



# PLF International **Virtus | Series**



*Virtus* Inline Vacuum Filling Technology



## PLF Virtus

### An Innovation in Linear Filling

PLF Virtus is the best-in-class new range of linear vacuum filling machines, designed specifically to handle a wide range of milk based nutritional powders including infant formula and specialized medical nutrition at speeds up to 180cpm.

Developed by PLF's experienced team in the UK, the Virtus incorporates a new patent pending nozzle design that delivers up to 3-times higher throughput per head than previous machines, which greatly reduces changeover and cleaning times, maximizes yield, and reduces operational costs.

#### Compared to conventional rotary machines we can save



**50%**  
reduction in  
electrical  
demand



**20%**  
reduction in  
Compressed  
air demand



**30%**  
reduction in  
machine  
footprint



## SAFETY

### No Product Contamination Risk

Vacuum based filling system with no moving parts contacting the product removes the risk of metal to metal contact present in auger based systems.



## QUALITY

### Gentle Product Handling

PLF patent pending nozzle design requires no moving parts in contact with the product, ensuring its structure is maintained throughout the filling process.

### Dust Free Environment

Sealed filling station, to ensure a virtually dust free zone.



## INLINE VACUUM FILLER

METAL CANS

COMPOSITE

PLASTIC



*with  
shroud*



## PERFORMANCE

### Accuracy

PLF intelligent Individual head update system with automatic feedback from integrated check weigher running average weight system results in virtually no product giveaway with a batch accuracy of 0.15% or better.

### Low Maintenance / Cleaning

By reducing the number of heads and removing complex rotary mechanisms, we are now able to offer a machine that meets the speed demands and greatly reduces cleaning times and operational costs.

### Rapid Changeovers

POKE YOKE change parts for rapid changeover in 5 minutes. All parts are quick release and require no tools.



## HYGIENE

Dedicated for powder applications with 304 St.St open section frame with 316 st.st and FDA approved product contact parts.

All surfaces are easily cleaned and are designed in accordance with EHEDG principles to ensure no bug or dirt traps.

Cable trays / cabinets mounted with spacing for easy cleaning.

Continuous welds and rounded corners.

No exposed threads.

No hollow bodies.

Low-adhesion stainless steel surface ViwaTeq treatment for low adhesion of powder and easy cleanability on product contact parts.

SPECIFICATIONS	
<b>NUMBER OF HEADS</b>	1 – 2 – 3 – 4 – 5 – 6
<b>MAX. OUTPUT SPEED</b>	30 – 60 – 90 – 120 – 150 – 180 cpm (subject to container and product)
<b>MACHINE HAND</b>	Left > Right OR Right > Left
<b>ACCURACY</b>	0.15% of Batch Weight (average weight) 1.5 – 2.5g @ 1SD (minimum weight)
<b>MAX CAN HEIGHT</b>	260 mm
<b>FILLING NOZZLE TYPE</b>	Standard nozzle Positive shut off nozzle Volumetric nozzle for granular products Shrouded nozzle (semi-rigid containers)
<b>REJECTED CANS CONVEYOR</b>	Up to 20 cans (127mm)

UTILITY CONSUMPTION	
<b>COMPRESSED AIR (@6 BAR) L/MIN</b>	1 head 45 l/min
	2 head 90 l/min
	3 head 135 l/min
	4 head 180 l/min
	5 head 225 l/min
	6 head 270 l/min
<b>ELECTRICAL POWER KW</b>	1 head 3 kW
	2 head 3.5 kW
	3 head 5.6 kW
	4 head 6.4 kW
	5 head 8.2kW
	6 head 9.3kW

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SUSTAINABILITY

### OUR BRANDS



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