Machinery Range

Company Overview and Services

Manual Seaming / Arrissing Equipment
UNIX XDIA       Wet Seaming / Arrissing Machines & Tables
UNIX AIRFLOW    Dry Seaming / Arrissing Machines & Air-Float Tables
BEST OF BOTH    Wet Seaming / Arrissing Machines with Air-Float Tables

Automatic Seaming / Arrissing Equipment
SEAMMAXXX PRO SOLO   Semi-Automatic Seaming / Arrissing Lines
SEAMMAXXX PRO       Fully Automatic Seaming / Arrissing Lines
SEAMMAXXX PRO 3     Fully Automatic Triple Belt Seaming / Arrissing Lines
SHAPESEAM PRO      Fully Automatic Shape Seaming / Arrissing Lines

Automatic Batch Building Equipment
BATCHMASTA PRO     Automatic Batch Building Systems

Insulating Glass Production Lines and Equipment
IG PRO             Insulated Glass Production Lines

Edge Deletion Equipment
EDGE DELETION PRO  Manual Edge Deletion Tables

Laser Marking Equipment
LASERPRO           Air Floatation Table Laser Marking Unit
LASERMARK PRO V4   Mobile Laser Marking Unit

Glass Washing Machines
HWM PRO            Horizontal Washing & Drying Machines
VWM PRO            Vertical Washing & Drying Machines
Founded in 1983 and now the world’s leading manufacturer of pre-tempering systems exporting over 80% of machinery to every corner of the world. All British heavy duty industrial engineering, designed for the professional glass processor. 24/7 reliability, standard and custom layouts, minimum labour plus maximum production.

- Manual Arrissing Machines (Wet & Dry Versions)
- Air Floatation Tables in unique High Float™ design
- Dust containment units for dry operations
- Castor Tables in Open Frame or Water Bath designs
- Laser Marking Systems in-line and off-line
- Edge Deletion Systems – manual and automated
- Fully Automatic Arrissing Lines
- Fully Automatic Shape Arrissing Lines
- Labour-free Furnace Batch Building Systems
- Robot Loading & Unloading Stations
- Horizontal & Vertical Washing Machines
- IG Production Lines for double and triple units
- Sealing Tables, frame conveyors, saws & fillers
- Georgian Profile Processing Equipment
- High speed heavy duty glass handling machinery for transporting, turning, rotating, flipping, tilting
- Shuttle conveyors for linking multiple lines

All designed and manufactured in the UK!

Our Services:
- Machinery Servicing and Spare Parts
- Technical Advice and Support
- Custom Machinery and Layouts
- Machinery Refurbishment & Testing
- Pre-Owned Machinery – fully overhauled and guaranteed to the highest levels.
Unix XDIA

Heavy Duty Wet Seaming Machines

Diamond Belt Wet Seaming
More than 1000 UNIX High Performance Seamers have been installed in tempering factories all over the world, many working 24 hours a day, year after year. Total reliability, virtually 100% up-time, is designed into this very heavy duty machine.

It’s one of the most critical pieces of equipment in your facility: If the arrisser is out of action, so is the furnace. Lightweight machines are a false economy.

Manufactured from 10mm thick steel plate, and with no moving parts inside the machine: All bearings, drives and tensioners are mounted OUTSIDE the machine body, away from abrasive glass slurry.

Table Choices
Standard table size is 4.8 x 2.0m, consisting of 2m sections either side of the arriser, and a quick-remove central section for maintenance access.
Open frame tables feature castor balls mounted on aluminium cross members and stainless steel legs.
Water-Bath tables have castors that rinse themselves as they turn, semi-submerged in water inside aluminium channels.

Watch the video....
Visit www.ashton-industrial.com click on Video Library, then Manual Arrissing Machines to see the system operating!

OPTIONS that can be specified include:

- Benching roller for easy loading
- Stainless steel recycling tank & pump unit.
- Sliding castor bar support for long & narrow glass lites.
- FILSTAR ™ super-hydrocyclone filter to remove 90% of solids from recycled water
Unix Airflow

Heavy Duty Dry Seaming Machines

Heavy duty design based on the world renowned UNIX arrissers

- Main bearings, drives and tensioners mounted outside the 600kg machine chassis away from abrasive glass powder.
- Designed for total 24 / 7 reliability, even in the harshest operating environments.
- Back-rollers close to the point of grind to minimise belt twist.
- Super-efficient air float table, waterproof wipe-clean surface, alu/stainless steel frame.
- Maximum throat enclosure for efficient dust containment.
- A clear front visor ensures full operator safety combined with complete visibility.
- OPTION: sliding castor ball support bar in the operator cut-out prevents long narrow glass sagging when passing across the operator cut-out.

Watch the video....

Visit www.ashton-industrial.com click on Video Library, then Manual Arrissing Machines to see the system operating!

- A range of standard table sizes available to suit the maximum glass size.
- Minimum glass size down to 150x150mm
- Custom layouts & sizes
Unix ‘Best-of-Both’

Heavy Duty Wet Seaming Machines combined with Air Floatation Tables

Diamond Belt Wet Seaming with Air Floatation

The world’s first combination of floatation handling with the heavy duty UNIX manual seamer /arrisser using wet diamond grinding belts for the finest quality finish.

As with our standard manual seamers, the chassis is manufactured from 10mm thick steel plate, and with no moving parts inside the machine: All bearings, drives and tensioners are mounted OUTSIDE the machine body, away from abrasive glass slurry.

Table Choices

Air floatation table in standard table size is 4.9 x 1.8m, consisting of 2m sections either side of the seamer, and a quick-remove central section for maintenance access.

Additional tables can be added or special ‘walk-through’ supports incorporated into the layout to allow oversized pieces to be processed.

Watch the video....

Visit www.ashton-industrial.com click on Video Library, then Manual Arrissing Machines to see the system operating!

OPTIONS that can be specified include:

- Benching roller for easy loading
- Sliding castor bar support for long & narrow glass lites.
- Walk Thro’ castor supports for oversize lites
The latest innovation from seaming experts Ashton Industrial provides a perfect and very affordable stepping stone for moving from manual seaming.

Using the proven technology of our high speed fully automatic seaming lines, so successful throughout the world for two decades, ASHTON INDUSTRIAL have developed an ingenious new configuration, a layout that offers customers the perfect entry into automatic seaming.

SEAMMAXX-PRO SOLO™ is constructed from the same individual stations as its bigger brother, the SEAMMAXX-PRO™ fully automatic high speed lines that can process up to 7 random size lites a minute.

Instead of two fully automatic arrissing stations linked by transfer conveyors, the SOLO concept uses just one fully automatic station and special software that allows it to process all 4 sides of any glass.

It can be specified for glass sizes as big as 5m x 2.8m and handles minimum dimensions as small as 150mm. The output capacity depending on glass size, averages around 2 lites a minute.

How it works....

1. Glass is loaded from a rack or direct from breakout, on to castor balls, and positioned against a side datum of free running wheels. A foot pedal START signal is given.

2. The castors retract and the glass moves forward on driven belts: the moving arrisser automatically sets itself within seconds to the glass size.

3. The glass passes through the arrissing station and both short edges are simultaneously processed. It exits on to a dual direction conveyor, which then reverses the glass at high speed back to the loading table, where the castors lift to allow the operator to turn the glass 90 degrees and press the START signal again.
SeamMaXX Pro

Fully Automatic Seaming

Newest Generation Fully Automatic Seaming

The new SEAMMAX-X PRO is possibly the fastest seaming/arrissing line in the world, producing a 1 m² lite fully processed on all 4 edges, top and bottom, every 8 seconds. Lites as big as 5 m² take barely 15 seconds. And yet the space it needs is smaller than ever before. The pictures and diagram here show fully automatic seaming, lasering, batch building and washing in an area barely 9m long. The true footprint of most vertical systems is twice that.

Vacuum belts hold down the glass on all 4 edges during grinding – absolutely no contact at all with the upper coated glass surface.

Glass handling and labour costs between breakout and tempering are eliminated. The breakout operator simply slides glass directly into the SEAMMAX-X PRO... the rest is totally automatic right through to the finished tempered product.

Smallest ever footprint. Basic layout space requirement is less than a simple double edging line. L-shape, U-shape, Z-shape, straight line & custom layouts.

GENUINE 1 YEAR PAYBACK ON 3-SHIFT OPERATIONS !

Watch the video....

Visit www.ashton-industrial.com click on Video Library, then SeamMaXX Pro to see the system operating!

- Maximum glass size option > 6m (236”).
- Minimum size 150mm (6”) as standard.
- Options of on-line laser marking, edge deletion, triple-belt, batch building, robot load/unload.
SeamMaXX Pro-3

Triple Belt Fully Automatic Seaming

The ultimate in pre-tempering technology, SEAMMAXX-PRO-3™ grinds the flat glass edge at the same time as performing upper and lower seams with no additional handling and no cycle time penalty. Using a wet diamond belt design adapted from our well proven TRIPLE-X™ 3-belt version of manual seamers, raw cut glass edges are smoothed as each lite enters the cross belt seaming stations, creating a superior fully ground, flat edge & double seam finish. This option can be simply switched off at the touch screen for selected production runs where traditional seamed glass is sufficient.

As with all SEAMMAXX-PRO™ versions, random mixed sizes direct from optimised cutting are processed at speeds up to 7 lites a minute.

A fully ground edge means
• Even less risk of quench breaks than before
• Safer handling both in the factory and for downstream customers
• Higher strength, both for tempered and laminated glass applications
• Possible new markets like refrigerator shelving, shop counter dividers, louvre-blade windows
• Better aesthetics, and a great incentive for your customers to stay.

All the usual SEAMMAXX-PRO™ options can be added according to individual wishes, including fully automatic load batching for the furnace, on line laser marking, on line edge deletion and special handling options like tilting, turning, pivoting and lifting to create bespoke layouts to suit almost any floor space.
ShapeSeam Pro

Fully Automatic Shape Seaming

Fully automatic high speed processing of any flat glass shape, truly random loading in any sequence, absolutely no pre-programming of shape, size or thickness.

Maximum 4 x 2.5m (155” x 100”)

Straight line, L or U Layouts

Smaller footprint than most vertical systems.
Automatic Batch Building System

System to automatically batch lites after seaming, prior to tempering.

The batching system fully automatically measures each glass as it passes through the system and logs the size data in its PLC controller. It then builds those lites into rows, and arranges the rows one behind the other, until full bed loads are ready. Totally random mixed sizes, for example from an Ashton SeamMaXX Pro Seaming line, are arranged into such multiple-row batches and transported directly on to your furnace load conveyor with absolutely no manual intervention.

The same PLC control system determines and maintains your preferred gap between each lite or row.

When it calculates that the next lite will not fit in a row, those lites already in the row are automatically centred to the conveyor’s width, and the whole row moves forward. That next lite then becomes the first in a new row.

This unique and highly effective system of automatic batching not only saves manpower it also greatly reduces the number of lites rejected due to manual handling errors like chipped edges, fingerprints and scratches.

Each system is designed and built to individual customer specification normally preceded by an Ashton Seaming line, however we are able to supply systems that can be fed from alternative seaming solution with no glass data transfer required.

Watch the video....

Visit www.ashton-industrial.com click on Video Library, then BatchMasta to see the system operating!

• Super-efficient precision automated handling & repeatability.
• Low investment with incredibly fast payback time
• Saves labour, eliminates fingerprints, reduced rejects = increased yield
• Removes risk of personal injury and safety issues associated with manual handling
IG Pro

Insulating Glass Production Lines

Heavy Duty Insulating Glass Unit Production Lines and Equipment

For more than 20 years, ASHTON INDUSTRIAL has manufactured heavy duty IG lines designed for high performance operation in multi-shift production. With a capacity of 2 units per minute, that’s way over 10,000,000 units from lines still in full operation after all those years.

Robust. Easy maintenance. Maximum uptime. Fully automatic assembly and pressing of rectangles, shapes, steps, regardless of glass size, thickness or unit cavity.

Watch the video.... Visit www.ashton-industrial.com click on Video Library, then Insulating Glass Lines to see the system operating!
Fast, efficient and clean deletion of soft coatings on glass.

A highly efficient deletion wheel is driven by a powerful three phase motor, and mounted on a specially designed cam arm which pivots to adjust to all glass thicknesses without manual adjustment. Wear of the deletion wheel is compensated by a hand wheel, and there is adjustment provided for different deletion wheel widths. An optional vacuum unit under the table collects dust from the deleted glass edges.

- High powered built in fans provide a high and easy floatation of glass over the precision machines table top, made from easy-clean engineering plastic sheets.
- Simple to use, any unskilled staff can be trained in a matter of minutes
- Standalone precision compact units also available with either castor ball tables or for mounting on existing tables.
- Option for adjustable head position to provide wide band edge deletion up to 100mm.

Watch the video....
Visit www.ashton-industrial.com click on Video Library, then Manual Edge Deletion to see the system operating!

- Fully adjustable in all axes.
- Standard wheel widths of 3/8” & ½”
- Vacuum extraction options.
Laser Pro

Laser Marking Table

Standalone Air Floatation Table with High Performance Laser Unit

Powerful 30 Watt High Resolution DOMINO D320i high performance industrial carbon dioxide laser marking system, incorporated into a compact air floatation table. With lower shelf to accommodate controlling hardware, and mounting brackets, guarding and electrical integration.

HMI touch panel for logo design and parameter settings, the position of which can be changed to suit the application.

WINDOWS-based software for simple creation and marking of logos & standard texts, also 2D Matrix Codes; it can add incremental numbering to each glass, or pick up alpha-numeric code, text, or variable logos from an existing glass optimising program. Machine-readable and Human-readable coding can be specific for each piece of glass.

- Full CE laser guarding and shielding
- For glass thickness 2-19mm.
- Automatic firing for rectangular corners, manual firing for shapes.
- Height adjustable for levelling to your existing bench.
- Fully guarded to the latest standards.

- User friendly graphical interface.
- Free-programmable logo designing, up to 999 stored designs.
- Sequential numbering, date & time marking.
- Serial numbers and batch codes.
- 2D data matrix codes and bar codes
- Logos and graphics more complicated European and Asian characters.
LaserMark Pro V4

Mobile Laser Marking Unit

Standalone Compact Mobile Laser Unit

Powerful 30 Watt High Resolution DOMINO D320i high performance industrial carbon dioxide laser marking system, incorporated into a specially designed stainless steel mobile unit that can be positioned to any processing station in your factory and simply plugged in ready to run.

HMI touch panel for logo design and parameter settings, the position of which can be changed to suit the application.

Mounting kits available for horizontal and vertical applications, mobile version complete with wheels, slim-line mounting version for direct connection to an existing table or custom fit option to suit your application

- Can be wheeled up and plugged in at any table or bench.
- Reversible design allows change from left to right hand.
- Can be mounted horizontally or vertical with the optional mounting kits.
- Automatic firing for rectangular corners, manual firing for shapes.
- Height adjustable for levelling to your existing bench.
- Mobile, just requires power and air supply.
- Fully guarded to the latest standards.
- Optional air conditioning unit.

- User friendly graphical interface.
- Free-programmable logo designing, up to 999 stored designs.
- Sequential numbering, date & time marking.
- Serial numbers and batch codes.
- 2D data matrix codes and bar codes
- Logos and graphics
- More complicated European and Asian characters.
HWM Pro

Horizontal Washing & Drying Machines

High Performance Compact Horizontal Washing Machines

A range of high speed compact horizontal washing machines constructed fully from stainless steel, aluminium and modern engineering plastics.

- Machine chassis manufactured fully in stainless steel.
- All transport rollers manufactured from stainless steel with moulded nitrile rubber tyres.
- Transport drive via a stainless steel worms and brass gears.
- Standard machine incorporates:
  - Run-in conveyor 690mm (27”)
  - Pre-wash section.
  - Two wash sets fitted with high quality brush rollers suitable for Low-E glass
  - Single drying zone allowing transport speeds up to 6M/Min (20ft/Min)
  - Optionally a second drying zone allowing transport speeds up to 12M/Min (40ft/Min)
  - Drying fan with sound absorbing cover
  - Motorised lift of top frame.
  - Run-Out conveyor 1500mm (59”)

Available in standard widths from 1.3M(51”) to 2.8M(110”) wide.

Option available:
- Additional pre-spray section
- Additional brush sections
- Extended run-in and run-out conveyors
- Gantry mounted fan assembly
- Reverse Osmosis water treatment units.
- Non-standard widths and specifications also available.
VWM Pro

Vertical Washing & Drying Machines

High Performance Compact Vertical Washing Machines

A range of high speed compact horizontal washing machines constructed fully from stainless steel, aluminium and modern engineering plastics.

- Machine chassis manufactured fully in stainless steel.
- All transport rollers manufactured from stainless steel with moulded nitrile rubber tyres.
- Transport drive via a stainless steel worms and brass gears.
- Standard machine incorporates:
  - Run-in conveyor 2200mm (86”)
  - Two wash sets fitted with high quality brush rollers suitable for Low-E glass
  - Single drying zone allowing transport speeds up to 6M/Min (20ft/Min)
  - Drying fan with sound absorbing cover
  - Optional motorised brush lift off.
  - Run-Out conveyor 2200mm (86”)

Available in standard heights from 1.3M(51”) to 2.5M(98”) wide.

Option available:

- Additional pre-spray section
- Additional brush sections
- Extended run-in and run-out conveyors
- Gantry mounted fan assembly
- Reverse Osmosis water treatment units.
- Non-standard widths and specifications also available.
- Air floatation run-in and run-out conveyors.