

# biPOTRONIC

**ELECTRIC**

low-pressure

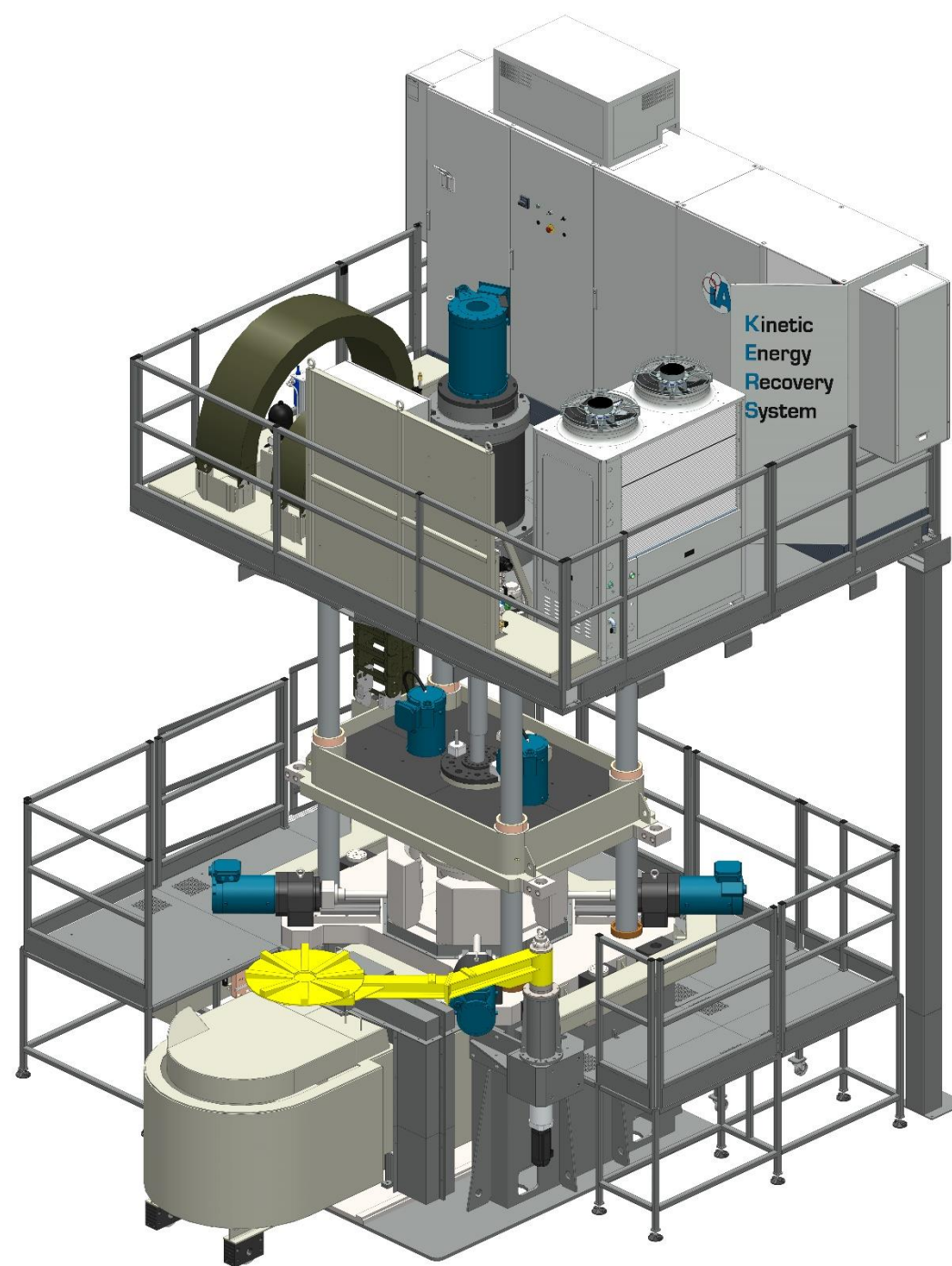
**CASTING**

press

bPTRONIC



LOW-PRESSURE casting press  
with full-electric technology.



**BP Tronic** is the **one and only low-pressure casting** press entirely driven by **full-electric motors** that applies a completely innovative and revolutionary concept and method.

This press is equipped with a vertical screw closure unit with **direct-drive transmission**, driven by a torque motor, plus four horizontal axes arranged at 90° driven by screws and nuts always with direct-drive transmission and torque motors.

Because of its **unique features**, the press offers **several advantages** over rival state-of-the-art technology. The most important one is the possibility to **control the start and stop** of each single horizontal axis individually. For instance, we can set up their starting sequence according to **preset** delays (time) or according to preset measurements (distance).

We can also **set up the end position** of the horizontal axes in two ways: simultaneous end position of the four axes (interpolation of the axes) or free end position, that is, the first axis to start is the first to arrive.

There are considerable **advantages** compared to traditional technologies, in particular the possibility of adjusting each axis independently in terms of speed, position and possible sequence in terms of arrival, as well as the positioning **repeatability** guaranteed by a **CNC** control, even when temperatures vary, which is a normal variable in the foundry sector.

A **wide range of functions** can be achieved and monitored, since the BP Tronic press is equipped with a real CNC controller, as well as **sensor technology** and specific **algorithms** to perform **process control** during the work phase.

# K P I - Key Performance Indicators

1. **Ease of use** (thanks to a modern and intuitive user interface, the operator is guided through each step when using the machine)
2. **Full-electric** (high flexibility, accuracy and repeatability)
3. **Energy saving** (KERS system)
4. **Highly customizable** (100% know-how by Automazioni Industriali)
5. **CNC technology** (absolute repeatability and process control)
6. **Synchronization** (optimization of operations)
7. **Fast cycle times** (reduction by 20%)
8. **Algorithms** (control, supervision and management of key process parameters)
9. **Compact layout**
10. **Mobile App**- IOS e Android (remote machine monitoring)

Notes

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