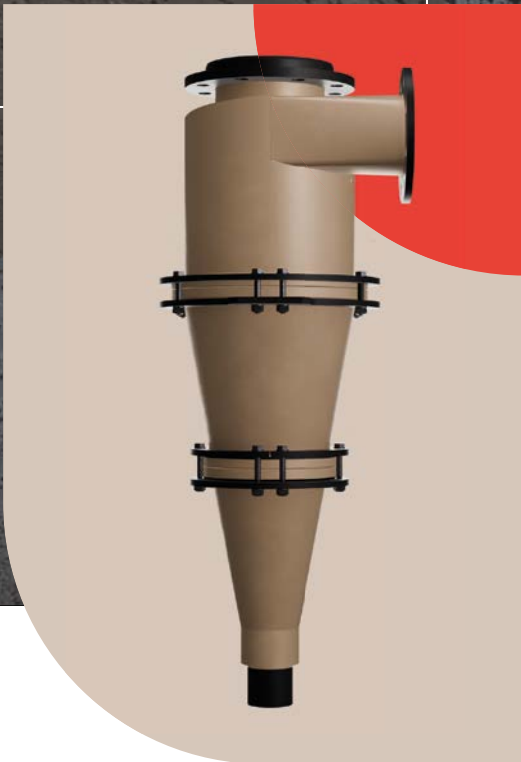


Equipment Details



CLASSIFIERS

mtCyclones

Cyclones for classification, desliming, dewatering, thickening, backfill and tailings duties

How it works



There is no single best cyclone for every application

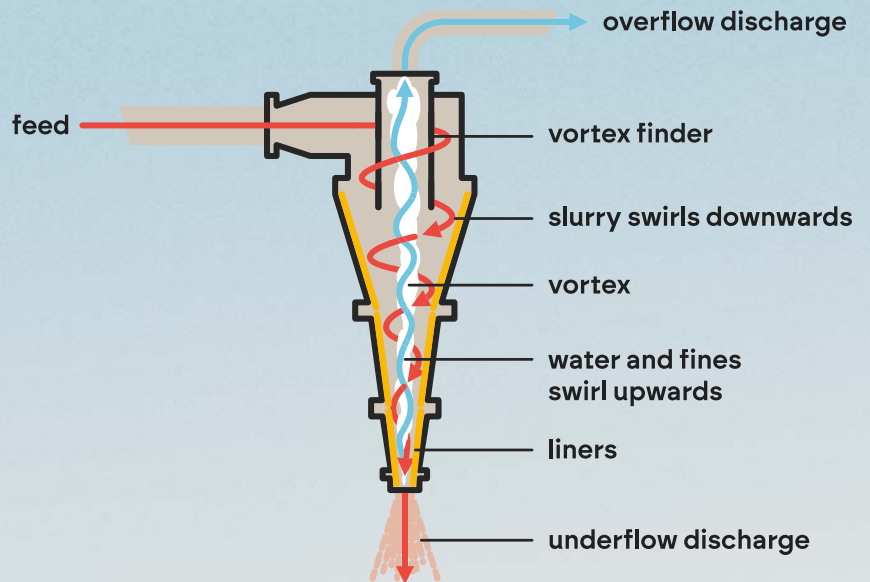
Is your cyclone doing the best job it can?

A hydrocyclone can keep running while its cut drifts, its underflow ropes or valuable material reports to the wrong stream. Because the separation happens inside a closed vessel, small changes in feed, pressure, wear or configuration can quietly affect recovery, throughput and downstream performance.

Technical Features

Diameter, cone angle, vortex finder, spigot, operating pressure and feed density all influence capacity, cut point and separation sharpness. Mineral Technologies matches these variables to the job the cyclone needs to perform. Only by matching the configuration to your orebody DNA a cyclone can really perform at its best.

- 75 – 900 mm nominal diameters
- Broad flow-capacity range
- Multiple cone-angle options
- Easily interchangeable spigots and vortex finders
- Vertical or inclined installation
- Rubber, polyurethane or ceramic liners
- Fibreglass or steel construction



1. Feed enters under pressure
2. Outer vortex moves down
3. Inner vortex moves up
4. Two product streams form



Where it pays to use mtCyclones

Cyclones often sit at high-leverage points in the flowsheet. Getting the duty and configuration right can reduce misplaced material, stabilise downstream feed and prevent a small classification problem from becoming a plant-wide constraint.

Grinding-circuit classification

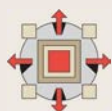
Return coarse material to the mill while allowing correctly sized particles to move forward.

Desliming and process protection

Remove ultrafines before processes such as spirals or flotation, or separate coarse material before it reaches equipment that performs better on a controlled feed.

Dewatering, backfill and tailings

Concentrate solids, recover water or produce a coarse, permeable underflow for backfill and tailings construction.



The right cut

We match cyclone geometry and operating conditions to the particle separation your process actually requires.



Stable performance

Reducing the risk of roping, excessive spraying and overloaded cyclones disrupting the wider circuit is where our well configured cyclones shine.



Lower operating risk

We use construction and liner materials around ore abrasiveness, placement, maintenance access and expected wear keeping mtCyclones in the game for much longer.



Spares, on hand and ready to go

mtCyclones are more than the equipment you install – they come with our commitment to keep you running. Every spare part is kept in stock and can be exchanged in minutes thanks to the product's design. Our experts also help you spot problems before they occur.

Benefits of Solution

mtCyclones Configurations

Mineral Technologies offers modular Cyclones across a wide range of capacities and applications.



Model	Diameter	Flow range per cyclone
CY75	75 mm	3 – 17 m ³ /h
CY100	100 mm	5 – 25 m ³ /h
CY125	125 mm	8 – 40 m ³ /h
CY180	180 mm	15 – 70 m ³ /h
CY250	250 mm	28 – 110 m ³ /h
CY350	350 mm	45 – 210 m ³ /h
CY500	500 mm	110 – 490 m ³ /h
CY600	600 mm	210 – 710 m ³ /h
CY750	750 mm	380 – 1,000 m ³ /h
CY900	900 mm	580 – 1,100 m ³ /h



**We start with
the mineral** not the equipment.

FACT: No two ore bodies behave the same. That's why one-size-fits-all solutions rarely deliver the best recovery.

Let us help you discover your ore body's Mineral DNA, and whether mtCyclones are the right technology to recover more of what matters.

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