

Protecting Industry Worldwide

FACT FILE  
**POWER GENERATION**





## Kingfisher

### Understanding the Process

In following the fuel source from the reception point to the boiler, Kingfisher's activities in protecting plant and equipment from wear related problems are vast and varied. Likewise, upon the ash and dust being discharged from the boiler, we once again pick up its trail and are involved in a host of areas where abrasion and erosion are common place. Utilising our range of wear resistant systems, we counter the effects that materials such as coal, biomass, ash and limestone have on plant and equipment used to convey, store or process these materials.

With ever increasing targets given for plant availability and efficiency of operations, ensuring that equipment is protected against the cyclical effects of conveyance of materials is of utmost importance. Kingfisher's knowledge of the power industry has been built up over 30 years of interaction and participation of developments that have saved the industry significant costs by incorporating our range of system enhancements that alleviate the need for replacement or repair. **By introducing best practice at the outset, Kingfisher offers a return on investment** that can eliminate the additional costs of further maintenance and capital expenditure associated with equipment that hasn't been protected for service longevity.



## Kingfisher

### From start to finish

By working with experienced professional individuals within Kingfisher, you can depend on reliable, efficient service that understands the industry's needs. People with an understanding of the consequence of system failure and the knock on effect in terms of non performance of plant and equipment. Utilising these skills and knowledge we deliver improvements that enhance the service life and operational availability of equipment that is positioned in all areas of the power station where solids, gases and liquids are handled in abundance causing detrimental effect on the asset value of the plant.

Having achieved success's in extended the service life of the equipment associated with the cooling water intake system, the fuel and bi products materials handling system, the combustion system and gas cleaning plant, Kingfisher offer proven solutions that over a relatively short period of time stand out as **a well planned and executed investment for the future.**

Whilst undertaking our traditional activities on the both the coal & ash and the combustion plant, we can relate to the problems engineers face, giving us the opportunity to identify the possible solutions to the many issues that are prevalent within the industry today. Solutions such

as achieving mass flow in coal transfer chutes and mill feed bunkers ensuring correct flow rates feeding the pulverising mills, the introduction of improved fuel milling capacity and finesse along with the correct distribution of both fuel to air ratios within single or twin outlet classifiers to name but a few.

We aim to **continue improving what we offer the industry** and feel confident that our portfolio of services will continue to grow and assist power utilities in meeting its key performance targets.







### ① Coal Plant:

Track Reception Hopper  
Rotary Feeders  
Ship un-loader system  
Vibratory feeders  
Conveyor transfer chutes  
Screen Wear Plates  
Screen frame Assemblies  
Screen Underpans  
Stacker Reclaimer buckets  
Coal Loading Shovels  
Coal Transport Vehicle/Wagons  
Reclaim hoppers  
Shuttle Conveyor chutes  
Coal storage bunkers

### ② Milling & Combustion Plant:

Mill feed bunkers  
Raw coal feed chutes  
Coal feeders  
PF Mills  
PF Mill isolation valves  
PF Classifiers  
PF Fan casings  
PF Pipework  
PF Splitters  
(Rifle boxes, bifurcators & trifurcators)  
PF Non-return valves  
PF Burner assemblies

### ③ Ash & Dust Plant:

Ash Sluiceways  
Ash crusher hoppers  
Ash crushers  
Submerged scraper conveyors  
FBA (furnace bottom ash) pipework, venturis & hyjectors  
PFA (pulverised fuel ash) pipework  
PFA Storage Vessels  
Ash mixers & blending equipment  
Ash Disposal Wagons

### ④ Flue Gas Desulphurisation Plant:

Track reception hoppers  
Conveyor transfer chutes  
Vibratory feeders  
Lime Blending hoppers  
Rotary Milling Plant  
Lime Slurry Pipes  
Injection Assemblies & Nozzles  
Gypsum Collection Sump  
Dewatering Hydrocyclones  
Gypsum Storage Hoppers  
Transfer & Loading Chutes

**In many instances, Kingfisher Industrial offers the full Turnkey package consisting of:**

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



## Ki Kingfisher

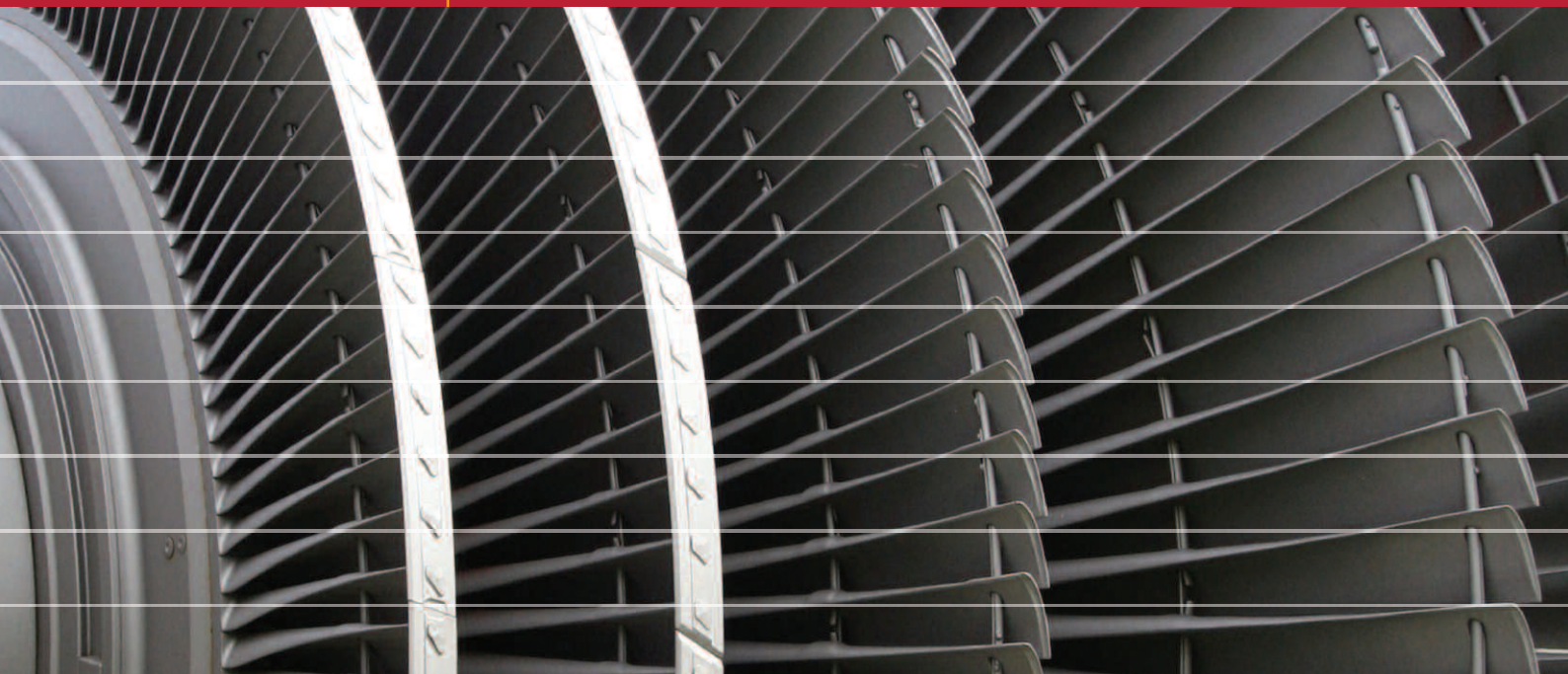
### Proven solutions

As shown above, our ability to identify with the process and the potential problems associated with handling and storing materials has lead to us working in every area of the plant. Our involvement starts upon receipt of the fuel at the dockside, railhead or the transport unloading station. Knowing what systems can cater for the large volumes of product in timescales that **reduce the risk of demurrage costs and waiting time**, can save unnecessary expenditure

which are soon incurred if the discharge rates are not achieved. By offering a turnkey package consisting of design, manufacture, protection and installation, we reduce the risk of non conformance of a protracted supply chain where the control of quality, cost and delivery can sometimes be compromised.

With the need for reliable efficient equipment, we have lead the way in introducing new materials to combat the abrasive effects of both coal and ash, and are **continually increasing the warranty periods offered** based on the length of success our systems have been operating in within the industry.





Kingfisher Industrial  
Whitehouse Road  
Kidderminster  
Worcestershire  
DY10 1HT

T +44(0) 1562 543108  
E [enquiries@kingfisher-industrial.com](mailto:enquiries@kingfisher-industrial.com)  
[www.kingfisher-industrial.com](http://www.kingfisher-industrial.com)

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