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Si Jet

silane injection system

Expressly developed for Silane injection, Elav® **Si-Jet** is the ideal solution for cable insulation based on liquid silane crosslinking technology.
The system is made of a highly reliable unit which offers high-level dosing accuracy and controllability. Facilitating a safe and efficient dosing, important aspects for maintaining the product consistency and quality, the **Si-Jet** system is designed to reduce the installation and commissioning time and to guarantee ease of maintainance.
The Si-Jet is provided with a *double check* on Silane dosing, performed by a combination of *gravimetric dosing* (i.e. load cells) and *mass flow meter*, that guarantee high accuracy and repeatability, even at very low addition rates: when an incoherent measure is detected an alarm is triggered in order to alert the operator to stop the production and avoid wasting of materials.

The control of the **Si-Jet** system is deputed to a PLC unit that can be easily interfaced to existing lines by means of Profibus/Profinet connections.
Thanks to a combination of static and dynamic mixing techniques, supported by an injection system integrated into the dynamic mixer used to wet all granules regularly, **Si-Jet** system is able to *homogeneously feed solid and liquid materials directly into the extruder*. This represents a *real alternative to using compounds* and a way to maximize earnings ***reducing the costs of raw materials***.
Si-Jet can be used to dose almost any liquid, including any cross-linking agent, since all parts in direct contact with the material are made of *stainless steel AISI 316* and *PTFE* and any potentially flammable liquid is managed in inert atmosphere (using Nitrogen).







Applications	Silane, cross linking agents, inorganic liquids, organic liquids, oils.
Special features	All parts in direct contact with the material are made of *stainless steel AISI 316* and *PTFE*, inert atmosphere by mean of Nitrogen.
Advantages	High accuracy and repeatability, double dosing check, wide range of applications, compact design.
Dosing accuracy	+/- 0.1 of mean value.
Control	By mean of PLC: it can be interfaced by mean of Profinet/Profibus connections.
Power supply	230VAC – 50/60Hz (other options upon request).
Dimensions	Two modules "back to back" 1000Lx1400Hx400W mm, other configurations upon request.

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