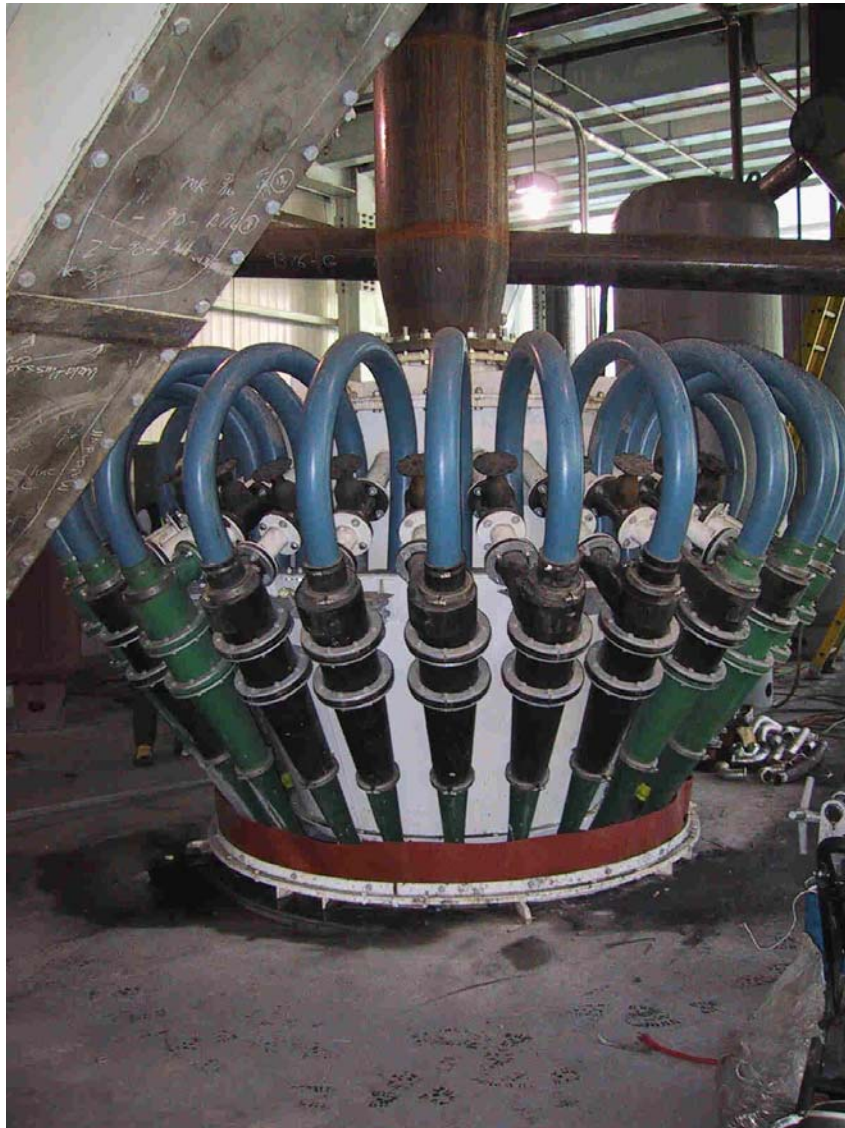
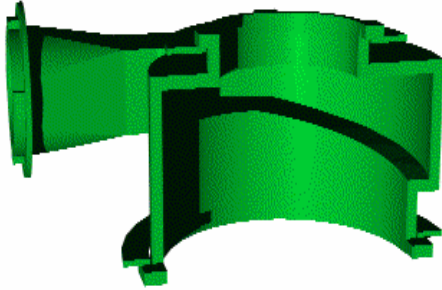


Multotec Cyclones

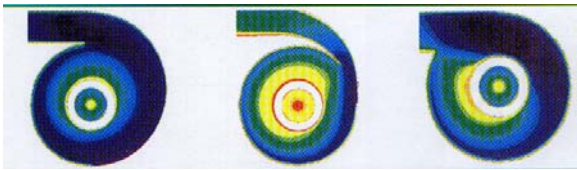


Multotec Cyclones—Dense Medium and Classifying

PrepTech offers Multotec high-alumnia ceramic lined *dense medium* (heavy media) cyclones and a variety of *classifying* cyclones:



- ceramic lined,
- rubber lined--used extensively in the sand and gravel industry
- polyurethane--most notably, the VV165 cyclone (6.5-in diameter) in use in many coal preparation plants for desliming at 325 mesh prior to flotation



A—Scrolled Evolute Velocity Profile.

The feature that sets the Multotec cyclone apart is the inlet head design. The Scrolled Evolute design gives a cyclone with a higher capacity compared to other common designs. This is a direct result of the reduction in turbulence at the cyclone inlet. Velocity profiles for these inlets confirm the finding that vortex finder wear is almost non-existent.



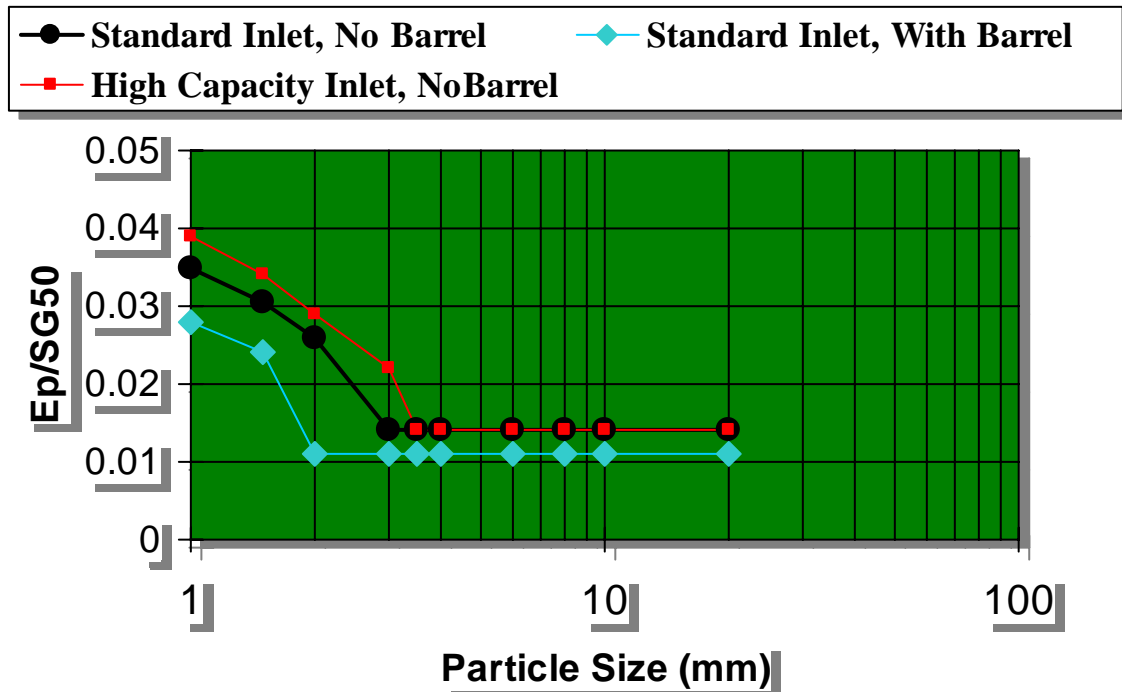
Dense Medium Cyclones

Dense medium cyclones are available in a wide range of sizes (up to 1,450 mm diameter!) and with various inlet and vortex finder configurations. Cyclones are selected for each application based on:

- feed tonnage
- topsize
- yield—critical in determining the proper apex size
- coal (or ore):medium ratio
- particle size distribution

A mild steel shell is lined with engineered, high-alumnia ceramic tile. A stainless steel shell is offered for high corrosion applications.

Multotec Cyclones—Dense Medium



Dense Medium Cyclone configurations are selected to match each application for performance, as well as capacity.

Examples of Dense Medium Cyclone Capacity at 9D Cyclone Head and 1.5 s.g. Coal					TPH Capacity @ 4:1 M:C		
Cyclone Model	Diameter (mm)	Diameter (in)	Inlet Type	Medium S.G.	1.4	1.5	1.6
					MA510-20-1	510	20.1
MA510-20-1	510	20.1	AB		62	66	69
MA510-20-1	510	20.1	B		50	52	55
MA660-20-1	660	26.0	A		133	141	148
MA660-20-1	660	26.0	AB		111	117	124
MA660-20-1	660	26.0	B		89	94	99
MA800-20-1	800	31.5	A		206	218	230
MA800-20-1	800	31.5	AB		172	182	192
MA800-20-1	800	31.5	B		138	146	153