

## Environmental Product Declaration (EPD)

# Presezzi's commitment to a more sustainable future



Presezzi extrusion press

Presezzi Extrusion Group has proven experience in the production and commissioning of extrusion lines for non-ferrous metals, particularly in the aluminium field. The company was founded 30 years ago as a producer of extrusion presses for aluminium, copper and brass. To date, the Group has published two EPDs for its Permanent Magnet Heater ZPE and its Extrusion Press ESS.

Thanks to its ongoing commitment and investment in research and development, geared towards improving and making its machines increasingly efficient and sustainable, the Presezzi Extrusion Group today offers complete turnkey extrusion lines, as well as modern foundries for aluminium alloy logs.

Presezzi's management policy has always been based on ethical principles, considering energy efficiency and savings as essential components and cornerstones of the Group's engineering and production expertise. It is no coincidence that Presezzi was among the first in the world to voluntarily develop the Environmental Product Declaration (EPD) for its products.

EPDs are declarations that present clear, objective and verified information about the environmental performance of a product, assessed over its entire life cycle. To date, Presezzi Extrusion Group has published two EPDs for the products:

**S-P-06355 Permanent Magnet Heater ZPE (Zero Pollution Energy)** – an innovative magnetic induction heating system for billets of



Presezzi Energy Saving System (ESS)

non-ferrous materials, where the only energy required is to drive the magnetic sectors. The Global Warming Potential (GWP) is 96 kg CO<sub>2e</sub>/tonne of heat-treated aluminium. In reference to ZPE 10", billet length 1,500 mm.

**S-P-06388 Extrusion Press ESS (Energy Saving System)** – an energy saving system for extrusion presses that reduces power consumption during production and improves the yield and quality of the extruded profiles. The GWP is 87 kg CO<sub>2e</sub>/tonne of extruded aluminium in reference to press ESS 40-MN, 10", billet length 1,500 mm.

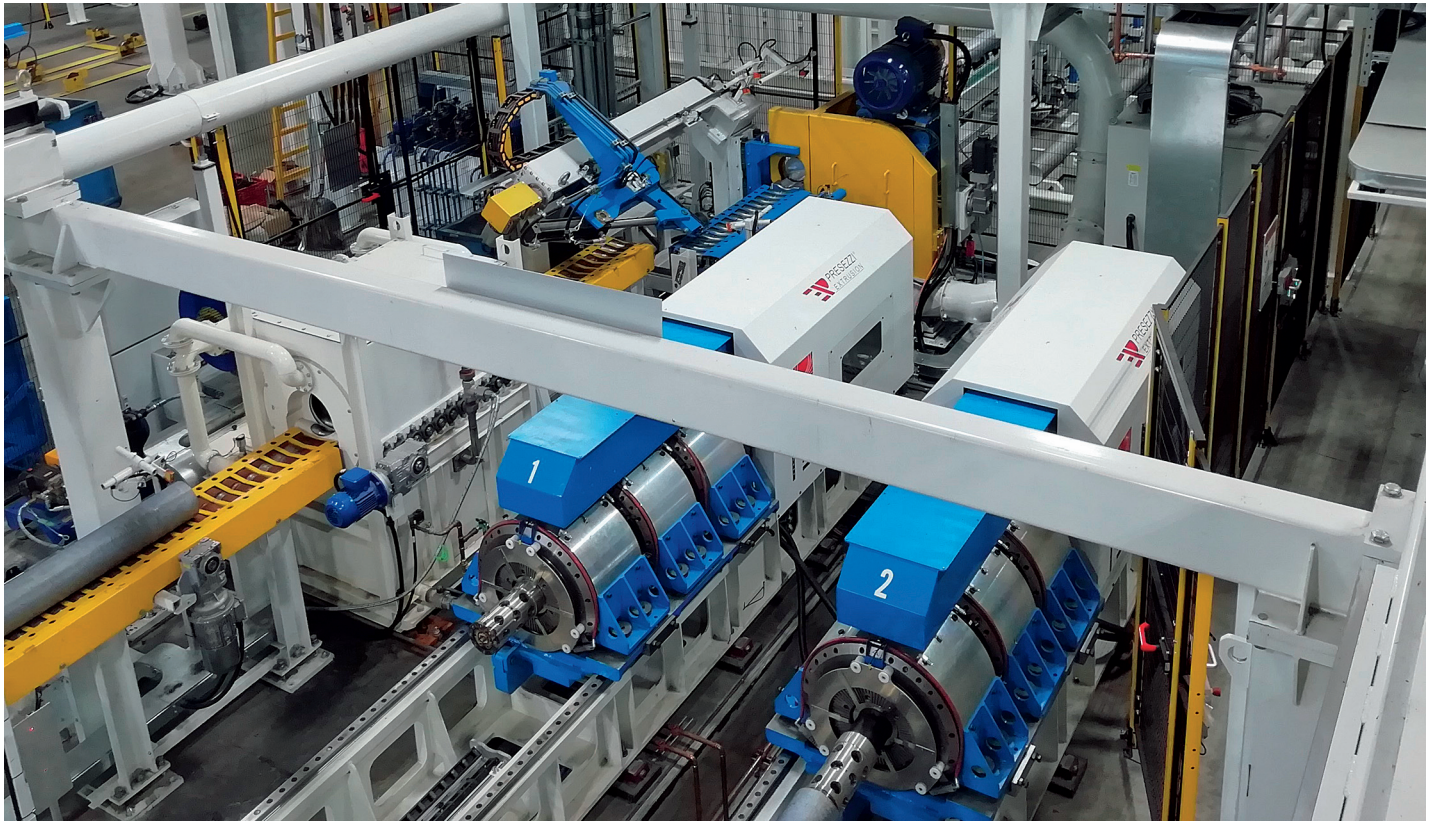
The EPDs are available for consultation at [www.environdec.com](http://www.environdec.com).

Presezzi's aim is to provide customers with technologies that enable environmentally friendly production without compromising production performance and efficiency.

### EPDs measure the environmental performance of products

With the EPDs for these two technology products, Presezzi Extrusion Group helps its

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ZPE Permanent Magnet Heater

customers to enable exemplary behaviour by providing them with a tool that certifies the environmental impact of the machine for working metal throughout its entire life cycle, thus obtaining an important information for assessing the overall impact of the final product.

The Group uses the EPD to measure and clearly communicate the environmental performance of its products, expressed through various impact indicators such as: climate change, eutrophication, acidification, use of abiotic resources and water scarcity.

One of the key prerequisites that prompt-

ed the decision to obtain the EPD is the possibility to use the EPD to determine the total CO<sub>2e</sub> consumption, and not just of the product. It offers clients the possibility to objectively determine their own impact on the climate, and thus also to act constructively to reduce and/or completely eliminate it.

Obtaining EPD certification requires a very structured and accurate process that aims to capture key information needed to measure, monitor and implement targeted actions to reduce the impact of products on the environment and climate.

The first step in developing an EPD is to

conduct a Life Cycle Assessment (LCA) of the product, which complies with international life cycle analysis standards (ISO 14040-44) and the rules of the selected Programme Operator (in this case, the International EPD System: the leading and most widely used Programme Operator at an international level for environmental product declarations).

The Life Cycle Assessment is a procedure to quantify the potential environmental impacts generated by a product or service along the entire value chain. The LCA methodology therefore supports innovation, eco-efficiency, the circular economy and also the communication and marketing of more sustainable products.

The results of the LCA study are then carefully verified by an independent third party before being reported in the EPD, together with other information concerning the products under analysis, the company, and its environmental policies. Once ready, the EPD is registered and published on the Programme Operator's website and can thus be viewed by anyone.

Day by day, Prezezzi Extrusion Group demonstrates its commitment to handing over a better world to future generations: the constant search for innovative and sustainable technological solutions, and the obtainment of these certifications, are further proof of this.



ZPE Permanent Magnet Heater with operator panel