



CR Clarke

Technology for Today's Plastics

Product Data Sheet

911 Thermoforming Centre

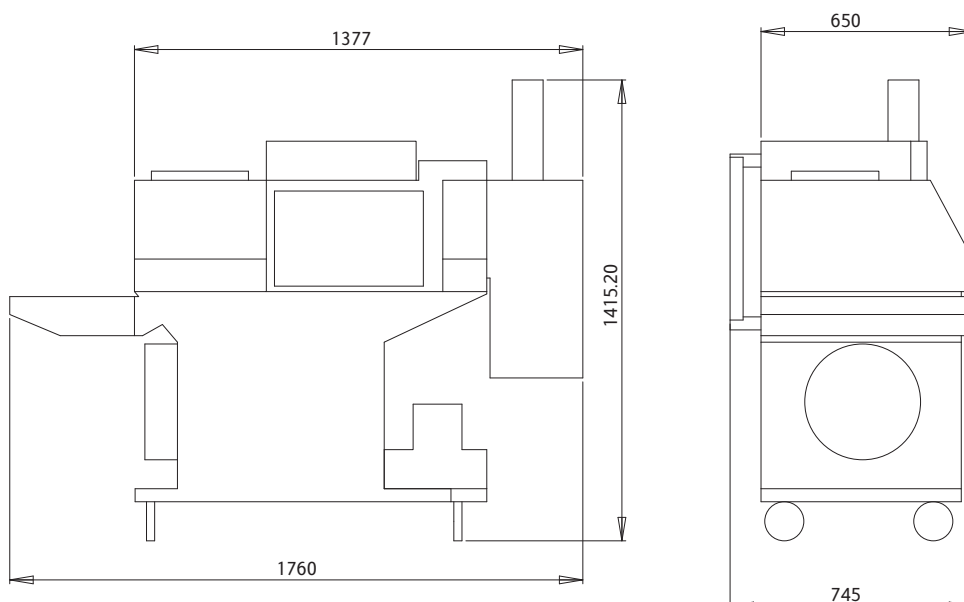


Abbeon Cal, Inc.
Industrial Plastic Working Equipment & Precision Instruments

Abbeon Cal, Inc., 1363 Donlon Street Unit 1, Ventura, CA 93003-8387
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Machine Dimensions (mm)



The 911 provides six thermoforming processes in a single machine. A two zone ceramic heater system ensures even heating for vacuum forming and also heats the fan circulated oven. A rotary switch allows the operator to select a process, while a digital timer with audible alarm provides a useful timing guide. Processes available are:

Vacuum Forming

Plates are supplied with the 911 for two sheet sizes of vacuum forming, 305mm x 305mm and 305mm x 152mm. The maximum mould height is 100mm. Material heating is performed by the machine's ceramic heater system, with two zones of heater control.

Dome Blowing

A cast acrylic or PVC sheet is heated in the oven. It is transferred to the Dome Blowing plate, clamped, and compressed air applied beneath it. This forms the material into an even hemisphere. The machine is supplied with rings for 305, 225 and 150mm (12, 9 & 6") diameter domes.

Plastic Dip Coating

A 5 litre tank containing thermoplastic powder is loaded into the machine. Compressed air is forced through the powder to aerate it, making it behave like a fluid. The metal item to be coated is heated in the oven and then dipped in the fluidised powder. The powder sticks to the hot metal.

Once the item is removed from the tank the powder flows to form a smooth coating.

Plastic Welding

An industrial hot air torch is integrated into the machine for the welding of solvent resistant materials (e.g. polypropylene). A fold up work-table gives support for materials being welded along with a calibrated tilting stop for setting angles.

Injection Moulding

The injection moulding unit is pneumatically powered by the machine's vacuum/pressure pump. Material is heated in the oven in a high thermal mass aluminium pot. This pot is transferred to the injection moulding unit and injected into a suitable mould by the pneumatic cylinder. The machine comes complete with two moulds.

Extrusion

Extrusion is also carried out on the Injection Moulding unit, with the heated material being extruded through an I section nozzle into a cooling water tube.

Oven

Fan circulated oven with digital display temperature control, provides the functions for plastic memory demonstrations, sheet heating, annealing etc.

Specifications

Voltage	230V 50-60Hz
Max Current	12 Amps
Vacuum Forming	
Sheet Size	305 x 152mm
	305 x 305mm
Aperture Size	280 x 127mm
	280 x 280mm
Max Mould Height	115mm
Ceramic Heaters	2 zones
Vacuum Pressure	0.83bar
Suitable Materials	Polystyrene, Extruded Acrylic, PVC, ABS, Polycarbonate, Polypropylene, Polyethylene
Dome Blowing	
Dome Size	150mm
	225mm
	305mm
Suitable Materials	Cast Acrylic, PVC

Extrusion

Suitable Materials	Polystyrene
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Plastic Dip Coating

Capacity	5 Litre
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Suitable Materials	Nylon, Polyethylene, Polypropylene
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Plastic Welding

Suitable Materials	Polypropylene, PVC, ABS
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Rod Thickness	3mm
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Injection Moulding

Suitable Materials	Nylon, Polyethylene, Polystyrene
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Oven

Max Temperature	400°C
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Internal Capacity	405 x 400 x 235mm
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Insulation	50mm
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Press Forming

Suitable Materials	Cast Acrylic, ABS, PVC
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Dimensions (Packed)	1760 x 750 x 1420mm
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Weight (Bare Machine)	207kg
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Weight (Packed)	248kg
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