

A.W. Jenkinson Forest Products



**A.W. Jenkinson**  
**FOREST PRODUCTS**

LEADING THE FIELD IN WOOD CO-PRODUCTS



Clifton Moor, Clifton, Penrith, Cumbria CA10 2EY.  
Tel: 01931 712 644 Email: info@awjenkinson.co.uk

[www.awjenkinson.co.uk](http://www.awjenkinson.co.uk)



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## A.W. Jenkinson Raw Materials

### Softwood Chip

Drawn from similar sources to woodfibre, chipped wood is an important raw material for panelboard and paper manufacture. A.W. Jenkinson Forest Products receives small roundwood that is unsuitable for sawmilling direct from forestry sources. This low grade material is chipped and screened to produce a base product which is transported to panelboard customers, paper manufacturers and biofuel applications across the UK.



## A.W. Jenkinson Sawn Products

### Sawn Timber, Fencing and Sheds

A.W. Jenkinson Group's interests encompass two sawmilling operations. Working in softwood, Berite is a miller of sawn timber. Forest Garden is the UK's leading manufacturer of domestic fencing, arbours, sheds and planters, marketed by all the UK's top DIY retailers and garden centres. The co-products, which account for around 50% of the timber arriving for milling, are put to full use elsewhere in the business. Bark is used for mulches and composts, sawdust, fibre and offcuts go to panelboard, amenity and bedding applications.



## A.W. Jenkinson Recycling

### Pallet Recovery

A.W. Jenkinson Group companies repair and remarket life-expired freight pallets. Incoming pallets are sorted, new boards or supports are then fitted and the renewed items are fed back into the logistics stream, where pallets are always in high demand.

The renewal process plays an important role in reducing the amount of new timber given over to pallet production each year. Irreparably damaged pallets are broken down and cannibalised; with unsuitable timber going to chip, fibre or sawdust which is then remarketed.



### Recycled Woodfibre

Recycled fibre known as RCF is an increasingly important product for the Jenkinson organisation. Most raw material for recycled fibre comes from municipal recycling sites and the building industry. High grade RCF is used in board manufacture, the remaining lower grade material is used in low-carbon biomass energy generation, often also being blended with low grade 'green' material from forestry and arboriculture sources.



## A.W. Jenkinson Renewable Energy Products

Biomass fuel is made up of natural wood and similar material collected from municipal recycling sites, reclamation and industrial, commercial and construction sources. This can be blended with chipped low grade virgin wood to produce material of an ideal moisture content.

Essentially biomass energy generation is a win-win solution, because it makes use of waste material and renewable sources to generate heat and power, releasing no new additional carbon into the atmosphere during its conversion to electricity.





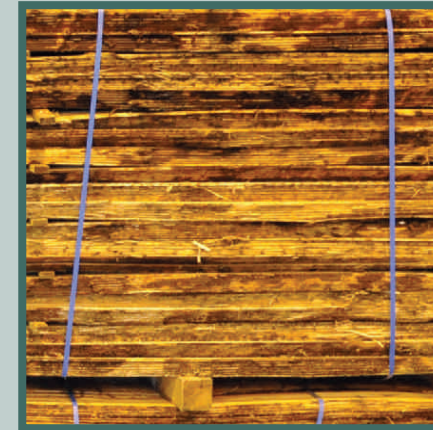


## INTRODUCTION

A.W. Jenkinson Forest Products was formed in the mid-1960s when founder, Allan Jenkinson, took the initiative to collect unwanted sawdust and wood shavings from the sawmills around Cumbria and the Borders using a single tractor and trailer. He then transported the timber co-product to the area's farms where sawdust was, and still is, in great demand as livestock and pet bedding.

This innovative original approach with its positive environmental drive, has characterised the work of Allan and his team in the intervening years and has remained an important part of the business ever since. Demand outstripped the locally available supply of sawdust needed to supply A.W. Jenkinson Forest Product's growing customer base. This led to partnerships being formed further afield, rapidly growing the business which now supplies customers across the UK and northern Europe. To better serve the targeted needs of its extensive third party customer base, as well as the ongoing and expanding transport requirements of the wider A.W. Jenkinson Group, the logistics operation was incorporated in spring 2014 to create A.W. Jenkinson Transport Limited.

Today A.W. Jenkinson Forest Products and its associated businesses handle over 3 million tonnes of roundwood, chips, shavings, sawdust, bark, green waste and other timber co-products each year, collected from forestry sites, sawmills and other wood processing industries throughout the UK. A.W. Jenkinson's services link forestry, sawmilling, wood processing, building and demolition sectors with the demands of pulp, paper and panel manufacture, energy generation, agriculture, horticulture and amenity markets in an environmentally responsible cycle that makes maximum use of one of the world's dwindling resources.



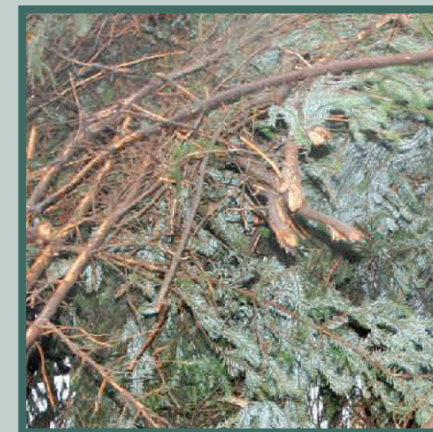
Fencing Products



Sawn Timber

## THE WHOLE TREE

Hardwood or softwood, any species, varying qualities; the A.W. Jenkinson Group makes use of every part of the tree. Green material can go to compost; roundwood to woodchip and shavings; stump material, branches and twigs to biomass; slabwood, offcuts and trimmings to panelboard; and bark to horticulture and amenity uses.



Branches, topwood and stumps recovered for biomass





# A.W. Jenkinson Forest Products and the Wood Products Life Cycle...

Hardwood or softwood, any species, all grades; A.W. Jenkinson Forest Products makes use of every part of the tree and is intimately involved in the whole Wood Life Cycle from seedlings to wood products; from skip to recycled board products and low-carbon energy. A.W. Jenkinson is at the forefront of the 'green economy' ensuring efficient use of our natural resources and is constantly driving to reduce waste and increase efficiency throughout the wood supply chain.

Primary conversion, added value and specialised logistics make A.W. Jenkinson Forest Products a leading player in both the rural and urban landscape - responding effectively and efficiently to the growing need for a responsible, sustainable and profitable green economy.

## Forestry Transport

A.W. Jenkinson Forest Products works in partnership with traditional timber harvesters as well as operating its own chip harvesting and modern efficient timber transport fleet. Roundwood moves from forest to factory and sawmill providing the raw material feedstocks needed to maintain the production of chipboard, fibreboard, paper and card, sawn wood, garden products and renewable energy. Effective use of the specially adapted 'logger' fleet ensures that damage to forest roads is minimised, public road miles are reduced and timber moves safely and sympathetically through rural communities. A.W. Jenkinson Forest Products forestry transport now includes low-loaders for the safe and efficient movement of harvesting machinery between sites.

## Timber Harvesting

Plantation Forests and traditional Estate Woodlands are a long term investment which, when managed on a sustained yield basis, can provide an on-going supply of timber and wood fibre that we all require in our daily lives. Harvested trees produce woodfibre and timber; a natural renewable resource upon which we all depend: from newspapers and cereal boxes to furniture and construction, and more recently as a growing source of low carbon renewable electricity generation. UK Forest operations provide valuable rural employment, support downstream wood processing activities and reduce the environmental impact of shipping wood products from across the globe.

## On-Site Chipping

Whether in a remote Scottish forest plantation, or in an urban parkland location, A.W. Jenkinson Forest Products is fully equipped to provide on-site chipping using its own in-house chipper trucks feeding direct to bulk transport or creating stockpiled reserves for subsequent collection. Much of this fibre resource was previously unrecovered, or has ended up buried in landfill sites. A.W. Jenkinson Forest Products's mobile operations ensures maximum recovery of the woodfibre availability and concentrates the forest products for greater transport efficiencies.

## General Transport

Effective use of the A.W. Jenkinson Forest Products general haulage fleet ensures the highest level of loading efficiency with the minimum amount of running 'empty miles'. Wherever possible, vehicle movements are planned and co-ordinated so that a delivery of woodchip or sawdust into a customer's site will be immediately followed up with an outbound load of finished products such as chipboard, bark or paper from the same site to the end consumer. Modern low emission engines combined with effective load scheduling make financial sense whilst achieving the smallest possible CO<sub>2</sub> footprint.

## Primary Processing

The demand for renewable wood and wood-based products will only increase as the world's limited fossil-based resources diminish. Within the UK a number of established world class large-scale primary processors are well placed to continue to provide an increasing proportion of our on-going domestic needs, whether as products from Sawmills, Boardmills and Papermills, or as energy from those now investing in Combined Heat & Power supply on a local and national scale. UK produced from UK sustainably managed resources means security of supply and minimised global impact.

**Recycled wood fibre:**  
Enters the Paper and Board making production stream.

## The Growing Phase

Once established, forests and woodland are tended to ensure that the trees remain healthy with early natural losses being replaced. Roads, rides and drains are all managed to avoid soil erosion and to prevent windblow on wet sites as the trees gain height. At 15 to 20 years trees are thinned to improve crop quality, encourage biodiversity and improve wildlife habitats. Revenue from ongoing sustainable timber production (thinnings and fellings) is continually re-invested in the long-term continuity of the total woodland resource in all its forms.

## Peat Free Compost and Growing Media

Peat free compost and growing media is produced from the bark removed from logs and roundwood at Sawmills and other primary processing facilities. This, combined with composts produced from green waste derived from parks, domestic gardens and urban tree management results in a finished blended product that is the ideal medium for use in tree nurseries, when planting out new woodlands, or when replanting after felling mature trees.





## Secondary Processing

A.W. Jenkinson Forest Products is a major consumer, processor and distributor of raw timber in the form of sawmill co-products; woodchips, sawdust, shavings and bark. Secondary processing applications include use of bark and woodchips for amenity, landscaping and gardening, as well as for the production of bedding for horses, farm livestock and pets. Bark and woodchips also have specialist applications as natural bio-filters and deodorisers.

**Recycled wood fibre:**  
Enters the Biofuel heat and power production stream.

## Everyday Utilisation

'The wood in the trees'. Wood products are a key feature of our daily lives. Aside from the obvious applications in timber sheds, fencing and packaging, wood fibre may be processed into panelboards, such as chipboard, medium density fibreboard (MDF) and orientated strand board (OSB), all of which are used extensively in the manufacture of kitchen, bathroom and bedroom furniture.

Wood products used outside the home include fencing and panels, decking, rails, tree stakes, planters sheds, garages and stables. An increasing amount of new-build housing is now using natural wood for decorative external finishes as well as within the internal structure of roofs, walls and floors.

Wood may also be pulped to produce newsprint and quality printing papers as well as cardboard for packaging and cartons.

A rapidly growing market sector served by A.W. Jenkinson Forest Products is the generation of heat and power. Households heated through the use of traditional wood burning stoves may now find that their electricity is also being generated through low-carbon woodchip fired power plants. Utilising both virgin and recycled wood, these environmentally responsible systems liberate only a tiny fraction of the CO<sub>2</sub> into the atmosphere compared with our aging coal-fired power stations.

## Life-Expired Wood

Waste wood that is no longer fit for purpose, or of a type unsuitable for recycling into panelboard products, still has a useful energy content that can be realised through burning in modern environmentally approved combined heat and power combustion plants. A.W. Jenkinson Forest Products operates a growing number of wood waste processing facilities handling large volumes of waste wood with which to serve both the panelboard and energy sectors. The general principle being that the carbon remains 'locked' into the wood for as long as possible before realising its energy as a biomass fuel.

## Wood Recovery

A.W. Jenkinson Forest Products recycling operations ensure that the waste wood is collected efficiently, is cleaned and screened, metals are extracted so that the recovered wood can be re-delivered to the Boardmills and new chipboard panels produced. This process ensures that UK manufacturers remain globally competitive, jobs are safeguarded, landfill is reduced, carbon footprint from imports is minimised and domestic stocks of sustainable virgin fibre go further in the added-value supply chain.

## Wood Re-Use and Recycling

The common practice of recycling old newspapers and magazines to 'save trees' has been around for decades, but many remain unaware that every other form of wood and plant matter can and should be recovered, re-used and recycled and not sent to landfill. Garden and parkland green waste and woody arisings from both municipal and commercial collections is composted down by A.W. Jenkinson Forest Products to produce 'peat free' growing media and soil improvers. This, when added to composted bark also processed by A.W. Jenkinson Forest Products following collection from sawmills and primary processors, is now recognised by professional growers as a viable alternative to natural peats formed over many years in upland bogs.

Modern Boardmills utilise increasing quantities of waste wood derived from old pallets and packaging, discarded furniture and wood from construction and demolition sites.





Sawdust for animal bedding, panelboard and biomass



Wood shavings for equestrian, poultry and livestock



Woodchip for paper, panelboard, biomass, landscaping and amenity



Bark for landscaping, amenity, horticulture and other specialist applications



Slabwood and offcuts, converted to woodfibre for panelboard and biomass







## Sustainable Forestry Operations

A.W. Jenkinson Forest Products is a fundamentally 'green' business whose operations are closely focused on maximising the utilisation of commercial forestry resources, reusing life-expired wood, milling co-product and arboricultural arisings, as well as processing green waste into peat-free composts and mulches and delivering low-carbon biofuel solutions for both large-scale energy providers and smaller industrial heat and power plants.

As part of its environmentally positive activities, the Company also takes its wider environmental and social responsibilities extremely seriously and is fully committed to striving towards maximising ecological, social and economic sustainability.

### The UK Forest Products Association

The UKFPA is the voice of the United Kingdom's wood processing sector. The Association works with a wide range of public and private sector organisations to represent the technical and commercial interests of the country's Forest Product manufacturers.

### The Forestry Industry Safety Accord

FISA has been established to promote best practice safety standards within the forestry and related industries. Despite good practice by leading names in the industry, the sector remains one of the most dangerous to work in and the FISA accord is playing a major step in improving safety. A.W. Jenkinson Forest Products signed the accord at its launch at the APF 2012 exhibition, committing the Company to the promotion of benchmark safe working standards for its employees, customers and suppliers.

### The Forest Stewardship Council®

A.W. Jenkinson Forest Products is FSC certified for 'chain of custody'. All relevant A.W. Jenkinson Forest Products material carries the coveted FSC approval logo. This internationally recognised standard acknowledges that a product has met the most stringent criteria for sustainability.

### Confor

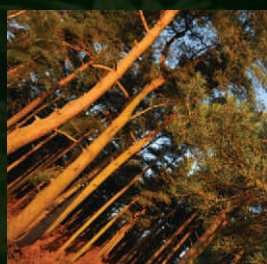
Confor: promoting forestry and wood is, first and foremost, a members' organisation, funded by and accountable to people and businesses who own forests and who work in forestry or with wood and forest products. The aim is to support sustainable forestry and low-carbon businesses through promotion of markets for forest products and helping improve members' competitiveness.

Confor's remit covers all parts of the wood supply chain, from nurseries through to forest owners, agents, contractors, harvesters, sawmills and other users of wood. Confor is here to provide the sector with a strong voice in the market place and in all levels of government - international, UK and local.

### The Biomass Suppliers' List

The Biomass Suppliers List, (BSL) contains the details of RHI accredited suppliers of biomass selling to the owners of domestic and small scale industrial heating systems. As one of the market leaders in biomass production and supply A.W. Jenkinson Forest Products have set in motion the process of accrediting a number of company sites to enable them to provide a range of compliant fuels to new and existing customers.

## Sustainable Forestry



Protects natural woodland



Provides important habitat for rare indigenous wildlife



Offers a popular public amenity



## Health, Safety and Welfare Policy

- It is the policy of A.W. Jenkinson Forest Products and its associated companies to provide, maintain and ensure safe working practices in all operations, systems of work and working environments, for the protection of employees, contractors and others who may be affected, so far as is reasonably practicable.
- All management and supervisory staff are directly responsible for the ongoing identification of workplace hazards and risks in the areas under their control. And for the rectification or minimisation of hazards and risks and the implementation of procedures that deliver pro-active management of health and safety in the workplace.
- Directors, Managers and Supervisors are proactive in ensuring that appropriate health and safety considerations receive maximum priority during operational planning and the day-to-day supervision of work.
- Line Managers are directly responsible for the implementation of the safety policy. However the objectives of this also relies on the positive support and co-operation of every employee, contractor and site visitor.
- Employees must comply with every company safety policy as a condition of employment.
- Contractors and site visitors are clearly informed of the Company's safety policy during induction.
- Allan Jenkinson and the Directors, Managers and Supervisors of all the A.W. Jenkinson Group companies give their full and active support to the implementation of these policies.
- To ensure consistent levels of quality and safety, and rapid, effective remediation when issues arise, all plant and facility maintenance activity at A.W. Jenkinson Forest Products sites is carried out by the Company's dedicated in-house Maintenance Team.

Right: A.W. Jenkinson Forest Products' highly qualified and experienced Health, Safety and Environmental team are active across all areas of production, processing, transport and services.





LEADING THE FIELD IN WOOD CO-PRODUCTS





## Environmental Policy

The A.W. Jenkinson Group places health, safety and the environment at the core of its business; environmental protection is fundamental. Directors and Managers alike acknowledge the potential environmental impact that their activities, products and services could have on the environment and that is why they meet on a regular basis to share good practice and debate any environmental issues which arise from time to time.

The Group takes all practical steps to ensure that potential environmental risks and hazards are identified and that effective control measures are implemented to minimise or eliminate any harm to human health and the environment.

The Group works closely with the Environment Agency (EA), the Scottish Environmental Protection Agency (SEPA) and Natural Resource Wales (NRW) to implement environmental permit conditions at those sites where they apply. Policies and procedures are constantly monitored and reviewed and are routinely inspected by the respective regulatory bodies in England, Scotland and Wales.

Having an effective environmental management system in place not only helps to avoid, reduce and control the impact of operations, but it also helps achieve compliance with applicable legal requirements, and importantly, assists in continually improving environmental performance. As part of the Group's commitment to achieve the highest levels of environmental protection, we are working towards having our current environmental management systems and procedures formalised under the stringent international standard ISO 14001.

Below: Solar panel installation at the Group's Penrith Truckstop. Although the Company is heavily involved in the processing, marketing and distribution of biomass fuels and recycled materials, it actively promotes and utilises all forms of environmentally responsible renewable energy.

A.W. Jenkinson Forest Products and A.W. Jenkinson Transport Limited have developed a joint Environmental Policy, which is published in full on our Forest Products website. It states the following:

**“To minimise environmental impacts concerning our activities, products and services, we shall:**

- Comply fully with, or exceed the requirements of current environmental legislation, guidance and codes of practice, and any other requirements to which the companies subscribe which relate to environmental aspects.
- Prevent pollution, utilise resources responsibly, and reduce unnecessary waste.
- Ensure that all employees are provided with the necessary training, resources, equipment and motivation to maintain the highest environmental protection possible.
- Work towards the implementation of an environmental management system compliant with ISO 14001 across all sites.
- Encourage environmental awareness amongst suppliers and contractors by the implementation of operational procedures at all sites.
- Ensure effective and expedient incident control, investigation and reporting as necessary.

All employees and contractors are expected to co-operate and assist in the implementation of this policy, whilst ensuring that their own works, so far as is reasonably practicable, are completed without risk to themselves, others or the environment.

To demonstrate our commitment to this Policy, audits are carried out on a regular basis, and an annual review meeting is undertaken to ensure a process of continual improvement. This Policy is communicated to all staff, contractors and suppliers, and made available to the public.”



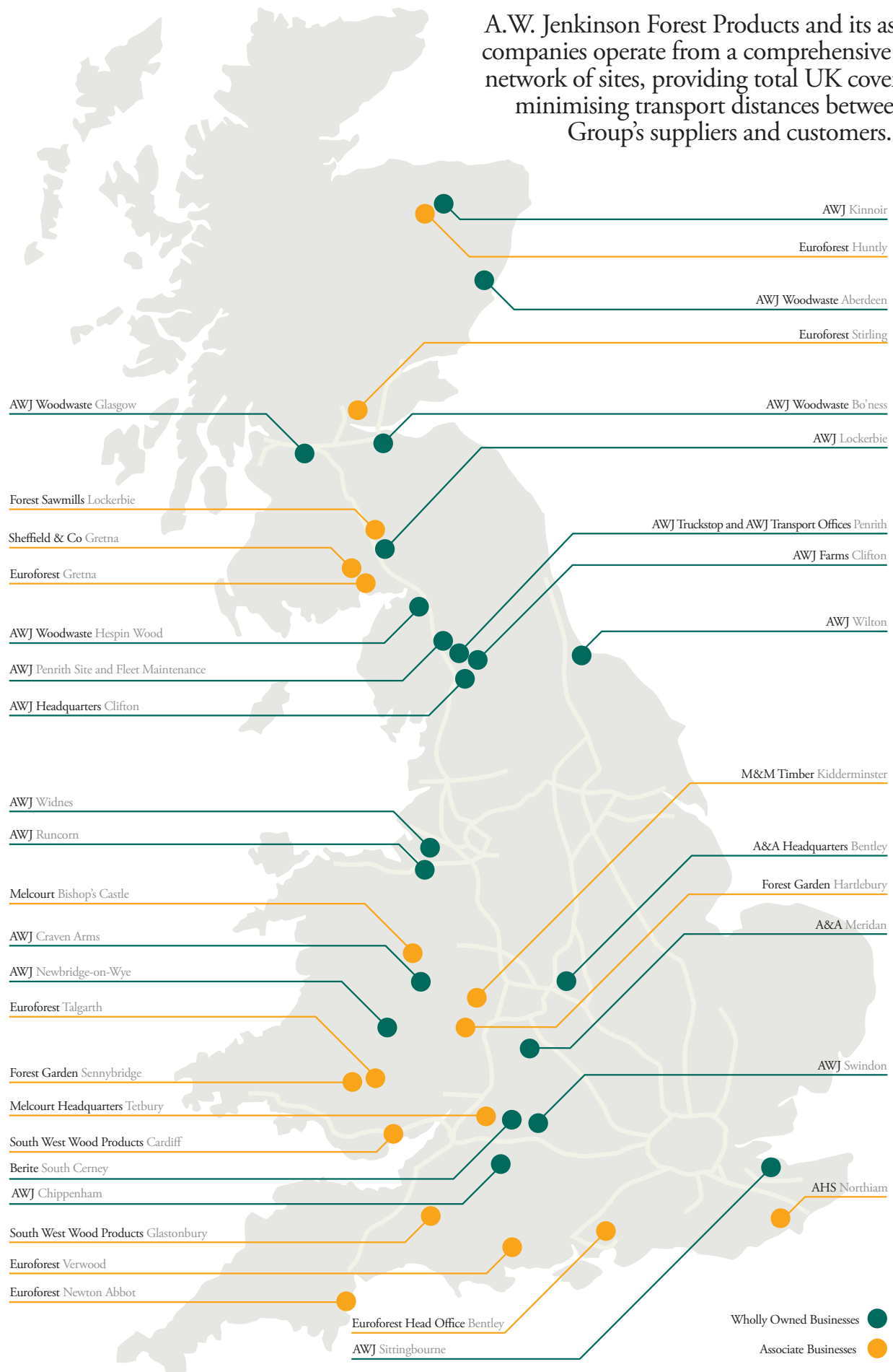


## Environmentally Positive

- Towards the end of 2015, to help reduce the Group's energy consumption, and because it supports our environmental beliefs, we invested in solar energy. We worked closely with a local company, Sundog Energy Ltd to install solar photovoltaic modules on the buildings at our Head Office at Clifton (240kW system) and at Penrith Truckstop (50kW system). The electricity generated helps to off-set our energy consumption; any power we do not utilise is fed back into the national grid.
- A.W. Jenkinson Forest Products has a dedicated Environmental Manager who ensures that we comply with all legislative and environmental requirements and is on hand to advise and inform on environmental matters.
- To fulfil our obligations regarding the European Energy Efficiency Directive, transposed in the UK by the Energy Savings Opportunity Scheme (ESOS), we have appointed a 'Lead Assessor' to carry out a detailed audit regarding our energy consumption. The findings will enable us to make more informed decisions on future resource utilisation within the Group.
- We recycle all that we can, including paper, card, plastics, glass, metals, waste electronic and electrical equipment, oil, grease, oil drums, oil filters, air filters, aerosols, grease cartridges and more. Therefore, the waste we send to landfill is kept to an absolute minimum.
- Recycled wood from household waste recycling centres, and reclaimed wood from building sites is used to make new resources which can be utilised for chipboard and MDF manufacture, and for biomass fuel in the renewable energy sector. In the past this valuable resource may have been sent to landfill.
- Green waste, sourced from household gardens is composted to rigorous PAS 100 standards, creating finished products such as soil improver and mulch which are no longer classed as waste. Soil improver can be mixed with bark fines and made into peat-free compost. By eliminating the necessity to use peat in our compost we are helping the conservation of fragile habitats such as natural peat heathlands, blanket bogs and raised mires which have evolved over millions of years. The carbon contained within untouched peatland habitats remains 'locked in' which helps to mitigate climate change.
- Any virgin wood used in our operations is drawn from known sustainable sources, generally from certified forestry plantations. Nothing is wasted as the whole tree can be utilised in various processes, making production not only efficient, but also environmentally responsible.
- Forestry plantations are managed just like any other crop, albeit on a longer-term basis. Some production can begin after 20 years, but it takes 30 to 50 years for a tree to mature. Harvested roundwood is used as a raw material for sawmilling, paper making, panelboard manufacture and for biomass energy generation.
- Biomass fuel is supplied to power stations throughout the UK, supporting low carbon renewable sources of heat and electricity generation. The Group works closely with its customers to meet the statutory demand for renewable energy generation as the UK strives to produce 15% of its total energy consumption from renewable sources by 2020.
- Raw materials are sourced as close to utilisation as possible therefore minimising the carbon miles travelled. We collate information on energy used in production and distances travelled for materials supplied to biomass customers; this enables them to fully comply with their sustainability and greenhouse gas reporting criteria to Government bodies such as Ofgem.



A.W. Jenkinson Forest Products and its associated companies operate from a comprehensive national network of sites, providing total UK coverage and minimising transport distances between the Group's suppliers and customers.







## A.W. Jenkinson Forest Products' Remote Processing Sites

Strategically situated in close proximity to key sources of raw materials, A.W. Jenkinson Forest Products' network of remote processing sites process material from arboricultural operations, site clearance, clear-felling and other virgin fibre streams, maximising transport efficiency.

Lower grades of material are screened and blended to create suitable wood fuels, thereby retaining premium grade sawmill chips as feedstock best suited for the manufacture of panelboard and paper products.

Operating in this way, A.W. Jenkinson Forest Products sets benchmark industry standards, whilst promoting and encouraging the best use of raw materials at every stage of the wood products' life cycle.



# A.W. Jenkinson Forest Products Wholly Owned Businesses



**A.W. Jenkinson**  
**FOREST PRODUCTS**

A.W. Jenkinson Forest Products acts as a focal point for all other interests within the Group. A.W. Jenkinson Forest Products is heavily involved in the processing and distribution of a wide variety of wood products, ranging from sawdust and shavings for livestock bedding to chipped landscaping bark and peat-free and reduced-peat composts.

Founded in the mid-1960's A.W. Jenkinson Forest Product's activities are centred on the Head Office at the Clifton site, near Penrith. Acquired in 1994, the facility has been developed to process a wide range of products. Clifton processes woodchip for walkways and bark for use as a mulch, compost or as an organic soil improver.

The facility is capable of processing around half a million tonnes of wood every year. This throughput is split between raw bark from sawmills and board mills, with similar amounts of wood fibre drawn from milling co-products, roundwood, forestry residues and arboricultural arisings.



**David Hodgson**  
Operations Director

Tel: 01931 712 644  
[www.awjenkinson.co.uk](http://www.awjenkinson.co.uk)



**Richard Palmer**  
Commercial Director

Tel: 01931 712 644  
[www.awjenkinson.co.uk](http://www.awjenkinson.co.uk)





## A.W. Jenkinson

### TRANSPORT LTD

As a result of the expanding transport requirements of the wider A.W. Jenkinson Group and to better serve the targeted needs of its extensive third party customer base, the logistics operation was incorporated in spring 2014 to create A.W. Jenkinson Transport Ltd.

Although wholly owned by Allan Jenkinson, the Company is run by a board of Directors with a wealth of experience in the provision of efficient, cost-effective logistics with a swift professional service. A.W. Jenkinson Transport Ltd operates the largest walking-floor fleet in Europe today.

The fleet consists of primarily articulated units drawing walking-floor and chipliner trailers combined with tippers and more specialist skeletal log wagons and low loaders. For more information on A.W. Jenkinson Transport Ltd please refer to their separate brochure.



**Sam Middleton**  
Director

Tel: 01931 712 644  
[www.awjenkinson.co.uk](http://www.awjenkinson.co.uk)



**Brian Blenkarn**  
Director

Tel: 01931 712 644  
[www.awjenkinson.co.uk](http://www.awjenkinson.co.uk)



# A.W. Jenkinson Forest Products Wholly Owned Businesses



In line with government waste, energy and sustainability targets, A.W. Jenkinson Forest Products has invested heavily in the environmentally responsible processing facilities required for waste wood recovery and recycling through the wholly-owned company, A.W. Jenkinson Woodwaste Limited.

A.W. Jenkinson Woodwaste Limited operates facilities in Carlisle, Glasgow, East Scotland and Bo'ness near Grangemouth. The Company operations are centred on the recycling of waste wood as well as green waste, which is composted at Hespin Wood. This busy site just north of Carlisle is one of several green recycling facilities currently operating within the wider A.W. Jenkinson Group.

Located close to large urban centres, these facilities collect and process household and commercial green waste and wood waste, to produce high-grade compost and recycled wood fibre for use in panelboard mills and as an effective biomass fuel for power generation.



**Tom McIntyre**  
Managing Director

Tel: 01506 829 880  
[www.awjwoodwaste.co.uk](http://www.awjwoodwaste.co.uk)



Located in the lush landscape of the upper Eden Valley, the A.W. Jenkinson Farms have built a reputation for benchmark standards in bovine genetics, animal husbandry and arable productivity.

The extensive farm holdings on the periphery of Penrith support the farming enterprise, whilst maintaining excellent sporting and conservation credentials. The Limousin herd comprises 130 breeding females which calve down to high quality pedigree stock bulls. The farm also holds around 2,500 ewes; these Texel/North Country Mule crosses produce in excess of 4,500 lambs per year.

Throughout the holdings, the policy is one of continued improvement of land, livestock and facilities, tempered by a recognition that Jenkinson's are stewards of the land; respectful custodians for its future occupants.

The farm comprises six formerly separate holdings now operated as a single, efficient unit. Bringing the highly successful business culture of the A.W. Jenkinson Group to work on the farms has reaped rich rewards at a time when farming is a hard-bitten industry.



**Nick Scholefield**  
Estate Manager

Tel: 01931 712 644  
[www.awjenkinson.co.uk](http://www.awjenkinson.co.uk)



Penrith Truckstop is a popular, independent facility for commercial drivers, located less than half a mile from the key junction of the A66 trans-Pennine route and the M6. Whilst today there are numerous motorway services, many truckers still prefer the character and personality of the smaller independent sites where regulars can get to know the staff and meet friends.

The easily accessible site provides 24 hour card fuelling, welcoming accommodation, a restaurant serving hearty, fresh food and a well stocked shop and bar in addition to the all-important secure parking essential for drivers with loaded vehicles.

Penrith Truckstop is also a valuable asset for the wider A.W. Jenkinson Group due to its close proximity to several other transport depots. Originally purchased to guarantee local fuelling facilities and secure parking, the site now also provides additional storage and distribution capacity.

Penrith Truckstop was crowned Blue Arrow 'Truckstop of the Year' 2015 in February.



**Dorothy Blyth**  
Site Manager

Tel: 01768 866 995  
[www.awjtruckstop.co.uk](http://www.awjtruckstop.co.uk)





## A&A Recycling SERVICES LIMITED

A&A Recycling Services' activities are centred on the recycling, repair and re-use of damaged pallets and other life-expired timber. The Company started life in the early 1990s at Bentley in Warwickshire with a single flat-bed truck collecting used pallets for reconditioning and resale in the Birmingham area.

Later, a valuable and growing market was identified for the recycling of other forms of waste wood, mirroring the activities of the wider A.W. Jenkinson Group.

Where possible, damaged pallets collected from across the UK are sold for repair, significantly reducing the consumption of virgin timber for pallet manufacture. The remaining unserviceable timber and other reclaimed wood is processed into raw material for chipboard production and for use in modern, carbon neutral power stations.



**Roger Balmer**  
Director

Tel: 01827 722 300  
[www.aandarecycling.co.uk](http://www.aandarecycling.co.uk)



## BERITE SAWMILLS LIMITED



A.W. Jenkinson Group company Berite Sawmills Limited is a miller of sawn timber for pallets and packaging and the manufacturer of 'Dormit' wood fibre, a high quality product that is used in all-weather equestrian gallops and training arenas.

The Company's sawmill at South Cerney in Gloucestershire consumes around 20,000 tonnes annually of coniferous logs at its site in the picturesque Cotswold Water Park.

Bark removed during the milling process then enters the A.W. Jenkinson Forest Products supply chain to be processed into top dressings and peat-free compost.



**David Haste**  
Site Manager

Tel: 01285 860 781  
[www.berite.co.uk](http://www.berite.co.uk)



# A.W. Jenkinson Forest Products Associated Businesses



## EUROFOREST

Euroforest is the UK's largest independent provider of timber harvesting and marketing services, supplying small-scale millers through to the largest processing operations, as well as a number of Scandinavian pulping operations and customers in northern Europe. The Company offers a unique level of service, capability and professionalism to a broad spectrum of forestry owners. Clients range from state forestry services, large private estates, investment trusts and professional forestry managers, to community associations and farmers with shelter belts.

The Company now harvests in excess of 2 million cubic metres of timber every year - approximately 15% of the entire annual British forestry production volume. Harvesting covers both standing trees and roadside purchases and thinning through to clear felling. The Company's transport provision utilises road, sea and rail.



**David Symons**  
Managing Director  
Tel: 01420 230 30  
euroforest.co.uk



## Sheffield & Co. LIMITED

Sheffield & Company Limited is a wholly-owned subsidiary of Euroforest Limited, acquired in May 2014. Founded in 1947, the Company specialises in forestry, timber harvesting, timber haulage, fencing and landscaping, as well as operating a fleet of specialist timber wagons and delivering a range of regional harvesting and marketing operations.

The team draws on more than 50 years' experience in ensuring clients' timber operations deliver the best returns available. Its independent status means Sheffield & Company Limited are not linked to specific markets, freeing the business to sell to the highest bidder rather than a parent company or associate.

Based just north of Carlisle, Sheffield and Company are ideally located to serve a broad range of customers across Northern England and the Scottish Borders.



**Cameron Smith**  
Managing Director  
Tel: 01697 473 218  
euroforest.co.uk



AHS has been supplying the UK's landscaping industry with an extensive range of barks, composts and wood-based products since its formation in 1992.

These were the founding products on which AHS built its business and whilst they continue to be a huge part of its business today - AHS is the UK's leading supplier of bark and woodchip products - AHS is now renowned for much more.

The Company is now the go-to supplier of products for construction, horticulture, landscaping, play safety equipment and sports fields.

AHS has worked hard to build and maintain its strong reputation for quality, efficiency and prompt delivery and it continues to grow and increase its following of loyal customers as a result of its ambitious, dedicated team who are passionate about the AHS brand and its customers.



**Nick Guest**  
Managing Director  
Tel: 01797 252 728  
ahs-ltd.co.uk





A.W. Jenkinson holds a substantial share in major sawmilling and garden products manufacturing group Forest Garden. Forest Garden is the UK's market leader in supplying sheds, fencing, arches, arbours, decking, decorative trellis, planters and pergolas into both store and online markets. The Group recently acquired the business of machined round timber specialist M&M Timber, giving the Group access to new markets in agricultural, landscaping and play equipment products.

A large proportion of Forest Garden's popular products are pressure treated and carry a 15 year guarantee against rot; saving time and money as well as helping the environment by reducing the amount of chemicals used annually and the frequency with which wood must be replaced.

The business, which is the main supplier for most of the UK's DIY retail and internet chains, is centrally based at Hartlebury, Worcestershire. M&M Timber is just 12 miles away at Clows Top, whilst the Group's sawmills division operates at sites in Sennybridge, Wales and adjacent to A.W. Jenkinson Forest Products transport and operations centre at Lockerbie.



**Guy Grainger**  
Managing Director  
Tel: 0844 248 9801  
forestgarden.co.uk



## Melcourt<sup>®</sup>

Industries Limited  
Proven • Safe • Sustainable

Gloucestershire-based Melcourt Industries is the UK's leading supplier of mulches, growing media, natural play surfaces, topsoil, composts and soil improvers, equestrian surfaces, biofiltration media and other products based on bark, wood and other sustainable materials.

A leader in innovation and high quality for over 30 years, Melcourt has developed a range of products that is second to none, with unparalleled technical back-up, prompt and efficient delivery, outstanding levels of customer care and excellent environmental sustainability.

The Company's products are rigorously consistent and are fully compliant with British and European standards – many of which Melcourt helped to develop. Many products have also achieved stringent Forest Stewardship Council (FSC) certification, with some also approved by the Soil Association for use in organic applications. Melcourt's peat-free gardening and landscape products are endorsed by the RHS.



**Andy Chalmers**  
Managing Director  
Tel: 01666 502 711  
melcourt.co.uk



## South West Wood Products Ltd

South West Wood Products was launched in 2011 as a joint venture of Nigel Dunn and A.W. Jenkinson.

Servicing the South West of England recyclables market, South West Wood Products' activities are centred on the shredding of life-expired pallets and other waste wood into an important source of wood fibre. South West Wood Products material is a key supplier to the chipboard manufacturing sector and biomass facilities located in the area.

The Company is one of very few UK businesses that is authorised to shred the well recognised blue pallets owned by Chep when they reach the end of their working lives. Unserviceable pallet timber and other reclaimed wood is processed into raw material for panelboard production and for use in modern, carbon-neutral power stations.



**Tom Dunn**  
Regional Manager  
Tel: 02920 523 440  
awjenkinson.co.uk









## FORESTRY ACTIVITIES

Following WWI and the formation of the Forestry Commission in 1919 the UK invested heavily in re-establishing the Nation's forests and woodlands to provide strategic timber reserves in times of need, which again proved so vital during WWII. The continuation of widespread strategic planting by both the state and private sector in the second half of the twentieth century is now maturing to provide the raw material with which to meet today's ever increasing demand from UK sawmillers, wood processors and renewable energy generators. The objectives may have changed but the demand for renewable timber products has remained constant.

A.W. Jenkinson Forest Products has a close relationship with the UK forestry industry both as a service provider and as a major consumer of their products. It provides growing media and soil improvers in which seedlings are brought-on, and it makes use of thinnings from the management of young plantations. As trees reach maturity, the Company provides a broad spectrum of harvesting support, including specialist flatbed low-loaders moving equipment to and from remote harvesting sites.

As the felling operations begin, A.W. Jenkinson Forest Products comes into its own as a key supplier of extraction and transportation services. The Company operates a large fleet of bolstered log trailers, as well as self-loading articulated and drawbar units fitted with log grabs and cranes that are invaluable for their ability to self-load from the forest roadside when the main harvesting operations have moved on. The Company continues to invest heavily in its forestry fleet, with a new forwarder joining the Group in August 2015 to work alongside A.W. Jenkinson Forest Products' fleet of chipper trucks and a new dedicated shredder to handle a broad range of brash products.

More recently A.W. Jenkinson Forest Products, working with its forestry partners, pioneered the early recovery of topwood, stumpwood and brash thereby increasing the overall availability of woodfibre now recognised for its importance as a renewable virgin biomass feedstock. More effective recovery of the total forest resource adds value for the grower and creates improved conditions for rapid establishment of the next forest rotation.









## On-Site Lop, Top and Brash Processing

Working closely with many of the leading forestry and site clearance businesses, A.W. Jenkinson Forest Products operates the latest Mobile Chippers and Shredders, providing a broad range of on-site clearance, forwarding and chipping services for forestry, tree surgeons and municipal parks departments.

The self-contained chipper units and associated support vehicles combine quick set-up and ease of access in confined sites; delivering high speed chipping of roundwood, slabwood, offcuts, brash and whole-tree, using its large capacity in-feed. Alongside the fleet of chippers and shredders, A.W. Jenkinson Forest Products now has a number of forestry forwarders to enable recovery of brash direct from clients' sites, reducing on-site costs, maximising available planting space for future crops and helping the client reduce establishment costs.

Material can be contract-chipped to meet customer requirements, or alternatively can be extracted and processed by A.W. Jenkinson Forest Products' skilled operators. Contract Managers will also arrange and co-ordinate the associated transport and logistics for direct delivery to the Company's established markets across the UK.

A.W. Jenkinson Forest Products welcomes enquiries from all types of arboricultural, forestry and municipal customers with a requirement for quick, efficient on-site chipping. For further information please contact the Company's Clifton Head Office: 01931 712 644 or email [chipper@awjenkinson.co.uk](mailto:chipper@awjenkinson.co.uk)





## Chipper Case Study

Working alongside a leading Scottish forestry contractor, A.W. Jenkinson Forest Products managed the clearance of a whole tree Sitka Spruce operation on a brown soil site, and delivered the on-site chipping and haulage service.

It was essential that the site clearance operations were done in a timely manner, scheduling works to avoid traffic congestion and leaving the site as clean as possible to hand over to the wind farm client.

The A.W. Jenkinson Forest Products chipper processed approximately 7,500 tonnes of thicket stage whole tree, harvested using tree shears and placed into small bundles ready for a conventional forestry forwarder to extract and present at roadside ready for chipping. Working with a dedicated team of forestry operatives A.W. Jenkinson Forest Products were able to chip and remove all material presented at road side using a powerful Komptech chipper truck. A.W. Jenkinson Forest Products was able to recover a substantial amount more volume from a site that in previous years would have been mulched in situ, instead placing this material in to an existing biomass outlet.

A.W. Jenkinson Forest Products' chipper team offered the experience, equipment and flexibility to coordinate operations, using the powerful yet compact mobile unit to overcome limited local access and narrow forest tracks. The speed of the operation minimised onsite disruption, allowing other forestry activities to carry on while the chipping was taking place. Working within constrained working hours and following best practice health and safety procedures, the entire project was completed within two months.















## EUROFOREST

Euroforest is the UK's largest independent provider of timber harvesting and marketing services. The Company has more than 50 years' experience in maximising returns for its clients throughout the UK. Activities from the far north of Scotland, south to Cornwall and the Channel Coast are supported by a network of regional offices. The Company offers a unique level of service, capability and professionalism to a broad spectrum of forestry owners. Clients range from state forestry services, large private estates, investment trusts and professional forestry managers, to community associations and farmers with shelter belts.

Euroforest is owned and operated by a combination of private equity investors and company employees and is fully independent from any links with timber processors. This unique independence frees the Company to achieve the best possible value for growers, whilst enabling it to take substantial, reliable volumes of raw material to market.

The Company now harvests in excess of 2.1 million cubic metres of timber every year which is approximately 15% of the entire annual British forestry production volume. The Euroforest harvesting service covers both standing trees and roadside purchases encompassing first thinning through to clear felling at the end of the rotation. The Company's transport provision carries material to a well-established customer base and is delivered by road, sea and rail.

Euroforest supplies the entire UK market, from small-scale millers through to the largest processing operations, as well as a number of Scandinavian pulping operations and customers in northern Europe. The Company's innovative service delivers an impartial, fully independent service to the grower in search of a smooth product flow from harvesting through to marketing and transport, that maximises the financial yield from a woodland.





## EUROFOREST

### Euroforest and Health, Safety and the Environment

Health & Safety and the protection of the environment are of paramount importance to Euroforest. Company operations take place in some of the most beautiful, fragile and endangered environments found in Britain. Euroforest is fully committed to minimising its impact on these important ecosystems, whilst also ensuring the Company operates in a safe, sustainable and responsible manner across all aspects of the business.

As part of its positive drive to prioritise Health, Safety and Environmental considerations, Euroforest has achieved accreditation in a series of stringent standards, including ISO14001 Environmental Management, OHSAS18001 Health & Safety Acceptation, Investor in People, FSC® Chain of Custody certification, membership of the Forestry Industry Safety Accord and Confor.

## Sheffield & Co. L I M I T E D

Sheffield & Company is a wholly-owned subsidiary of Euroforest Limited, acquired in May 2014. Founded in 1947, the Company specialises in timber harvesting and marketing. Sheffield & Co also runs the fleet of specialist timber wagons which contribute to delivering a range of regional harvesting and marketing operations.

The team draws on more than 50 years' experience ensuring clients' timber operations deliver the best returns available. Its independent status means Sheffield & Company is not linked to specific markets, freeing the business to sell to the highest value market thereby ensuring the grower achieves the maximum return for their timber.

Based at Greta, just north of Carlisle, Sheffield and Company is ideally located to serve a broad range of customers across northern England and the Scottish Borders.



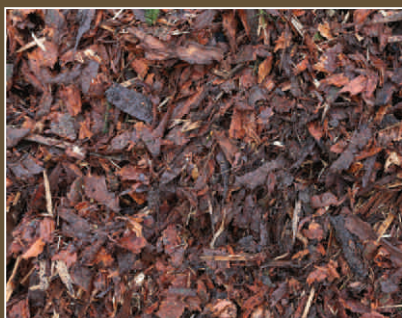






## Useful information for A.W. Jenkinson Forest Products' suppliers

Whether you are a recycler of life-expired wood or a source of virgin fibre and whether you supply chipped or unchipped product, A.W. Jenkinson Forest Products is interested in acquiring your material for processing and blending into a range of finished products and as a processed feedstock for onward supply in other primary processing industries.



In recent years the production and marketing of woodchip and woodfibre has risen to become a major product stream for A.W. Jenkinson Forest Products, its subsidiaries and the associated companies' operations. Virgin and recycled wood are processed through hammer mills into chip and fibre and are a key raw materials for a number of different industries including farming, manufacturing, processing and energy generation.

Chief amongst these applications are the manufacture of panelboard and pulp for paper, bedding for cattle and a soft surface for equestrian arenas and gallops. Finally, the material is used increasingly as the UK's most important biomass fuel; material that is playing a significant role in combating global warming by reducing global carbon emissions.

A.W. Jenkinson Group businesses operate a comprehensive national network of facilities that reduce unnecessary transport by receiving,

processing and dispatching locally sourced material for all sectors to nearby users. A.W. Jenkinson's high quality 'clean grade' material goes to board, pulp and premium equestrian applications, whilst 'low grade' product enters the biomass stream to be turned into valuable energy and heat.

The companies manufacture virgin material from timber co-products such as small roundwood and offcuts generated during the sawmilling and joinery manufacturing processes, as well as using low grade green timber and stump material from forestry and arboriculture.

Recycled product is generated from panelboard waste, recycled timber from municipal waste dumps and commercial reclaimers, and the life-expired timber and packing materials collected by A.W. Jenkinson companies. The low moisture material produced is an important additive that can be blended with virgin fibre to regulate moisture levels.













## WOOD PROCESSING

A.W. Jenkinson Forest Products and its group companies are major consumers and processors, selling high quality wood and wood co-products at every level in the market place. Roundwood, woodchip, sawdust and bark are utilised by A.W. Jenkinson Forest Products in-house. The Group also supplies material to other businesses across the full spectrum of wood processing interests for conversion into sawn wood, panelboard, paper and card, garden amenity products, landscaping and renewable heat and power.

Sawdust and fines from primary processing and sawmilling, along with shavings and sawdust collected from mills producing high grade kiln-dried and planed carcassing and construction timbers, are screened and separated to be marketed under group brands and supplied in bagged, baled and bulk form to the livestock, equestrian and pet bedding markets.

Woodchip and bark generated during the chipping and conversion of roundwood is used in domestic and amenity applications as a surface dressing, or within blended peat-free growing media. Bark and composted products are retailed directly to the public at group sites, and into the wider wholesale domestic and professional market through Melcourt Industries Ltd, and through Amenity Horticulture Services national sales networks and the AHS Direct website. A.W. Jenkinson Group products are also packed in a variety of forms on behalf of many of the UK's leading retail chains.

As well as working with most of the UK's leading sawmillers, the A.W. Jenkinson Group also includes Berite Sawmills' and Forest Garden's own sawmilling activities. 'Forest' is the UK's leading manufacturer of fencing panels, sheds, planters, decking and related products for the home garden market. Berite manufactures sawn softwood for pallets and packaging, as well as its renowned high grade 'Dormit' Woodfibre the premier natural wood dressing used in equestrian arenas and gallops.



# Primary Processing Outlets

## Sawmills

Continuing investment in modern, high-tech sawmilling capacity over the past twenty years has brought the UK into the 21st century well able to compete with the rest of the world. British sawmills produce all grades and types of sawn wood; from kiln-dried and stress graded joinery, carcassing and construction timbers to green sawn timber used in pallet, packaging and fencing products. Modern sawmills operate using laser measurement and computer generated graphics to optimise cutting accuracy and maximise the recovery of sawn boards from every log.

Alongside group companies Berite and Forest Sawmills, A.W. Jenkinson Forest Products works in partnership with the whole sawmill sector; from the delivery of sawlogs from forest harvesting sites into the mills, to the management, handling and loading of co-products (woodchips, sawdust and bark) out to other primary and secondary processes in the paper, panelboard, amenity and biomass sectors.

A.W. Jenkinson Forest Products guarantees certainty of market and reliability of co-product collection so that sawmills can maintain high volume sawlog throughputs and maximised production capacity. The Group also provides transport and logistics services for both sawn timber and co-products sold directly from mill to primary end users.

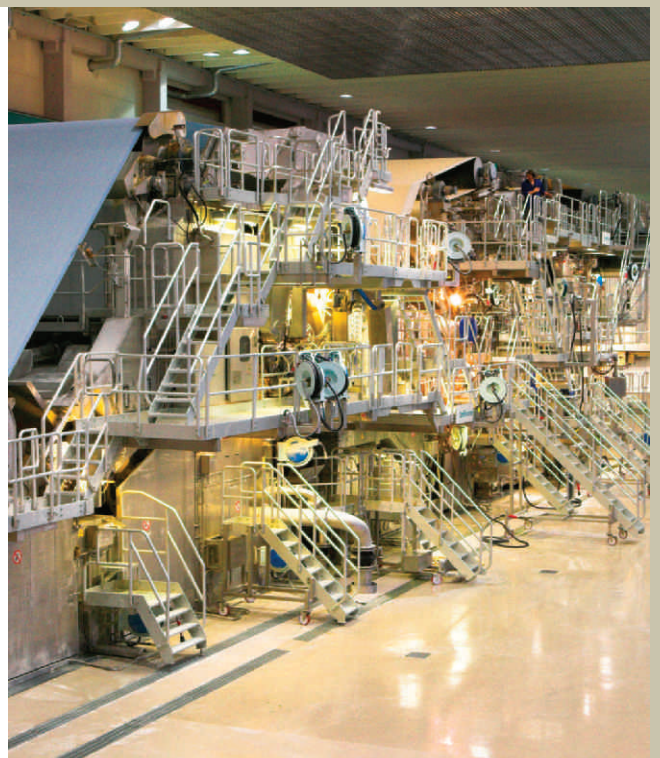


## Papermills

Despite the continuing rise in electronic media, the UK remains one of the largest consumers of newsprint and lightweight coated printed papers for magazines and periodicals. Whether in the form of high quality virgin woodchips, spruce pulpwood or recycled newspapers and magazines, A.W. Jenkinson Forest Products is actively engaged in ensuring a constant flow of raw material arrives at papermills throughout the UK.

More recently, as British papermills have invested heavily in combined heat & power (CHP) biomass systems for their process steam and electricity, A.W. Jenkinson Forest Products played a key role in securing the early supplies of suitable biomass fuels that are now a mainstay of the continuing success of this highly integrated sector.

A.W. Jenkinson Forest Products supplies raw materials, biomass and transport services to three key paper and carton board mills located at Shotton, Irvine and Workington. These produce more than a million tonnes of paper and cartonboard every year from huge, high speed machines using virgin wood pulp and recovered fibre collected from local authority recycling centres nationwide. Papermills also return waste paper from printers and publishing houses into the production stream.







©2013 by kind courtesy of Egger (UK) Ltd.

## Boardmills

Like the sawmills, UK boardmills have invested heavily to maximise production and remain competitive in European and global markets. The UK has always relied on imported timber products. However, increased woodland planting in the second half of the 20th century has delivered steady growth in the UK timber harvest, enabling a move from just 10% to almost 35% in domestic self-sufficiency today.

Woodchip and sawdust are the key feedstocks required by board manufacturers who, using modern continuous presses, consume large quantities of sawmill co-products, chipped roundwood and recycled wood fibre. They produce high quality boards and decorative panels for kitchen, bedroom and bathroom furniture, as well as all grades of standard 'tongue and groove' and laminate wood flooring.

As domestic sawlog availability increased, the resultant outputs of sawmill co-products encouraged a parallel growth in the capacity of chipboard and fibreboard production so that today a common interdependence ensures the most effective use of the timber harvested from UK forests and woodlands. Although chipboard now uses predominantly recycled wood, other board product technologies still rely heavily on virgin wood feedstocks supplied by A.W. Jenkinson Forest Products.



## Heat and Power

Wood, or 'encapsulated sunlight' is the oldest form of stored energy known to man. From open fires and simple clay ovens to early steam generation and wood burning stoves, woody biomass is once again becoming a major contributor to our current and future energy needs. Modern combustion technologies, combined with state-of-the-art steam turbines are now delivering stand-alone CHP generation, as well as integrated energy solutions supporting the ongoing viability of British food processing and manufacturing industries.

A.W. Jenkinson Forest Products has played a leading role in the early development of large-scale biomass heat and electricity generation – initially with the supply of low grade virgin wood and sawmill co-products, and increasingly through the development of processing infrastructure and logistics to service the increasing move towards arboricultural arisings, life-expired timber and other waste-derived fuels.

A.W. Jenkinson Forest Products worked in close partnership with E.ON Renewables from initial concept, through construction and commissioning to the on-going day to day fuel supply and management of Scotland's first large-scale Biomass Power Station at Lockerbie. Today, A.W. Jenkinson continues to handle and process over half a million tonnes of wood at Lockerbie to meet the requirements of both E.ON and other UK consumers.





The Forest Garden Group is active across the UK's domestic, trade and agricultural timber markets, with its core categories of fencing and garden buildings. The Group is vertically integrated by having its own sawmilling division at two sites in support of its two manufacturing and distribution divisions; Forest Garden and M&M Timber. This integration has proven invaluable in supporting sharp increases in fencing demand following storm damage recognised by receiving top supplier awards from major retailers in 2014.

A.W. Jenkinson holds a significant share in the Forest Garden Group, the largest manufacturer and supplier of timber products into the UK's top DIY multiples, internet retailers, garden centres and builder/agriculture merchants, with products sold under the Forest, Larchlap, M&M and 'own brand' labels. Forest Garden offers a wide range of products, including fences, sheds, greenhouses, summerhouses, decorative structures, play equipment and 'grow your own' products, all of which are certified by the Forest Stewardship Council (FSC), ensuring the timber has been sourced from properly managed forests and controlled sources. M&M Timber, which is the most recent addition to the Group, was the pioneer of incised machined round timber posts in the UK. Marketed under its Agricised™ brand, this new technology enables a far greater penetration of preservative into the timber during the treatment process, giving a guaranteed life of as much as 30 years; a major labour and cost saving benefit for the agricultural, livestock and landscaping markets.

The Group distributes to retail stores and direct to residential addresses on behalf of its customers and during peak season operates its own fleet of up to 100 vehicles. The main distribution facility is centrally located at Hartlebury, Worcestershire, alongside the Group's main manufacturing site, which has the capacity of upwards of 1.8 million fence panels and 150,000 sheds per annum.















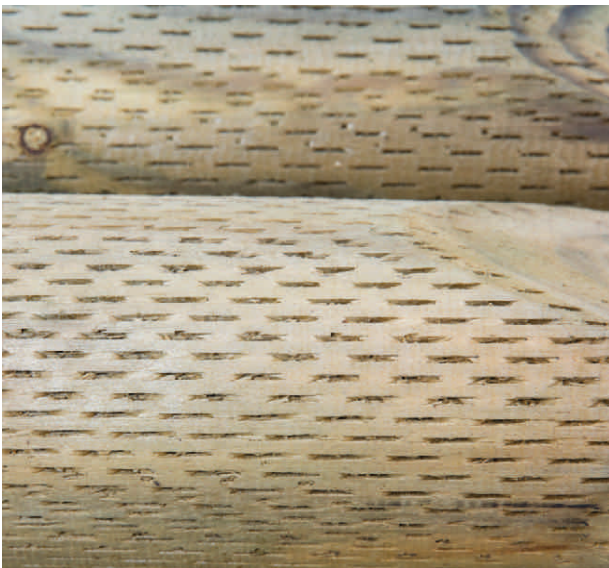
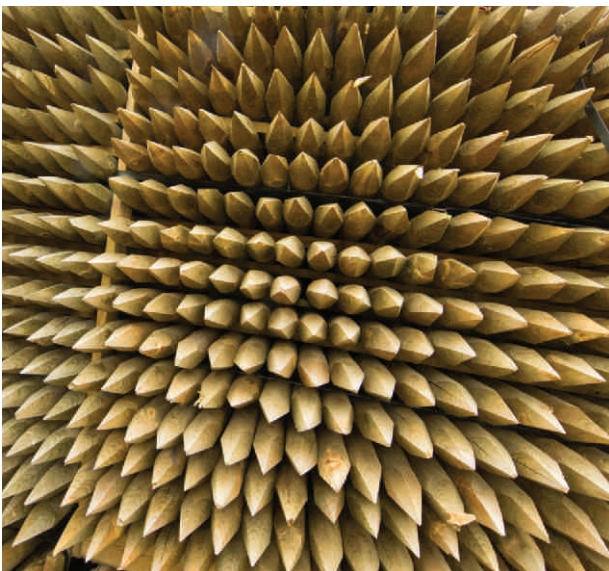
Forest Garden's large-scale production facilities at Hartlebury, pictured here, and Lockerbie produce huge volumes of pre-treated fencing, decking, sheds, planters and associated garden wood products for the homeowner, marketed both directly online under its own brands and via the leading Garden and DIY retail multiples.





This wholly owned Kidderminster-based subsidiary of Forest Garden was the UK pioneer of incised machined round timber.

The Company's Agricised™ branded fenceposts utilise grooves cut into the timber's surface to achieve far greater penetration of preservative. This increases the guaranteed life to as much as 30 years; substantially reducing consumption of raw materials and fence renewal costs.



















“Dormit provides a secure and safe surface that withstands our inclement Scottish weather and makes our horses work hard. Dormit woodchip is straightforward to maintain and extremely cost effective. Our winners are testament to the effectiveness and having used Dormit since 1997 on various gallops it is my recommendation to anyone who wants to produce sound, fit horses.”

Lucinda Russell, Racehorse Trainer







# BERITE

SAWMILLS LIMITED

A.W. Jenkinson Group company Berite is a miller of sawn timber and the manufacturer of 'Dormit' woodfibre, a high quality product that is used in all-weather equestrian gallops. For more information on Dormit wood fibre, please contact Harry Gordon on 07785 457 511, or email [beritewebenquiries@berite.co.uk](mailto:beritewebenquiries@berite.co.uk)

The Company's sawmill at South Cerney in Gloucestershire consumes around 20,000 tonnes annually of coniferous logs at its three acre site in the picturesque Cotswold Water Park.

Bark removed during the milling process then enters the A.W. Jenkinson Forest Products supply chain to be processed into top dressings and peat-free compost.





# Secondary Processing Outlets

## Landscaping and Gardening

A.W. Jenkinson Forest Products and its associated businesses process and blend a wide range of excellent value premium quality products for both the amateur and the professional landscape and garden markets. State of the art bagging and baling lines mean that this material can be packaged either under the Group's own brands or marketed through the major name retailers.

Growing media include nutrient-concentrated 'soil improvers' and environmentally responsible peat-free composts and top dressings. These natural products are composted in bulk from green municipal and arboricultural waste. Depending on the intended use of the product, varying levels of trace elements and bulking material made up of chipped green wood and bark can be added to the final screened blend.

The Group also processes a range of bark and softwood-based products for landscaping, footpath, mulching and play area applications. Again, these are sold in both bulk commercial quantities and bagged on behalf of large retail partners. The natural products provide a free-draining, resilient surface that enhance public areas and offer excellent cushioning under swings and climbing frames. A.W. Jenkinson Forest Products also has the facility to colour woodchips with environmentally friendly dyes for decorative use.



## Poultry Bedding

Poultry bedding is a specialist market supplied by A.W. Jenkinson Forest Products. The poultry-breeding industry demands a lighter and finer shaving than used in other markets and it is essential that the product is virtually dust free to prevent the respiratory conditions that can become prevalent with poor quality bedding.

A.W. Jenkinson Forest Products produces a cost-effective, chemical-free, biodegradable, softwood pine bedding with a natural antiseptic quality. In addition, the highly absorbent nature of the material keeps odour to a minimum, whilst enabling chicks to be reared from day one through to full maturity without need for bedding changeover. Improving animal welfare and reducing mortality rates, A.W. Jenkinson Forest Products poultry bedding is the perfect medium for use in commercial poultry sheds, as well as small-holdings and domestic hen houses.

As with most of the A.W. Jenkinson Forest Products bedding material, agricultural poultry supplies can be delivered in compressed bales or loose in bulk throughout the UK.







## Pet and Livestock Bedding

The A.W. Jenkinson Group are leading providers of a broad range of pet and livestock bedding products. In fact, A.W. Jenkinson Forest Products started life as a business in the 1960s providing wood shavings and sawdust to farms across Cumbria and the Borders. Animal bedding has continued to be an important part of the business ever since. The chemical-free, absorbent and biodegradable nature of wood fibre makes it ideal for use as bedding in cattle sheds.

A variety of bedding grades are processed, suitable for cattle and sheep as well as household pets. All bedding products are screened to ensure consistency of quality and processed to extract the dust that can cause respiratory issues. Whilst pet grade bedding marketed under both A.W. Jenkinson Forest Products brands and via major retailers' labels is normally supplied in bale or bags, bedding for horses, cattle and sheep is usually delivered in bulk. Agricultural and equestrian supplies can be delivered either in compressed bales for easy handling or loose by the full or part truck load.

A.W. Jenkinson Forest Products operates a dedicated bedding transport fleet that includes tippers, blower units and self-discharging 'walking-floors', as well as smaller 7.5 and 12 tonne vehicles, ideal for farm deliveries where access may be restricted.



## Gallops and Walkways

A.W. Jenkinson Group companies process, screen and market a range of high quality, sustainable dust-extracted green wood-based bedding fibre and wood and bark-based products especially for the equestrian market. Material is supplied in bulk in both easy-to-carry, weather and UV-proof compressed bales and loose form for larger-scale applications.


These natural, biodegradable, hypo-allergenic contaminant-free products can be used safely without risk to valued animals or the environment. Manufactured by Berite from sustainable UK softwoods, 'Dormit' woodfibre has been the front runner in premium quality equestrian substrates for 30 years. Excellent matting and compaction characteristics provide a firm, yet shock-absorbent surface that minimises training injuries. It is cost-effective, free draining, low-tracking and has a low dust content. It is the ideal choice for hard-wearing arenas, menages, gallops and walkways.

As well as UK-wide delivery to the most remote areas with our dedicated fleet of vehicles, A.W. Jenkinson Forest Products can also offer advice and guidance on material choice, volume requirements and construction of all types of equestrian surfaces.







An aerial photograph showing a wood processing facility in a rural landscape. In the foreground, there are large, dark, rectangular piles of wood chips or bark, some covered with black plastic sheeting. To the left, there are industrial buildings and a road. In the background, there are green fields with some cows, and distant hills under a clear sky. A semi-transparent text box is overlaid on the middle of the image.

Raw unprocessed bark arrives at A.W. Jenkinson Forest Products' Clifton site in Cumbria from a variety of forestry and sawmilling sources carried by the Group's fleet of specialist walking-floor, chipliner and tipper units. On arrival at A.W. Jenkinson Forest Products, material is loaded into an automated screening system which removes stones and both ferrous and non-ferrous metals (which are sold for scrap). It then separates the material into four grades; fines, small, medium and oversize. Fines enter the Group's high quality peat-free compost product stream, oversize material is re-chipped and has contaminants removed before being re-screened. Finally, small and medium grades of bark are loaded into Clifton's automated bagging and baling lines where they are packed in branded sacks for many of the UK's leading retailers.



**SLOOTWEG**  
MACHINERY ABRIEX  
Making the earth move  
[WWW.SLOOTWEG.COM](http://WWW.SLOOTWEG.COM)







## A.W. Jenkinson Forest Products Packaging

A.W. Jenkinson Group businesses utilise the latest Verville, T2 and Sloorweg automated bagging and baling and robot stacking and wrapping technology at their chip, bark and wood production sites. The high spec technology ensures rapid turnaround, maximum cost efficiency and consistency.

Typical of the packing operations, the Clifton lines can bag or bale any size from 10 to 125 litres, as required by its major name retail clients. This flexibility is combined with high packing speeds that mean as much as 1,000 tonnes can be bagged and stacked in a single shift.

Once packed, robot stackers palletise the material, with stacks going on to be wrapped into standard larger volumes for safe delivery. In total, the Clifton site can turnaround up to 9,000 tonnes per week - that's 450,000 tonnes per annum.





## Melcourt<sup>®</sup>

Industries Limited  
Proven • Safe • Sustainable

Melcourt Industries are widely recognised as market leaders and innovators in the provision of sustainable bark-based growing media, mulches, soil conditioners and composts, topsoils, play surfaces, biofiltration media, reptile bark and equestrian surfacing.

The Company uses natural, sustainably sourced UK bark and woodchip materials to manufacture its range of premium quality, competitively priced products, all fully compliant with relevant British and European specifications and standards – many of which Melcourt helped to develop. Many Melcourt products have also achieved stringent Forest Stewardship Council (FSC) certification, with some also approved by the Soil Association for use in organic applications.

Melcourt's Passionate Gardener and Landscape & Garden retail ranges are the only peat-free products endorsed by the Royal Horticultural Society and the Company leads the field in enabling professional horticulturists to move away from peat use with carefully formulated, proven products which are used successfully by an increasing number of leading commercial growers.









**Melcourt**<sup>®</sup>  
Industries Limited  
Proven • Safe • Sustainable



Melcourt process and market a range of premium quality wood fibre, mulches and associated products, marketed to both the public online and supplied in large volumes for local government amenities and for private horticultural and leisure applications.













Landscaping; construction; horticulture; play safety and sports field – AHS supplies it all. With a huge range of high quality products for many applications, AHS is now renowned throughout various industries as the go-to supplier for superior service, high quality and competitive prices. Not only that, but AHS also ensures its raw materials come from renewable or sustainable sources, with many of their products awarded FSC certification.

#### **A dedicated, friendly and convenient service**

Many organisations nationwide now view AHS as their one-stop-shop, enabling them to source everything they need with just one phone call. Customers of AHS benefit from the friendly convenience of having their own dedicated Account Manager at the end of the phone. This is really important to AHS, with the team taking it upon themselves to really get to know their customers, their businesses and their needs. By knowing the products their customers want and need, AHS's staff are able to help their customers save time and money by recommending products and best options to ensure they can complete their projects as efficiently as possible.

#### **Any order, anywhere, anytime...**

Paired with the logistics experience of A.W. Jenkinson Forest Products, AHS offers an unrivalled service, with the ability to deliver any size load, anywhere in the country in a very short time frame. Whether transported by A.W. Jenkinson Forest Products' walking-floors, or by a number of other vehicles drawn from the AHS fleet, customers can be assured their orders will be fulfilled professionally, reliably and cost-effectively.





## A.W. Jenkinson Forest Products' Penrith Site

A.W. Jenkinson Forest Products' Penrith site operates a flash drier at the start of its automated bagging line, significantly increasing the volume and quality of product processed at the site.

Once dried and blended, material is screened to remove the fine dust and separate sawdust and shavings. These are then packed using a high specification automated Willem's baling line, ready for robot wrapping and palletising in the preferred formats for the farming and equestrian markets.









## Sales and Distribution



In addition to sales to its large-volume customers in such wide-ranging sectors as paper and board production, horticulture and renewable energy production, A.W. Jenkinson Forest Products remains active in supplying on a smaller scale directly to amenity, agricultural and equestrian customers and the general public.

The Company was founded on the provision of bedding to the farmers of Cumbria, and today this remains an important revenue stream for the Group, which now provides a broad spectrum of livestock, poultry, equestrian and pet bedding products to customers across the UK from its Penrith production base.

Alongside A.W. Jenkinson Transport Ltd's large national articulated fleet, the Penrith Sales Team utilises smaller 7.5 and 12 tonne vehicles that are ideal for delivering palletised and bulk loose quantities of quality bedding products to the area's farms, stables and small holdings in a region that is characterised by narrow country roads and awkward access.

The Penrith site is also open to the general public. It is a popular and cost-effective centre for local people to purchase professional grade bark, woodchips and sawdust for use in gardens or for horse and pet bedding. Material can be collected or delivered in bagged, baled or in loose form.

A.W. Jenkinson Forest Products's dedicated fleet of small vehicles, trailer combination units and four axle vehicles has been specifically designed to enable delivery of bulk loose and baled shavings and sawdust to even the most inaccessible of sites.











Multi-Purpose Surfaces: A.W. Jenkinson Forest Products' woodfibre is used in a variety of locations, from golf walkways through to the use in a big cat enclosure. Blending naturally into its surroundings, the woodfibre offers the lions an additional texture to their grass and rock areas.













## Maintaining Industry-Leading Quality

A.W. Jenkinson Forest Products maintains a rolling programme of testing to ensure consistency of both raw material incoming to the Company and of that supplied by A.W. Jenkinson Forest Products to its customers.

Consistent moisture and blends are especially important in biomass fuels where water content, the blend of new and re-used material and the mix of hard and soft wood can all significantly affect the burn profile and so energy delivered, and the levels of deposits that build-up within the system.

■ **Coherent Testing:** In order to ensure conformity between the laboratories, all measuring equipment is calibrated on a six-monthly basis. The calibration procedure forms part of our ISO 9001 accreditation.

■ **Accredited Testing:** A.W. Jenkinson Forest Products also uses leading UKAS-accredited external testing laboratories for specialised analysis, including germination and growing trials of compost, heavy metal content testing and the calculation of calorific values for biomass samples.

■ **Moisture Content:** This is particularly important for biomass samples as boilers are designed to work most efficiently at a particular moisture level. The measurement of moisture content is a simple procedure which involves weighing a sample of material, drying it in a special oven; usually for around 18 hours; and then reweighing. Once reweighing produces a constant weight this indicates that all the moisture in the sample has evaporated and from this the original moisture content can be calculated. A rapid moisture meter is also available when a result is needed more quickly.

■ **Growing Media:** Testing of peat-free compost includes analysis of pH, conductivity and nitrate levels. Measurement of these three properties gives a good indication of compost performance in the garden. Whilst specialist media are produced for professional horticulture, a good multipurpose compost suitable for amateur gardening can be used for a range of applications, including germinating seeds, potting-on seedlings and for growing established plants. Conductivity and pH are measured using electronic probes, with nitrate levels tested using specially designed strips which change colour in response to varying levels of nitrate. To ensure consistency in testing, the colour change is accurately measured using a digital colorimeter.

■ **Particle Size:** An Endecott's sieve shaker is used to measure the particle size distribution of bark and biomass samples to ensure conformity to specification. A range of sieves are available with apertures varying from 0.5mm to 50mm. The combination and number of sieves used is determined by the specification of the material under test.









## PRODUCT UTILISATION

Wood has been man's most important renewable natural resource for hundreds of thousands of years. It is the fuel for our fires and was the raw material for our earliest tool making. Today wood remains an essential part of our daily lives. It is still the world's most widely used building material, forms bedding for our animals, is processed into the paper we print on and the furniture in our homes and is still a major fuel source; now on an industrial scale in the generation of environmentally sustainable low carbon heat and power.

Use of virgin timber can be categorised into 'Primary' and 'Secondary' streams. Primary utilisation of wood covers obvious applications, such as timber for sheds, fencing, furniture, packaging and construction. It also includes use of new wood broken down into raw fibre. This processed wood is used extensively in the manufacture of paper and cardboard, as well as 'Panel boards' such as Chipboard, MDF and Orientated Strand Board (OSB). These wood-based composite materials have an enormous range of applications, but are most commonly seen in the kitchen, bathroom and bedroom furniture in our homes.

Secondary utilisation comprises the use of the co-products generated during the harvesting and processing of virgin timber. A.W. Jenkinson Forest Products is a major consumer, processor and distributor of material generated during felling, milling and manufacturing of wood-based products in the form of off-cuts, chips, sawdust, shavings and bark. Bark and woodchips are used extensively for amenity, landscaping and gardening; shavings and sawdust for horses, livestock and pet bedding; and chip and bark for specialist applications such as natural filters and deodorisers.



# A.W. Jenkinson Forest Products in every day life







## A.W. Jenkinson Forest Products' activity at Lockerbie

A.W. Jenkinson Forest Products acquired land at the Steven's Croft Development Area just off the M74 at Lockerbie in the year 2000. At the time the adjacent site was occupied by James Jones Sawmills and Forest Garden. These two large sawmilling businesses were already associated with A.W. Jenkinson Forest Products, making the location an ideal choice for development in support of the Scottish timber industry.

Initial development saw the construction of LGV parking, a weighbridge, bulk storage building for sawmill co-products, a workshop and a driver rest building with toilets, showers and a canteen. On-site offices also accommodate admin and traffic staff. As the fleet grew, the bulk storage building was converted into a three-bay truck workshop manned by Volvo mechanics, with additional trailer servicing and fabrication capability provided by an A.W. Jenkinson Forest Products team. Today, Lockerbie operates and maintains 130 units, with vehicle refurbishment activities extending to service the entire fleet. The Group's walking-floor and chipliner trailers are also regularly overhauled here, ensuring they operate to the high standards expected by customers, required by the authorities - and demanded by A.W. Jenkinson Forest Products.

### Green Power Generation at Lockerbie

In 2005 Powergen (now E.ON) took control of a section of the Lockerbie site for the construction by Siemens of a revolutionary 44 Megawatt CO<sub>2</sub>-neutral biomass power station. Alongside the power station there is now a large-scale log yard and round wood chipping building, where new material is combined with pre-chipped biomass to achieve a final blend that meets the ideal specification to feed the station. The chipping building feeds directly into the power plant via an overhead conveyor.

A.W. Jenkinson Forest Products, which is responsible for supplying fuel to the site, has built a close working relationship with E.ON; a key factor in achieving maximum efficiency from the new facility. Steven's Croft has become a lynch pin in A.W. Jenkinson Forest Products' Scottish operations, collecting material from most of the sawmills in Scotland. The site also services other major biomass and panelboard customers across the North. The transport department makes extensive use of local drivers, providing a good source of employment for the Dumfries and Galloway area.











Strategically located on the M74 near to the major South West Scotland forestry areas, A.W. Jenkinson Forest Products' major transport and supply hub at Lockerbie lies in very close proximity to E.On's biomass power station and Forest Garden's key sawmill and production facility.









## RE-USE & RECYCLING

In the past, when wood product and structural timber reached the end of their useful life it was land-filled, dumped or worse still often burnt in an uncontrolled way with no thought for the wider environmental consequences of these actions. Today, with greater recognition of environmental impact, tighter regulation and control and the ever increasing costs associated with the limited remaining landfill availability, an increasing amount of material, including wood, is recovered, re-used or recycled.

Working in tandem with local authorities and in co-operation with local and national waste collection businesses and skip operators, A.W. Jenkinson Forest Products and its associated companies have developed the infrastructure and processing expertise to ensure that most wood that can be recovered and recycled remains within the supply chain as a valuable feedstock for new product manufacture.

Depending on the previous use, all grades of waste wood can be recycled: clean pallets, packaging and untreated timbers into new chipboard and animal bedding products: 'life expired' chipboard, MDF, OSB and chemically treated wood cleaned, screened and processed into environmentally compliant wastewood fuels for modern heat and energy combustion plants.

Similarly, the papermills have long recognised the value of recycled fibre pulp in newsprint and cardboard packaging production. The energy requirement for recycled paper production is significantly lower than that associated with primary pulping of virgin wood cellulose. This, combined with the UK's papermills recent conversion to biomass fuels for their heat and electricity, has dramatically reduced the use of fossil fuels and their overall carbon footprint.

Green waste generated from household collections, local authority recycling centres, public parks and gardens and urban tree surgery activities was yet another traditional and substantial contributor to landfill with few if any alternative disposal options. Today, A.W. Jenkinson Forest Products is leading the field in green waste composting operations, working to professionally recognised and independently audited standards for the production of consistently high grade composts and soil improvers. These green waste products, when blended with A.W. Jenkinson Forest Products' composted virgin bark fines, produce the ideal medium for both commercial growers and the home gardener.





A.W. Jenkinson Woodwaste Ltd estimate that as much as 2 million tonnes of domestic and commercial life-expired wood goes to landfill every year. This significantly under-exploited resource is generated by the construction and demolition sectors and life-expired pallets, packaging, furniture, panelboard and other types of manufacturing.

Historically, most of this timber has simply been incinerated or disposed of via landfill; options that were both extremely wasteful and expensive and that today are no longer acceptable.

Life-expired wood is a valuable and versatile commodity, ideal for the production of panelboard, for chipping and processing into pathway materials, cattle bedding, all-weather riding surfaces and mulches and as a low-carbon fuel for power generation.

The A.W. Jenkinson Group currently supplies all of these applications and sources and processes the majority of the UK's recovered and discarded wood.

A.W. Jenkinson Forest Products' mobile plant can be transported quickly between sites, reducing the need to transport material by road and enabling the company to react to specific customer requirements almost immediately.













The Hespin Wood facility is a major processor of green waste and life-expired timber. The facility located on the outskirts of Carlisle adjacent to the M6 utilises waste materials collected from Household Waste Recycling Centres (HWRC's) and waste management facilities, to produce high quality, peat-free compost and wood fibre products used extensively in the manufacture of panel board and as a biomass fuel in IED compliant power stations.









## A&A Recycling SERVICES LIMITED

A&A Recycling Services Limited makes valuable use of life-expired pallets and wood at its operating sites in the Midlands. The Company's activities play a valuable role in reducing the amount of virgin timber consumed for the making of new pallets by collecting damaged items from a wide variety of sources.

A&A Recycling Services Limited can process a wide variety of pallet types and sizes. On arrival, pallets are sorted to identify type and potential for refurbishment. Where the pallets are repairable, they are sold to pallet refurbishes. Irreparable pallets enter the site's RCF production stream with any liberated metals sold for further recycling.

Good condition wood, from otherwise irreparable pallets, is normally broken out to be cannibalised for replacement pieces for other pallets in generally better condition, with waste timber entering the sites' RCF production streams. Used nails are sold-on for scrap and remaining wood enters the Group's woodfibre product streams.



## Unprocessed and Pre-crushed Recycled Material

Unchipped material that has been collected from recycling and demolition operations is accepted by A.W. Jenkinson Forest Products for processing. Minimal contamination and the quality of the raw material are important. It should be noted that some treatments that have been previously applied to recycled material, such as creosote, can cause particular issues.

### Unprocessed recycled material supply guidelines

- Unchipped material must be free from all contaminants such as stone, soil, concrete and glass. Limited metal content such as nails and small fixings is acceptable. However potentially toxic treatments, contaminants and coatings must not exceed very limited levels and must be notified prior to supply.
- Care must be taken to ensure no items, such as returnable pallets and packaging, enter the supply stream.
- Material that has started to rot is not acceptable for biomass fuel and panelboard use, but may be accepted by A.W. Jenkinson Forest Products for other purposes.

## Recycled Fibre (Life-Expired Timber)

Recycled wood fibre is typically recovered from municipal and commercial recycling, demolition or from furniture making and joinery manufacturing offcuts.

### Recycled fibre guidelines

- Chipped recycled material must be free from soil, stone, masonry and concrete, plastic, metal, and any other contaminants. It must also be free of chemicals and oil contaminants (such as creosote) or any other potentially toxic agents.
- Material that has started to 'compost' is not acceptable for panelboard feedstocks and may have limited use as a biomass fuel.
- Sawdust content, known as 'fines', is acceptable as long as it is no smaller than 1mm in diameter and does not exceed 10% of the total by green weight. For this reason processing plant should be set up to generate minimal fines.
- Chip Sizes:  
Length 30-70mm    Width 10-40mm    Depth 5-25mm.
- Chipped material must not contain any large pieces exceeding 150 x 80 x 50mm in size.
- Ideal moisture range 20 to 25%.







**A Grade RCF:** A Grade is the highest quality of waste wood. This 'clean', low moisture material consists of waste, cuttings and shavings from solid wood in a natural state; and packing cases and pallets made from solid wood and cable reels with nails and other metal removed during processing. The high quality of A Grade fuel means it is suitable for use by non-Waste Incineration Directive approved facilities.



**B Grade RCF:** B Grade RCF is a low moisture fuel made up of waste wood from the construction and demolition sectors. As a result material is often contaminated with paint or other treatments. The shredding and recycling process separates out the non wood articles, such as metals and plastics.



**C Grade RCF:** C Grade recycled fuel is typically made up of waste reclaimed from kitchen refurbishment, discarded furniture and other wooded fixtures and fittings. It can include chip board and MDF as well as 'wood' and will also be contaminated with coatings, varnishes and glues. Processing during shredding separates out non-wood articles, such as metals and plastics.



**RCF Fines:** The shredding process inevitably produces fine material unsuitable for normal heat and power generation. These 'fines' are collected during the screening process and can be blended with other Waste Incineration Directive approved fuels, or delivered direct.









Operating out of Meare, near Glastonbury in Somerset, South West Wood Products was launched in 2011 as a joint venture of Nigel Dunn and A.W. Jenkinson.

Servicing the South West of England's recyclables market, South West Wood Products' activities are centred on the shredding of life-expired pallets and other waste wood into an important source of wood fibre. South West Wood Products' material is a key supplier to the chipboard manufacturing sector and biomass facilities located in the area.

The Company is one of very few UK businesses that is authorised to shred the well recognised blue pallets owned by Chep when they reach the end of their working lives. Unserviceable pallet timber and other reclaimed wood is processed into raw material for panelboard production and for use in modern, carbon-neutral power stations.





Operating from Meare, just outside Glastonbury, South West Wood Products processes large volumes of life-expired timber into a high quality raw material for the panelboard and biomass fuel sectors.







## Green Waste Composts

A.W. Jenkinson Woodwaste's Hespin Wood site is the first of a series of facilities responsible for recycling large quantities of domestic and commercial green waste into high grade growing media - playing a valuable role in cutting the carbon footprint, reliance on landfill and reducing the abstraction of peat from the threatened lowland heath habitats of the UK and Ireland. 'Green waste' is bio-degradable material made up of household and public sector garden waste and material from horticultural and arboricultural sources. Surprisingly, around a third of the average household bin is filled with green waste. Once destined for landfill, this valuable commodity is now processed into a variety of peat-free composts and mulches by A.W. Jenkinson Forest Products.

Green waste has long been 'recycled' at home by avid gardeners on the compost heap, but as gardens become smaller and free time ever-more limited, it has become the responsibility of recycling businesses to return the nutrients it contains to the soil in the form of high quality commercially produced soil improvers and Organic Green Composts, known as 'OGC'.

A.W. Jenkinson Forest Products has a large scale dedicated facility located at Hespin Wood just outside Carlisle which receives and processes green waste collected from across the Borders region into a high quality compost that meets stringent PAS 100 waste conversion standards. The site's 'windrows' can be seen steaming as the garden trimmings break down into rich black compost. This material is normally blended with composted fines screened out from A.W. Jenkinson Forest Products' bark lines to add body. The finished material is then bagged on behalf a number of leading retailers or supplied in bulk to professional growers.

## Blended Media

Blended Compost supplied by A.W. Jenkinson Forest Products is not merely rotted waste, it is a complex blend aimed at achieving the ideal growing medium. In addition to traditional mineral and chemical additives such as lime, phosphates and nitrates, a substantial amount of organic material in the form of bark is added to achieve the excellent body and water retaining characteristics for which peat was traditionally sought-after.

The bark element is made up of the contaminant-free 'fines' screened out during the production of the organic top dressings and pathway material which A.W. Jenkinson Forest Products supplies to leading DIY chains and supermarkets. This material is unsuitable in its raw form and is composted in huge quantities for eight to ten weeks prior to use in a dedicated area at the Group's Clifton Headquarters. During this period the bark is regularly machine-turned to ensure an even composting of the material.















Weeks 3 to 4



Finished Screened Product

## The Compost Production Cycle

A.W. Jenkinson Forest Products is one of the UK's leading manufacturers of high quality green waste 'soil improver'. The use of modern soil improvers plays an important role in increasing the quality of both professional and amateur growing media. At the same time their application cuts reliance on peat-based products, helping to meet government reduction targets, and recycling valuable organic waste that has traditionally gone to landfill.

- **Raw Material:** Green waste; collected from civic amenity sites, kerbside collection, professional horticulture and arboriculture sources; comprises green material such as grass and leaves and woody material ranging from prunings through to brash and small branches.
- **Weeks 1 to 2:** Green waste from a range of sources is blended to establish an ideal mix to achieve efficient composting and desirable levels of natural nitrogen, carbon and moisture. The material is built up into 'windrows' that encourage the decomposition process.
- **Weeks 3 to 4:** The green waste starts to break down with the aid of natural bacteria and the heat of decomposition. Leaves and other soft, green material are first to break down releasing moisture and increasing the rate of decomposition of bulkier material.
- **Weeks 5 to 6:** The material rapidly starts to develop the character of a high quality compost, becoming more uniform and darker in colour. Throughout the composting process, the windrows are turned to introduce oxygen to the heaps and ensure an even rate of decomposition.
- **Weeks 7 to 8:** As it nears full decomposition the green waste material develops the fine, loose texture characteristic of high quality composts. The final weeks of the process are carried out under cover in a maturation shed to maintain the composting process and control moisture content, ensuring the product retains its friability.
- **Final Screening:** Once the composting cycle is fully complete, the finished 'soil improver' is screened to ensure consistency of texture and particle size. Material can be supplied in bulk to professional growers and horticulturists, or packaged on A.W. Jenkinson Forest Products' bagging line at Clifton for amateur gardening applications.





## TRANSPORT AND LOGISTICS

Continued recent growth in the A.W. Jenkinson Transport Limited fleet has seen it become one of the largest operators in Europe, comprising primarily articulated units towing self-unloading walking-floor and chipliner trailers, combined with tippers and more specialised skeletal log wagons and low loaders.

A major consideration for every environmentally responsible business is transport efficiency. Transport and logistics is a core activity for the A.W. Jenkinson Group and the Company drives hard to ensure maximum efficiency from its fleet.

Every one of the over 1,200 vehicle movements each day is planned and controlled by A.W. Jenkinson Transport Limited's own highly experienced traffic team. Transport movements cover the entire UK and parts of northern Europe and are extremely varied, ranging from mountain top collections of forestry residues to deliveries of wood flake bedding to farms and chipped wood to Panelboard Mills and Biomass Power Stations.

European trade represents an increasingly important part of the A.W. Jenkinson Transport business, with some depots ideally located for fast and efficient access to northern Europe and beyond via the Eurotunnel freight services and Channel ports.

In addition to the extensive bulk logistics operation, the Group operates a wide range of other units that meet a variety of specialist requirements, including limited access deliveries, timber carrying and blown particulate transport.













## A.W. Jenkinson Transport Limited Fleet Maintenance

The Company's important operational sites at Penrith are home to a large scale vehicle maintenance unit which is responsible for the Company's substantial fleet.

The A.W. Jenkinson Transport fleet includes a range of vehicles and trailers that have been modified to meet the specialist needs of the Company. Much of this extensive fabrication work is carried out on-site by A.W. Jenkinson Transport Limited personnel. The in-house team are also responsible for the refurbishment and repair of the Company's extensive range of tipper, walking-floor, curtain-sided and chipliner trailers.

The Penrith sites are also home to substantial teams of Scania and Volvo-employed service engineers who are responsible for maintaining the fleet to exemplary manufacturer specification.



# A.W. Jenkinson Transport Limited Bulk Transport

**High Volume Trailers:** Bulk loose Material and Palletised Goods.

## Specifications

Overall Height	4.56m
Additional Loading Clearance up to	3.00m
Minimum Door Clearance (allowing safe door opening)	5.25m
Trailer Width	2.55m
Trailer Length	14.53m
Volume up to	111 <sup>3</sup> metres



**Walking-Floor Trailers:** Bulk loose Material and Palletised Goods.

## Specifications

Overall Height	4.20-4.50m
Additional Loading Clearance up to	3.00m
Minimum Door Clearance (allowing safe door opening)	5.25m
Trailer Width	2.55m
Trailer Length	13.60m
Volume up to	110 <sup>3</sup> metres



**Chipliner Trailers:** Bulk loose Material and Palletised Goods.

## Specifications

Overall Height	4.20-4.66m
Additional Loading Clearance up to	3.00m
Aperture Height (to pelmet)	2.69-2.99m
Minimum Door Clearance (allowing safe door opening)	5.25m
Trailer Width	2.55m
Trailer Length	13.60m
Volume up to	110 <sup>3</sup> metres



**Bulk Blower Unit:** Bulk loose Sawdust, Flake and Animal Feed transport.

## Specifications

Overall Height	3.93m
Min. Door Clearance (allowing safe door opening)	5.50m
Trailer Width	2.55m
Trailer Length	11.00m



**Urea-Based Resin Transport Trailer:** For carrying liquid resin, used in board manufacture.

## Specifications

Overall Height	4.20m
Trailer Width	2.55m
Trailer Length	13.60m
Resin Tank Volume	18,000 litres

Following discharge, the collapsible neoprene resin bag is quickly rolled up and stowed at the back of the trailer, leaving ample room for general freight; usually board collected ready for the return run from the mill.





## A.W. Jenkinson Transport Limited Bulk Transport

**Tipper Units:** Bulk loose Material and Animal Feed transport.

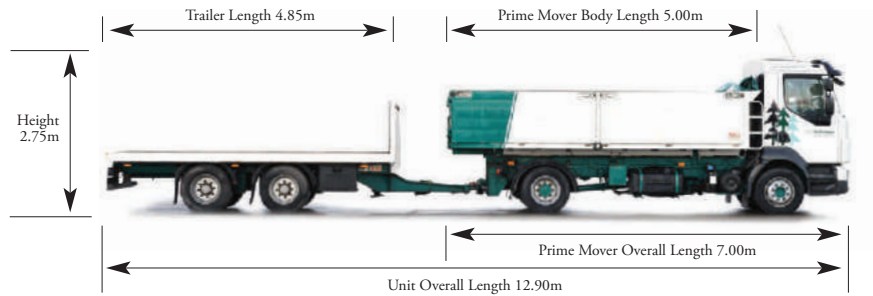
Specifications	
Overall Height	3.80m
Fully Tipped Height	10.87m
Min. Door Clearance (allowing safe door opening)	5.50m
Trailer Width	2.55m
Trailer Length	11.50m
Volume	57 <sup>2</sup> metres



## A.W. Jenkinson Transport Limited Specialist Transport

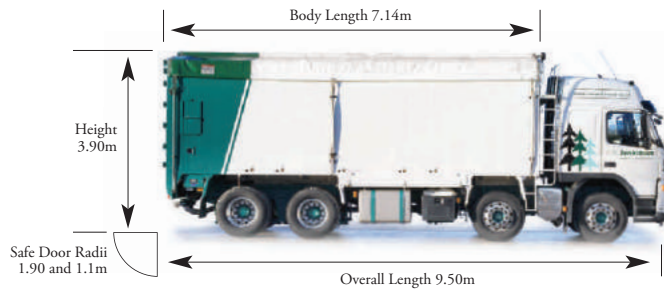
**Small Trailer Combination:** Bulk Baled and Palletised Sawdust and Flake transport.

Specifications	
Overall Height	2.75m
Overall Length	12.00m
Overall Prime Mover Length	7.00m
Prime Mover Body Length	5.00m
Trailer Length	4.85m
Width	2.55m



**Eight Wheeled Unit:** Bulk loose Sawdust, Flake and Animal Feed transport.

Specifications	
Overall Height	3.90m
Overall Length	9.50m
Min. Door Clearance (allowing safe door opening)	5.50m
Overall Width	2.55m
Body Length	7.14m



**CAT 2 Low Loader:** Transport of Heavy Plant and Machinery.

Specifications	
Deck Height	0.90m
Trailer Width	2.54m
Trailer Length	13.60m
Gross Train Weight	80 tonnes





# A.W. Jenkinson Transport Limited Forestry Support

**Mobile Chipper Units:** Cost-effective on-site chipping of brash, arboricultural arisings and waste wood.

**Specifications**

Maximum Throughput per hour	220 <sup>3</sup> metres
Power	397kW / 540 HP
Feed Table	2.18 l x 1.68 w m
Feed Table Aperture	0.75 h x 1.61 w m
440 rpm, 12 Blade Drum	1.05 ø x 1.02 w m
Blower	5.6m high, 20m discharge range
Transport Dimensions	8.25 x 2.55x 4.00m
Weight	31.5 tonnes
MAN-based unit featuring: 45, 60 and 80mm screen baskets; Hopper Extension; Automatic Feed Speed Regulation; Blower Discharge Pipe with Variable Blower Speed; Central Lubrication; Epsilon Wood Loading Crane; Wood Gripper; Remote Control.	



**Timber Crane Trailers:** Roundwood Forestry and Milling Co-Product transport.

**Specifications**

Overall Height	4.20-4.50m
Crane Max. Radius	9.60m
Crane Max. Loading at 9.60m	1100kg

Load Width	2.35m
Trailer Width	2.55m
Trailer Length	13.50m

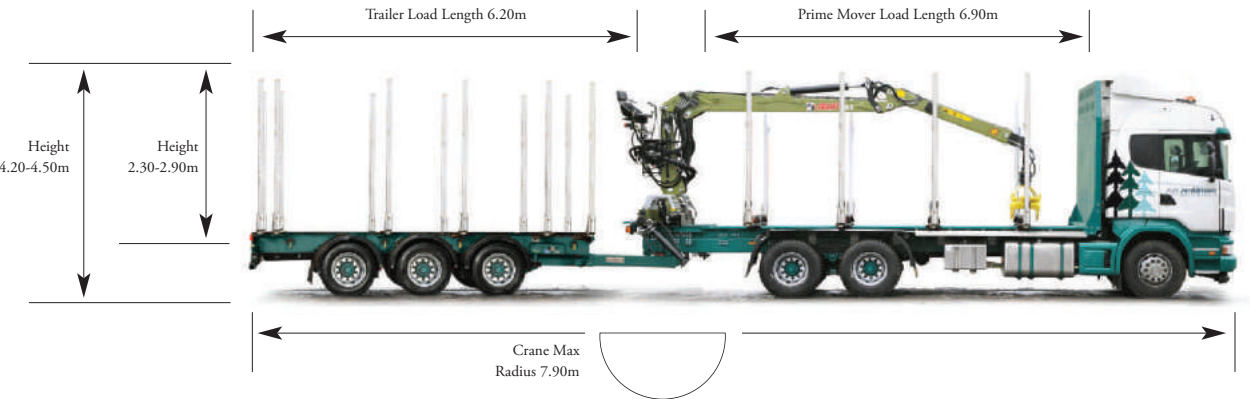


**Timber Crane and Drag Trailer:** Roundwood Forestry and Milling Co-Product transport.

**Specifications**

Overall Height	4.20-4.50m
Overall Length	18.00m
Crane Max. Radius	7.90m
Crane Max. Loading at 7.90m	1220kg

Load Width	2.35m
Prime Mover Load Length	6.90m
Trailer Load Length	6.20m
Width	2.55m















## MARKETING A.W. JENKINSON FOREST PRODUCTS

The Group has several stands at The Garden and Leisure Exhibition (GLEE) every year. This is the key event for UK DIY, leisure and gardening supply businesses. Forest Garden, the UK's leading manufacturer of treated timber products, fencing and buildings for the home gardener, maintains a large presence.

The Group is also present at the Recycling and Waste Management (RWM) Exhibition which showcases environmentally responsible waste and recycling products and services, promoting the Group to recyclers of a wide range of materials, specialist consultants and waste management companies.

Like the RWM show, the bi-annual Association of Professional Foresters' (APF) event provides an ideal opportunity to build new relationships with potential suppliers of raw materials to A.W. Jenkinson Forest Products; ranging from mill-grade roundwood to brash, bark, sawdust and fibre. The Group's success means it is constantly in search of new sources of material to meet the ever-growing demand from its customers.

The BETA International Equestrian Show is the world's leading trade fair for the equestrian, country and pet product sector. It provides an excellent showcase for the Group's leading Dormit gallop/arena surface, as well as its numerous pet, horse and livestock bedding products.

A.W. Jenkinson Forest Products and the Group companies actively promote their industry-leading products through a significant presence at the key exhibitions for the sectors in which the businesses are active.











## CORPORATE & SOCIAL RESPONSIBILITY

A.W. Jenkinson Forest Products and its associated companies are positive contributors to the communities in which they have grown and become successful. The Group companies are significant rural employers in areas where secure employment is in short supply. A.W. Jenkinson Group companies provide well-paid jobs in industries which play a positive role in reducing man's environmental impact through the use of renewable natural resources, recycling and the provision of low carbon biofuels. The businesses also provide financial support to the wider community through numerous sponsorships which benefit local people, as well as sponsoring major national industry-related events.

### **Newton Rigg Scholarships**

An important initiative developed between A.W. Jenkinson Forest Products and Newton Rigg Agricultural College near Penrith is now assisting students with their studies. In addition to a financial contribution, A.W. Jenkinson Forest Products is providing practical support and mentorship to six students studying forestry and forestry-related skills. This involvement builds on a long history of supporting groups of Newton Rigg students and other industry and public interest bodies with practical visits to the Company's wood products operations at Penrith, Clifton and Lockerbie. In fact, one of the students pictured below was awarded a work placement with A.W. Jenkinson Forest Products, and later full-time employment.





## Supporting the Community

**European Chainsaw Carving Competition:** The Company became a Main Sponsor of the European Chainsaw Carving Competition back in 2010. The continuing support of this event provides an excellent opportunity for A.W. Jenkinson Forest Products to raise its profile within the forestry and arboriculture communities which supply so much of its raw material. This major event draws large crowds and entrants from around the globe.

**Penrith RUFC:** A.W. Jenkinson Forest Products is well established as the Main Sponsor of Penrith Rugby Union Football Club. In addition to supporting this successful amateur team, their home games provide an excellent opportunity for corporate days where relationships with clients and suppliers alike can build and reinforced.

**Community Support:** A.W. Jenkinson Forest Products takes pride in supporting the communities local to its operational bases. Typical of this local involvement is the donation of Christmas illuminations and flower beds around the Company's home town of Penrith.

**Hospice at Home:** A.W. Jenkinson Forest Products actively supports Hospice at Home's Penrith Colour Run. The 2015 event held at Frenchfield Sports Centre was a great success, attracting over 700 participants who raised money and awareness for this important charity. A.W. Jenkinson Forest Products were proud to sponsor the 'Green' Colour Station, and a group of nine A.W. Jenkinson Forest Products volunteers gave up their Sunday to throw green coloured powder at the runners as they passed.

**Scott Brash:** A.W. Jenkinson Forest Products are now officially sponsors of Scott Brash MBE, the world's top ranked show jumper pictured right, whose achievements include Olympic Team Gold and Winner of the Global Champions Tour in both 2013 and 2014.

**The Jockey Club:** In Autumn 2015, A.W. Jenkinson Forest Products were made the Official Horse Bedding Supplier of The Jockey Club with our Natural Flake bedding product being supplied to Jockey Club racecourse stables around the UK. The Jockey Club is the largest commercial group in British horseracing, with assets including Cheltenham, Aintree, Epsom Downs and Newmarket race courses.

**The Gruffalos Are Coming:** To celebrate the fifteenth anniversary of the Gruffalo, the Forestry Commission England have commissioned 15 giant hand-carved Gruffalos. In support of the Gruffalo celebrations, A.W. Jenkinson Forest Products coordinated the transport of the carved wooden monsters to each of their final fifteen destinations hidden deep in the forests of England.

A.W. Jenkinson Forest Products's newly appointed 'Gruffalo Liaison Officer', Neil Simpson, has played a key role in the management and coordination of the operation, including making collections from the top-secret Gruffalo Headquarters and overseeing their welfare in transit - with a number of them finding their trip so relaxing that they had a nice snooze on the journey.

The vehicle selected by our Gruffalo Liaison Officer was one of A.W. Jenkinson Forest Products' Skeletal Timber Crane and Drag Combination Units which was suited perfectly to the job, with its ability to manoeuvre the Gruffalos into their designated positions through the forest tracks with ease thanks to A.W. Jenkinson Forest Products driver Stuart Gibson.









“I wouldn’t choose any other product than A.W. Jenkinson Forest Products’ Natural Flake woodshavings for my stable bedding. I can rest easy when I know my horses are comfortable in their beds.”

Scott Brash MBE, World-Class Professional Show Jumper







A.W. Jenkinson Forest Products sponsor a number of major equestrian events throughout the UK, including Bolesworth Castle Show, Penrith Show, British Show Jumping Area 14 and 14a and Aintree Equestrian Centre. Allan's daughter Katie plays polo for a club in Cheshire, whilst his eldest son Richard has a team of showjumpers. Both compete in the UK and throughout Europe. This direct involvement in equestrian sport plays an important role in promoting the Group's specialist bedding, arena and wood-fibre gallop products.





## A.W. Jenkinson Horticulture and Amenity Products

### Chipped Bark

The Group is the UK's largest manufacturer of chipped bark. Material is marketed under leading brand names, as well as being bagged for a number of major name retailers. Bark can also be supplied in bulk by the truck load for large scale applications. Standard grade chipped bark is used for walkway surfacing and as a weed-suppressing top dressing for flower beds in domestic, amenity and horticultural applications. Produced from material removed during the milling process, standard chipped bark is available in a range of sizes and grades to suit a variety of applications.



### Specialist Chipped Bark

In addition to their extensive range of standard bark products, Jenkinson businesses also process, pack and market a variety of specialist chipped bark products. These barks comprise products manufactured as soft surface dressings for play areas, ornamental material for decorative borders and premium quality chipped bark for pathways and top dressings, as well as a variety of coloured chips.

Coloured chip is dyed at A.W. Jenkinson Forest Products' Clifton site using biodegradable, environmentally responsible colouring; the dyes used are not harmful to animals or children, making them safe for use in play areas and public sites.



### Peat-Free Compost

Modern peat-free composts and soil improvers are based on the composting of bark and green garden and municipal waste. The high quality compost blend created is an ideal replacement for peat, the abstraction of which is considered a serious threat to the UK and Ireland's bog and wetland habitats. Supplied under group brand names, as well as bagged for a number of leading retailers, these composts are a positive alternative to peat, used widely both by amateur and professional growers. In removing this material from the waste stream, the manufacture of peat-free compost also reduces the demand for limited, expensive landfill space and the need for chemical fertilizers.



## A.W. Jenkinson Agricultural and Equestrian Products

### Sawdust and Wood Shavings

The production and drying, transport and marketing of sawdust and wood shavings are the foundation of the Jenkinson operation. Used extensively in farming and equestrian applications, sawdust and wood shavings offer the ideal winter bedding material for livestock sheds and stables. It is essential that contaminants are excluded and to that end shavings are produced from virgin coniferous roundwood and clean sawmill material.

Used as bedding for equestrian, livestock and domestic pets, sawdust is usually drawn from sawmilling operations to achieve the exceptional consistency and quality for which A.W. Jenkinson Forest Products is respected.



### Woodfibre

A number of businesses within the Group manufacture premium quality woodfibre for amenity and equine applications, including the leading 'Dormit' brand produced by Berite. Woodfibre is used extensively as a surface for gallops and equine arenas.

Manufactured from virgin softwood and supplied by the truck load, this product provides an ideal cushioned surface for training at all levels, professional and amateur. Group products are used by many of the UK's leading racing and show jumping stables, indeed many top race winners have benefitted from training on woodfibre surfaces.