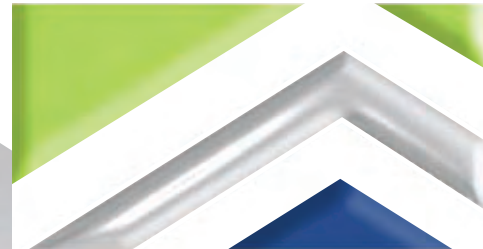




# AVbirch



## TIMBER ENGINEERING

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



AV Birch was formed in 1977, operating from premises in Bridgnorth and originally offering engineering services to the local industrial community.



Over the years the company has extended it's range to include manufacture of their own machinery for use in the Timber Engineering industry. This includes the manufacture of the Birch range of presses for the production of roof trusses, metal web floor joists and automatic truss stackers, together with all subsidiary equipment required. The Birch Table Press and Floor Beam Presses are extensively used and favoured throughout the industry and this has resulted in over 150 sales throughout the UK and Europe.

Our highly experienced and specialist team, based at our purpose built premises, includes skilled welders, fabricators, fitters as well as design, electrical, hydraulic, service and installation engineers.

We offer a full 24-hour breakdown service in the UK mainland and a 48-hour breakdown service into Europe and supply spare parts for any timber engineering machinery. Along with the manufacture and refurbishment work AV Birch are also the official service and installation engineers for Randek machinery in the UK & Ireland.

As well as machinery for the timber engineering industry and hydraulic presses, A V Birch Limited are general engineers, specialising in structural steelwork and fabrication of mild steel, stainless steel and aluminium, from light steel to heavy plate and section. We are capable of manufacturing large or small, bespoke or batch fabrications the highest standard and if required, can design and manufacture to the customers' specification and requirements.



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# Birch Standard Roof Truss Table Press

*Birch Roof Truss Table Presses are considered to be the most versatile Roof Truss Presses available in the market today.*



►► Fast set-up and manufacture for any truss configuration with Twin Head Pressing



►► All joints accessible for pressing

Easy controls, fast set-up times and production speed for any configuration of truss ensure maximum productivity regardless of the mix of truss shapes and batch quantities required.

Table length can be to suit any size of factory. The table can be used for storage of timber and plates to reduce handling time between pressing.

Table is plywood with steel plates at the heavily used ceiling tie area. Various width tables available.



►► Table can be used for storage of materials



►► Safety light beams fitted to press carriage.

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# Birch Apex Roof Truss Table Press

*Developed from the versatility and highly productive Table Press, the Apex Press is the latest Roof Truss Press.*



The Apex Press is designed to make working even easier and productivity higher. The 850mm high table allows operators to work at optimum height.

Combined with a reduced main table width with moving Apex tables, operatives can walk-in to place materials and set-up rather than having to stand on the table.

In addition, powered lifters push the truss out and clear of the timber stops for the operatives to effortlessly slide the truss off the table without any obstruction.

Reduced operator fatigue increases efficiency and productivity. Table length can be to suit any factory length.



▶▶ Powered Lifters to release Truss clear from obstructions



▶▶ Walk-In facility to allow closer working

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## Optional Automated Teach & Go Pressing

The Teach & Go option allows pressing positions to be stored on the first truss in a batch and other trusses will be automatically pressed without an operator.

A number of different truss types can be programmed into memory to allow different truss types to be pressed on the table at the same time.

- ▶▶ *Subsequent trusses in batch pressed without operator required*
- ▶▶ *Multiple truss types can be stored in memory*



## Optional Automated Truss Stacker



The Truss Stacker moves the truss Horizontally on powered rollers and Automatically lifts it to a vertical position creating a stack of trusses with no operator required.

The Automated Truss Stacker combined with an Apex Table Press gives maximum production with the minimum number of operators required.

- ▶▶ *No manual lifting required*
- ▶▶ *More production with less operatives*



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## Multi-head press

*The Multi-head press is ideal for large production runs. With simultaneous pressing of all heads together, the pressing time is just seconds. With fliptop design the heads clear to allow the truss to be lifted clear.*

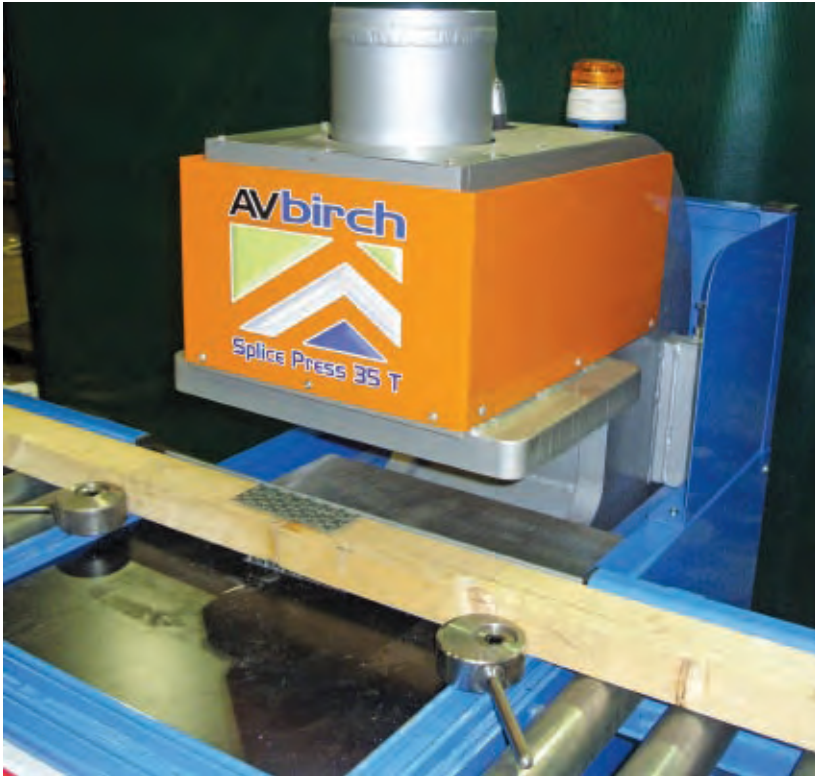


- ▶ Suitable for any larger truss batches
- ▶ Fast cycle times
- ▶ 8,10 & 12 Heads available
- ▶ Base Track up to 15m
- ▶ Walk through design

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## 35T Splice Press



Splice Presses can be used for splicing of roof truss chords prior to manufacture of the complete truss to speed up production times. Solid Timber Floor joists, rafters and hipboards and metal web joist chords can also be pre-spliced to improve production capacity and speed up on-site times.

- ▶▶ *Used for Roof Truss Chords, Metal Web joist Chords and Solid Timber Joists, Rafters or Hipboards*
- ▶▶ *Infeed and Run-Out rollers can be supplied*
- ▶▶ *Self Contained Hydraulic Unit*
- ▶▶ *Pneumatically Controlled Head – Forward and Reverse*

## Bespoke Machinery



Using our extensive knowledge of machinery we can manufacture or modify equipment specifically to particular customer requirements. We can also upgrade machines to have CE approval.

▶▶ *Joist Jig for Birch Table*

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# Uni-Roll Open Web Beam Roller

*The fastest method of manufacturing open web beams in a single workstation*

Very fast and efficient cycle times with webs and plates quickly embedded along the beam length.

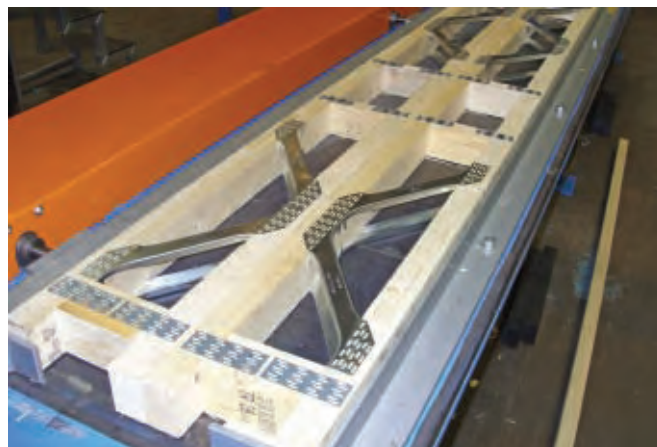
Rolling of plates and webs produces consistent and precise high quality beams.

Powerful mechanical clamping ensures beams are manufactured to exact dimensions and no pre-assembly of frames is required.



- ◀◀ “One Touch” remote controlled dual direction head for fast production times
- Safety photo electric cell sensors to protect operators
- Automatic stop into parking areas at both ends of table

- Beams can be pressed in pairs to ▶▶ increase productivity even further
- Different width tables available for wider beams or pairing together beams



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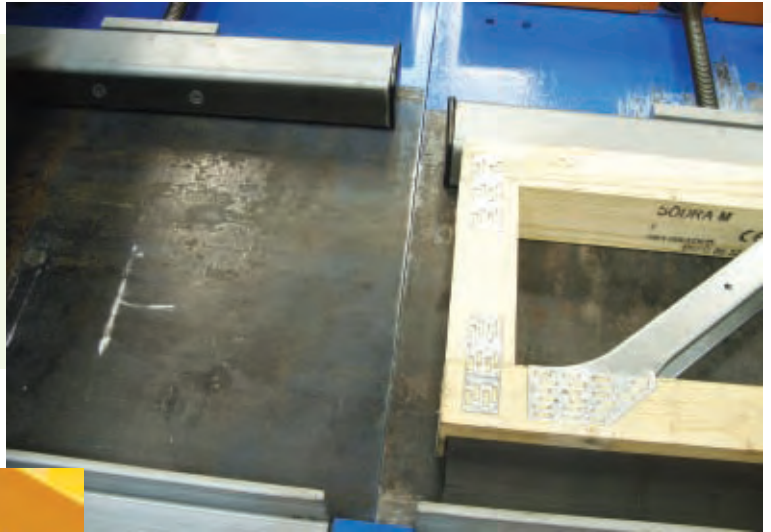


# Uni-Roll Options

**Split Clamping** option for manufacturing ▶▶  
different joists at the same time

Separate Clamping switches release  
one beam before the other, giving  
increased productivity

Both clamps can be used  
simultaneously for long span beams



◀◀ **Clamp Extensions** for larger timbers  
Can be used for timbers 122mm and larger  
Available in pairs for front and back clamps

**Web Storage Rack** allows the operator  
to have webs close to the working area



**Storage Shelving** available under  
the table

Used for storing spacers, columns,  
plates, tools and webs



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# Timber Live Decks & Unscramblers

*The Timber Live Deck transports timber to one or a number of saws.*



▶▶ Live Deck



▶▶ Live Deck

Timber is moved on powered rollers to the correct saw location. The powered Live Deck then feeds the timber to the saw parallel to the cutting position.

The operator can feed the timber to the saw at the requested speed.

The Unscrambler will sort timber from full or part packs into individual lengths before feeding them to the operator at the saw



▶▶ Unscramblers

- ▶▶ Minimises timber handling
- ▶▶ Can feed multiple saws
- ▶▶ Increased productivity with less operatives

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## Truss Trolley with Platform



- ▶ Integral platform to allow safe banding of trusses
- ▶ Optional higher ceiling tie supports for Raised Tie Trusses

## Standard Truss Trolley



- ▶ For safe stacking and moving of trusses in factory
- ▶ Supplied with Ratchet Straps for Safety

- ▶ For storage and moving of cross cut timbers from saws to assembly areas
- ▶ Sizes vary from 1500 x 800 to 3m x 1m, dependant on requirements

## Steerable Trolley



- ▶ Large trolleys for storage and movement of floor, wall and roof panels
- ▶ Eliminates the need for craneage to move panels throughout factory

## Component Trolley



- ▶ Heavy Duty Truss Trolley for moving and storing trusses using a fork lift or sideloader to pull the trolley
- ▶ 3m x 1m, dependant on requirements

## Cassette Trolley



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## AV Access and Lifting



►► Post Jib Crane

AV Access is part of the AV Birch group of companies. All of the equipment supplied by AV Access is designed and manufactured at the purpose built main group factory in Bridgnorth.

AV Access have successfully worked in the main industrial sectors including Rail, Aviation, Automotive, Production Engineering, Transport and Facilities Management. This specialist experience is invaluable for any lifting or access requirements in the timber engineering market.

We consider ourselves experts in solving HSE related access and lifting issues.



►► Platforms and Staircases



►► HGV Unloading Platforms



►► Gantry Cranes



►► Overhead Cranes

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# Servicing and Support

AV Birch offer comprehensive servicing and support for all types of timber engineering equipment throughout the UK & Europe using our own engineers.

We service, commission, repair and provide spare parts for all types of machinery including AV Birch, Gang Nail, Mitek, DePauw, EMS, EOT, Wilson, H&M as well as other presses and saws. Electrical work is also undertaken by our own in-house electrical engineers.



We are the Approved Installation & Service Agents for Randek Saws. With our own machining and fabrication facilities we can manufacture or repair any spare parts required with a very fast turnaround time.

With over 25 years experience in Timber Engineering we fully understand the importance of having our customers back in production as quickly as possible.



▶▶ Before Refurbishment of Machinery



▶▶ After Refurbishment

Our vast industry experience and specialist engineering facilities mean we are ideally placed to refurbish older equipment you may own or have purchased. This includes new parts, controls and safety systems.



▶▶ Spare Parts



▶▶ Machining of Components



▶▶ Servicing



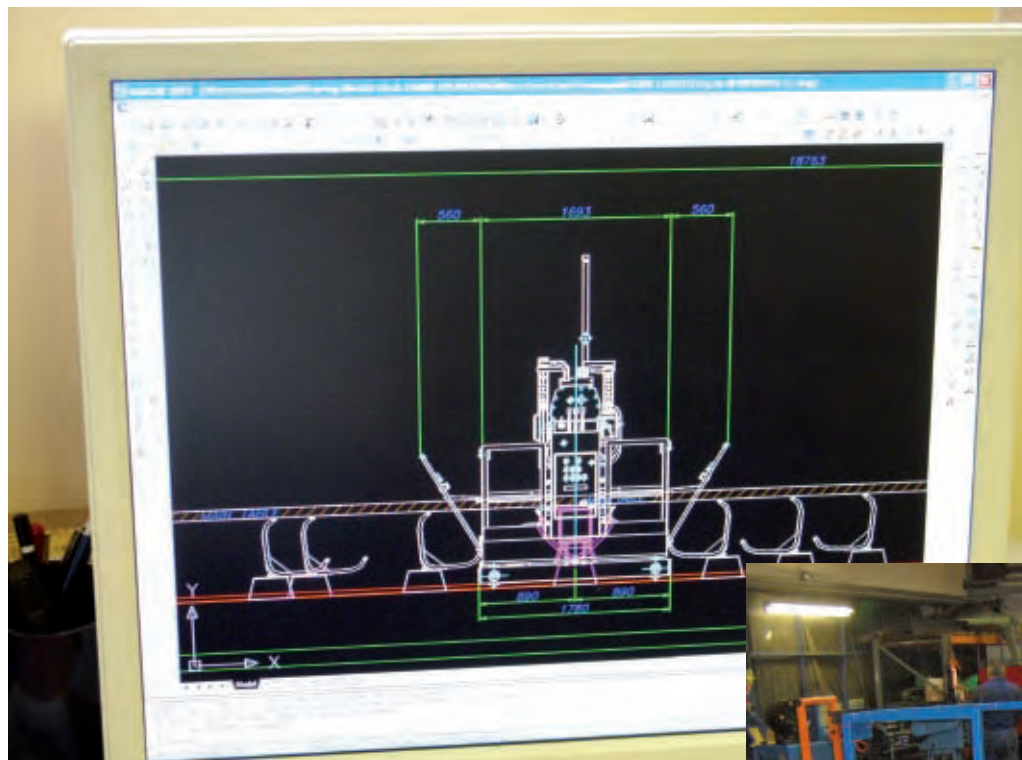
- ▶▶ Servicing throughout Europe.
- ▶▶ Maximum 24 hour response time for breakdowns in UK and 48 hours throughout Europe
- ▶▶ Servicing of AV Birch, Randek, DePauw, Gang Nail, Mitek, EMS, EOT, Wilson & all other Timber Engineering machinery

- ▶▶ Supply or manufacture of spare parts of all types of machinery
- ▶▶ Refurbishment of existing machinery.
- ▶▶ Moving of existing machinery.

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# Design, Development & Manufacture

All AV Birch machinery is CAD designed, developed and manufactured by our inhouse staff at our premises in Shropshire. Control of all stages of prototype and final production ensures that the best quality and most efficient machinery is built.



## ►► CAD Designed

All of our machinery is designed by our own in house design team



## ►► In-house manufacture of all machinery

All fabrication of equipment is at our purpose built factory.

## ►► Prototype manufacture and testing

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## Asset Finance

At a time when many companies want to invest for future increases in the market, and capital expenditure finance is difficult to achieve we can provide the services of a national Asset Finance Company whether it be HGVs, LCVs, Machinery or Equipment.

With many years experience in corporate asset finance, they can ensure our customers receive professional advice, a comprehensive service and competitive Interest rates, whatever the level of finance or asset you require.

### Finance products include:

- ▶ Hire Purchase Fixed / Variable rates / Finance Lease
- ▶ New Start Companies
- ▶ Contract Hire / Operating Lease
- ▶ Highest residual values
- ▶ Refinance for existing assets



Funding lines are in place with all major banks and finance houses. This ensures the lowest rates in the market place and a one stop facility for all your funding needs.

## Factory Layouts

We can offer full design and layout services for your factory. Using of wide ranging experience and knowledge we can offer the most efficient and productive factory layouts combining your existing premises, existing equipment and new machinery where required.



## We also offer Training Courses:



### Access Equipment

Mobile Access Tower Inspection  
Low Level Access Equipment  
Advanced Scaffold Inspection  
Haki Stair Tower

### BLMA Ladder & Steps

Safe use of Ladders and Steps

### Fall Protection & Prevention

Safety Harness Use & Inspection  
Fall Arrest Equipment & SG:4  
Roof Work Safety Appreciation  
Soft Landing Bags  
Safety Decking

### Health & Safety

Abrasive Wheels  
Manual Handling  
Health & Safety Awareness  
Passport to Safety

### IPAF Mobile Elevated Work

Platforms  
Operator Certificate  
Demonstrator Certificate  
Instructor Certificate



### Material Handling & Lifting

Forklift Truck Operator (novice)  
Forklift Operator (existing)  
Tele-handler Operator

### PASMA Mobile Access Towers

PASMA Standard Course  
PASMA Advanced Modules  
PASMA Combined work at Height and Low Level Access

### Scaffolding Tube & Fitting

Basic Scaffolding 1  
Basic Scaffolding 2  
Advanced Scaffolding

### System Scaffolding

System Scaffold Appreciation\*  
System Scaffold 2 Day\*\*  
System Scaffold 3 Day\*\*  
System Scaffold Inspection  
System Scaffold Stair Tower

Bespoke courses designed and implemented to your requirements



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# How to find us

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