



Rubber Processing Machinery

Extruders and Preformers | Rubber Cooling | Rubber Deflashing | Presses | Spares and Service



...a lifetime of reliability and support



SUPPORTING RUBBER PROCESSORS THROUGHOUT NORTH AMERICA

Barwell Global is a leader in the manufacture, design, and supply of high-quality and multi-application processing machinery for the rubber industry.

Barwell machinery will increase accuracy, capture processing data, reduce material wastage, enhance Operator safety and provide user-friendly operation and maintenance.

Barwell also supplies genuine spares, service, and technical support.

The next generation of Barwell machines will help rubber processors to develop smart factories and adopt Industry 4.0 principles. Through data analysis and process-driven technology, Barwell will improve production quality and efficiency.



INDUSTRY 4.0



APPLICATIONS

Barwell machines help companies to produce rubber products in a number of industries and sectors.

- Footwear
- Sports and leisure
- Aerospace
- Automotive
- Rail
- Pharmaceutical
- Construction
- Military
- Agricultural
- Oil and gas
- IT and communication
- Masterbatch
- Extrusion profiling
- Pelletizing
- Ceramics
- And many more





PROCESSING MATERIAL FLEXIBILITY

Barwell machines are capable of processing most types of compound, including:

- CR
- FKM
- EPDM
- ACM
- NBR
- EVA
- HNBR
- Silicone
- SBR
- And many more

Barwell ECO

A simple batch-load method of preforming or extruding rubber preforms, blanks and strips prior to compression molding.

- Ideal for short to medium production runs or when material or die changes are common
- Combines extrusion, cutting and check weighing in one precise and efficient process
- Batch sizes available from 1-80L
- Standard models have 210 bar / 3000 psi or 240 / 3500 psi operating pressure. High pressure options also available (350 bar / 5000 psi)

The ECO range of machines provide material and labor savings, and are exceptionally easy to operate and maintain.

barwell ECOrange Ram preformers



barwell ECO-NX^{Wi} Smart Ram Preformers



Barwell ECO-NX

Machines have all the benefits of the standard ECO but include advanced technology, allowing machines, devices, sensors, and people to connect and communicate.

- Provides Process Engineers with manufacturing process data to aid decision-making
- Supplies Operators with alarms, production history, error logging, live tracking, service reminders, daily checks and monitoring
- Allows remote access to the machine's control panel for problem-solving
- Compatibility to factory management systems
- Standard models have 240 bar / 3500 psi operating pressure. High pressure options also available (350 bar / 5000 psi)

ECO-NX machines help rubber processors to develop smart factories.

Barwell ECO Clean Room Extruder

A stainless steel rubber ram extruder designed especially for clean room environments.

- Direct areas of the machine which come in contact with rubber are either stainless steel, hard chromed or hot galvanized painted
- Standard models have 240 bar / 3500 psi operating pressure (high pressure options available 350 bar / 5000 psi)
- Optional foot pedal operation when starting or stopping the extrusion process
- Rear load and extended center options
- Optional auto retract to rear position function
- Optional wire cutter cuts extrusion to the desired length

This machine prevents material from becoming contaminated by unwanted particles detrimental to the production process.

barwell ECO CleanRoom Contamination Free Extrusion



barwell Gear Pump-NX

24/7 Smart Performers



Barwell Gear Pump-NX

A fully automated method of rubber preforming and extrusion, designed for long continuous production runs or for profile extrusion requiring greater dimensional stability.

- Combines a highly advanced screw extruder with gear pump technology
- Facilitates continuous production
- Eliminates the need to pre-heat rubber on a two-roll mill
- Smart technology allows machines, devices, sensors, and people to connect and communicate with each other to aid decision-making and improve efficiency
- Standard models have 240 bar / 3500 psi operating pressure. High pressure option also available (350 bar / 5000 psi)

Ideal for companies gearing up for increased business or who need to produce parts 24 hours per day.

Barwell Strip Cutter

A safe, low investment, automated solution for processors producing small batches of rubber strips on a regular basis.

- Quick and automated method of cutting rubber strips up to a maximum width of 535mm and a maximum thickness of 20mm
- Ideal for small production runs with significant cost, time and quality advantages over manual methods of cutting
- Simple to operate PLC and touch display, includes programmable counter function
- Incorporates scales-loop back system for automated accurate production and quick weight adjustment, reducing material wastage

The Strip Cutter is compact and exceptionally easy to operate and maintain.

barwell StripCutter

Rubber roll and sheet cutting



Barwell Approved Used Machines

Remove the risk associated with buying a used machine by choosing 'Barwell twenty-six', our new approved used machine initiative.

- Complete factory rebuild
- Rebuilds comply with all the latest safety standards
- Available with weigh scale feedback loop for blank weight control
- Supplied with 12 months' labor backed warranty

Each machine undergoes a twenty-six stage factory rebuild and inspection and is refurbished using genuine Barwell parts and components.

Customers get a high quality machine rebuilt from the original designs, but with modern technology and additional features added.

barwell twenty-six

Approved used machine program



barwell Upgrades

Be safe | Modernize | Improve



Barwell Upgrades

Barwell on-site machine upgrade packages for older machines will modernize the control system, enhance operator safety and ensure future component supply in the event of a machine breakdown.

- Update your control system with modern technology, replacing outdated electronic components
- Increase your production speed with automatic weight control adjustment
- Ensure key machine components are readily available and fully supported
- Enhanced safety features will ensure your machine meets the latest safety standards

Upgrades are available for the following machines: C2, C3, MIDI, MR400, HT3500, HT2000, and the pre-2010 ECO range of preformers.

Barwell VibraCool

A versatile and space-saving unit for the cooling, separation and drying of hot rubber parts, all in one efficient and continuous operation.

- Cools rubber parts using vibrational motion
- Process can be enhanced by water spraying or air blowing
- Save space, time and rejects
- Cooling path of 40m with a footprint of just 1m²

Available in three models for different applications including: solid blanks, preforms, pellets, and also strips and cord extrusions.

barwell VibraCool

Spiral cooling conveyors



barwell COMPRESSION PRESS

Hydraulic compression molding



Barwell Compression Press

A range of low-investment and high-performance compression presses for rubber component molding.

- Simple plug and play installation
- Built using high quality electrical components and hydraulics
- Multiple model and feature options available
- Incorporates exceptional safety features to virtually eliminate risk of operator injury

Barwell presses are operator-friendly, fully programmable and are built to conform to the latest European safety standards.

Barwell Freeze Trim-NX

A high output, automated and cost cutting method of deflashing using cryogenic freezing.

- A smart technology cryogenic deflashing machine designed for Industry 4.0 factories
- For the deflashing of rubber, plastic, and metal parts
- Quick and safe, providing a pristine quality finish
- Single person operation
- PLC control allows easy operation
- Available in four capacity sizes

A Freeze Trim will significantly reduce operational costs compared to traditional methods of deflashing. It can also be used in conjunction with a Spin Trim for further savings.

barwell FreezeTrim-NX

Cryogenic deflashing machine



barwell Spin Trim

Rubber deflashing machine



Barwell Spin Trim

The SpinTrim is a simple and cost-effective method of deflashing small rubber parts.

- Can be used as a single process operation or as a cost reducing first stage prior to cryogenic deflashing for excessive flash
- Ideal for deflashing small rubber parts with tear trim
- Quick, simple and effective
- Includes operator interface
- Auto feeder option available

An optional take-off waste separator will simply sort the required parts from the waste material, using one of 14 different filters, ranging from 6-32mm dia. hole sizes.

ENHANCED SAFETY

Health and safety is a primary concern for those responsible for machine maintenance and operator safety.

Barwell machines are manufactured with safety in mind and are supplied with a number of features to ensure safe operation.

Barwell machines are compliant with CE regulations.



PILZ
THE SPIRIT OF SAFETY

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SUPPORT

Barwell provides a lifetime of reliability and support through superior machine quality and expert service and support. As the designer and original manufacturer with over 50 years' of experience, Barwell is ideally positioned to assist customers to get the best out of their machine.

- Machine specification advice
- Technical assistance
- Expert material processing advice
- Commissioning and installation
- Training packages

- Preventative maintenance and emergency repair
- Supply of genuine Barwell Spares and Consumables to ensure optimum performance

Regular servicing is an investment and will reduce processing time and cost, improve production quality and increase machine life.

barwell Support
Advice | Spares | Service 



WATCH OUR MACHINES IN ACTION!

Videos of our machines can be viewed on our website and via our YouTube channel.



We can also often test your products using one of our demo machines, so you can see how we can save you money and improve your process, before you buy.

Our Sales and Support departments provide expert advice on specifying the correct machine for the products you manufacture and the materials you process.

We have over 50 years' experience and with sales and service throughout the USA, we ensure we can recommend a machine solution that meets your needs and will support it for many years to come.



Please visit our website for full details
www.barwellusa.com



Go direct to our YouTube channel.

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Issue: 12/22