

## Manual, Semi-or-Fully Automated Plant

The final degree of sophistication would be dictated by the production volumes and cut matrix.

Semi-or-fully automated machines could have single or multi-stages.

Depending on the product variant, these machines would necessitate an HMI (Human Machine Interface) with a programmable recipe function.

The precision movement of either the product or the Sonics stacks would

determine the type of mechanical drive system to facilitate the positional accuracy and speed requirements.

Generally, these would be driven by servo motors and precision gearboxes.

The control system would be a PLC and CAN based communications system with either analogue or digital functionality.

This type of control system then allows each individual recipe to be

programmed to suit the exact requirements of the product being cut.

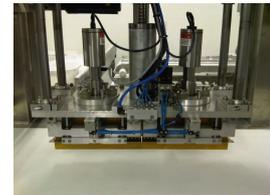
The construction could include blade to conveyor accuracy of 0.05mm across the full length of the cut.

Typically, product sizes ranging from 1,500 mm long to 500 mm wide can be accommodated.

Cut methodology can be either continuous (on the fly) or indexed (static).



Semi-automated ultrasonic food cutting process plant, and internal systems



## Food Cutting Applications

### Confectionery

Chocolates, Toffee and Fudge, Biscuits, Cakes, Cookies, Dessert Cakes, Dough and Swiss roll and nutty bars

Sweets, Nougat, Health Bars, Liquorice, Snack Bars

### Frozen Foods

Fish, Chicken, Beef Burgers

Fresh/frozen vegetables

Sausage Rolls

Savory Herb Rolls

Frozen cakes and pies

Ice cream bars

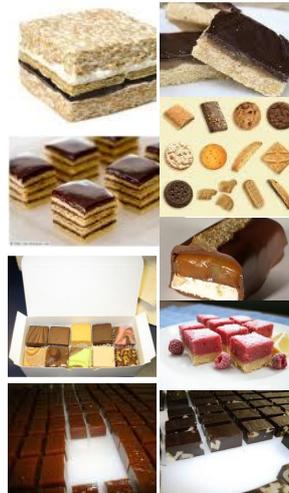
Extruded semi-frozen biscuit rolls

### Refrigerated Products

Polony, Sliced Meat

Cheese—sliced, soft and hard cheeses

Vegetables and fruit

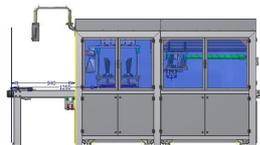


Every cutting challenge has a solution

## Service Support and Backup

The equipment used for the construction of the automated plant is generally from well represented international organizations operational in South Africa, so that spare parts and backup is readily available.

A full range of ultrasound equipment is held in stock as standard backup.



All the software is developed in-house and can therefore be supported and modified should the need arise due to changing circumstances.

We endeavour to provide a service response time within 24 hours anywhere in South Africa.

Our equipment carries a 12 month warranty for single shift operation.

Technical guidance and support is provided for operator queries and additional new production requirements

*Designed and manufactured in South Africa to international standards*

