



Introducing Kennametal Conforma Clad[®] Conveyance Equipment

Shaft Sleeves

Kennametal Conforma Clad offers a wide range of OD clad shaft sleeves to fit an assortment of pump sizes and configurations. Kennametal Conforma Clad will work with you to develop a sleeve wear solution. In addition, our tungsten carbide wear protection can be applied to a variety of industrial components that are affected by abrasion, corrosion and thermal shock.

- Extends sleeve life three to five times longer resulting in fewer equipment shutdowns and component changes.
- Extremely resistant to abrasive, corrosive and erosive wear.
- Decreased wear means less leakage flow on shaft seal sleeves and less frequent packing adjustments.



Reactor Tubing

- Extends tube life four to five times longer
- Fully protects pendants, u-bends and complex shapes
- High coefficient of heat transfer and ability to withstand severe thermal shock
- Linear wear offers predictable life extrapolation
- Random 22 ft. lengths available

Proven Results

One major chemical company's reactor tubes were facing extreme abrasion and providing only a 12-18 month lifespan. They decided to install Kennametal Conforma Clad® prototypes and at the end of a six month trial phase, the reactor tubes had only a 10% reduction in cladding thickness, indicating that the new tubing would last a minimum of five years.



Fan Liners

- Extends fan life three to six times longer
- Reduced weight
- Resists chipping and spalling
- Direct clad or liners



Pump Components

- Extends pump component life up to five times longer
- Ability to clad components up to 64" in diameter and up to 6000 lbs.
- Casings, suction liners, impellers
- Capable of cladding a variety of substrates: carbon steels, stainless steels, white iron...
- As clad surface finish of 125-250 RMS

Piping & Components

- Eliminate/reduce blowouts
- Prevent lost product
- Reduce maintenance costs and downtime
- Avoid cross-contamination
- Lengthen run-time between scheduled outages 10 to 15 times longer than unprotected components
- Reduce component weight
- Replaceable wear plates for point of impact in cyclones



Cyclones



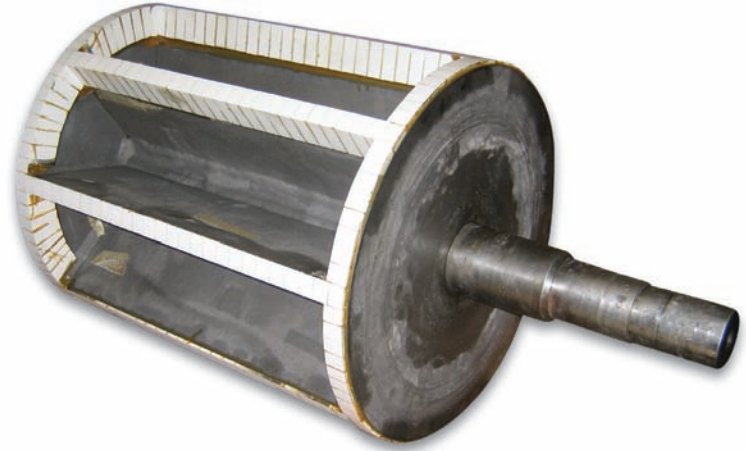
Elbows



Diversers

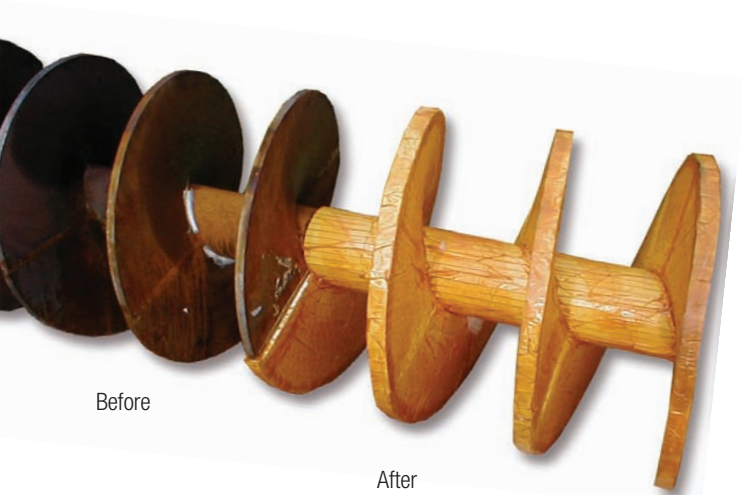
Rotary Airlocks

- Retrofit and refurbishment services
- Rotary airlocks protected with our ceramic solutions last five to ten times longer than standard airlocks
- Retrofit or rebuild any size airlock
- Machining and grinding capabilities allow modification of existing parts to accept any specified coating or lining, which can then be ground to meet exact tolerances.



Screw Conveyors

- Extends the life of your screw conveyor up to six times longer
- Refurbishment of screws up to 35+ ft
- Reduce downtime and maintenance costs



Proven Results

One company's screw conveyor is 35ft long with a shaft diameter of 18 inches and was originally fabricated from AR plating and hard-faced with a weld overlay on the flights, shaft and digger teeth. This hard-facing was lasting only about six to nine months before reapplication was required. The reapplication of the hard-facing weld overlay was an expensive process in itself, but the real concern for the plant was the downtime associated with maintenance on the conveyor. With the new bonded ceramic and tungsten carbide lined screw, the plant anticipates it will not require maintenance on the screw conveyor for at least another three to five years.