

DPIs

ADVANCED PROCESSING
AND ASSEMBLY SOLUTIONS



IMA  **ACTIVE**

IMA  **MED-TECH**

POWERED BY
IMA  **AUTOMATION**

PRECISION. CONSISTENCY. CONTROL.



IMA DRAWS ON ITS
EXTENSIVE EXPERTISE
TO PROVIDE THE MOST
ADVANCED SOLUTIONS
FOR DPI PROCESSING
AND ASSEMBLY.

Direct weight control performed in line
on each single capsule or device before
and after filling.

Absence of mechanical powder compression
for improved airway intake.

Accurate micro-dosing and automatic feedback
and adjustment.

Highly flexible and precise inhaler assembly.

All of this is more than any other production
equipment can achieve today.



DPIs DOSING PRECISION





IMA Active is the ideal partner for solid dose processing and manufacturing. In-depth experience and constant commitment to innovation make us a leading supplier, best equipped to find the most suitable solution to your requirements. Our expertise in capsule filling goes back to the 1950's and today we boast over 6,000 installations worldwide. Dosing precision, flexible configuration and easy inspection together enhance the quality of your products. High accuracy control and unrivalled experience in high containment are the hallmarks of our filling solutions.

We draw on our extensive expertise to provide the most advanced solutions for DPI processing.

Our machines can fit special dosators for DPIs and can accurately adjust the dosing chamber without any need to compress or aspirate the powder. The gravimetric direct net weight control is an exceptionally accurate system embedded within the machine. Its reliability and repeatability are ensured by two zeroing cells to guarantee precise weight measurement. These weighing cells provide a zero value at the beginning of each operation, allowing for real-time compensation of any weight fluctuations.



DPIs ADVANCED PROCESSING





THE BEST SOLUTIONS FOR **DPI PROCESSING**

- ACCURATE MICRO-DOSING
- IN-LINE GRAVIMETRIC DIRECT WEIGHT CONTROL
- AUTOMATIC FEEDBACK AND ADJUSTMENT
- CONTINUOUS CALIBRATION OF WEIGHING CELLS
- STANDARD DEVIATION: 0.1 mg

ADAPTA 50, 100, 200

The ADAPTA capsule filling machines cover low, medium and high-speed production requirements and feature exceptional design flexibility. Fitted with the 100% gravimetric direct fill weight control, ADAPTA ensures maximum dosing precision and reliability even at high speeds, up to 200,000 capsules/hour.

PRECISA 70, 150, 230

Conceived for 100% weight control and selection of pharmaceutical products packed in hard gelatine and HPMC capsules, PRECISA uses an extremely reliable product transfer system to the weighing cell that minimises vibrations. After weighing, any out-of-weight products are rejected.

DPIs ASSEMBLY SOLUTIONS

IMA MED-TECH, powered by IMA AUTOMATION, designs and builds turn-key assembly solutions for the medical device industry. Continuously drawing on innovative technologies together with comprehensive knowledge of processes, we provide engineered solutions for medical device projects at every stage. Our competent team of process engineers provides needed support in terms of Proof of Principle and Design for Manufacturing studies.

We assist you in designing your device from early stage development right through to providing high output, fully automated assembly lines. And when the device progresses from low to high output automation, we adopt an analytical approach to assess risks and thereby avoid costly re-designs and significantly shorten lead times.

With our technology for DPIs, we offer our customers the optimal solution for the design, assembly and performance enhancement of inhalers.

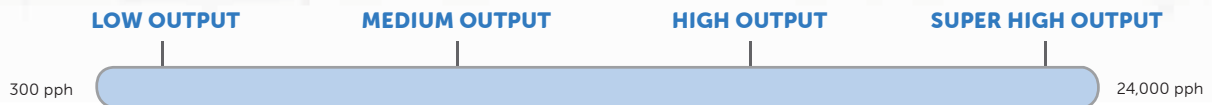
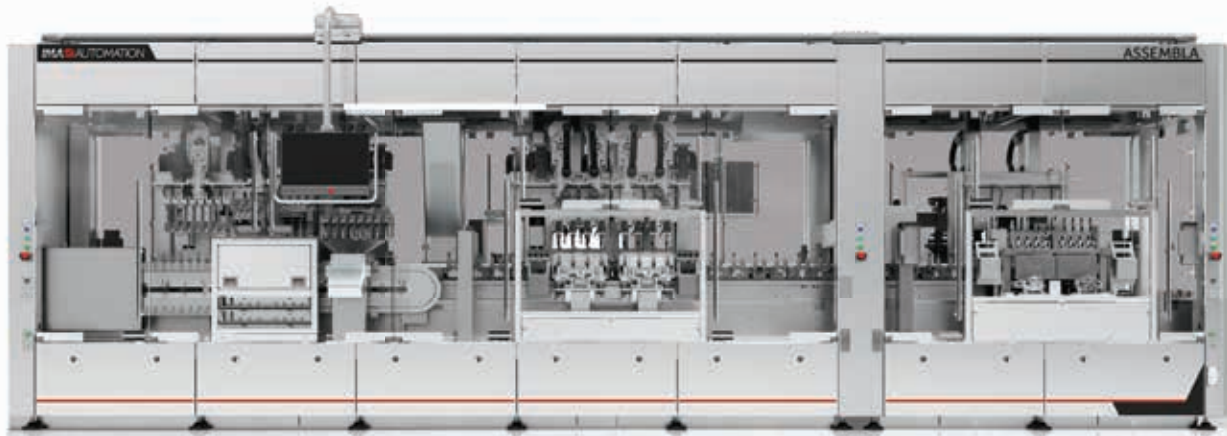
Our platform's sequence of operations includes:

- powder dosing
- capping
- assembly of all components
- packaging
- vision system
- orientation and welding of the medical device.





DPIs CUSTOMISED SOLUTIONS



CUSTOM SOLUTIONS

ASSEMBLA
FULLY CUSTOMISED

TRANSPORT SYSTEM

- INDEXING, FREE FLOATING PALLET, CAM DRIVEN
- MAGNETIC

PRODUCT TYPE AND PROCESSES

BASED ON PRODUCT TYPE (INHALER) AND KEY PROCESS NEEDED



THE BEST SOLUTIONS FOR **DPI ASSEMBLY**

- HIGHLY FLEXIBLE INHALER ASSEMBLY
- SEMI-AUTOMATIC OR AUTOMATIC RUNNING MODE
- 100% WEIGHT-CHECK FOR ACCURATE AND RELIABLE PRODUCTS
- EASY-TO-CLEAN
- SMALL FOOTPRINT

ASSEMBLA - OUR CUSTOMISED SOLUTIONS **FROM LOW TO MEDIUM OUTPUT**

Dedicated to flexible, low production outputs (1,200 pph). It can feature automatic or semi-automatic stations. Versatile, modular and compact, this platform is perfect to start production of your DPI's.

HIGH OUTPUT

Our solutions support high-output production (9,600 pph). With a robust and compact design, available in multiple configurations to fit your requirements using proven components, it enables efficient, reliable and cost-effective DPI production.

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