

# PRODUCT APPLICATIONS

## CYCLONES

Bradken has had over 30 years experience in producing chromium carbide overlay products for the mining and processing sectors. Over that time, Bradken has distinguished itself as a market leader, providing quality wear resistant products.

The extreme abrasive environment that cyclones are subjected to, makes Duaplate® and Vidaplate® the ideal materials for this application. The hard, wear resistant chromium carbide overlay plate will dramatically reduce the wear in cyclones. Many paper & pulp, mineral sands, cement, nickel and other processing plants have proved the value of using cyclones manufactured from Duaplate® and Vidaplate®.

### The benefits of using Duaplate® and Vidaplate®:

- **Longer wear life:** Duaplate® and Vidaplate® have been proven to last 3-5 times longer than mild steel cyclones.
- **Reduced downtime:** Duaplate® and Vidaplate® require less maintenance. This leads to an increase in productivity.
- **Fine particle resistant:** Duaplate® D90 and Vidaplate® V34 were developed to provide superior protection against fine particle abrasion often encountered in cyclones.
- **Extreme resistance:** Duaplate® and Vidaplate® is resistant to chemical corrosion and can operate at high temperature.
- **A versatile solution:** Duaplate® and Vidaplate® cyclone can be manufactured as complete units or in sections to replace components affected by high wear rate.
- **Adaptability:** Duaplate® and Vidaplate® is a proven wear resistant choice that is available in a wide range of grades and thickness to suit a wide variety of operating conditions.

duaplate®

Vidaplate®



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A COMPLETED CYCLONE



A CYCLONE IN USE

# CYCLONES

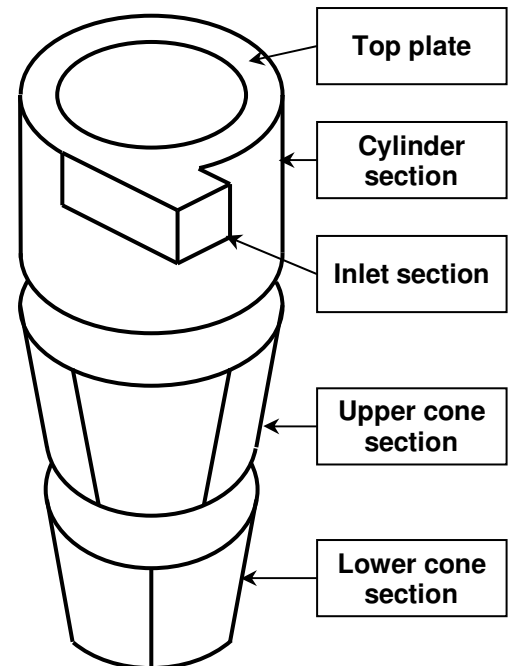
The key advantages when considering using Bradken Duaplate® and Vidaplate® is the wide range of grades and our technical experience in tailoring a solution to suit varied operating environments. There is a Duaplate® or Vidaplate® overlay to suit any wear regime, whether it is dictated by particle size, temperature or corrosive slurries and atmospheres. Duaplate® and Vidaplate® is typically produced with a mild steel backing, however it can be produced with a stainless steel (eg 316 or 253MA) upon request if the application requires it. Whatever the situation, the performance and enhanced life from using Duaplate® and Vidaplate® cyclones will not disappoint.



INSIDE A BRADKEN CYCLONE

## Bradken's Design:

Typically, Bradken produces Duaplate® and Vidaplate® cyclones as complete units. Alternatively, we can supply individual sections to replace those affected by high wear rates. When demanded by the application, we can also produce wear kits for the inlet area. The service life of each section is enhanced by altering the overlay grade, material thickness and fitment. The flexibility provided by Duaplate® and Vidaplate® wear solutions eliminates the complex service requirements associated with ceramic, rubber and cast aggregate linings.



THE SECTIONS OF A BRADKEN CYCLONE

For more information contact Bradken at:

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