

Marketing&Communication Department

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Press release

Synchro 24, a Monoblock Packaging solution that insures the highest packaging efficiencies at high production rates and in a small footprint.

Presentation

Compact 24 Synchro is one of the latest **packaging innovations by** Marchesini for the **solid dosage packaging** market. This monoblock is designed to **manage high production rates** (up to 150 vials a minute), at the same time **insuring the highest counting precision**. **The combination of precise counting at high speeds** is due to the combined use **of two Marchesini Group technological innovations**. Our **"Twin flap"** technology **increases the speed of** the 12 channels of each counting unit **by drastically reducing the dwell time of the bottle under the funnel** (without increasing the number of contact parts). **The second innovation is the** synchro-dynamic conveyance system that transfers the counted product into the vial **in continuous motion** as the vial itself is fed along the line.

The efficiency of the production process – from the upstream phase of counting to the insertion of the cotton, right through to capping, **in combination with the Marchesini trade mark of ease of cleaning and quick changeover results in the most innovation Monoblock Solid Dosage Counting line on the market today.**



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Capitale Sociale € 11.445.000,00 I.V. * SOCIO UNICO

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Technical features

Vial infeed

The bottles are fed to the line using our Sirio 3 combination Bottle

Unscrambler/Coder” that can feed round, square, oval and rectangular vials.

Once they have been **oriented** in the correct position (in a horizontal position), the **10 station coding** carousel equipped with a 90° rotation system, **inverts** the vials where an ink-jet or laser printer prints a barcode or datamatrix code on the bottom **of the vials.**

The **vials** are then cleaned internally by a filtered air jet spraying system **complete with a dust** extraction system built into the base of the machine, or installed externally. A camera in this same station can verify the codes.

After cleaning, the vial is **inverted** 90° until it is vertical **and fed to the Counting station.** Vials with **illegible or incorrect codes are rejected.**

Counting Speed and Precision

The **production** efficiency of the *Synchro* unit is based on a “*twin flap*” system, which **splits the 12 channels of each counting unit into two**, thus creating a double counter for each unit. This technology **and design is unique as no additional or special** vibrating plates that **feed** and distribute the product **are required. All that is needed is to choose the “Twin Flap’ setting for that specific product.**

To **increase the** speed of the counting units, the machine **uses a synchro-dynamic conveyance system**, the real heart of the *Synchro* technology. **The Synchro-dynamic system is designed to insure a continuous counting operation rather than intermittent. The product is dispensed into pre-drop funnels which then follow the bottles and drop the product into the bottles**



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while they are moving, all in a smooth and efficient manner. The Synchronic process along with the “Twin Flap” technology insures the most reliable and accurate counting technology available.

To simplify and **reduce** size changeovers, the positive motion vial conveyance system in the counting monoblock adjusts itself automatically to compensate for dimensional variations (diameter and height) **of each vial.**

New cotton insertion unit

The new cotton insertion unit is **also** the **result** of **Marchesini’s R&D department understanding** commonly encountered operating problems. The two sacks of cotton are positioned in a **dedicated seat created at the back of the monoblock**, which is **easily** accessible from the outside **as well as** carefully isolated from the filling **area.**

The conveyance system of the cotton **uses** transfer cups arranged in a horizontal position. The cotton is inserted into the cups, which are then mechanically turned into a vertical position where the cotton is transferred into the vials. This technical solution **eliminates transferring the dust into the bottle produced when the cotton is torn.** The dust generated during the tearing phase is removed by the suction ports in **the initial transfer area.**

The capping unit

The last unit on the machine combines the Cap Orienting and feeding Eco400 feeder that feeds the caps and the 8-spindle Rotary Capping unit. Each spindle is managed individually by a dedicated **servo motor which insures precise and reliable cap torques.**

The feeding/Coding, Counting, Cottoning, and Capping innovations of The **Synchro 24 make it the most compact and reliable solid dosage packaging/counting solution on the market today..**



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