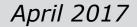
Case history: Adapta 100/200







IMA: a synthesis of industrial experiences from all over the world





40 MANUFACTURING SITES



90% EXPORT









IMA Non-Pharma sector includes divisions and companies that are recognized as leaders within their individual markets:

✓ **Tea & Herbs Division** for packaging tea, herbs and coffee in filter bags and pods;

 \checkmark Gima SpA for packaging tea and coffee in capsules, chewing gum and sweets in innovative packs, and for the high level of assembly technology;

✓ **FillShape Srl** for filling in stand-up pouches;

✓ Gima TT SrI for smart and flexible packaging technologies;

✓ **Corazza SpA** specialized in lines for soup cubes, butter and processed cheese in various formats;

✓ **BFB Division** with its wide range of end of line machines;

✓ **Revisioni Industriali Srl** for perfectly overhauled second-hand machines.



IMA PHARMA is divided in 3 brands



- Granulation •
- Tableting •
- Capsule filling
- Etc....

- Sterilizing •
- Aseptic processing
- Freeze Dryng Equipment
- Lyophilization Process
- Etc.

- Packaging
- Tablet & Capsule counting
- Tube filling
- Jar filling
- Etc. •

4



Before Adapta



TECHNICAL DATA ZANASI PLUS			
	ZANASI PLUS 16	ZANASI PLUS 48	ZANASI PLUS 70
Maximum output (capsules/hour)	16,000	48,000	70,000
Number of capsules per cycle	2	6	9
Capsule size	000-5, supro A-E, DB, DBAA		00-5, supro A-E, DB, DBAA
Maximum installed power (kW)	8	14	
Aspiration	3,200 litres/minute		4,600 litres/minute
	2,400 mm H ₂ O		3,100 mm H ₂ O
Compressed air	100 dm ³ /min - 6 bar		
Vacuum	100 m ³ /h - 3 mbar		
Standard voltage	230/400 V (±10%) - 50/60 Hz		
Weight (kg)	1,000	1,100	1,200



A new concept: Adapta



TECHNICAL DATA ADAPTA				
MODEL	ADAPTA 100	ADAPTA 200		
Maximum output (capsules/hour)	100,000	200,000		
Number of capsules per cycle	12	24		
Capsule size	5-00, DB, DB.A	5-00, DB, DB.A		
Maximum installed power (kW)	17	18		
Aspiration	9,500 litres/minute - 3,200 mm H ₂ O	9,500 litres/minute - 3,200 mm H ₂ O		
Compressed air	115 litres/minute - 6 bar	115 litres/minute - 6 bar		
Vacuum	100m ³ /h - 3 mbar (abs.)	165 m ³ /h - 3 mbar (abs.)		
Standard voltage	400 V - 50 Hz	400 V - 50 Hz		
Weight (kg)	1,800	2,000		



Comparison







Key features

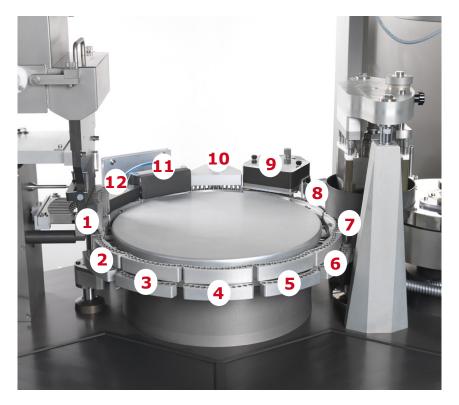
 \checkmark Adapta's DNA has its roots in IMA's 50 years of experience and more than 5,000 capsule filling installations worldwide.

 ✓ This knowledge and experience have allowed the IMA capsule fillers to evolve and adapt to the ever changing requirements of the market.

✓ **Flexible Configuration**: Station can be removed or added upon customer needs.



Work Flow



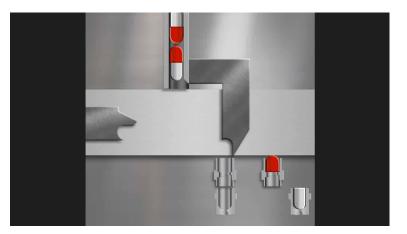
- 1. Empty capsule feeding
- 2. Capsule presence control (**optional**)
- 3. Dosing station (**removable**)
- 4. 100% in-line dosage control or dosing station (**optional**)
- 5. Dosing station (**removable**)
- 100% in-line dosage control or dosing station (**optional**)
- 7. Dosing station (**fix** or **removable**)
- 8. 100% in-line dosage control (**optional**)
- 9. Rejection of unopened capsules
- 10. Capsule closing
- 11. Ejection of filled capsules
- 12. Cleaning of transport bushes



Station 1: Capsule infeed and opening

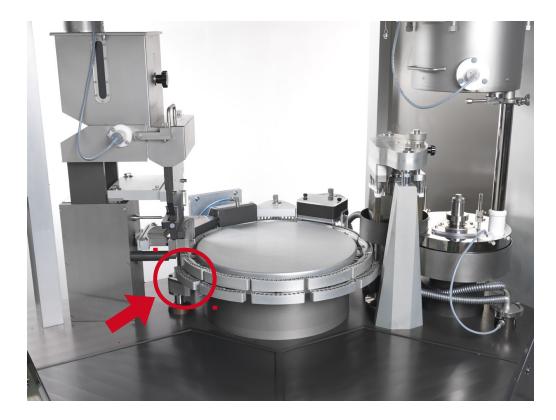


The capsule arriving from the infeed hopper is accurately positioned and inserted into the bushings, where the cap is removed from the body by means of vacuum. An empty capsule weighing system can be fitted, in case the machine is fitted with 100% net weight check by scale.





Station 2: Capsule presence control

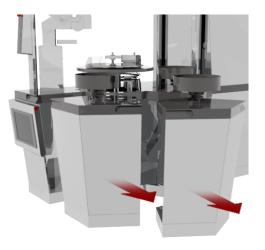


This station is available for capsule presence control (optional).



Station 3: Dosing Station

This station is available to fit a removable dosing unit (powder, pellets, tablets, microtablets, liquids).







Station 4: Dosage control system or dosing station



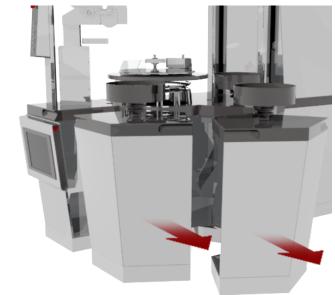
As an option, this station can be fitted with a 100% in line control of product dosage. Upon request, a product dosing unit can be installed as an alternative.



Station 5: Dosing station



This station is available to fit a removable dosing unit (powder, pellets, tablets, microtablets, liquids).





Station 6: Dosage control system or dosing station



This station is available to fit a removable dosing unit (powder, pellets, tablets, microtablets, liquids).



Station 7: Standar dosing unit

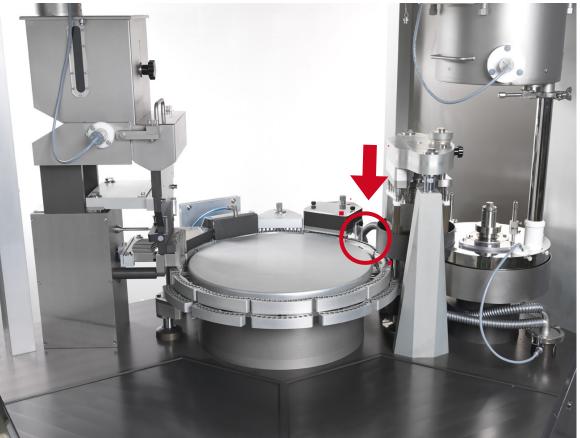
This station is available to fit either a fix or a removable dosing unit (powder, pellets, tablets, microtablets, liquids).







Station 8: Dosage control system

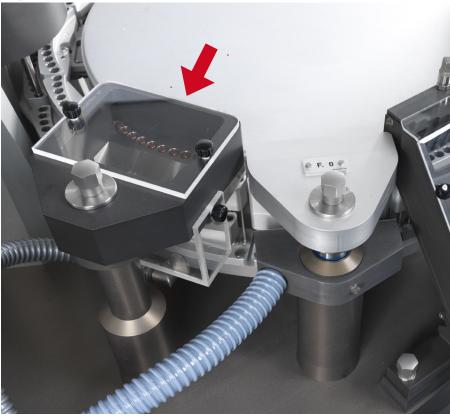


As an option, this station can be fitted with a 100% in line control of product dosage.



Station 9: Unopened capsule selection and removal

Any unopened capsule is rejected by means of appropriate pushers.

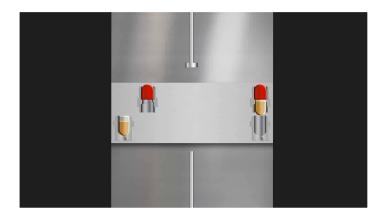




Station 10: Capsule closing



The bushings containing the capsule bodies realign themselves with the corresponding caps, the capsule is then closed by appropriate pushers.





Station 11: Capsule discharge

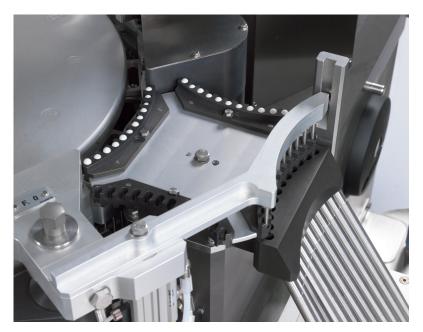


Closed capsules are discharged by the combined action of pushers and compressed air. A conveyor chute transports the capsules towards the finished product container.





Station 11: Capsule discharge



A statistical or 100% weighing unit can be installed at capsule exit for gross weight control, or for total net weight control, in combination with the empty capsule weighting system placed in station 1.



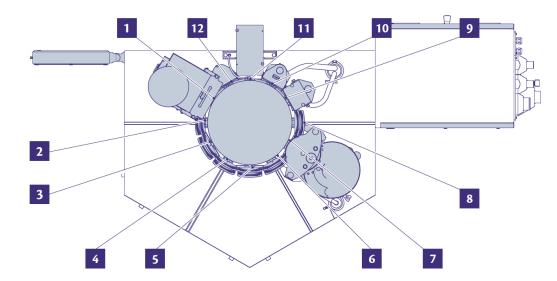
Station 12: Bushing cleaning



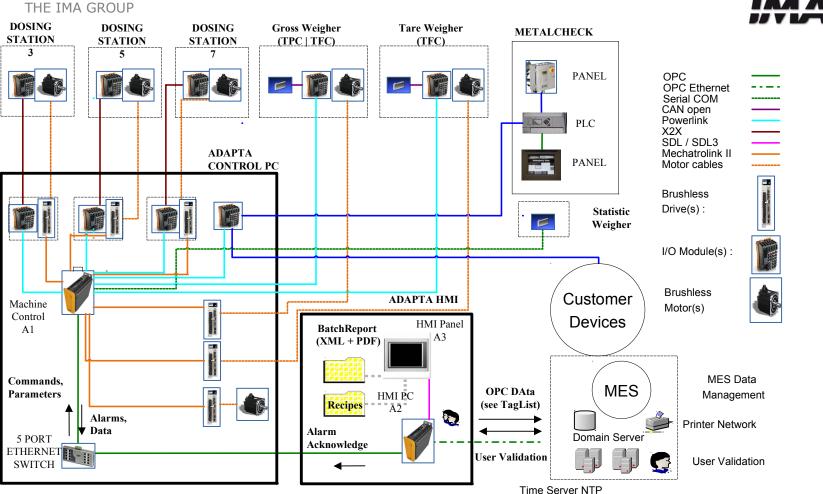
Upper and lower bushings are cleaned of any residual dust by means of compressed air and suction nozzles.



Exceptional design flexibility



- Three removable, reversible/interchangeable dosing units.
- Stations 4 and 6 can be used for additional dosing units instead of controls, making the machine suitable for the combination of up to 5 different products in the same capsule.



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Thank you for your attention

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