

LEADING THE FIELD IN WOOD CO-PRODUCTS







Sawn Timber.

Fencing Products.

The Whole Tree

Hardwood or softwood, any species, all 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.











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.



AWJ and the Wood Cycle...

Hardwood or softwood, any species, all grades; A.W. Jenkinson 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. AWJ 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 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

AWJ 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 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, AWJ is fully equipped to provide onsite 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. AWJ's mobile operations ensures maximum recovery of the woodfibre availability and concentrates the forest products for greater transport efficiencies.

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 bio-diversity 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.

General Transport

Effective use of the AWJ 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 coordinated 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 CO₂ 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.

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Secondary Processing

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AWJ 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.

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

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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. AWJ 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

AWJ 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 addedvalue supply chain.

A&A RECYCLING SERVICES LTD

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 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 CO₂ into the atmosphere compared with our aging coal-fired power stations.

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 AWJ to produce 'peat free' growing media and soil improvers. This, when added to composted bark also processed by AWJ 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.

Allan Jenkinson's highly successful businesses work together with a number of part-owned organisations as a coherent whole; each member providing transport, raw materials or product that is used or marketed by businesses within the Group; minimising on-costs and maximising service to its broad spectrum of clients.

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INTRODUCTION

A.W. Jenkinson Forest Products was formed in the mid-1960s when founder, Allan Jenkinson, took the initiative in collecting unwanted sawdust from the mills around Penrith in Cumbria using a single tractor and trailer. He then transported the timber by-product to the area's farms where sawdust was, and still is, in great demand as a bedding product for cattle sheds.

This incisive, original approach with its positive environmental drive, has characterised the work of Allan and his team in the intervening years. At each stage of growth the business has identified a niche, fulfilled its requirements and then developed further to provide a better service than the competition. Soon, the locally available supply of sawdust was outstripped by demand and A.W. Jenkinson was working ever further afield. New opportunities opened up as uses were identified for bark in garden mulch and peat-free compost preparations. Waste wood is shredded and cleaned for board manufacture and, more recently, has become a key fuel for environmentally-friendly carbon neutral power stations.

Today A.W. Jenkinson Forest Products and its associated businesses handle over 2.5 million tonnes of roundwood, chips, 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 the world's dwindling resources.

The business' processing, trading and related services are underpinned by a large haulage and logistics operation, backed up by a modern fleet of more than 550 specialised vehicles. A.W. Jenkinson's organic growth has been founded on strategic development; listening to customers, identifying trends and then providing efficient, original solutions that fulfil the emerging demands of a series of fast-developing market sectors.



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Sustainable Forestry Operations

A.W. Jenkinson is a fundamentally 'green' business whose operations are closely focused on maximising the utilisation of commercial forestry resources, reusing lifeexpired 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 virgin wood utilised as part of the A.W. Jenkinson processing stores CO_2 during its growth cycle, producing oxygen as it grows and, unlike fossil fuels, releasing no additional CO_2 into the planet's carbon cycle when burned as biomass.

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 Forest Stewardship Council®

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

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 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.







Protects natural woodland



Provides important habitat for rare indigenous wildlife



Offers a popular public amenity

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Environmental Policy

The A.W. Jenkinson group of companies are professional and environmentally conscious organisations, which acknowledge the potential environmental impact of their operations.

The management and supervisors are responsible for the implementation of the Environmental Policy and for ensuring environmental issues receive full consideration during day-to-day operations. A core objective of the group is to minimise any environmental impact:

- By preventing pollution, reducing waste and ensuring, wherever practicable, that measures are implemented to protect and preserve natural habitats, flora and fauna.
- By considering the effects company operations may have on the local community.
- By taking action to eliminate or reduce, as far as practicable, any potentially adverse environmental impacts, including the assessment of all new plant, vehicles and operations for their compliance with best-practice environmental standards.
- By promoting environmental awareness amongst the company's suppliers, contractors and partners through the effective implementation of operational procedures.
- By seeking to work in partnership with the community by behaving in a considerate and socially responsible manner.
- By ensuring effective and expedient incident control, investigation and reporting.
- By requiring all employees and sub-contractors to cooperate and assist in the implementation of AWJ's environmental policies, whilst also ensuring that their own works, so far as is reasonably practicable, are carried out without risk to themselves, others or the environment.

A.W. Jenkinson Forest Products complies with all its legislative obligations and follows best available practice as set out by the UK Environment Agencies, the Health and Safety Executive and other relevant bodies.

As part of the company's commitment to maintaining the highest levels of environmental management, A.W. Jenkinson is currently working towards stringent ISO14001 environmental accreditation throughout its operations.

A.W. Jenkinson Forest Products takes all practical steps to ensure that potential environmental risks and hazards are identified and that effective control measures are implemented. Every employee is provided with the necessary resources, equipment, information, instruction and training to fulfill the requirements of these policies.

These policies and procedures are fully endorsed by Allan Jenkinson, and are regularly monitored and reviewed to ensure they remain effective, current and applicable to the company's activities.

A.W. Jenkinson's Clifton-based Environmental Team work closely with statutory bodies, customers and industry groups to apply benchmark standards of environmentally responsible policies throughout the group.



Environmentally Positive

- The A.W. Jenkinson group of companies have their roots embedded in a positive approach to the environment. They understand the need for effective environmental management and take a pro-active approach to achieving an environmentally sustainable production cycle. Materials such as household waste, recycled wood from civic amenity sites, reclaimed wood from building sites are all examples of resources which were often discarded or sent to landfill in the past. Today these valuable commodities are now incorporated into the manufacture of new products.
- Virgin wood 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 responsible.
- 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 trees to mature. Harvested roundwood is used as a raw material for sawmilling, papermaking, panelboard manufacture and for biomass energy generation.
- Compost produced by the company from bark and green waste is peat-free, helping towards the conservation of natural peat wetlands which have evolved over millions of years. The provision of an alternative to peat not only preserves the fragile heathland habitat, but it also ensures that the carbon it contains remains locked in, helping to mitigate climate change.
- A.W. Jenkinson supplies biomass fuel to power stations, supporting low carbon, renewable sources of heat and electricity generation. The Group works closely with its customers to meet the increasing demand for sustainable, low carbon products and services.
- By sourcing materials as close to utilisation as possible, A.W. Jenkinson minimises carbon emissions, road miles travelled and reduces costs. Information is collated on energy use and 'carbon miles' of incoming materials supplied to biomass customers, enabling them to fully comply with their sustainability reporting criteria to central government.



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.
- Company 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 company 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 sites is carried out by the company's dedicated in-house Maintenance Team.

Right: AWJ's highly qualified and experienced Health & Safety team are active across all areas of production, processing, transport and services.









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A.W. Jenkinson's Remote Processing Sites

Strategically situated in close proximity to key sources of raw materials, A.W. Jenkinson's 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, AWJ sets benchmark industry standards, whilst promoting and encouraging the best use of raw materials at every stage of the wood products life cycle.

AWJ Group Businesses





A.W. Jenkinson Forest Products acts as a focal point for all other interests within the Group. It is also the key transport supplier for its own activities and for the other AWJ companies. Additionally, the company is widely active 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 1966, AWJ'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. It is capable of processing around half a million tonnes of wood every year. This massive throughput is split between raw bark from sawmills and board mills, with similar amounts of wood fibre drawn from milling residues, low grade roundwood, forestry residuals and arboricultural arisings.



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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 operates facilities at Carlisle, and in Scotland at Bo'ness near Grangemouth, Glasgow, Ayrshire, Aberdeen and in 2012 moved into the old sawmill site at Kinnoir near Huntley. Company operations are centred on the recycling of waste wood as well as green waste, which is composted at Hespin Wood. The highly successful site just north of Carlisle is the first of numerous green recycling facilities currently in development.

Located close to large urban centres, these new sites will collect and process household and commercial waste, to produce high grade compost and recycled wood fibre for use in panelboard mills and as an effective dry constituent in blended biomass fuels for power generation.

Jim Butler Managing Director Tel: 01506 829 880 jim.butler@awjwoodwaste.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, meet with friends, play a game of pool or darts and generally have 'good craic'.

The easily accessible site provides 24 hour card fuelling, welcoming accommodation, a restaurant serving hearty, fresh food, meeting, games and events rooms, and a well stocked shop in addition to the allimportant 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 the company's Penrith transport centre. Originally purchased to guarantee local fuelling facilities and secure parking, the site now also provides additional storage and distribution capacity.

Dorothy Blyth Site Manager

Tel: 01768 860 790 dotb@awjtruckstop.co.uk







Located in the lush landscape of the upper Eden Valley, the Messrs 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 150 breeding females which calve down to high quality pedigree stock bulls. The farm also holds around 3,000 ewes; these Texel/North Country Mule crosses produce in excess of 5,000 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 companies to work on the farms has reaped rich rewards at a time when farming is a hard-bitten industry.

Nick Scholefield Estate Manager

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AWJ Joint Ventures





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 repaired and resold; 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.



Andy Garbett Managing Director Tel: 01827 722 300 www.aandarecycling.co.uk





Since the company's formation in 1991, AHS has built up a strong reputation for quality, efficiency and prompt delivery in the supply of an extensive range of barks, composts and associated products to the landscape industry.

The company's success draws on the sales strengths of Managing Director Nick Guest, combining them with the logistics experience of A.W. Jenkinson. This balanced approach allows the business to market and distribute nearly half a million cubic metres of landscape products sourced from across the UK and Europe every year; making AHS the largest bulk supplier of landscaping material in the UK.

Whether transported as 70m³ loads by A.W. Jenkinson's walking floors, or by a number of other vehicles drawn from the AHS fleet, customers receive deliveries within 48 hours of order.



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



BERITE

Berite Sawmills is a producer of sawn timber based at South Cerney, near Cirencester in Gloucestershire.

The company also manufactures and markets the 'Dormit' brand of woodfibre. This high quality virgin fibre product is one of the country's leading substrates designed for use in all-weather equestrian gallops and training arenas.

Each year the sawmill consumes around 20,000 tonnes of coniferous logs at its three acre site at the picturesque Cotswold Water Park on the main road between the M4 at Swindon and Gloucester.

Bark removed during the milling process then enters the AWJ supply chain to be processed into top dressings and peat-free compost.



Keith Thornley Managing Director Tel: 01285 860 781 www.berite.co.uk



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A.W. Jenkinson holds a substantial share in major sawmilling and garden products manufacturing business Forest Garden. The company is the UK's largest producer of sheds, fencing, arches, arbours, decking, decorative trellis, planters and pergolas.

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 chains, is based at Hartlebury in the Midlands, with sawmills also operating at Sennybridge in Wales and adjacent to E.ON's Steven's Croft power station at Lockerbie; a major transport and operations centre for A.W. Jenkinson.



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





Gloucestershire-based Melcourt Industries is a manufacturer and supplier of premium quality bark and high quality chipped wood and related woodfibre products.

Melcourt is one of the UK's leading producers of organic pathway, play area and equestrian surfacing materials, as well as peat-free mulches and growing media; supplying numerous large local authorities, top name stables, market gardens and nurseries.

The company's premium chipped bark is marketed extensively under the 'Melcourt' brand, as well as being packed as an 'ownbrand' for some of the UK's biggest names in retail. With a range of applications similar to standard chipped bark, the premium product is of greater consistency and higher quality, making it ideal for use in parks as a path dressing and as a soft layer beneath play areas; reducing the risk of injury.



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





South West Wood Products was launched in 2011 as a joint venture of Nigel Dunn Forest Products and AWJ.

Servicing the South West 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 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 GKN 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, carbonneutral power stations.



Tom Dunn Regional Manager Tel: 02920 523 440 www.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 20th 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 is intimately involved with the UK forestry industry both as a service provider and as a major consumer of its 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 transport including specialist flatbed low-loaders moving equipment to and from remote harvesting sites.

As the felling operations begin, AWJ 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. Whilst most vehicles carry chains for icy conditions, many are now fitted with central tyre inflation (CTI) systems which reduce damage to forest tracks, and minimise the impact on rural communities and the roads that serve them.

More recently AWJ, 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 arboricultural businesses, A.W. Jenkinson operates the latest 480hp Mobile Chippers, providing a broad range of on-site clearance and chipping services for forestry, tree surgeons and municipal parks departments.

The rugged self-contained units and associated support vehicles combine quick set-up and ease of access in confined sites; delivering high speed roundwood, slabwood, offcut, brash and whole-tree chipping using its large capacity in-feed. Oversized logs are dealt with utilising an on-board splitter.

Material can be contract-chipped to meet customer requirements, or alternatively can be extracted and processed by AWJ's skilled operators, who can arrange and co-ordinate the associated transport and logistics for direct delivery to the company's established markets across the UK.

A.W. Jenkinson welcomes enquiries from all types of arboricultural, forestry and municipal customers with a requirement for quick, efficient on-site chipping.

Please contact A.W. Jenkinson's Clifton Head Office: 01931 712 644 or email chipper@awjenkinson.co.uk







Mobile Chipping | Case Study

Working with a leading Cumbrian arboricultural contractor, A.W. Jenkinson delivered the on-site chipping and removal of an encroaching Leylandii hedge at a popular Art Gallery at Greystoke in the Lake District. The fast growing evergreens had become seriously overgrown, obstructing access at the gallery.

The tree surgeons felled the Leylandii hedge, generating over 90 tonnes of brash that needed to be broken down and removed from the site.

On-site chipping using one of A.W. Jenkinson's powerful mobile chipping vehicles significantly reduced the contractor's workload, eliminating the need for two operators to spend at least a week working with chainsaws and a standard small scale chipping unit. AWJ chipped the entire 90 tonnes in just one day, minimising the impact and disruption to the gallery and reducing costs.

A.W. Jenkinson's chipper team offered the experience, equipment and flexibility to coordinate operations, using the powerful, yet compact mobile unit to overcome limited local access and low level power lines to set up a safe working area at the location. The speed of the operation minimised noise for neighbours in the quiet hill village and the Gallery itself. Working within constrained working hours and following best practice Health & Safety procedures, the entire project was turned round within a working day, with the chipped material transported from site using an AWJ eight wheeler ideal for haulage on small country roads.

Upon completion, the material, comprising nine loads of chipped wood and brash was transported to A.W. Jenkinson's Clifton site where it was screened and processed for re-use.





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Forestry Transport

In recent years A.W. Jenkinson has been active in substantially increasing its forestry logistics capability to match the demands of the business and its suppliers. The company has invested heavily in building a significant fleet of units designed specifically for collecting logs directly from often remote, upland harvesting sites.

The Group now operates a number of timber crane trailers, rigid crane unit/trailer combination units and bolster trailers. The self-loading crane units are particularly useful at remote locations where roundwood can continue to be collected from the forest roadside after the high-speed mechanised harvesters have moved on.

Many of AWJ's forestry vehicles are fitted with 'Central Tyre Inflation'. CTI technology enables tyre pressures to be reduced automatically, increasing traction. This allows timber lorries to extend the safe use of many forest tracks built for seasonal or intermittent use during the harvesting phase. This system also helps to maintain the integrity of minor country roads during short periods of high volume traffic. Tyres are then re-inflated at the flick of a switch once back on metalled roads. In the ice and snow of winter, or particularly slippery conditions, tyre chains are also fitted.

AWJ has been proactive in developing logistics links directly between the major forestry sites and the Group's network of debarking, chipping and flaking facilities across the UK.





A.W. Jenkinson

A.W. Jenkinson is extensively active in the provision of forestry transport for many of the UK's leading growers. Pictured here, timber from Eskdalemuir travels out to a range of customers via the purpose-built timber haulage route, thereby removing heavy traffic from Eskdalemuir village and the rural public roads.

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A.W. Jenkinson

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Useful information for suppliers to A.W. Jenkinson

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 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 joint venture 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. AWJ'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 coproducts 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 AWJ companies. The low moisture material produced is an important additive that can be blended with virgin fibre to regulate moisture levels.



A.W. JENKINSON FOREST PRODUCTS

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WOOD PROCESSING

A.W. Jenkinson 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 AWJ in-house. The group also supplies material to other businesses across the full spectrum of wood processing interests for conversion into sawnwood, 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. AWJ 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 AWJ 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, AWJ 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 guarantees certainty of market and reliability of coproduct collection so that sawmills can maintain high volume sawlog throughputs and maximised production capacity. AWJ 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 is actively engaged in ensuring a constant flow of raw material arrives at papermills throughout the United Kingdom.

More recently, as British papermills have invested heavily in combined heat & power (CHP) biomass systems for their process steam and electricity, AWJ 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 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.





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 AWJ.



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 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.

AWJ 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, AWJ 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.

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Forest Garden is widely active across the domestic garden market, manufacturing fencing, arbours, sheds and seats for most of the UK's leading DIY retailers. Products manufactured by the company can be bought in over 1,000 of the country's top DIY multiples, garden centres and builders merchants under 'own brand' names.

A.W. Jenkinson holds a significant share in the garden products manufacturer Forest Garden. The company is the UK's leading maker of arches, arbours, decking, decorative trellis, planters and pergolas for the domestic garden.

Operating from three sites, the company's highly trained craftsmen manufacture a variety of market-leading products for the home gardener using pressure treated sustainable timber components supplied by Forest Garden's own sawmills in Scotland and Wales.

A large proportion of Forest Garden's products are pressure treated and carry a comprehensive 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 company has excellent environmental credentials. Every Forest Garden product is certified by the Forest Stewardship Council (FSC), ensuring that timber has been sourced from properly managed forests and controlled sources.












AWJ 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. 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 AWJ supply chain to be processed into top dressings and peatfree compost.



Secondary Processing Outlets

Landscaping and Gardening

AWJ 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. AWJ 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. The poultry-breeding industry demands and 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.

AWJ 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, AWJ 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 AWJ bedding material, agricultural poultry supplies can be delivered in compressed bales or loose in bulk throughout the UK.





Pet and Livestock Bedding

The AWJ Group are leading providers of a broad range of pet and livestock bedding products. In fact, A.W. Jenkinson 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 AWJ 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.

AWJ 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

AWJ 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 UVproof 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, AWJ can also offer advice and guidance on material choice, volume requirements and construction of all types of equestrian surfaces.

Raw unprocessed bark arrives at A.W. Jenkinson's Clifton site in Cumbria from a variety of forestry and sawmilling sources carried by the Group's fleet of specialist tipper, chipliner and walking floor units. On arrival at AWJ, 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.







AWJ Packaging

A.W. Jenkinson businesses utilise the latest Verville, T2 and Slootweg automated bagging and baling and robot stacking and wrapping technology at their chip, bark and flake 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.

Similar modern, efficient bagging and packing lines are also in operation at Penrith and at Melcourt in Tetbury.





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 leads the field in enabling UK horticulture to move away from peat use with carefully formulated, proven products which are used successfully by an increasing number of leading commercial growers.













Amenity Horticultural Services is dedicated to delivering a superior service and high quality products at the most competitive prices. AHS uses only raw materials drawn from renewable or sustainable sources, and is currently working towards achieving stringent 'FSC' certification for its quality hardwood playground chips.

AHS playground safety surfacings are high quality products suitable for use in playground and amenity areas, walkways, adventure trails and trim tracks. All the company's products are manufactured to British and European Standards. They are 100% natural, environmentally friendly and, when they come to the end of their useful life, fully recyclable.

AHS Direct

Amenity Horticulture Services builds on its years of expertise as a leading procurer, processor and supplier of landscaping and horticulture products with the 'AHS Direct' on-line mail order business.

Marketed under the AHS Direct brand, the company provides a range of high quality bark, woodchip, compost, soil improvers and horticultural products specially tailored to meet the needs of the more serious and discerning gardener and landscape designer.

Amenity Horticulture Services' already well-established professional supply infrastructure has enabled AHS Direct to supply a great range of high quality horticulture products via its website; backed-up by exceptional customer service and outstanding prices.









A.W. Jenkinson's 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 Willems baling line, ready for robot wrapping and palletising in the preferred formats for the farming and equestrian markets.

AWJ Sales and Distribution

In addition to sales to its large-volume customers in such wideranging sectors as paper and board production, horticulture and renewable energy production, A.W. Jenkinson 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 Jenkinson'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 hill 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'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.











Maintaining Industry-Leading Quality

A.W. Jenkinson 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 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 sixmonthly basis. The calibration procedure forms part of our ISO 9001 accreditation.
- Accredited Testing: A.W. Jenkinson also uses leading UKASaccredited 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 over; 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 & 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 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.



AWJ products in every day life

















AWJ activity at Lockerbie

A.W. Jenkinson 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, 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 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.

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 CO₂-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, 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's 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.









RE-USE AND 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 and its joint venture companies have developed the infrastructure and processing expertise to ensure that all 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 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 AWJ's composted virgin bark fines, produce the ideal medium for both commercial growers and the home gardener.

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Wood Waste

Estimates suggest that as much as 10 million tonnes of domestic and commercial life-expired wood goes to waste every year. This staggering amount of under-exploited resources is generated by construction, demolition, life-expired pallets and packing, furniture, panelboard and other types of manufacturing, as well as domestic waste.

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

Life-expired wood is a valuable, 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.

Despite these many applications, all of which are supplied by A.W. Jenkinson, currently as little as 25% of timber that is discarded goes on to be recovered and recycled. A.W. Jenkinson companies play a key role in the environmentally responsible reuse of Recycled Woodfibre, known as 'RCF'.

The Group's numerous sites across the UK consume a large proportion of the UK's recoverable timber, material that is sorted, processed and transported to end users ranging from panelboard manufacturers to farmers; gardening product retailers to the new generation of green power stations. A.W. Jenkinson's 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.













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A&A Recycling 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 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 transferred to the company's purpose-designed repair sheds for reconditioning.

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 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 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 is 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 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.

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

Servicing the South West 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 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 GKN 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.

Pictured: During the processing of life-expired wood into recycled fibre for a variety of applications, South West Wood Products utilises a team of specialist pickers to remove plastics, non-ferrous metals and contaminants, helping ensure the finished product is of a consistently high quality that is ideal for panelboard manufacturing.

Green Waste Composts

AWJ 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.

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 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 AWJ's 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 is not merely rotted waste, it is made up of a complex blend that is 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 AWJ 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.



Windrows are turned regularly to introduce oxygen and speed the composting process.









Finished Screened Product



The Compost Production Cycle

A.W. Jenkinson 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 desireable 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's bagging line at Clifton for amateur gardening applications.







TRANSPORT AND LOGISTICS

At any one time, a total of over 550 vehicles are in operation on behalf of A.W. Jenkinson, made up primarily of articulated units towing chipliners, selfunloading 'walking floors' and traditional tippers.

A major consideration for every environmentally responsible business is transport efficiency. Transport and logistics is a core activity for A.W. Jenkinson and the company drives hard to ensure maximum efficiency from its fleet made-up primarily of vehicles compliant with stringent Euro 5 emissions standards.

Importantly, incisive planning cuts empty running miles, whilst dispatch-todelivery distances are minimised though the use of a national network of local fleets and location of processing sites as close as possible to both suppliers and end users. Many recipients of AWJ material are also dispatchers of product; careful delivery timing enables many delivery trucks to leave site carrying loads of freshly made panelboard.

Every one of the over 1,200 vehicle movements each day is planned and controlled by A.W. Jenkinson's own highly experienced traffic team. Transport movements cover the entire UK and parts of 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.

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.

Pictured: A.W. Jenkinson takes an extremely positive and active approach to minimising carbon emissions, not just through its facility location choices and the re-use of biomass to produce lowcarbon fuels and other products, but also within its transport operations. Dedicated localised fleets minimise travel distances between collection points, processing sites and customer facilities, whilst road transport is all compliant with Euro 5 environmental emissions standards. The group is also currently carrying out extended testing of a number of the latest Mercedes Actros tractor units, these cutting-edge vehicles comply with the ultra-stringent Euro 6 standard that has been tabled for introduction in late 2014.



Articulated Units:

Centred on Volvo FHs and Scania Rs, the large A.W. Jenkinson articulated fleet is primarily twinned with the Walking Floor and Chipliner Trailers used for carrying raw wood, chips, sawdust and compost, with a number also towing the



Tipper Units:

Once the key form of transport used by A.W. Jenkinson for carrying timber co-products, today the company still maintains a fleet of tipper units. These vehicles are now utilised to meet the demands of animal feed transport and sites where restricted access precludes



Skeletal and Self-Loading Skeletal Trailers:

AWJ operates a number of skeletal log transporters. They have the excellent ground clearance necessary for forestry site collections and are often equipped with CTI for better traction. Many also feature trailer-mounted cranes, enabling them to self-load; an important advantage in first-moving felling operations where





8 Wheeled Units:

The smaller specialised eight wheeled units offer the manoeuvrability required for accessing farm sites, combined with a significant carrying capacity - allowing large volumes of flake and sawdust bedding material to be transported down even the



Small Trailer Combinations:

The fleet's small trailer combinations. The fleet's small trailer combinations service the needs of A.W. Jenkinson's farm clients. They are ideal for carrying palletised bales of wood flake in relatively small volumes to single farms as the requirement for additional livestock and equestrian



AWJ Low Loaders:

AWJ low loaders: AWJ operates a number of CAT 2 low loader vehicles for transporting heavy plant, machinery and forestry vehicles from site to site. The units, which are also available to transport third party loads, enable the company to achieve rapid response to the time-critical requirements of harvesting and processing.

















Transport Services to Third Parties

In addition to its own major logistics requirements, the A.W. Jenkinson operation has long built on its undoubted transport strengths to act as a haulier for a number of other businesses. These range from recyclable goods and road salt to panelboard, animal feeds and fertilizer; transport that demands the specialist capabilities, efficiency and impressive track record offered by the group's extensive fleet.

Road Salt Transport

Winter is an incredibly busy period for the famous rock salt mines in North Cheshire. Huge quantities of salt and grit are used on British roads as temperatures plummet; much of which is mined from the ancient deposits beneath Winsford. AWJ's substantial fleet of bulk tippers and walking floors offer the ideal transport resource for Winsford Salt Union. The company's proven logistics efficiency and delivery reliability has made it the long-term carrier for the mines.

Bulk Feed and Bagged Fertiliser Transport

The transport of feed and fertilizers from factory to farm was one of the first services provided by the A.W. Jenkinson transport operation. From the earliest days of the business, Allan's close personal links with the world of agriculture made this a natural association. Both feed and fertilizer can be supplied in bulk by the standard tipper load or using the company's specially bought bulk blown tippers. Alternatively material can be transported in bulk bags or as palletised loads of sacks using a variety of vehicles that are ideal for deliveries with the limited access typical of upland farms.

Recyclables Transport

AWJ's transport of environmentally friendly products is not restricted to its own chip, sawdust, bark and fibre. The company is a logistics provider for a number of leading recycling and reclamation businesses. Jenkinson regularly carries recycled tins using its chipliner fleet, and recycled paper, both caged and loose, using the walking floors that are ideal for the purpose.

Resin Transport

A.W. Jenkinson operates specialist urea-based resin transport trailers. The units feature a large 18,000 litre capacity collapsible neoprene carrier tube, securely harnessed in-place within a standard curtainsider. The urea-based resin is an important bonding agent used in the manufacture of panelboard. Once the delivery has been made, the tube is quickly and easily rolled up and stowed, leaving ample capacity for carrying finished board on the return journey.

Left: Shavings blown directly into AWJ trailers at a major sawmilling site.

Training, Safety and Transport Management

AWJ Driver Training

The company operates a large driver training facility and fleet efficiency and safety monitoring centre at Gilwilly, Penrith.

The two fully qualified DSA LGV instructors operating at the site carry out pre-employment driving assessments and deliver the company's Driver CPC training programme. New drivers who are judged to measure up to A.W. Jenkinson's stringent requirements undergo a two day induction to ensure they are fully aware of current rules and regulations, company procedures, health and safety issues and the special features of AWJ vehicles.

Driver efficiency is also monitored at Gilwilly. Every vehicle features on-board telematics which generate weekly driver efficiency reports. The in-cab technology can also be used to monitor fuel usage and emissions. Employees whose reports highlight the emergence of bad driving habits are advised on driving in ways that promote safety and fuel efficiency. Best driving practice is actively promoted through A.W. Jenkinson's graduated bonus scheme. The scheme is cash incentivised, with bonuses paid weekly to drivers who have surpassed agreed fuel efficiency levels.

The Gilwilly site also forms an important hub for the collection and analysis of vehicle safety and RTI data. This close monitoring enables the team to ensure drivers are conducting themselves in a safe and considerate manner on the road. Any driver who is causing special concern through the seriousness, or frequency of incidents they are involved in, is automatically entered into a programme of further assessment and training.

Safety and Compliance

A.W. Jenkinson employs ex-VOSA personnel to ensure that vehicles and drivers are fully compliant with the latest UK and European legislation governing road haulage.

Operatives are issued with a full complement of personal protective equipment. The company maintains a substantial stock of workwear in its dedicated stores, enabling prompt issue and replacement of items as required.











A.W. Jenkinson Fleet Maintenance













A.W. Jenkinson operates a fleet of Mercedes vans for maintenance and support services.

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 AWJ 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 AWJ 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.

Key Vehicle Specifications

Walking Floor Trailers: Bulk loose Material and Palletised Goods.



Chipliner Trailers: Bulk loose Material and Palletised Goods.



Tipper Units: Bulk loose Material and Animal Feed transport.



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



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



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



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



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

Specifications		Trailer Length 4.85m Prime Mover Body Length 5.00m	
Overall Height	2.75m		-
Overall Length	12.00m		
Overall Prime Mover Length	7.00m		
Prime Mover Body Length	5.00m	2.75m	
Trailer Length	4.85m		-
Width	2.55m		
		Prime Mover Overall Length 7.00m	>
		Unit Overall Length 12.90m	

Key Vehicle Specifications

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

Specifications

Deck Height Trailer Width Trailer Length Maximum Payload at Max. 50mph speed 0.90m 2.54m 13.60m 30 tonnes



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

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

Waste Wood Combination Unit: For the transportation of life-expired timber, broken pallets and waste paper.

			Trailer Length 8.30m	Prime Mover Load Length 10.00m	
Specifications			~		
Overall Height	4.42m	A			
Overall Length	18.30m				
Width	2.55m	Height	A & A RECECTURE SERVICES LTD. To CORPT FRENC File CORPT TRAT	A STREAM & SERVICE OF	
Prime Mover Length	10.00m	4.42111			
Prime Mover Capacity	38.2m ³		and the second second second second	A THE REAL PROPERTY AND AND A REAL PROPERTY AND A	
Prime Mover Tipping Height	7.16m				
Trailer Length	8.30m				
Trailer Capacity	30.6m ³		4		
Trailer Tipping Height	7.00m		Overall Length 18.30m		

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





A.W. Jenkinson currently operates over 550 trucks. On average more than 1,200 movements are tracked in real-time using cutting-edge in-cab GPS technology every day. Planning is centralised to three sites; Clifton HQ, Lockerbie and Tetbury; providing national logistics coverage from the South Coast to the forests of Northern Scotland. Working closely alongside A.W. Jenkinson's own fleet, the group also utilises support from a number of leading transport suppliers.





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 reclaimers and 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 AWJ; 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.

In addition the group is frequently present at major agricultural shows, such as The Royal Welsh Show which attracts almost a quarter of a million visitors to Builth Wells each year.

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A.W. Jenkinson 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. EYS

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RESPONSIBILITY

A.W. Jenkinson 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. AWJ 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. Typical of this support, in Penrith, close to the group's Clifton Headquarters, A.W. Jenkinson is the key sponsor of the local Rugby Union Team, supports a successful showjumping team and is a major sponsor of Penrith's Christmas lights and flower beds around the town.

Forestry Student Scholarships

An important new initiative developed between A.W. Jenkinson and Newton Rigg Agricultural College near Penrith is now assisting students with their studies. In addition to a financial contribution, A.W. Jenkinson 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.





Support in the Community

European Chainsaw Carving Competition

The company became a Main Sponsor of the European Chainsaw Carving Competition for the first time in 2010. The continuing support of this event provides an excellent opportunity for AWJ 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.

Picture opposite, bottom, Will Lee, the 2012 Champion proudly displays his trophy alongside the popular winning entry 'Three Bears in a Boat'.

Penrith RUFC

A.W. Jenkinson is also Main Sponsor of the Penrith Rugby Union Football Club. The successful amateur team's home games provide an excellent opportunity for corporate days where relationships with clients and suppliers alike can be forged and reinforced.

Community Support

AWJ 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.











A.W. Jenkinson Forest Products sponsor a number of major equestrian events throughout the UK. 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 close involvement in equestrian sport plays an important role in promoting the Group's specialist bedding, arena and gallop products.









AWJ 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's 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.

AWJ 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 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.















AWJ 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 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.

AWJ Sawn Products

Sawn Timber, Fencing and Sheds

A.W. Jenkinson'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.

AWJ 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.

AWJ 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.

AWJenkinson FOREST PRODUCTS

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