

WMH

WESTERN MECHANICAL HANDLING UK LTD

Flexible Ultrasonic Cutting



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introduction

Whether you are looking for a compact standalone unit for batch production or a fully automated in-line solution the WMH (Western Mechanical Handling) flexible ultrasonic cutting range has a model to suit our requirements.

Developed over a number of years in close cooperation with Mitsubishi Electric Automation and Telsonic Ltd, the WMH range offers a reliable and flexible solution to your cutting requirements that will enhance the quality of your product and reduce the cost of product wastage.



hygienic design

Built to the highest possible hygiene standards WMH flexible ultrasonic cutting units are specifically designed to withstand the rigours of high care, wash down food production environments. With quick release belts and inbuilt hygiene features to aid cleaning.



flexible and adaptable

Pre-programmed to meet your current product cutting patterns the WMH ultrasonic cutting unit offers the flexibility to adapt to your changing production needs by the addition of new cutting patterns and product configurations.



easy to use

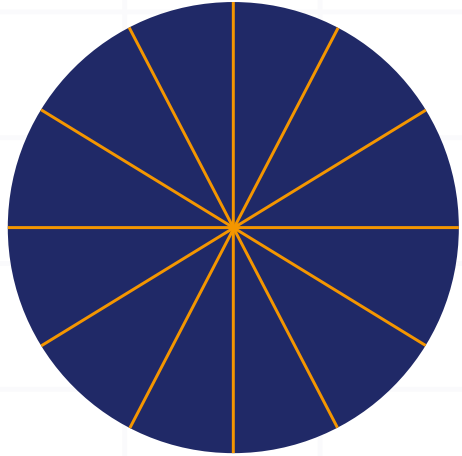
Operation of the cutter is straightforward and easy to master using the latest in touch screen technology, offering intuitive controls with multi-level access from operators to engineers.

cutting patterns

WMH cutters can be configured for radial or parallel cutting for round or rectangular products.

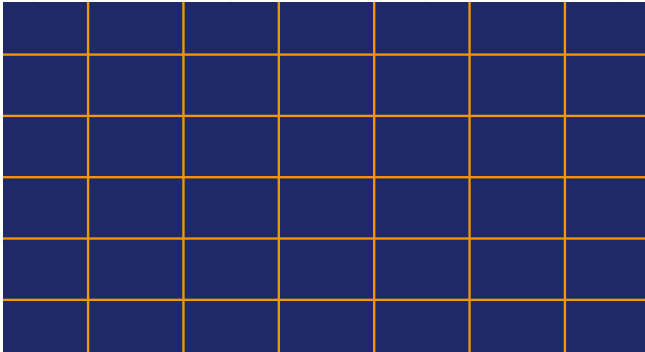
radial cutting

For round cake, pies or cheese.
Configurable in multiples of two, e.g.: 4, 6, 8 etc.



parallel cutting

For square or rectangular products, either individual products or tray bake slabs.



tried and tested

Before supplying a cutting unit, WMH will carry out trials with your products to establish suitability of the product and ensure the final result is to the highest standard as set by you. If you would like to carry out extended trials at your site this can be arranged.

products

The range of products being cut is increasing all the time, here are just a few examples:

- Cheesecake
- Fruit Cake
- Millionaires Shortbread
- Savoury Meat Roll
- Cheddar Cheese
- Iced Sponge
- Yule Log
- Flapjack
- Rocky Road
- Pastry
- Quiche
- Sponge Cake



benefits

- Precise and reliable cutting
- Simple to use
- Straightforward to clean
- Saves waste
- Easy to add products
- Compact design, fits into a small space

stand-alone with one robot

Basic model suitable for offline or batch operations where the product is manually loaded within positioning guides in the robot cell.

Configured for parallel or radial cutting of tray bakes or individual round products.

features

Robot	Single, 6 –axis Mitsubishi Electric Melfa RV-7F, IP65 robot
Conveyor	N/A
Construction	Fully welded, hygienic stainless steel support frame/guards Polycarbonate vision panels Hinged and interlocked access doors
Cutting blade	Telsonic 20kHz Titanium sonotrode 250mm/500mm
Product positioning	Manual against guides within cutting enclosure
Product format	Max 760mm x 450mm (18” x 30”) rectangular slab Up to ø450mm Round
Cut rate	Up to 96 cuts/min dependant on product
Cleaning features	Blade wash tank for interval cleaning Removable product location guides Large access doors
Available options	Graphic Teach Pendant Remote diagnostics
Service	16Amp 3-Phase electrical supply 6 bar clean air supply
Operator interface	Mitsubishi touch screen with pre-set menus

in-Line with one robot

In-line model suitable for high throughput in-line operations where the product is automatically conveyed in and out of the cell.

Configured for parallel or radial cutting of tray bakes or individual round products.

features

Robot	Single, 6-axis Mitsubishi Electric Melfa RV-7F, IP65 robot
Conveyor	Positive drive flat belt 600mm wide x 3m long ø80 Infeed/Trail roller ø120 Outfeed/Drive Roller End Drive with Servo
Construction	Fully welded, hygienic stainless steel support frame/guards Polycarbonate vision panels Hinged and interlocked access doors Stainless steel conveyor deck with cantilever support legs
Cutting blade	Telsonic 20kHz Titanium sonotrode 250mm/500mm
Product positioning	Product located on platens guided and sensed
Product format	Max 760mm x 450mm (18" x 30") rectangular slab Up to ø450mm round
Cut rate	Up to 96 cuts/min dependant on product
Cleaning features	Blade wash tank for interval cleaning Removable product location guides Large access doors Cantilever conveyor for quick and easy belt removal
Available options	Graphic Teach Pendant Remote diagnostics Ultrasonic blade cleaning tank Vision guiding
Service	16Amp 3-phase electrical supply 6 bar clean air supply
Operator interface	Mitsubishi touch screen with pre-set menus



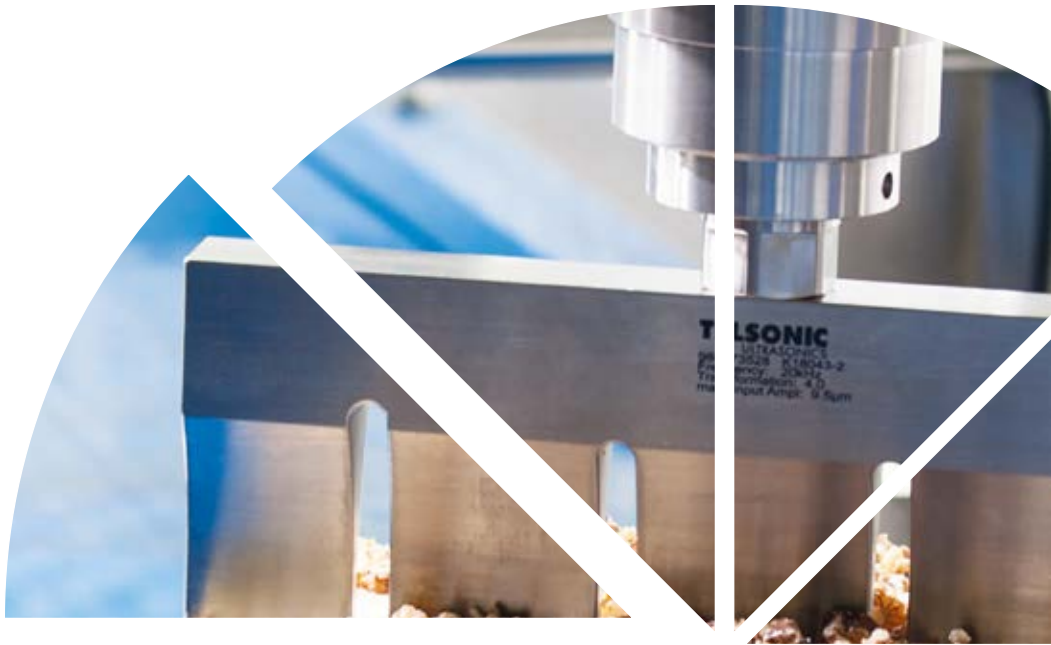
in-Line with two robots

In-line model suitable for high throughput in-line operations where the product is automatically conveyed in and out of the cell.

Configured for parallel or radial cutting of tray bakes or individual round products.

features

Robot	Twin, 6-axis Mitsubishi Electric Melfa RV-7F, IP65 robots
Conveyor	Positive drive flat belt 600mm wide x 3m long ø80 Infeed/Trail Roller ø120 Outfeed/Drive Roller End drive with servo
Construction	Fully welded, hygienic stainless steel frame/guards Polycarbonate vision panels Hinged and interlocking access doors Stainless steel conveyor deck with cantilever support legs
Cutting blade	Telsonic 20kHz Titanium sonotrode 250mm/500mm
Product positioning	Product located on platens guided and sensed
Product format	Max 760mm x 450mm (18" x 30") rectangular slab Up to ø450mm round
Cut rate	Up to 192 cuts/min dependant on product
Cleaning features	Blade wash tank interval cleaning Removable product location guides Large access doors Cantilever conveyor for quick and easy belt removal
Available options	Graphic teach pendant Remote diagnostics Ultrasonic blade cleaning tank Vision guiding
Service	32 Amp 3-phase electrical supply 6 bar clean air supply
Operator interface	Mitsubishi touch screen with pre-set menus



WMH

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solutions since 1976**

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