



Boema S.p.A. factory

Aseptic filling machines
Mod. USA



Vegetable

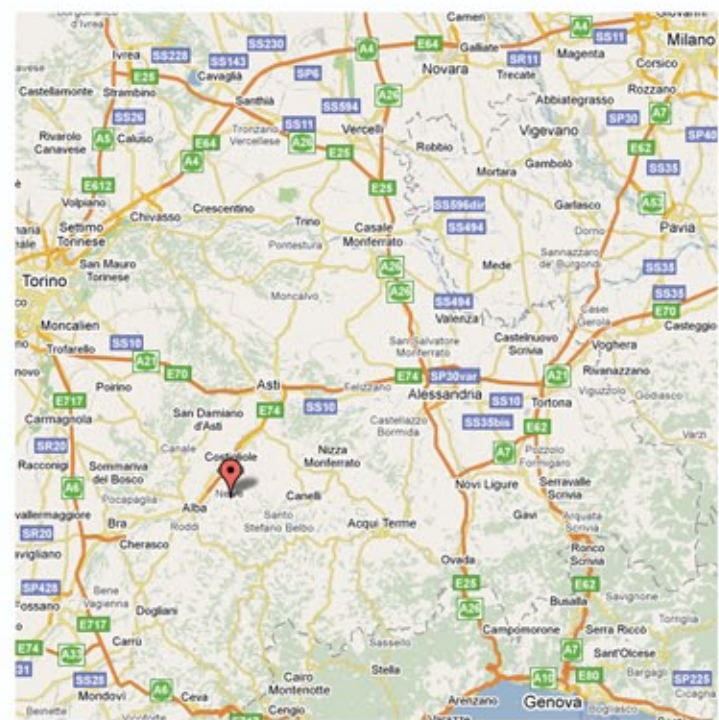
Fruit



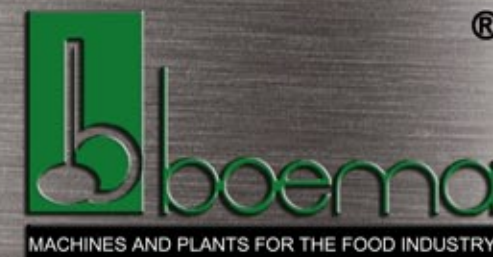
Some of our References



Gerber



FoodTech



FoodTech

**ASEPTIC FILLING MACHINES
MOD. USA**

Main features

Boema manufactures packaging plants able to fill liquid and semi-fluid products, with or without pieces, at room temperature and under aseptic conditions. These products should be previously sterilized inside a upstream sterilizer – cooler. The containers used are aseptic bags (pre-sterilized with gamma rays) with 1" o 2" inlet and a capacity comprised among 1 and 1.200 liters.

The available models are:

- **USA 151 "GIRO"**, with one movable head complete with central turning roller belt for the turnover filling of four 220 liters aseptic bags in drums or of one 1.200 liters single bag, "bag in box" type. Adapting the suitable device, it is also possible to pack 1-25 liters bags, "bag in box" type.

- **USA 151 "LINEA"**, with one movable head. It's the simplified and cheaper version of the model "GIRO". The filling of four 220 liters aseptic bags in drums on pallets is given by the movement of the filling head in combination with the pallet feed on the linear motorized roller belt. Also with this version, it is possible to fill the 1-25 liters "bag in box" and the 1.200 liters "big-bag" type.

- **USA 152 "GIRO"** with two movable heads.

- **USA 152 "LINEA"** with two movable heads.

- **USA 154** with one fix head. For filling aseptic bags in drums. from 1 to 220 liters

- **USA 155** with two fix heads.

Technical data

NB: The values given in the table are approximate. The capacities, referred to 220 liters bags' filling in drums, vary from 5.000 to over 9.000 kg/h according to the model, and must be guaranteed by the upstream sterilizer.

The maximum dimensions are calculated complete with all the accessories.

Model	N° of filling heads	Steam consumption [kg/h]	Air consum. at 6 bar [NI/min]	installed el. power [kW]	Water at 15°C [liters/h]	Overall max. dimensions (Lu x La x h) [m]
USA 151 "GIRO"	1	50	20	6	300	7,2 x 3,95 x 5,23
USA 151 "LINEA"	1	30	25	3	300	7,15 x 3,4 x 4,90
USA 152 "GIRO"	2	100	20	10	600	7,2 x 6,25 x 5,05
USA 152 "LINEA"	2	60	50	6.7	600	7,15 x 6,4 x 4,75
USA 154	1	50	20	1	300	2,80 x 2,3 x 4,15
USA 155	2	100	20	1	600	3,20 x 3,7 x 2,90



Filling machine Mod. USA 151 available on models "GIRO" and "LINEA"

USA 151

With one single movable head for 1 to 1.200 liters aseptic "big-bag" filling



Filling machine mod. USA 152 provided with 220 liters bags in drums on pallet. Detail of the group complete with one "BOEMA" concentric pipes sterilizer



Filling machine mod. USA 152 provided with 1.200 liters "big-bag" type bags



Filling machine Mod. USA 152 available on models "GIRO" and "LINEA"

USA 152

With double movable head for 1 to 1.200 liters aseptic "big-bag" filling



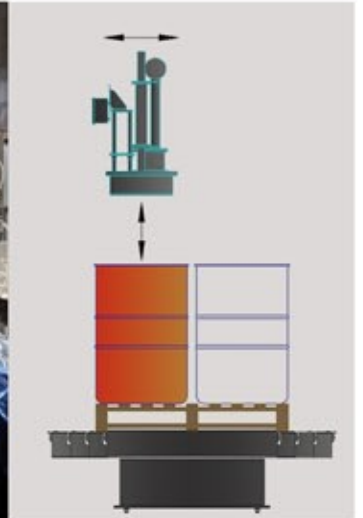
Aseptic storage tank (accessory) and electromagnetic flowmeter for the capacity measurement



Detail of the filling head set up for 1 to 220 liters bags



Filling phase of the 220 liters bag in drum



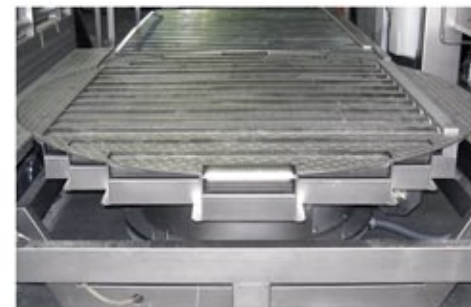
Explanatory sketch of the movable head available on models USA 151 and 152



Filling machine Mod. USA 154

USA 154

With one single fix head for 1 to 220 liters aseptic bags in drums



Detail of the rotating roller belt, available for models USA 151 and 152 "GIRO"



Device for 1 to 25 liters bags' filling, "bag in box" type



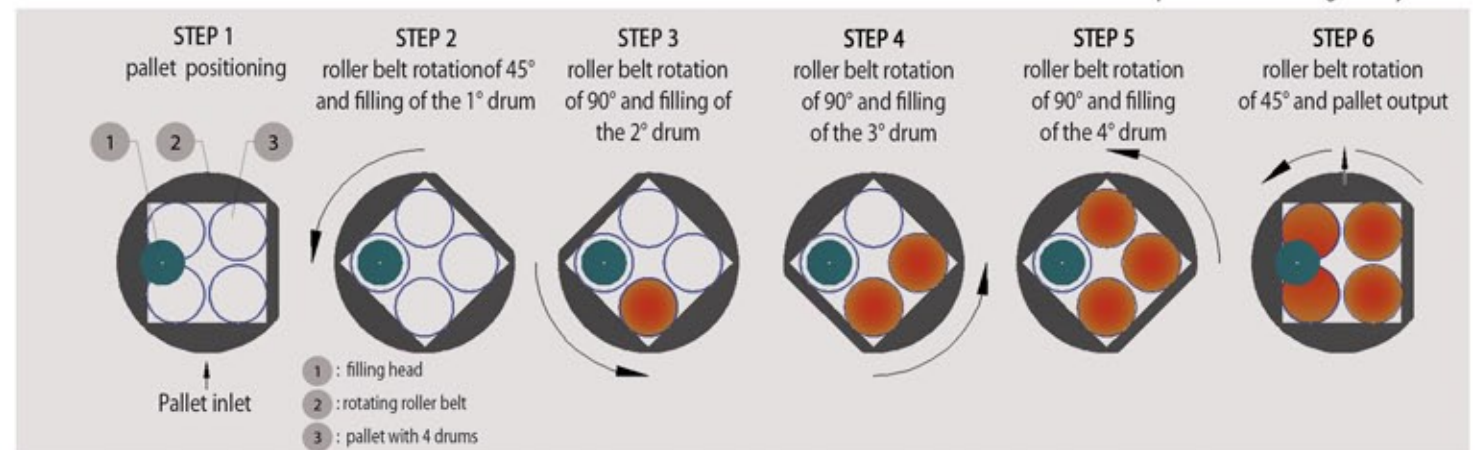
PLC for the management of the filling and running parameters' control phases and self-diagnosis system



Filling machine Mod. USA 155

USA 155

With double fix head for 1 to 220 liters aseptic bags in drums



Explanatory sketch of the filling phases for 220 liters bags in drums on pallet on models USA 151 and 152 "GIRO"