

Protecting Industry Worldwide

FACT FILE
WOOD PROCESSING



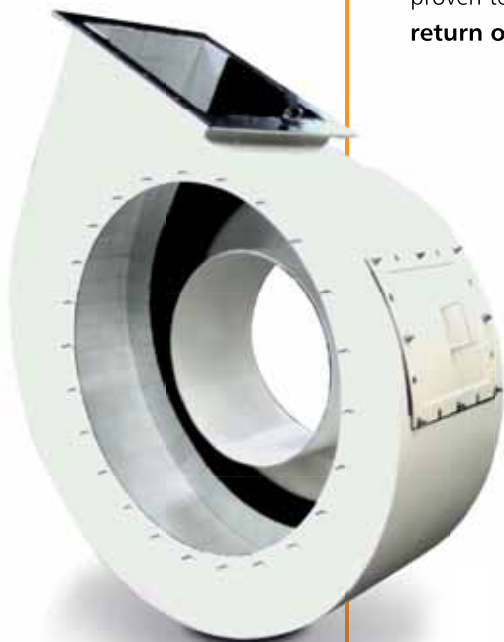


Kingfisher

Meeting the Challenge

As with any industry there are continual changes and challenges. One significant challenge faced by the wood industry today is the consequence of having to utilise a significant percentage of recycled material within its process. What started out as having commercial benefits in terms of the reduced commodity price versus cost of virgin lumber, the honeymoon period is well and truly over as the demand for virgin lumber is continually increasing due to the requirements from power generators in the developed markets. The thirst for this renewable carbon neutral resource has lead the wood industry to source more and more recycled material in order to minimise its operating costs.

This shift in policy has had a major effect on the asset value of the processing plant as it has become apparent that the contamination within the recycled wood source is tearing away at the operating equipment and business profits. By introducing sound proven technology, you can offset these consequences leading to a **significant return on investment** with the knowledge that your operation is future proof!



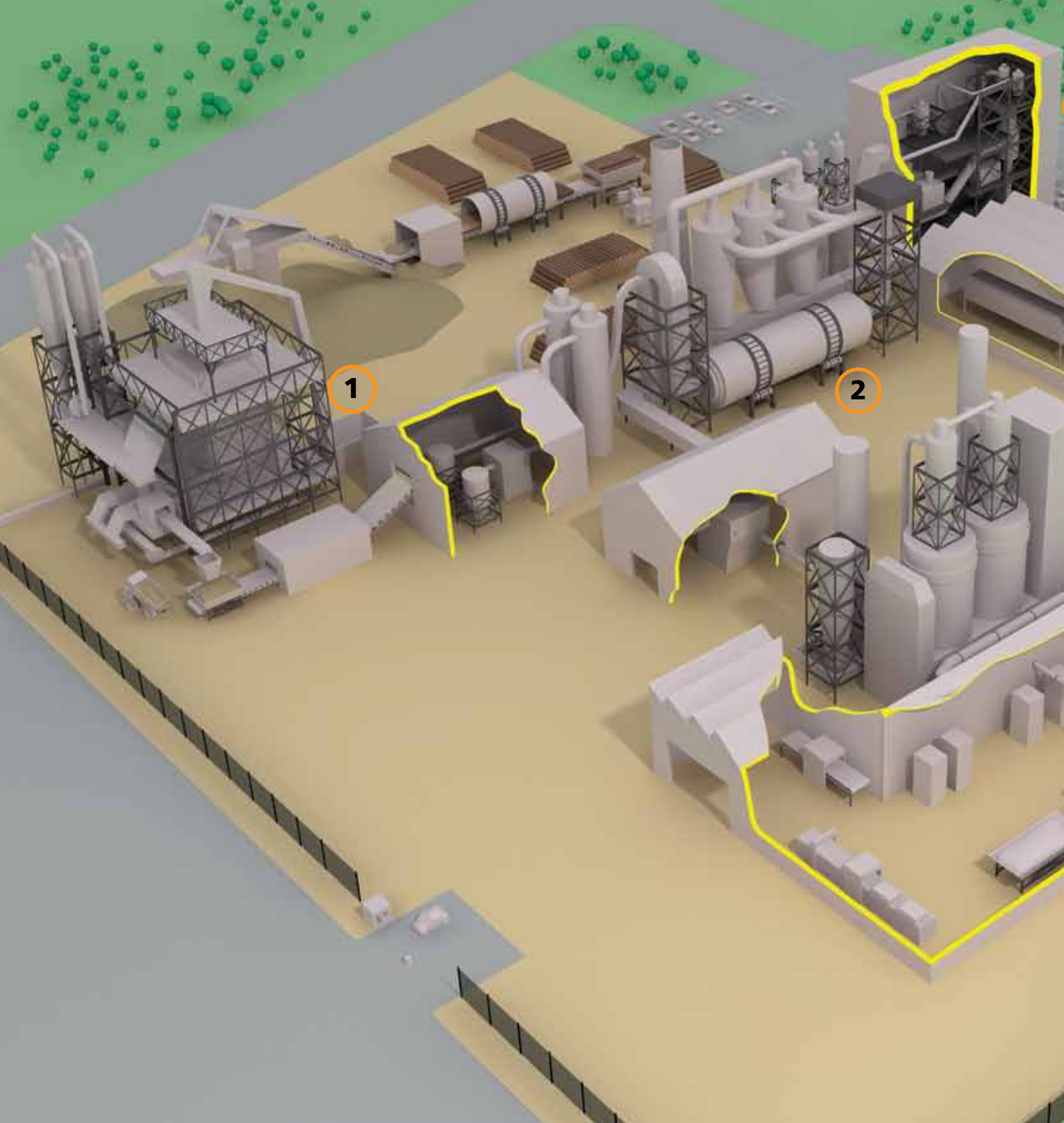


Shared Knowledge

Having been active in the wood processing industry for many years, Kingfisher's understanding of the process has grown year on year. This has led to an ever increasing exposure to all areas of plant that prepare, dry and process both virgin lumber and recycled woodchip. From the initial receipt of wood at the de-barking drum through to the sanding station, we have added significant value to the performance of the plant and equipment that are used to handle, store or convey wood based product. Through the introduction of various wear protection technologies, we have extended the service longevity of equipment such as drying fans, cyclones, blenders and material conveying pipework to name but a few applications.

With ever increasing performance targets, the importance of reliable and efficient plant that can withstand the cyclical effects of processing thousands of tons of wood based products 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 an efficiency level eliminating the risk of unexpected failure resulting in plant shutdown or potential environmental/safety risks. By **investing in best available technology**, you can relax in the knowledge that your equipment won't let you down!

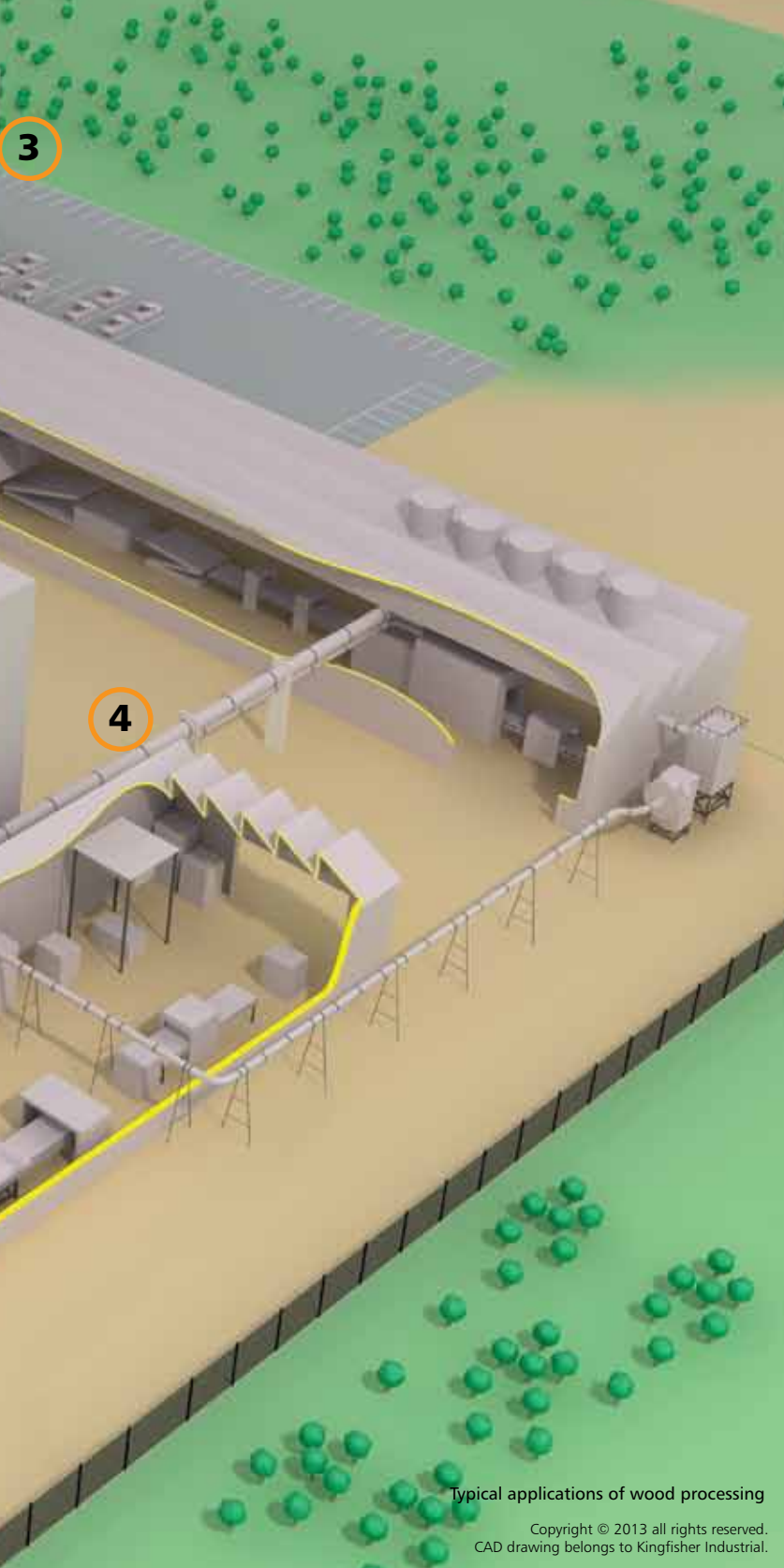




Offering More

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 process are interlinked to the success of the finished product. One weak link within the chip preparation, drying, blending or layup plant 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 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 team who have the responsibility of preserving the investment costs throughout the life cycle of the plant. By introducing this technology



Typical applications of plant protection systems:

1

Chip preparation:

De-barker
Vibrating feeder
Screen
Chipper
Cyclone
Airsifter
Rotary valve
Hammer mill
Conveyor & Elevator
Extraction ducting
Storage silos
Screw conveyor

2

Drying plant:

Dust feed line
Rotary valve
Dust burner
Combustion chamber
Flash drier
Drying drum
Lifters
Main extraction fan
Drying duct
Separation cyclones
Conveyor & Elevators
Screen conveyor
Vibratory screens
Fan impellers

3

Dry goods & blending plant:

Storage silo
Vibrating screens
Dust extraction
Air separation systems
- Fan
- Cyclone
- Ducting
- Impellers

Conveyor
Screens
Blending machine

4

Sanding & dust extraction system:

Sanding extraction
- Fan
- Impellers
- Ducting

Pipework
Rotary valve
Screw conveyor
Filter housing
Dust cyclone

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

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

at the onset of capex, the benefits of **life cycle costs will be significantly enhanced over the operating period of the plant.**

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



 **Kingfisher**

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