

# MACRO PWD

POWDER MACRODOSING MACHINE



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Macro PWD is an automatic intermittent motion machine designed to dose powder, granules and milled products in glass or plastic bottles and jars. The machine is the result of over 50 years of experience in pharmaceutical powder filling with over 100 machines successfully installed worldwide.

Able to satisfy the current safety and handling requirements, Macro PWD is available in three different configurations:

- **D:** monobloc version with one dosing unit, one closing group for pressure cap, screw cap and Alu-PFP cap and measuring cup.
- **2D:** monobloc version with two dosing units, one double closing group for pressure cap, screw cap and Alu-PFP cap and measuring cup.
- **4D:** machine version with four dosing units to dose up to two different types of powder in the same bottle.



Macro PWD - Monobloc version



## MAIN FEATURES

- ACCURATE AND CLEAN FILLING.
- MINIMUM AND MAXIMUM BOTTLE INLET/OUTLET LOADING SENSORS.
- NO BOTTLE – NO FILL CONTROL DEVICE.
- DEDICATED BELT FOR AUTOMATIC REJECTION OF INCORRECTLY FILLED BOTTLES OR MISSING CLOSURES.
- OPEN RABS FOR POWDER CONTAINMENT.
- EASY ACCESS TO THE WORKING AREA.
- GREAT VISIBILITY OF THE WORKING AREA DURING PRODUCTION.



Macro PWD - 4D version

# MACRO PWD DOSING SYSTEM



**THE POWDER DOSING SYSTEM FEATURES THE CONSOLIDATED AUGER TECHNOLOGY, WHICH GUARANTEES EXTREME PRECISION AND PRODUCT SAFETY, EVEN IN THE CASE OF LONG PRODUCTION CYCLES.**

**Dosing phases:**

1. A dedicated feeding system conveys the product from the feeding connection to the dosing hopper.
2. Product level sensors inside the dosing hopper guarantee constant product volume.
3. A servomotor-driven stirrer prevents product bridges inside the hopper.
4. The auger, also driven by a servomotor, doses the product.
5. A lifting device raises the container during the filling process guaranteeing accurate and clean filling.



- AUGER, STIRRER AND DOSING NOZZLE DESIGNED ACCORDING TO PRODUCT FLOW CHARACTERISTICS, FILLING VOLUME, PRODUCTION SPEED REQUIREMENTS AND CONTAINER MOUTH DIAMETER.
- AUTOMATIC ADJUSTMENT OF THE DOSING GROUPS IN CASE OF 100% IPC.
- DOSING ACCURACY UP TO  $\pm 1\%$ .
- EASY REMOVAL OF ALL PARTS IN CONTACT WITH THE PRODUCT FOR QUICK CLEANING OPERATIONS.
- SERVOMOTOR DRIVES.



# MACRO PWD 100% IN-PROCESS CONTROL

MACRO PWD CAN BE FITTED WITH A 100% CHECK-WEIGHING SYSTEM FOR DIRECT CONTROL OF NET WEIGHT DURING THE PRODUCTION CYCLE.

The weighing cells, positioned before and after the filling process, detect the tare and the gross weight of the bottles while the control system calculates the weight of the product dosed. Out of weight bottles are rejected via a dedicated belt.

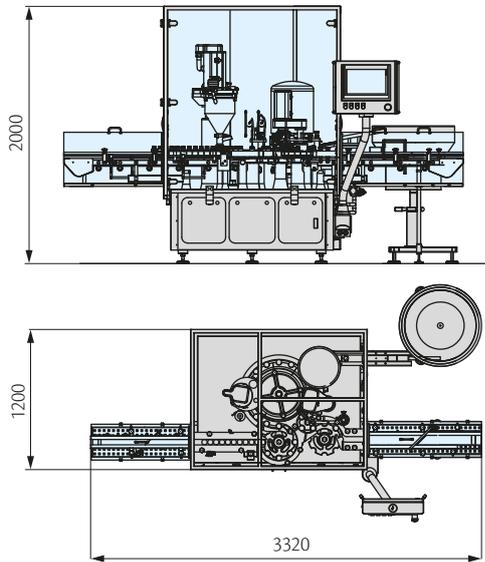


## CONTROL SYSTEM

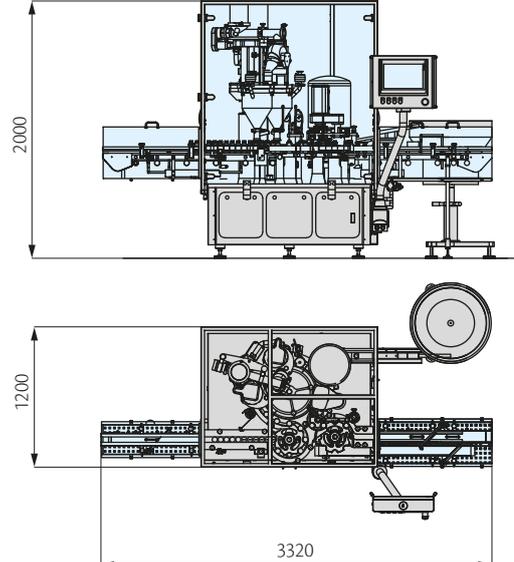
MACRO PWD IS FITTED WITH A SIEMENS PLC AND HMI. WHILE DISPLAYING DATA AND MACHINE WORKING PARAMETERS, MACRO PWD HMI OFFERS THE PROPER TOOLS FOR COMPLIANCE WITH THE LATEST RULES AND GUIDELINES.

# TECHNICAL DATA

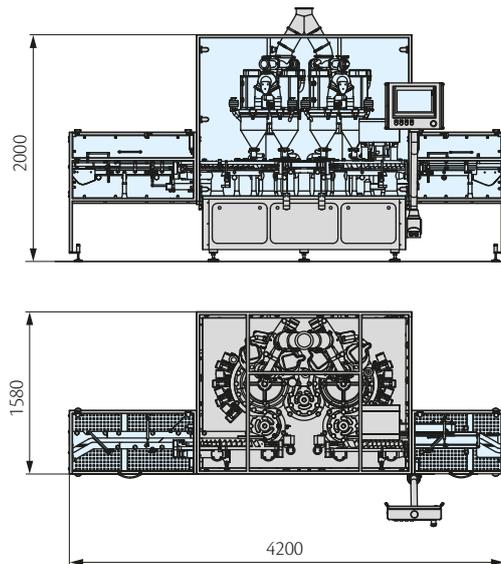
## D VERSION



## 2D VERSION



## 4D VERSION



### MACRO PWD

Machine version	D	2D	4D
Dosing units	1	2	4
Closing groups	Yes	Yes	No
Bottle range $\varnothing$ (mm)*		30-60	
Bottle height (mm)		60-170	
Filling volume (g)		1-100	
Output (bottles/minute)	Up to 35	Up to 70	Up to 150
Standard voltage		400 V - 50 Hz	
Installed power (kW)	7	9	14
Weight (kg)	1800	1900	2500

\*Bottles with different diameters can also be handled with dedicated size parts.

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marketing.life.it@ima.it • ima.it/pharma/brands/ima-life  
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