



GAINSBOROUGH

ENGINEERING COMPANY
AUTOMATIC PACKAGING MACHINERY ENGINEERS



**Vertical Form
Fill Seal
Machines and
Systems**



Gainsborough Engineering Company

Flexibility of Modular range offers customers choice of specification

Who we are

Gainsborough Engineering Company was founded over 45 years ago and is currently located in Gainsborough, Lincolnshire, United Kingdom.

We are a company that specialises in manufacturing vertical form fill seal machines, conveyors and rotary volumetric cup fillers. We design, manufacture, assemble, test and install our machine systems.



Our Products

Gainsborough Engineering Company's range of vertical form fill and seal machines are based on a modular concept in which the frame size is determined by the bag size.

The optional components are then selected by the user enabling them to achieve maximum flexibility in their choice of machine requirements to match their specific needs. The present range of machines are packing a wide range of products from 1 gramme of sequins to 25 killogrammes of pet food.

We are active within many industries: food (fresh and frozen), liquids, powders, hardware, pharmaceutical, confectionery, electrical and building products. These are just a few examples of products packed.



Carrier Handle



Pillow



Euroslot



Block Bottom

The Company scope is from a single hand fed machine though to full turnkey systems. Our equipment can be synchronised to all the following feed systems:

- Multi head weighing machines
- Linear weighing machines
- Auger Filler systems
- Both bowl feed and linear counters
- Our own rotary volumetric filler
- Liquid depositors
- Pick & place robots
- Bucket elevators
- Coin counters



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Vertical Form Fill Seal Machinery

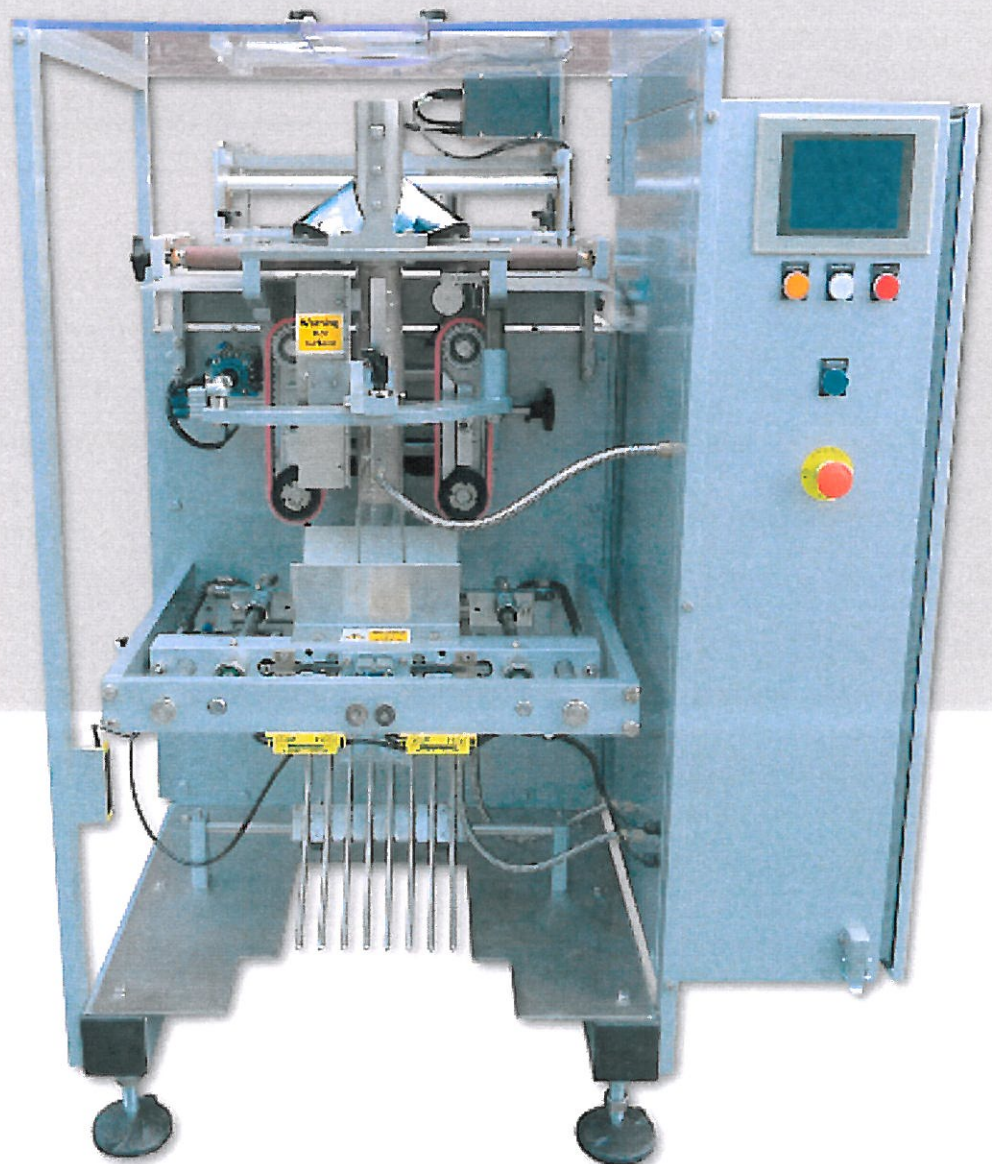
Features and Technical Information

- Option of painted or stainless steel frame, parts and bearings, except where weight dictates use of anodised aluminium or where bought-in items are not available in such materials.
- Heat sealable jaws running on hardened shafts and linear bushes for long and trouble-free life.
- All product contact parts stainless steel.
- Mechanical/inverter/direct drive controlled intermittent film drive.
- Belts with encoder feed back for measurement of pack length.
- Industry standard brand-name products used when not manufactured in-house.
- Touch screen PLC control of all machine functions with product codes for ease of production changeovers.
- Photo-electric cell registration.
- Film run-out detection.
- Jaw obstruction detection.
- Totalising/batch counting facility.
- Interfaces easily with augers, weighers, liquid and counting systems.
- Low product drop for fragile products.



Machine Options

- Gusseting
- Euroslot
- Block Bottom Attachments
- Overprinting
- Bag Supports
- Label Applicators
- Gas Flushing
- Product Take Away Conveyors
- Static Eliminators
- Rotary Packing Tables
- Hole Punch
- Tear Notch



Machine Range and Specification

All machines are controlled by a PLC system linked to a touch screen display. When in run mode the screen displays the current programme plus seal temperatures and machine speeds. The PLC also records the following machine functions:

GV2k1



Technical Features

Packaging speeds up to 75/minute subject to suitability of packing material, feed system and type of product to be packed.

Maximum pack size 200mm wide x 225mm long.

Minimum pack size 50mm wide x 60mm long.

Low product drop for fragile products.

Typical max. bag weight 1kg.

Machine Dimensions

Width	1040mm
Height	1300mm
Depth	1600mm
Weight	450kg
Air Supply	80psi, 5 bar
Air Consumption	15 - 20 cu ft min.

GV2k2



Technical Features

Packaging speeds up to 75/minute subject to suitability of packing material, feed system and type of product to be packed.

Maximum pack size 200mm wide x 350mm long.

Minimum pack size 50mm wide x 60mm long.

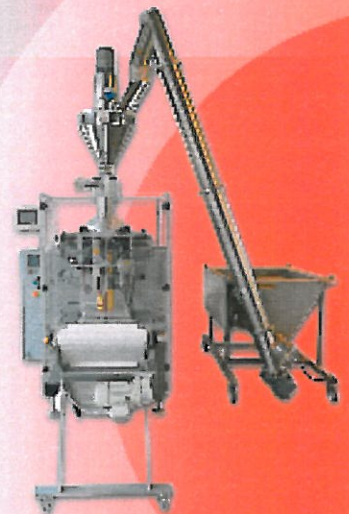
Low product drop for fragile products.

Typical max. bag weight 2kg.

Machine Dimensions

Width	1040mm
Height	1500mm
Depth	1600mm
Weight	450kg
Air Supply	80psi, 5 bar
Air Consumption	15 - 20 cu ft min.

GV2k3



Technical Features

Packaging speeds up to 60/minute subject to suitability of packing material, feed system and type of product to be packed.

Maximum pack size 320mm wide x 350mm long.

Minimum pack size 80mm wide x 80mm long.

Low product drop for fragile products.

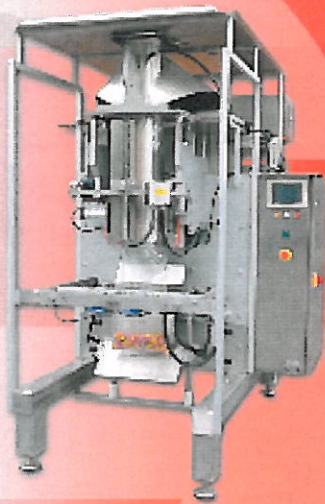
Typical max. bag weight 3kg.

Machine Dimensions

Width	1300mm
Height	1800mm
Depth	2000mm
Weight	650kg
Air Supply	80psi, 5 bar
Air Consumption	20 - 25 cu ft min. 560 - 700 litres/min

- Bag length • Photocell registration • Product call • Thermal printer call
- No product - no bag • Packaging material breakage • Packaging material run out • Product in jaw obstruction • Safety guard circuit

GV2k4



Technical Features

Packaging speeds up to 60/minute subject to suitability of packing material, feed system and type of product to be packed.

Maximum pack size 320mm wide x 500mm long.

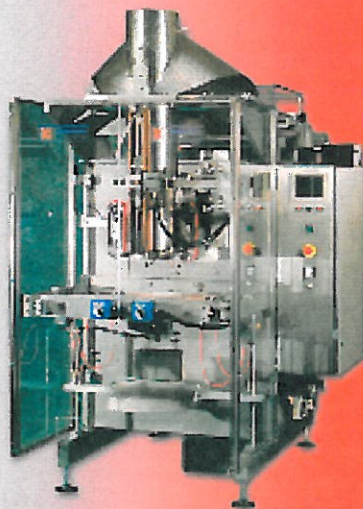
Minimum pack size 80mm wide x 80mm long.

Typical max. bag weight 5kg.

Machine Dimensions

Width	1300mm
Height	2000mm
Depth	2000mm
Weight	650kg
Air Supply	80psi, 5 bar
Air Consumption	20 - 25 cu ft min. 560 - 700 litres/min

GV4



Technical Features

Packaging speeds up to 50/minute subject to suitability of packing material, feed system and type of product to be packed.

Maximum pack size 400mm wide x 600mm long.

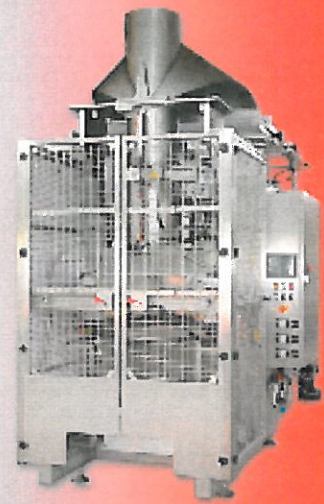
Minimum pack size 150mm wide x 150mm long.

Typical max. bag weight 10kg.

Machine Dimensions

Width	1350mm
Height	2100mm
Depth	2410mm
Weight	1000kg
Air Supply	80psi, 5 bar
Air Consumption	25 - 30 cu ft min.

GV5



Technical Features

Packaging speeds up to 25/minute subject to suitability of packing material, feed system and type of product to be packed.

Maximum pack size 600mm wide x 800mm long.

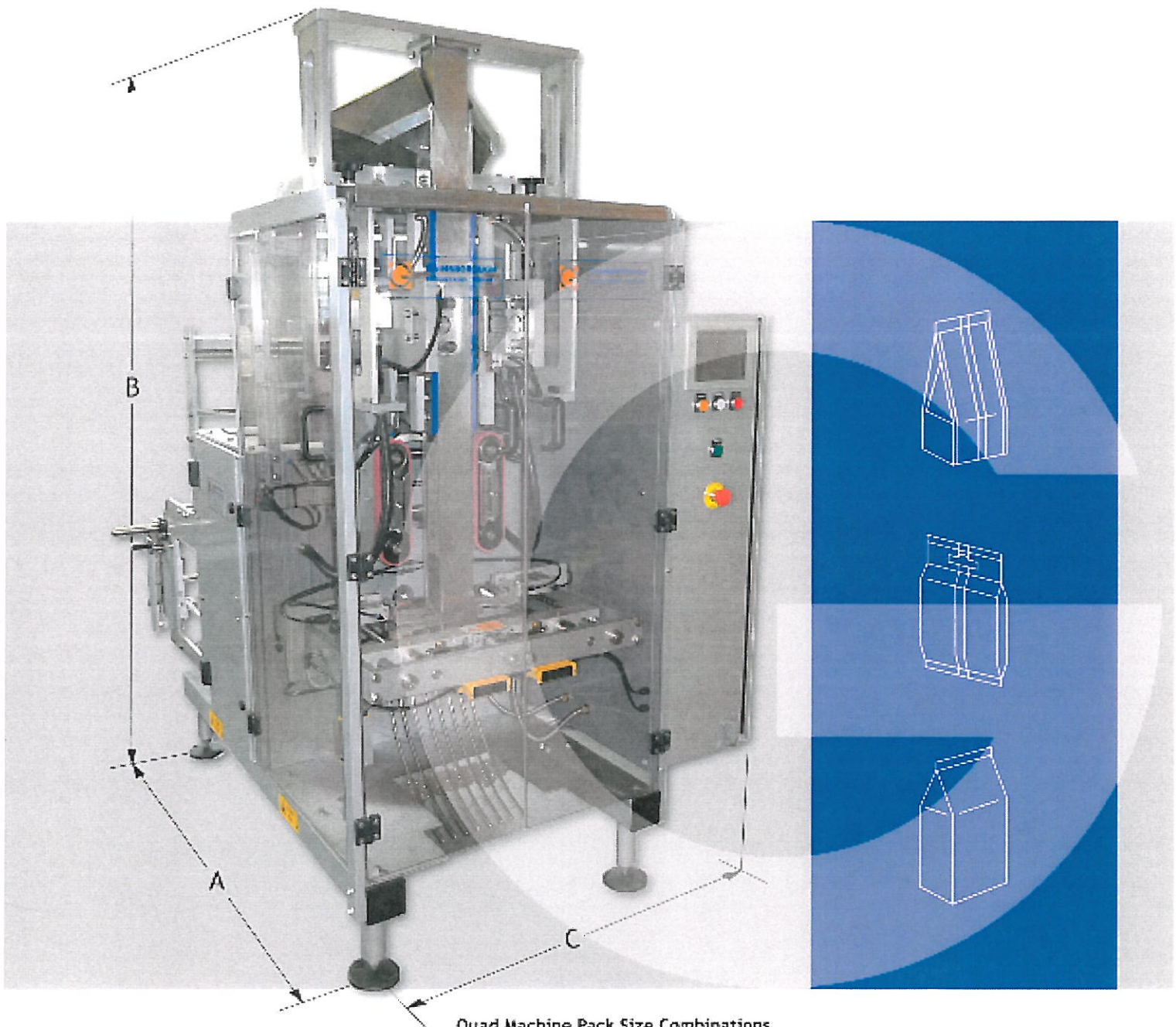
Minimum pack size 250mm wide x 200mm long.

Typical max. bag weight 25kg.

Machine Dimensions

Width	1650mm
Height	2800mm
Depth	2620mm
Weight	1500kg
Air Supply	80psi, 5 bar
Air Consumption	20 - 40 cu ft min. Dependent on machine speed & specifications

Four Corner Seal Range



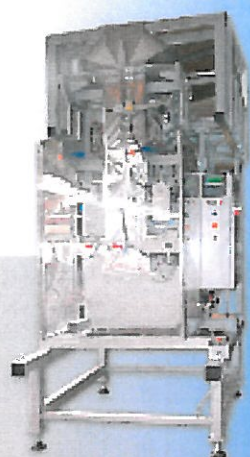
Quad Machine Pack Size Combinations

Model	Max. Film Widths	A	B	C	Pillow Pack	Block Bottom	Quad Pack	Gusset
GV2k2 FCS	330 - 428	1660	1850	1150	✓	✓	✓	✓
GV2k3 FCS	430 - 678	2100	2000	1350	✓	✓	✓	✓
GV4 FCS	730 - 816	2560	2500	1550	✓	✓	✓	✓

Pack Dimensions

	Pillow		Quad Corner Seal Only		Quad Corner Seal & Centre Seal		Weight Machine
	Min	Max	Min	Max	Min	Max	
GV2k2 FCS	100	150	80	150	80	175	550kg
GV2k3 FCS	100	200	80	250	80	300	725kg
GV4 FCS	200	350	200	350	200	370	1400kg

Typical Systems Available



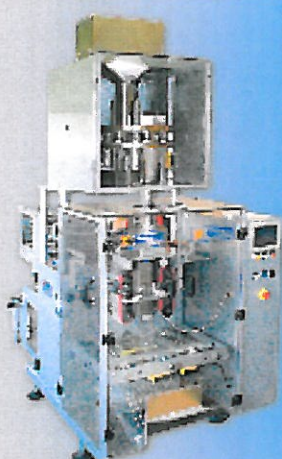
Liquid Twin Pack



Close Coupled Multihead Weighing System



Auger Filler for Powders with Low Level Bulk Feeders



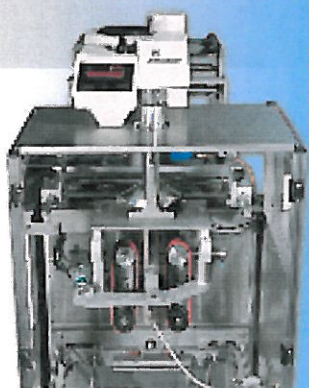
Rotary Volumetric Filler for Granules



Twin Linear Weigher



Bowl Feed Counter System



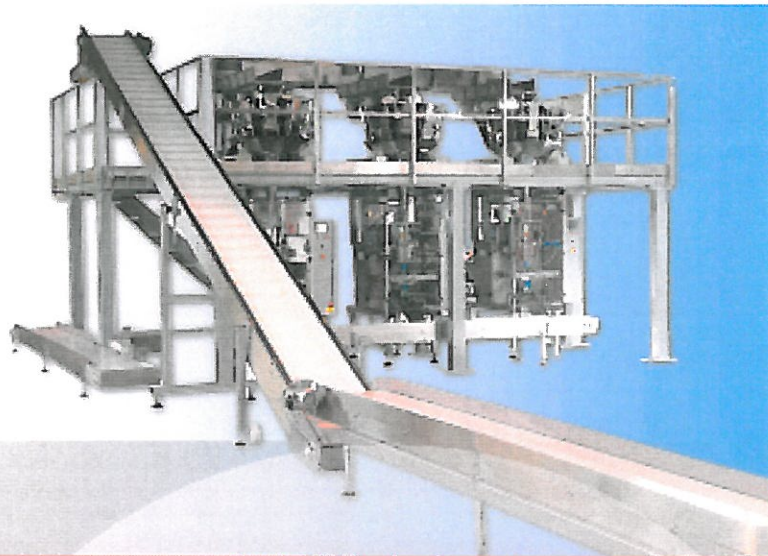
Coin Counter



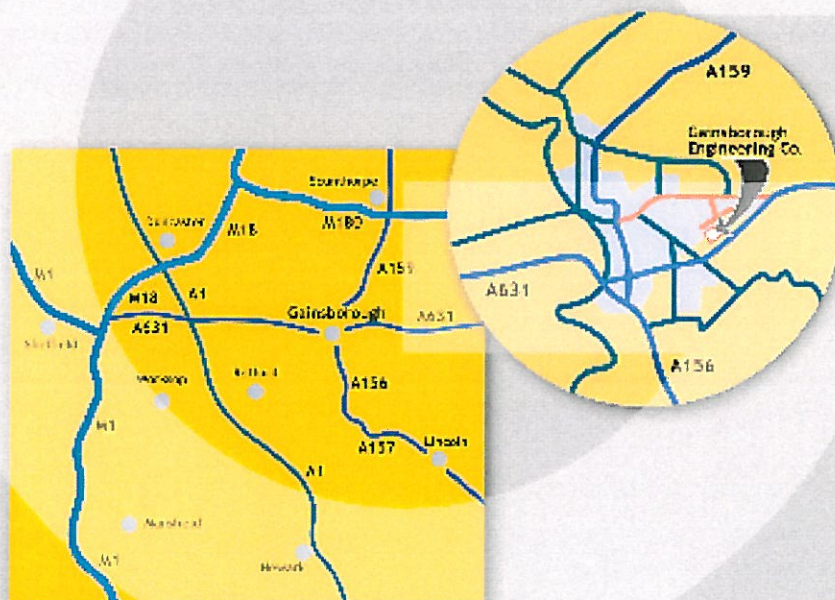
Bag in Bag

The examples shown indicate typical equipment that can be used with Gainsborough Vertical Form Fill Seal Machines.

Also the company undertake full turnkey and bespoke systems to customers specifications.



Multi-Head Gantry Mounted



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