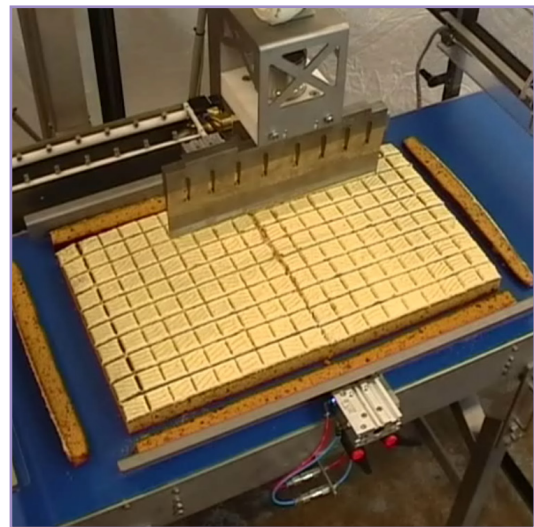
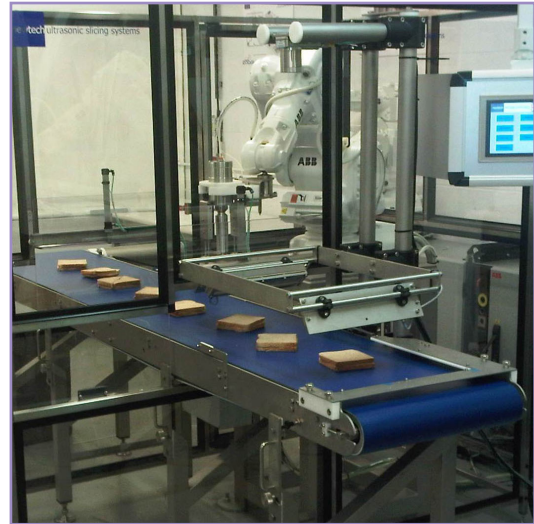
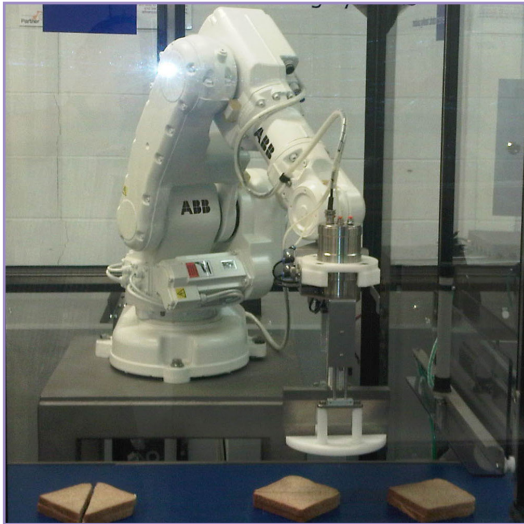


roboSONIC cutter



The roboSONIC cutter sets new standards for ultrasonic portioning. It produces a superior quality cut, compared to conventional cutting methods due to high frequency sound waves that cause the product to 'part' as the cutting blade is passed through it. In addition, the flexibility to produce a wide range of product types, shapes and recipes gives the user a distinct advantage in changeable and competitive markets. With the technology integrated into the precise motion control system offered by the robot, the whole package offers significant savings through maximum product yield, and minimum giveaway. Factor in ease of machine, hygiene and cleaning benefits, and the roboSONIC offers previously unsurpassable benefits.

The cutting system comprises an ABB IRB 140 6 axis robot with integral 20 KHz ultrasonic assembly and servo controlled product conveyor, with a comprehensive operator interface system for easy product and program set up. An optional larger capacity robot system with a dual sonotrode arrangement may be supplied to increase the throughput capabilities in line with customer requirements, while the addition of a vision system - 3D if the product demands it - means that the system can be integrated seamlessly into your existing process with the minimum of operator intervention and maximum product identification and cut quality.

roboSONIC cutter

Possible applications

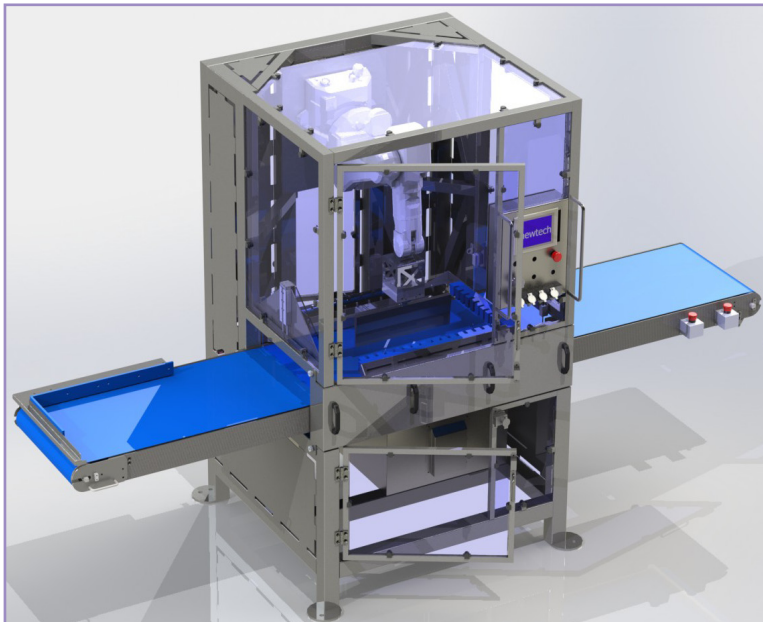
The beauty of the roboSONIC is its suitability for portioning a wide range of products. It is particularly well suited to meet the demands of the bakery industry; for example, cutting tray bakes including flapjack, sponge cake, brownie and vanilla slice.

It can also be used for precision portioning of round products, including cake and cheese, as well as slab and loaf-shaped products. With an integrated vision system, it becomes intelligent, capable of identifying product position and type automatically.

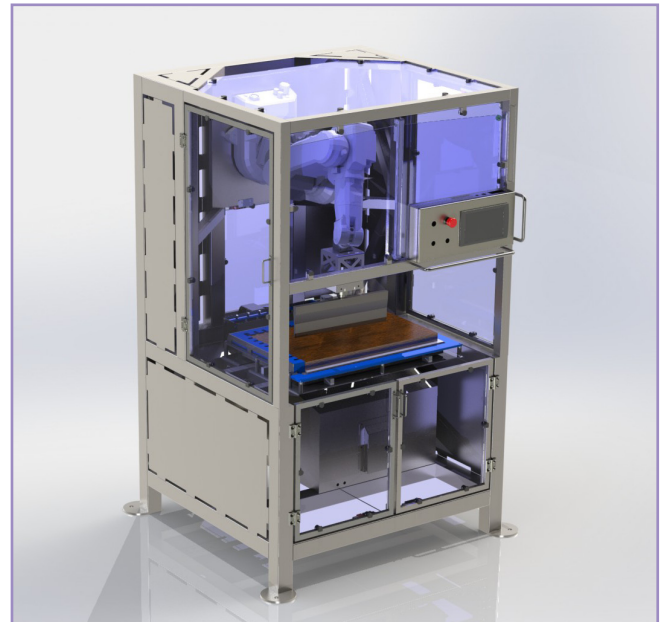
Machine specifications

ABB Standard Controller for remote location - 7m cable length
IRB 140 robot for single sonotrode solution
Fully stainless steel conveyor frame, plinth and guard
Omron PLC/Motion control
Omron Colour HMI panel
20kHz 2200W ultrasonic generator
20kHz Transducer/Booster
20kHz Titanium Sonotrode
Servo driven product conveyor. Easy clean, easily removable
All machine settings with help text
Control via touch screen, restricted access via code number
20 Preset product programs

S4CPlus Robot Controller
Ethernet connection
Offline programming capability for new products/programs
Optional vision system
Optional data acquisition/process monitoring
Optional product carrier boards
Auto/manual loading and offloading by operator
Variable portion sizes (number of cuts)
Variable Cutting Speed
Manual Mode for Engineer Assistance
Services - 32A 3 phase N & E / 6 bar compressed air
Optional sonotrode cleaning tank



roboSONIC in-line



roboSONIC compact