

Ecotre-Colosio-ESI awarded for Technological Innovation at METEF International Innovation Awards

ESI's exclusive Italian Casting Agent Ecotre Valente s.r.l, Italian Die Casting Machine manufacturer Colosio s.r.l and ESI Group were jointly awarded the METEF 2017 International Innovation Award in the "Machinery" category - For the development of an integrated simulation software / press configuration aimed at reaching the cost and quality requirements for a specified die cast product. From being empiric and approximate, the choice of a press becomes objective and precise, aligned with the characteristics of a real press. Ecotre-ESI & Colosio were located adjacently at the METEF exhibition to display this technological innovation to the die casting community.



The METEF Innovation award is intended to promote the innovation content proposed by the Exhibiting Companies in the different areas of interest during the exhibition. Over the last several years the award, with its International nature, is given away to innovations applied to the production, transformation, machining and use of metal products or components. The innovation content proposed will be evaluated based on the degree of originality and innovation, the performance features and the competitive advantages that they are able to offer, favoring in particular that aspects of energy savings eco-sustainability and protection of the resources contained in the proposals covering outstanding projects concerning foundry, die casting and extrusion, technologies and production processes, machines & systems.

This technological innovation integrates Colosio Machine Database, HPDC Machine selection workflow enabling the user to know the operating point and operating zone of the machine, using the Pressure (P)-Flow Rate(Q)² graph and ESI ProCAST solver to achieve virtual piston control in real time. Enabling a user to set-up parameters just as on the real machine, this enhancement provides a considerable time gain for process-design, and delivers the possibility to run a virtual benchmark and select the appropriate machine for specific jobs. The optimized piston velocity can be exported from ProCAST onto the Colosio machine. *"Finally, a die casting machine and a simulation software are able to communicate properly to facilitate the lives of foundries. Transforming reality into virtual and vice versa is no longer just a project, but a reality for all our customers,"* says Davide Colosio, CEO of Colosio S.r.l

