

Petrie Technologies Profile



Petrie Technologies has been involved in the design, development and manufacture of special purpose machinery for more than 100 years. Our primary expertise is in the innovative application of energy, embracing radio frequency, microwave, induction, infrared, steam and hot air heating technologies - harnessed individually or jointly to achieve temperature elevation to precisely optimised levels.

Backed by the extensive design and manufacturing resources of the NIS Group, Petrie's team of engineers and scientists has the capability to deliver total solutions for a wide range of food, chemical, pharmaceutical and industrial needs - our mission, 'to maximise competitiveness by enhancing production process quality and efficiency'.



Drying

Curing

Tempering

Searing

Forming

Baking

Defrosting

Welding

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Energy

Radio Frequency (RF)

Microwave

Induction

Infrared

Microwave + Induction

Radio Frequency + Hot Air (ARFA)

Hot Air

With a dedicated test and development laboratory, we custom design and develop both machinery and processes to meet individual customer requirements. This unique field of expertise can be applied across numerous applications, here are some typical examples:

Applications

Defrosting - mass thawing of frozen food products to precise temperature levels, typically -20°C to 0°C

In-line cooking

Plastics forming and moulding

Rapid drying of wood and fibre products evenly from surface to core

Moisture profiling of cigar and tobacco products

Rapid partial or rapid complete cooking of foodstuffs

Expansion fitting of precision metal components

Curing, surface drying and annealing

Cooking and searing of foodstuffs for ready meals

Cooking, baking and moisture profiling

Controlled temperature, humidity and curing

