

Protecting Industry Worldwide

FACT FILE  
**MINING**





## Kingfisher

### Performance matters

Working with plant engineers, we drill down on the issues such as continual plant breakdown and repair that make their working life more difficult and frustrating. By identifying with all operational process criteria, we can offer a system or equipment that performs to your expectation and support our offering with a **performance related warranty** based on our knowledge of best available technology with regard to improving the performance of your valuable assets.

Working with like minded individuals with regard to planning, design, manufacture, protection and installation, our service package offers industry a one stop shop with regard to ensuring project compliance. Knowing that your supplier of choice is accredited to the same international ISO standards as your business with regard to quality, environmental responsibility and health and safety within the work place, we believe we will not only meet your expectations but exceed them!



## Kingfisher

### Understanding the pain

Having been active in the mining industry for over 30 years we have seen many changes to what was primarily local mining activities focusing on the domestic market, to today where large scale extraction operations supply a worldwide customer base. With the barriers to world trade being broken down it has given both small local operators and large multinational mining conglomerates the opportunity to invest in the new developments that will **generate a healthy ROI**. Likewise, investment in technologies within the processing operation has lead to enhancements of mineral extraction, crushing, screening, washing and separation resulting in a reduction of cost that will give greater returns.

Kingfisher's understanding of the process hasn't stood still either as our knowledge has grown year on year. This has lead to ever increasing exposure to all areas of plant that extract, crush, mill, screen, separate, clean and convey coal and ore in both deep and surface mining operations. From the initial point of extraction using mobile or fixed engaging equipment through to the stock out yards, we have added significant value to the performance of plant and equipment that is used to convey, process and store coal and ore. Through the introduction of advanced wear protection technologies, we have extended the service longevity of equipment such as cutting heads, extraction buckets, screen decks, milling plant, hydro-cyclones, pump casings and impellers to material transfer chutes, slurry and tailings pipework.

With ever increasing performance targets, the importance of reliable and efficient plant that can withstand the cyclical effects of processing thousands, if not millions of tons of coal or ore per annum is of paramount importance. Utilising our range of ceramic, metallic or polymer surface protection systems ensures that the equipment is up to the job of operating at a superior efficiency level eliminating the risk of unexpected failure or plant shutdown to potential environmental or safety risks. **Investing in best available technology**, you can relax in the knowledge that your equipment wont let you down!





## Typical applications of plant protection systems:

### 1 Underground Mining Operation:

Face cutting machines  
Drag link conveyors  
ROM Transfer chutes  
Staple spiral bunkers  
Weigh hoppers  
Vibrating feeders  
Skip cars  
Backfill pipes

### 2 Surface Mining Operation:

Extraction machine buckets  
Dump truck bodies  
Front end shovels  
Storage hoppers  
Grizzly screens  
Vibrating feeders

### 3 Coal Processing Plant:

Grizzly feeders  
Banana screens  
Screen underpan  
ROM crusher  
Feed chutes & launders  
Washing drum  
Primary screen & underpan  
Cyclone feed tank  
Centrifugal pump & impellor  
Delivery & suction pipework  
DMS cyclone  
Overflow headbox  
Clean & discard screen decks  
Dewatering centrifuge  
Transfer chutes  
Storage hoppers & silos  
Filter press rollers  
Clarification tank  
Screw conveyors  
Tailings pipework

### 4 Ore Processing Plant:

Grizzly screen  
Primary crusher  
Vibratory feeder  
Storage hopper  
Transfer & feed chutes  
SAG & AG mills  
Tromel screen & underpan  
Vibrating screen & underpan  
Tanks & sumps  
Centrifugal pump & impellor  
Delivery & suction pipework  
Distributor assembly  
Hydrocyclones  
Product & overflow launders  
Froth flotation cells  
Filter press rollers  
Decanter centrifuge  
Screw conveyors  
Clarification tank  
Tailings pipework

## Offering the gain

As demonstrated above, our activities within the industry are prevalent throughout the operating plant, therefore we know and understand the importance of ensuring that all aspects of the operation are interlinked to the success of the processed mineral. As the operating plant is only as good as its weakest link, one break in that chain can lead to an unexpected stoppage that can significantly affect the planned production run. These unexpected failures are caused by many factors that sometimes cannot be controlled. However one such factor that can be managed is eliminating plant failure due to plant degradation.

Degradation, or wear as it is commonly known, costs the industry millions of pounds, euros and dollars every year and yet some companies don't have a strategic plan to manage the consequence. Too often, correct specification with regard to levels and types of protection is considered a non-essential benefit when capital expenditure (capex) is being planned as the focus is always on the initial cost v benefit ratio. Therefore, the consequence often falls on the plant engineering and maintenance team who have the responsibility of preserving the investment costs throughout the life cycle of the plant. By introducing this technology at the onset of

capex, **the benefits of life cycle costs will reduce significantly** over the operating period of the plant. Alternatively, equipment can be protected in position or even retro fitted to incorporate best practice at any stage of the plants lifetime.

Having the benefit of design, manufacturing and installation capabilities within the business, Kingfisher have worked with many OEM's and end users in enhancing plant and equipment through its turnkey solution approach and by incorporating the latest technologies of wear protection, have meet the challenge of keeping cost v benefit within budget.

### In many instances, Kingfisher Industrial offers the full Turnkey Package consisting of:

- Design
- Manufacture
- Protective Lining (both in-works and on-site)
- Erection
- Commissioning



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