

Soft Dough Forming Machines

Reliability, versatility and low cost of ownership characterize Baker Perkins' wirecuts, rotary moulders and bar extruders. The wirecut range covers high, medium and low output machines that all offer the same market leading piece weight accuracy and maximum productivity. The same is true of the EM390 and 540 Series rotary moulders while the AirForm positive ejection rotary moulder broadens the range of dough types that can be handled and dramatically increases the new product potential of rotary moulding. The family is completed by the Dualtex Extruder for high output, high accuracy production of filled bars and cookies.

Although the range of machines is diverse, common aims underline their design.

Reliability

Meticulous attention is paid to detail in the design of all our forming machines to ensure trouble free operation. Care is taken to avoid dough build up and leakage that can cause unplanned stoppages and wastage while all the components are specified to ensure many years of trouble free operation.

Easy to Operate

Whether the machine is specified with pushbutton or touch screen controls the operator interfaces are always clear, simple and easy to use. PLC and SCADA systems benefit from recipe control, data capture and intuitive alarm messages while SCADA systems may be connected to factory networks to enable managers to monitor performance remotely.

Easy to clean

Quick and thorough cleaning is a requirement for rapid product changes and all our forming machines are designed with this in mind. Product parts are quickly removed for cleaning off the machine leaving all other critical areas readily accessible.

Easy to maintain

All the routine maintenance items are readily accessible and standard components are used wherever possible.



HS World Wirecut™ Machine

Guaranteed best in class weight control is achieved through unique die and filler block technology while intelligent design features ensure optimum sanitation levels, even to allergen standards. Higher utilization levels with less giveaway ensure a low cost of ownership.

Products	Cookies, folded cookies, bars, filled bars
Speed	up to 300 cuts per minute
Widths	40" - 60"
Choose for	Highest output, Highest accuracy, Widest product range, Greatest productivity

Precise Weight Control

First class product quality every time with less giveaway and less waste. +/- 1% piece weight variance on plain dough, +/- 2% on dough with inclusions.

Optimum Sanitation Levels

Intelligent design features give a typical cleandown time of 15 minutes.

Increased Productivity

Patented clamshell head allows fast removal of die and filler block during changeover; key adjustments can be made on the run.

Versatility

Can handle a wide range of doughs and inclusions including plain and chocolate chip cookie dough, filled bars and folded cookies.

Ease of Operation

Choice of controls to suit your operation, from simple pushbuttons to PLC or SCADA with full recipe control.

Highest Operating Speeds

Up to 300 cuts per minute.



SM World Wirecut™ Machine

Products	Cookies
Speed	up to 200 cuts per minute
Widths	32" - 48"
Choose for	Medium output, Highest accuracy, Standard product range, Fast delivery

The Standard Model World Wirecut has been designed for low to medium outputs but features the same levels of accuracy as the HS World Wirecut. A competitive package with a short delivery time ensures rapid payback, often within a few months.

Precise Weight Control

Consistently first-class product quality with minimal giveaway and minimal waste contribute to fast payback: typically +/- 1% piece weight variance on plain dough; +/- 2% on dough with inclusions.

Exceptional Productivity

Patented clamshell head allows rapid cleaning and replacement of product parts during changeover. Reproducible settings and consistent process stability promote fast start-up.

End Product Versatility

A wide range of different inclusion types and sizes, For example large chocolate chunks, raisins and nut pieces.

Ease of Operation

Simple, intuitive and low maintenance controls.

High Sanitation Levels

Easy cleaning to allergen standards.



Werner Wirecut™ Machine

Whether replacing an old wirecut or buying your first machine a new Werner Wirecut™ from Baker Perkins is the smart investment choice. Exceptional value and low running costs provide a better rate of return than used or rebuilt equipment, while a 12 month warranty and the support of the world's leading wirecut company enable you to buy with confidence.

Precise Weight Control

The Werner Wirecut™ uses the latest die technology to address the problems of poor weight control that adversely affect the profitability of existing machines - even after rebuilding.

Low Running Costs

The uncomplicated design uses modern components and materials to keep operating, cleaning and maintenance costs to a minimum.

Increased Productivity

Fast changeovers without the need for tools increase productivity and flexibility compared with older designs.

Short Lead Times

The new Werner Wirecut™ machine is part of the Baker Perkins Build-for-Stock program and can be ready to ship in as little as two weeks.

Products
Speed
Widths
Choose for

Cookies
up to 140 cuts per minute
32" - 48"
Low output, Good accuracy, Standard product range, Fast delivery



EM390 Rotary Moulder

Products
Speed
Widths
Choose for

Biscuits and sandwich cookies
up to 55 ft/min
32" - 60"
Flexible specification, Portability, Standard product range, Fast delivery

The EM390 has been designed with an extended range of standard features and options that make it the next industry standard for production of moulded cookies, sandwich cookies, bars, mini cookies and pet treats.

Flexible Specification

A wide range of options ensures that the machine meets your needs as well as your budget; furthermore, existing 390 rotary dies can be used.

Low Cost of Ownership

With fast cleaning and easy maintenance, labor costs are kept to a minimum; on-the-run knife adjustment improves weight control.

High Productivity

Rapid and error-free changeover with easy die roll changeout and PLC control system with recipe function; fast start-ups reduce downtime and waste.

Optimum Sanitation

Intelligent design features allow easy access and fast cleaning; optional washdown cleaning to allergen standards.

Versatility

Options include independent web and roll drives and motorized adjustment of all key process control parameters.



540 Series Rotary Moulder

Independent forcing and moulding roll drives mean that relative speeds can be varied to suit product characteristics such as thickness and dough texture. An independent web drive ensures that web tension is reduced, improving extraction and web life.

High Output

The 540 Series is a high output rotary moulder with a full range of adjustments. This allows product quality and weight control to be maintained, even at the highest possible speeds.

Quick Changeover

Easy removal and replacement of the die roll, plus excellent access for cleaning and automatic recipe driven adjustments cut changeover time to a minimum.

Versatility

Wide range of options and ancillaries, including sugar sprinkler and egg wash, extends the product range.

Process Control

Clear and intuitive PLC controls with touch screen HMI or SCADA operator interfaces help achieve maximum productivity. All the major process variables can be controlled to optimize quality and productivity.

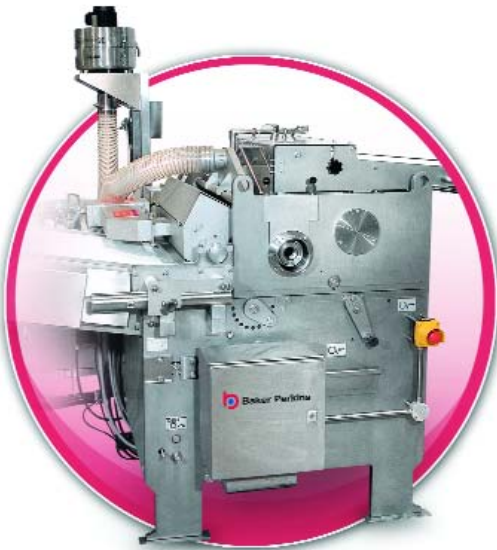
- Forcing roll speed
- Moulding roll speed
- Web speed
- Scraper position
- Forcing roll gap (including side to side)
- Extraction pressure (including side to side)
- Web tension

Products	Biscuits and sandwich cookies
Speed	up to 130ft/min
Widths	32" - 60"
Choose for	Highest speed, Maximum width, Maximum adjustability, Difficult products



AirForm Rotary Moulder

With this unique new concept from Baker Perkins, production of difficult to handle biscuits, such as sticky dough, products with large inclusions and cluster style products can be achieved. Easy roll changeover enables a wide range of eye-catching biscuit products to be made, making it particularly suitable for the dynamic character merchandizing market, while excellent sanitation levels offer significant cost benefits.



Maximum Flexibility

The AirForm Rotary Moulder handles a wide variety of materials, e.g. sugar based pastes or doughs and an unlimited variety of shape and profile combinations can be created. A full range of upstream and downstream equipment is also available, including PLC control with touch sensitive HMI screen.

High Productivity

A unique positive ejection system delivers high yield and end product consistency and the scrapless

process ensures accurate control of product weight and shape. Easy roll changeover for different product runs, a range of line speeds and regimented discharge for secondary processing ensure high productivity levels.

Excellent Sanitation

The AirForm can be validated to meet cGMP and FDA hygiene requirements and modular design allows rapid cleandown at product changeover.



Dualtex Extruder

The Dualtex Extruder offers high output, high efficiency filled bar production with the utmost in versatility, productivity and low cost of ownership. Unique die and filler block technology guarantees best in class weight control, and intelligent design features ensure excellent sanitation levels, even to allergen standards.

High Output

Up to 8400 lbs per hour, typical bar weight of 1.5 oz.

Versatility

Produces a wide range of filled breakfast, cereal and health bars with a variety of jackets and fillings. Also suitable for two dough cookies and single stream bars.

Precise weight control

Die and filler block technology ensure consistent product quality every time with less giveaway and less waste.

Productivity

Clamshell head allow fast removal of die and filler block during changeover; retractable nozzles reduce scrap and downtime.

Excellent sanitation levels

Intelligent design features give a typical cleandown time of 15 minutes.

Ease of operation

Choice of controls to suit your operation, from simple pushbuttons to SCADA with full process visualization, recipe control and alarm management.

Products	Filled bars & cookies
Speed	3,800kg/hr (8,400lb/hr)
Widths	40" - 60"
Choose for	High output, Versatility, Piece weight accuracy



Range Chart

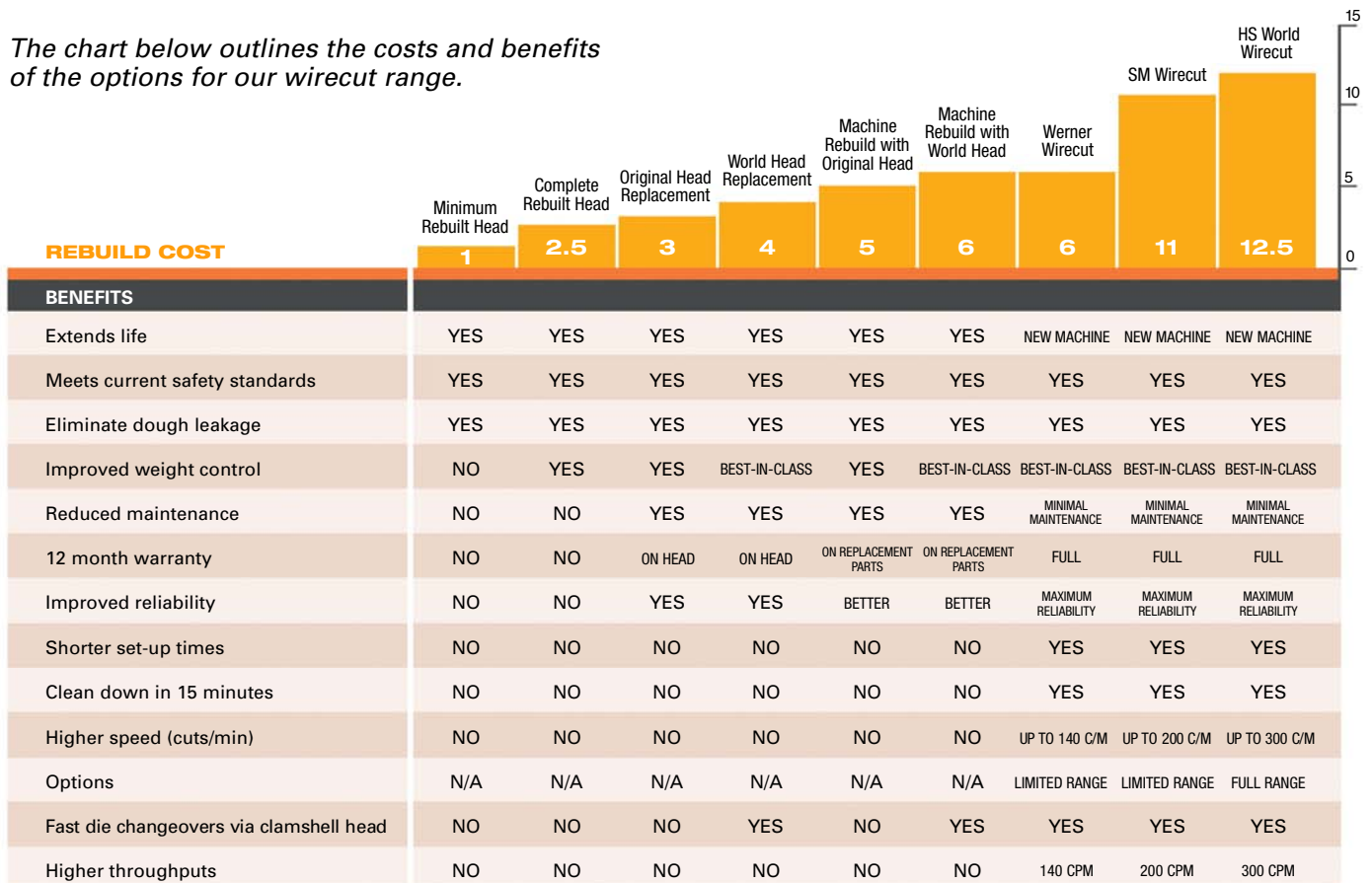
Machine	Products	Speed	Widths
HS World Wirecut	Cookies, folded cookies, bars, filled bars	300 cuts/min	40" - 60"
SM World Wirecut	Cookies	200 cuts/min	32" - 48"
Werner Wirecut	Cookies	140 cuts/min	32" - 48"
EM390 Rotary Moulder	Biscuits, sandwich cookies	55 ft/min	32" - 60"
540 Series Rotary Moulder	Biscuits, sandwich cookies	130 ft/min	32" - 63"
Dualtex Extruder	Filled bars and cookies	8400 lbs/hr	40" - 60"



Lifetime Support

Old machinery can reduce productivity and increase costs through poor weight control, slow changeovers, increased downtime and extended cleaning times. All of these can be addressed by purchasing a new machine, but where this is not possible we offer upgrades and rebuilds for existing equipment. These offer many of the benefits of a new machine, but for a fraction of the cost.

The chart below outlines the costs and benefits of the options for our wirecut range.



Innovation Centers

Test facilities are available in our Innovation Centres in Peterborough, UK, and Grand Rapids, MI, USA. These are equipped with a range of pilot scale mixing, forming and baking equipment for new product and process development trials.

The centres are used by Baker Perkins for our own programme of process and equipment development and by our customers for confidential trials of new product and process ideas.



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Aftermarket Services

Baker Perkins provides a range of aftermarket services to improve line performance and extend useful life. These range from parts and service through inspections and fault finding to major repairs and rebuilds. There are also upgrades available to key features and drive and control systems as well as planned maintenance contracts and optimization services.