

Engineering Your  
Competitive Edge

# IN WASTE WATER TREATMENT

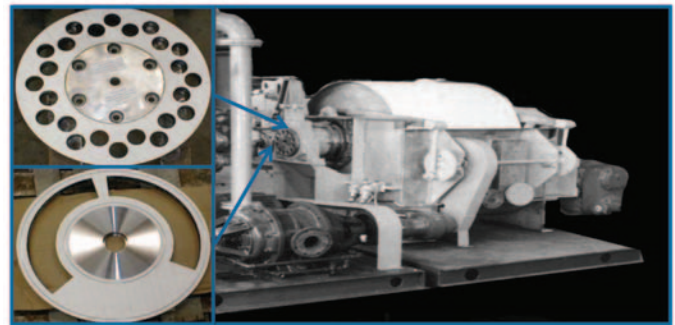


## Wear-Resistant Technologies

Kennametal® ceramic solutions meet the overall cost reduction demands in the wastewater treatment industry. Our engineered solutions extend the life of vacuum and wear plates in rotary vacuum drum filters. Durafrax™ 2000 alumina tiles applied to the steel surface with our Aero-Tech bonding process enhances the overall wear resistance of the Durafrax™ 2000 by maximizing the impact resistance and bond strength.

### Materials

- Durafrax™ 2000 alumina
- ZAC®, Corguard® fused cast AZS
- Cryston®, Cast Refrax™ nitride-bonded silicon carbide
- Norfrax RB® reaction-bonded silicon carbide
- Hexoloy® alpha sintered silicon carbide
- ROKIDE®/SNMI thermal ceramic spray
- Wearpak 600xs wear-resistant compounds



### Applications

- Chutes/hoppers
- Classifier cones
- Cyclone separator
- Elbows
- Fan housing & blades
- Lined piping
- Nozzles
- Wear panels
- Specialized material handling systems

	Initial Cost (US\$)	Estimated Lifetime (Year)	Cost Per Year (US\$)	Additional Costs to Inspect and Repair Over Lifetime	Total Savings Over Lifetime (US\$)
Current Material	\$1,100	.25 years	\$4,400	\$6,000 4 replacement/year at \$500	
Ceramic Material	\$3,200	3 years+	\$1,067	N/A	*\$16,000 over 3 years

\*Note: This figure does not take into account less efficient production of the RVDF and increased equipment demand in the same process. These are factors that ultimately cost money. Also, this customer has ordered our ceramic solution for all four of their RVDF machines.

Kennametal is setting the standard in advanced ceramics!

Let us prove it.



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