

Protecting Industry Worldwide

FACT FILE
CEMENT PRODUCTION





Kingfisher

Proven solutions

By working with experienced professional individuals within Kingfisher, you can depend on reliable, efficient service that understands your industry's needs. People with an understanding of the consequence of system failure and the knock-on effect 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 cement works where abrasive slurries, bulk solids and waste gases are handled, causing detrimental effect to the asset value of the plant.

Having achieved success's in extended the service life of the equipment associated with raw meal preparation, conveyance and combustion of coal and other diverse fuels sources along

with the cooling, grinding and separation of clinker and cement through to protecting gas cleaning systems, Kingfisher offer proven solutions that over a relatively short period of time stand out as a **well planned and executed investment for the future.**

Our ability to reduce the burden of continual maintenance by introducing best practice at both the design and retrofit stage enables cement producers to focus on production.

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



Kingfisher

Understanding the process

With continual update of legislation for safety, environmental and quality standards, cement producers must ensure that they achieve and where possible, exceed compliance. Likewise, with the industry striving for continual improvements with ever increasing targets set for plant availability and efficiency of operations, ensuring that equipment is protected against the cyclical effects of conveyance and processing of materials is of utmost importance.

Having been active within the cement industry for over thirty years, **Kingfisher has, and continues to deliver benefits.** During this time our understanding of the process has lead to us introducing solutions to the many problems experienced by engineers and operators alike. From the excavation of minerals from the quarry to the despatch of either bulk or bagged cement at the despatch point, our involvement within the process has followed the trail of raw, semi and finished product through the plant.

Value added benefits

Our ability to identify with the process and the potential problems associated with handling and processing materials has lead to us working in every area of the plant. Knowing what systems can cater for the various operating conditions is key in being able to offer solutions that will cater for all eventualities that occur during the manufacturing process. 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.





① Quarry:

Front end loader buckets
Screen underpans
Conveyor transfer chutes
Material storage bunkers

② Raw Meal Preparation:

Mill feed bunkers
Raw meal feed chutes
Raw Mill
Screw conveyors
Classifiers
Cyclones
Fan castings
Pipework
Drag link conveyors/elevators

③ Kiln Firing System:

Coal chutes
Mill feed bunkers
Vibratory feeders
Vibratory Conveying Systems
Fan casings
PF Pipework
Pro-fuel pipework
Firing nozzles

④ Kiln:

Conveying pipework
Pre heater cyclones
Tertiary air duct
Tertiary air damper
Waste gas fans

⑤ Clinker Handling:

Clinker crusher
En-masse conveyors
Clinker transfer chutes
Gas cleaning system
De-dust cyclones
Storage hoppers
Grinding mills
Additive hoppers
Chain/bucket elevators
Separator

⑥ Cement Handling:

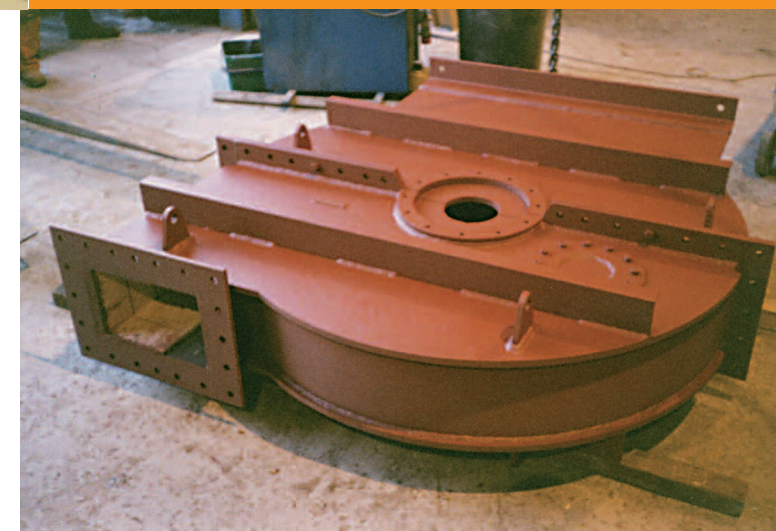
Cement Storage hoppers
Pneumatic Conveying System
Cement Transport pipework
Cement loading chutes
Screw conveyors

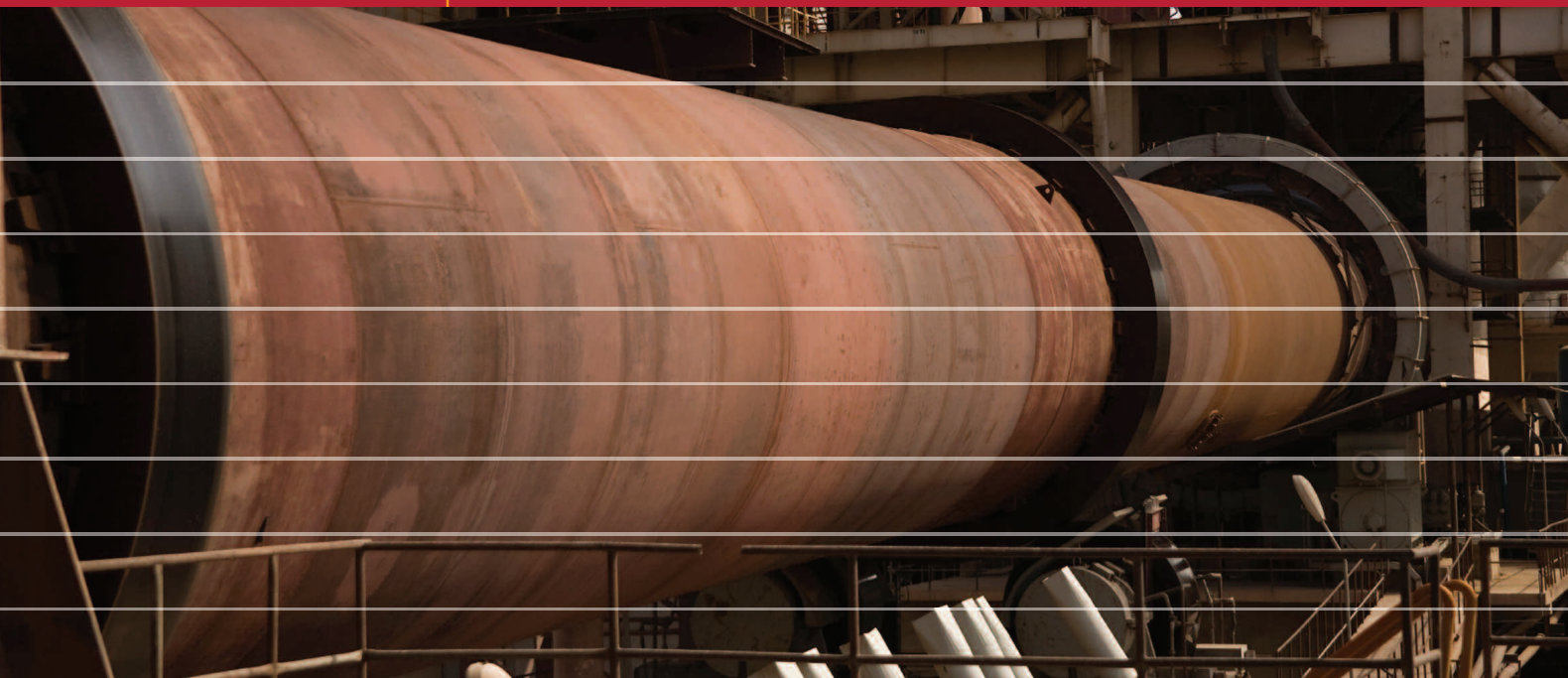


With the need for reliable efficient equipment, we have achieved many successes in introducing systems that have proven effective in combating the abrasive effects of raw minerals and fuels such as clinker, cement, pulverised fuel ash, granulated slag, coal and even recently introduced, secondary fuels which in some instances, has lead us to increase the warranty periods offered based on the length of success our systems have been operating in within the industry.

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

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





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