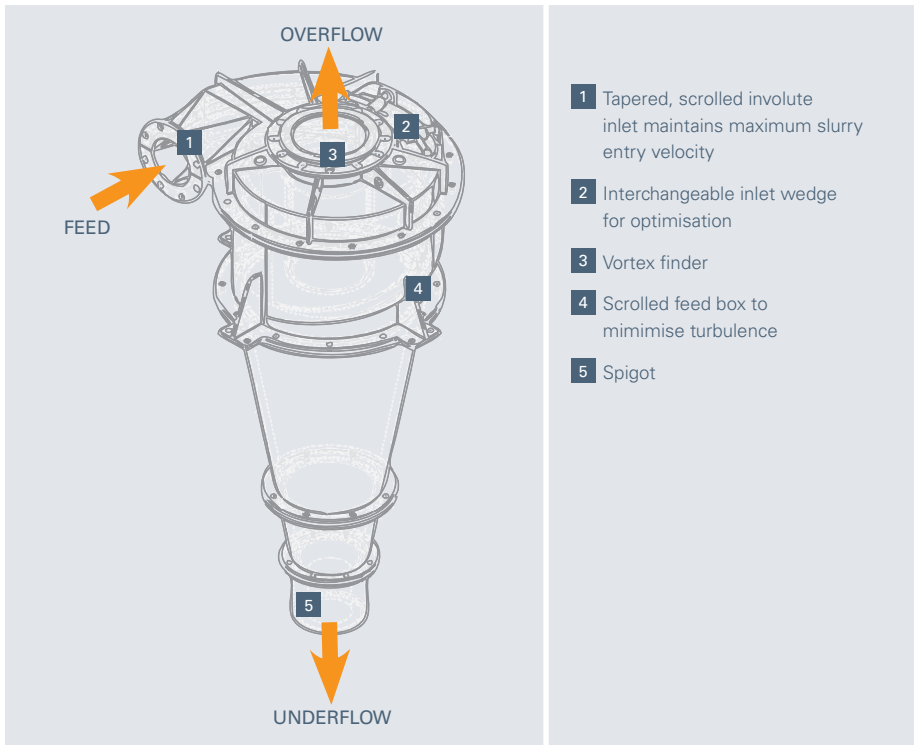
The use of drop-in Cavex® replacement wear liners, manufactured from Linatex® premium rubber or high quality ceramics, reduces maintenance costs due to their excellent resistance to abrasion. Specific combinations of rubber and ceramics are available for lower cones and spigots, designed to provide an even wear pattern within the Cavex® G4 hydrocyclone, enhancing its service life.

Available sizes

100mm, 150mm, 250mm, 375mm, 500mm, 660mm, 840mm and 1200mm.



Above: The interchangeable inlet wedge (shown in purple) allows the operator to quickly and easily vary the inlet size to maximise performance.



Complete customisation for optimal performance

Our Cavex® hydrocyclones are backed by our vast Weir Minerals Services™ network. This means our experts are there to support you, every step of the way, wherever you may be.

Our expert team will work with you to improve your throughput and cut rates.

We are on hand to design clusters and systems to ensure your plant reliably operates at peak capacity.

Our team are experts at designing hydrocyclone clusters that retrofit into existing spaces to maximise production, and address operational and maintenance issues.



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