

Reliable Productivity and Safety in Filling Machines

RF

ROBOT FILLER SERIES

THE MOST AUTOMATED FILLER IN THE MARKET FOR THE FILLING OF PALLETISED 220L ISO DRUMS AND IBC USING LAST GENERATION ROBOTS.

Fully automatic filling machine **RF** from **AiCROV's Robot Filler Series**. A fully automated filler for filling liquid and viscous products in palletized 220 liters ISO drums and IBC completely automatically and safely for the operator, integrated in an automatic conveying line. It can also include the automatic debunging, bunging and sealing of the drums or IBC.

Benefits:

- ✓ Fully automatic filling at double flow with automatic tare in each cycle. Automatic bunging with adjustable torque available. Automatic sealing available.
- ✓ Fully automatic filling quality control at the end of each filling cycle to ensure that the required tolerances are fulfilled.
- ✓ Possibility of manufacturing in stainless steel and with special surface treatments for aggressive products and environments.
- ✓ Version for foaming, flammable, explosive and / or corrosive products.
- ✓ Customer's conveyor line tailor made designed.
- ✓ Easily integrable with other equipment such as labellers, palletizers...
- ✓ Maintenance and adjustment required much lower than traditional solutions.



EQUIPMENT CONFIGURATION AND OPERATION

1. Set up the filling recipe on the operator panel with the weight to be filled, the fine adjustment and the filling mode (by immersion, under bung hole or over bung hole). The operator panel can store the recipes for different products, so it is only necessary to enter them the first time.
2. Place the pallet with the drums or IBC on the infeed conveyor, which will automatically move them to the filler. When the containers reach the filler, the automatic process of detecting the bung hole (with an artificial vision system), debunging, filling, bunging and sealing will be done. The entire operation is performed completely automatically.
3. The operator should only worry about loading pallets with empty containers and unloading those that are already finished.

TECHNICAL SPECIFICATIONS

Approximate nominal production	Only automatic filling: : 65 drums/hour (220 liters) - 15 IBC/hour (1.200 liters)
	Debunging + Filling + Bunging: 40-45 drums/hour (220 liters) – 13 IBC/hour
	Debunging + Filling + Bunging + Sealing: 30-35 drums/hour (220 liters) – 13 IBC/hour
Approximate weight	1.400Kg
Weight scale resolution	3.000 divisions: 500gr (standard) 6.000 divisions: 250gr (optional) 10.000 divisions: 100gr (optional)
Power	Electrical: 240 VAC, 50-60Hz, <10Kw Pneumatic: 6Bar, 250 NI/cycle approx.
Room temperature	5-35°C (out of this range on request)
Product temperature	0-130°C (out of this range on request)
Movie	https://www.youtube.com/watch?v=yizM_l2z6SI&t=0s https://www.youtube.com/watch?v=X9Nkgqc3VJE

AVAILABLE ACCESORIES

- ✓ Gas hood with anti-drip system.
- ✓ Internal and external cleaning system of the filling nozzles.
- ✓ Overfill detection.
- ✓ Product hose support system.
- ✓ Integrated flushing system.
- ✓ Remote device access module.
- ✓ Proportional filling control.
- ✓ Coding of filling nozzles for incompatible products.
- ✓ Automatic grounding system for containers.
- ✓ Product feed pump control.
- ✓ Rack for filling nozzles storage.
- ✓ In/Out conveyors.
- ✓ Communication with plant.
- ✓ Data storage at AiCROV's DB.
- ✓ Nitrogen purging.