

SMART ALL ELECTRIC MOULDING SOLUTIONS

In 2010, the **Japanese company** revolutionized injection moulding EC-SX series of **all-electrics**. The powerhouse of injection moulding, it not only gave moulders faster dry cycle times, longer mould life and more uniform clamping force, but more shot sizes from a single machine and the most advanced controller on the market.

Now we have taken the next step. Introducing the all-new **EC-SXIII**, all-electrics with the same versatility and performance, along with a streamlined frame design, significantly faster injection speeds and new features making your investment work harder and smarter. Extremely flexible and versatile, the new EC-SXIII is ideal for virtually all moulding applications, from **automotive**, to **medical**, **electric**, **electronics**, **packaging** and **technical**.

NEW V70 CONTROLLER

The new **V70** controller represents the V50's evolution and allows the user a simplification in use and functionality.

1. USER FRIENDLY INTERFACE

The 19" display improves the visibility of the pages and the screen is divided into two parts. Scrolling is improved and is multi-touch screen.

2. DEVICE MANGER

The different devices interconnected with the mould can be managed directly by the machine. The continuous monitoring by **iPaqet** lets to verify data at any time and to prevent production defects. This is a great support for smart factories.

3. TIME REDUCTION

With the new controller, that meets the requirements of **Industry 4.0**, it is possible to achieve an **active preventive maintenance**. Vibrational analysis and on-board sensory analysis allow a continuous monitoring of lots of data. In case of deviations, it is possible to act in remote assistance to avoid machine stops.

4. PROGRAMMABLE CHACES

The new V70 controller enables to program the sequences by defining the simultaneous operations and those in sequence. The interface is intuitive and it is easy to move the different icons to create the sequence.

SHORTEN CYCLE TIMES WITH SIMULTANEOUS MOTION STANDARD ON THE EC-SXIII

Simultaneous motion is **standard** on the new EC-SXIII. Cycle times can be improved up to **30%** with the combination of simultaneous motion and high-speed movement.

- **EJECT ON THE FLY:** Eject parts as the clamp opens, dramatically improving cycle times. In most cases, the mould opens and closes without a pause for ejection.
- **LAP SEQUENCE:** Allows injecting as soon as the mould halves touch. Improves cycle time and venting of the tool.
- **CLAMP RELAX:** The clamp immediately relaxes during cooling, taking more time off the cycle.
- **ADDITIONAL SIMULTANEOUS SEQUENCES THAT SHRINK YOUR CYCLE TIMES**
 - Opening the mould while charging;
 - Pulling the core in and out on the fly.
- **STRESS REDUCTION:** Coining, which allows the injection to start at lower tonnage and increase to full tonnage during injection, reduces internal stress on the parts.
- **REPEATABILITY AT HIGH SPEEDS:** Even at top speed, with multiple functions working seamlessly in tandem, there is no loss of precision or accuracy.

E.P.F. Elettrotecnica S.r.l.

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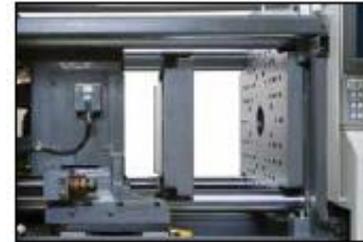
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FEATURES AND BENEFITS



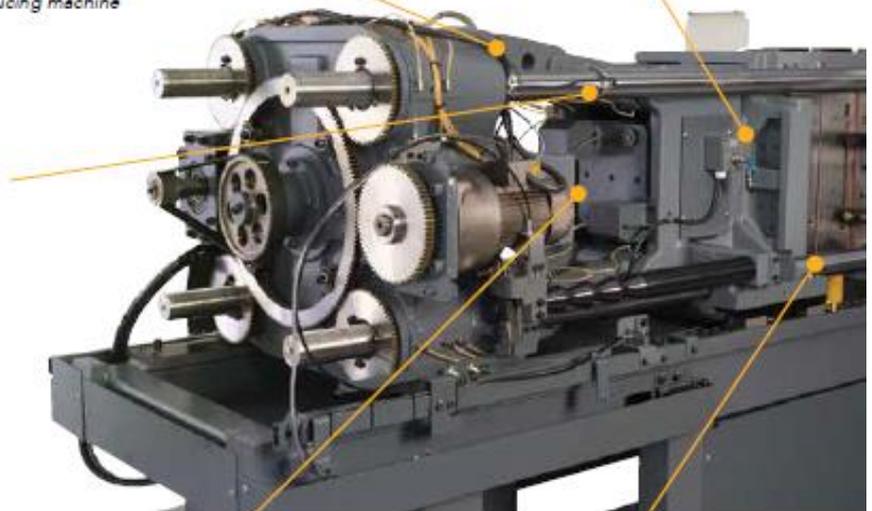
The ECSXIII's 5-point Link-line toggle mechanism is angled to distribute force evenly across the platen, increasing quality and minimizing defects. It has the added benefit of extending mold life and reducing machine maintenance.



Two-piece removable platens can be changed out in 15 minutes giving you extraordinary flexibility.



Strain gauge adjusts tonnage automatically and on the fly during the cycle. This ensures accurate tonnage at all times.



Ball screws are designed to push heavier loads, spreading the load across a much larger surface area than conventional ball screws.



With bushing-free, grease-free tie bars, there's less chance of contaminating molded parts, increasing your shop's quality.

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(S3) Simple, Steady, Smooth – Friction free drive system ensures more accurate injection speed and back pressure control, improving shot-to-shot repeatability throughout the processing cycle.



The heavy weight on the injection unit is supported on linear guides, greatly reducing the drag of injection and backpressure.



The ECSXIII uses an advance load cell which ensures accurate control of injection pressure. In combination with the V70 controller, this load cell achieves Scientific Molding over the balance of the mold without the use of internal transducers.



Easy access to tie in the ejection plate to the press, for faster, easier mold changes.



You can now fit hydraulic power units directly under the ECSXIII, thanks to the machine's redesigned, space-saving frame (power units not included). Its streamlined design also allows easy access to electrical panels and components.

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