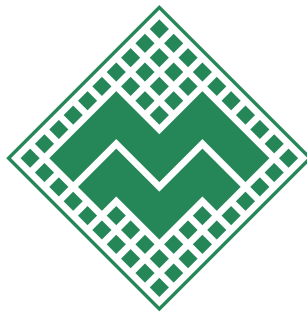




MULTOTEC

MAX Dense Medium Cyclones



Your Specialist in Process Equipment



The MAX Range of Cyclones

Multotec has developed the MAX range of cyclones, the ultimate in alumina tiled cyclone engineering design. Computational Fluid Dynamic Analysis, 3D computer-aided design and extensive field experience were combined to produce the MAX cyclone design.

These cyclones couple the highly efficient Multotec scrolled evolute inlet design with an engineered tile wear surface, thus ensuring MAXimum efficiency of separation and MAXimum wear life. The MAX range of cyclones embodies the considerable specialised technological expertise and experience of Multotec.

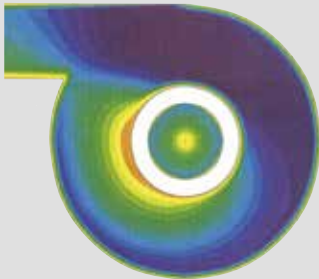
The Multotec Scrolled Evolute Inlet Design

Advantages:

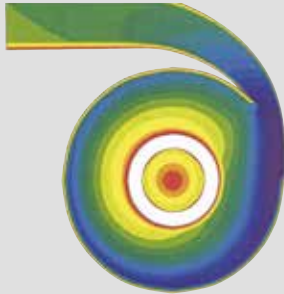
- MAXimum efficiency of separation
- Cost-effective
- Superiority of design confirmed by Computational Fluid Dynamic Analysis
- Field tested
- Higher capacities than other inlet configurations
- Minimised turbulence
- Reduction in wear rates – especially on the vortex finder
- Overall operating costs are reduced

Tangential Velocity Distributions

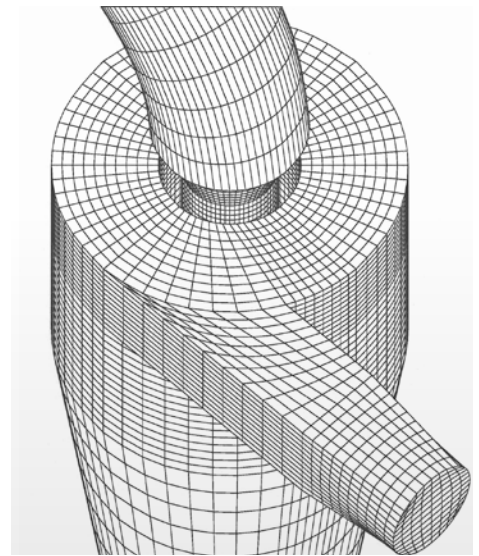
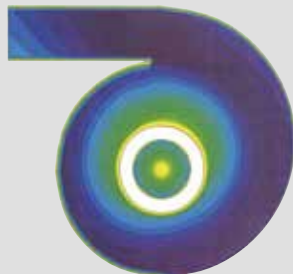
Tangential



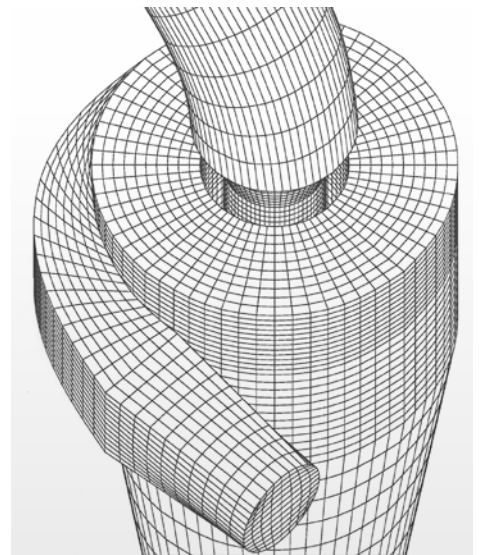
Involute



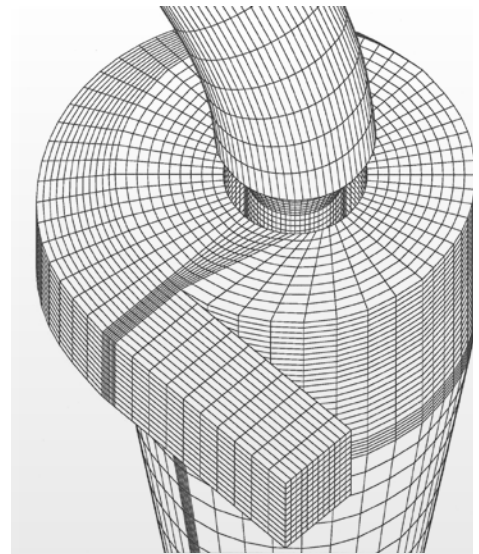
Scrolled Evolute



Tangential Design



Involute Design



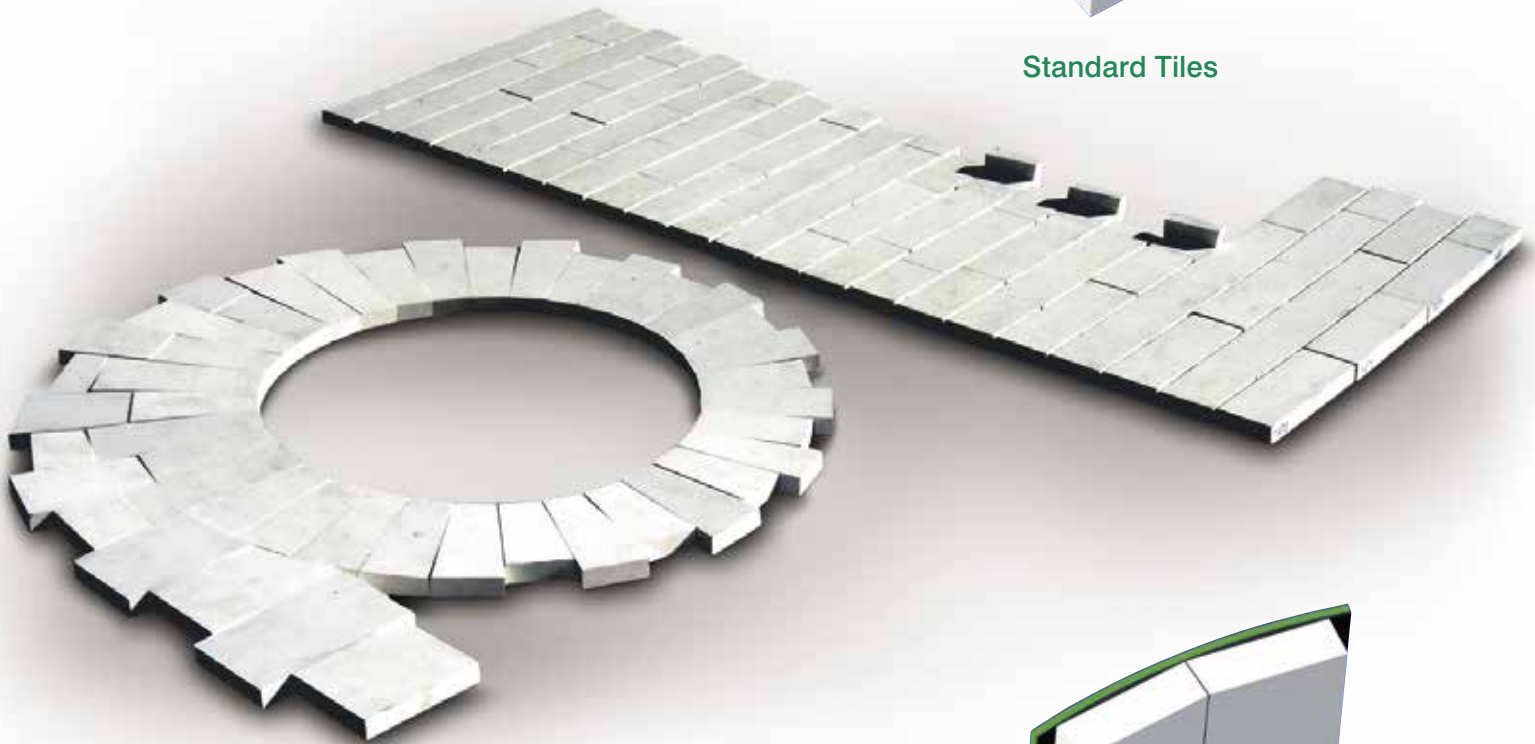
Scrolled Evolute Design

Engineered Tiles

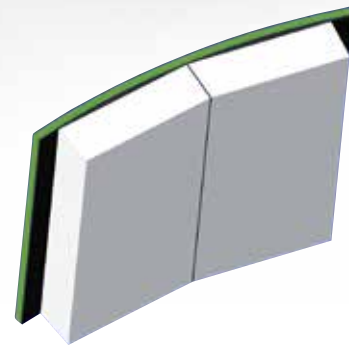
The use of standard pressed tiles, which are hand cut, results in gaps between the tiles. The epoxies used to bond the tiles wear more rapidly than the alumina tiles. As wear progresses, the tile surface becomes increasingly uneven, resulting in accelerated wear.



Standard Tiles



Each tile is specifically designed for its place in the complete tile kit, ensuring a very tight fit with a minimum of space at the joints. Tile widths are selected to provide a smooth internal surface. The end result is a long-lasting wear surface.



Engineered Tiles

Engineered tiles are pressed with chamfered sides and then cut precisely, whilst in the green state, to the required shape. This ensures that gaps between the tiles are minimised.



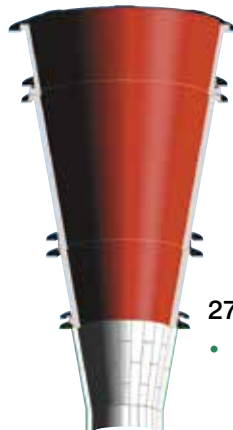
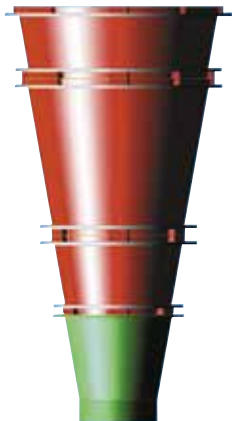
The final engineered solution

The final product: a scrolled evolute cyclone with a premium quality, precision engineered, alumina tile wear surface.

Design Options

Overflow Discharge

- Vortex extension or overflow elbow
- Vortex extensions are cheaper, easier to maintain and simplify inspection



27% Chrome Cast Iron Cones

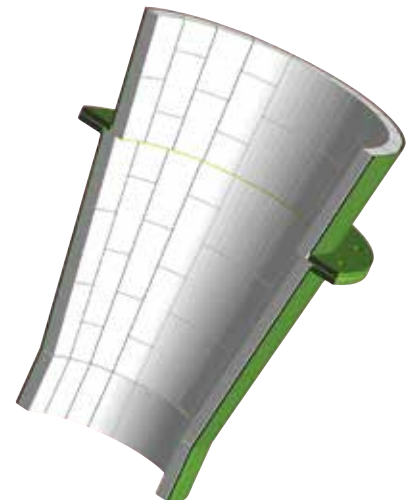
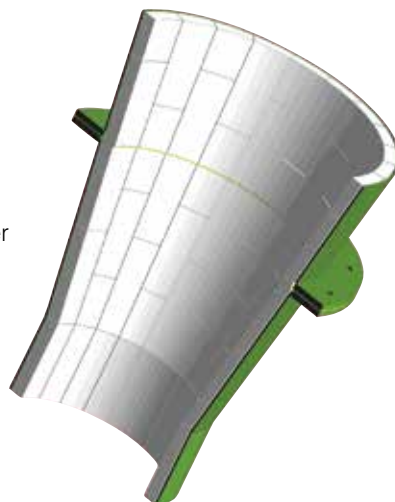
- Used for applications where large tramp metal may be fed into the cyclone

Extended Barrel Section

- Increases residence time and efficiency of separation
- Ideal for feed solids that contain high percentages of fine or near density material

Parallel Throat Spigots

- Help preserve spigot size for longer
- Cyclone cut density is, therefore, maintained more consistently



Upsize Spigots

- Worn spigots can be replaced with upsize spigots
- Larger diameter allows for it to be fitted to worn cones without creating an inward step

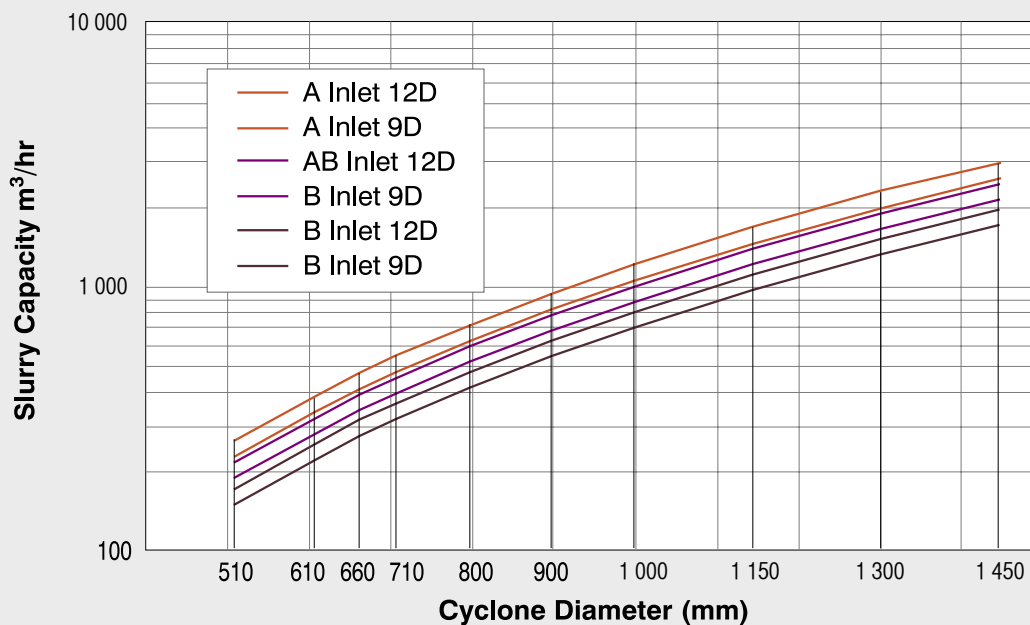


A MAX1000 fitted with vortex extension

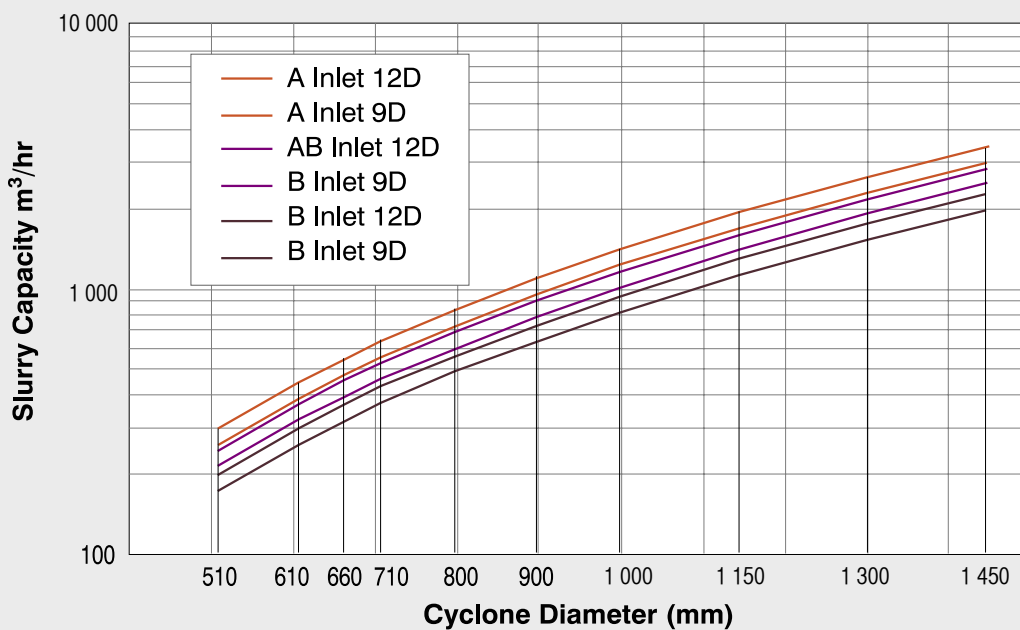


A MAX1450 awaiting shipping to an Australian coal operation

MAX Capacities - 'A' Vortex Finder



MAX Capacities - 'XA' Vortex Finder

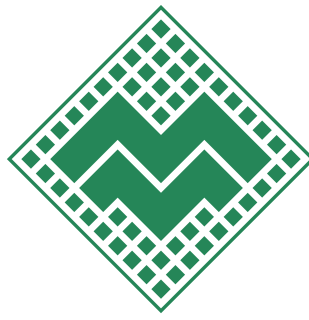


The MAX range of cyclones is available with the following internal fittings:

Inlet Nozzle - A, AB and B

Vortex Finder - XA and A

Spigot - Normal, High Capacity and Extra High Capacity



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Multotec products are subject to continuous development and Multotec reserves the right to make changes to the specifications and design of its products without prior notification.