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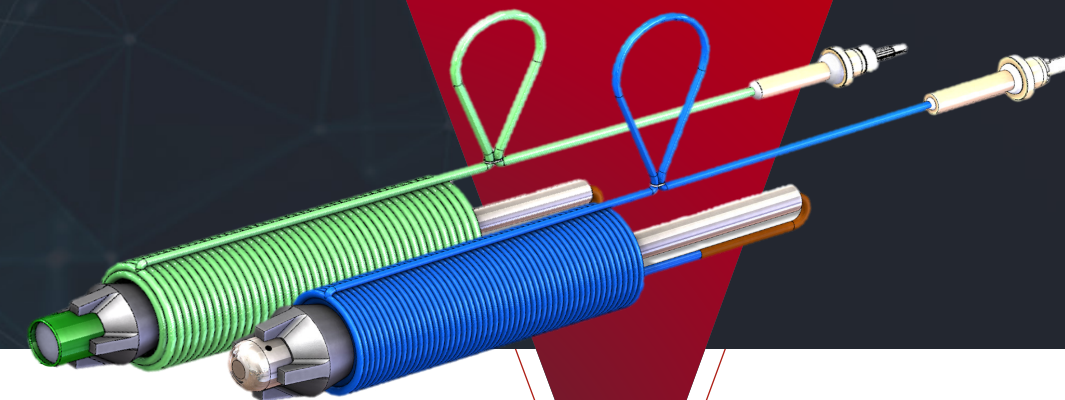
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PRODUCT

## Drop Sensors

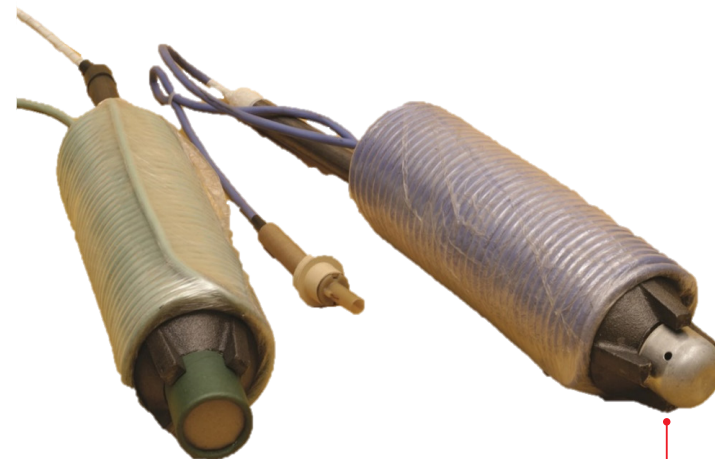
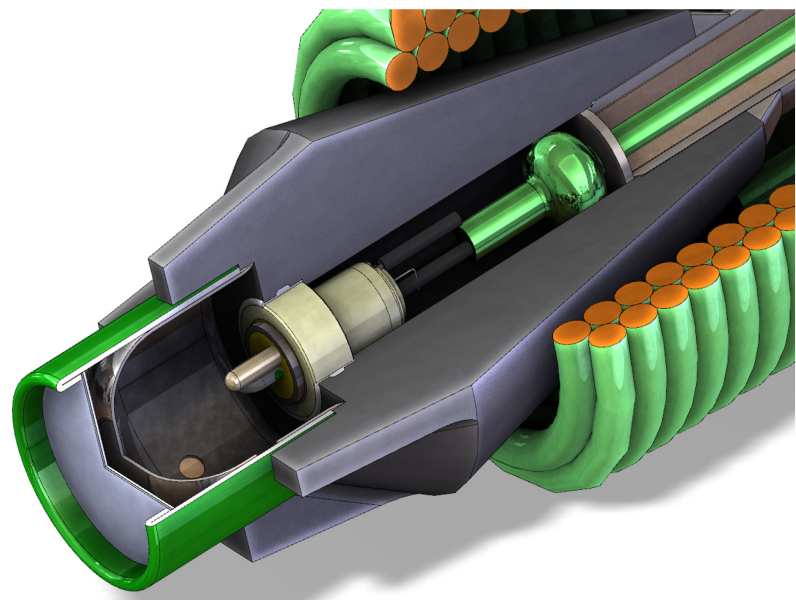
### Disposable free fall sensors for BOFs

- Provides an effective way of obtaining bath temperature and oxidation in converters
- A perfect solution in plants where subblance systems cannot be installed
- A product that can be customized to for an optimized fit for your application
- Automatic dropper mechanism increases safety and reduces process time

# The different Drop Sensor models

## A simple solution to control BOF process variables

- Free-fall DROP SENSOR products are used in BOF, during and after Oxygen blowing, to determine the bath temperature, its oxidation levels and predict the carbon content.
- They replace in most part the functions of a Sublance Probe, but requires much simpler installations and maintenance procedures.

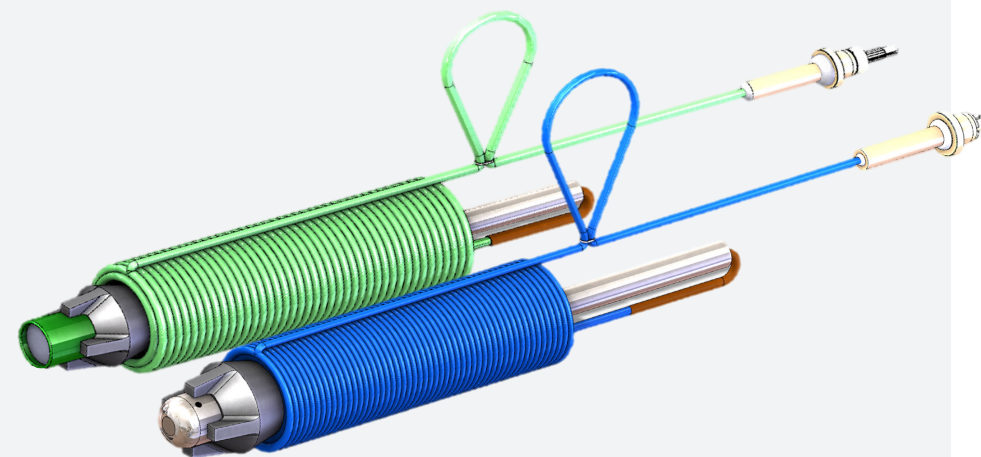


Drop Sensor TO

Drop Sensor T

## An ideal design for the best performance

- The Drop Sensors are composed of a measuring head attached to a metallic rod rolled by a robust cable (typically 20m ~ 25m or 65' ~ 80' long) whose length is customized for the customer needs.
- The construction of this sensor guarantees ideal geometry and density to remain steady in the steel bath and well positioned for a stable and accurate measurement.



## The different Drop Sensor models

- The drop sensors can be provided with thermocouples Type-B (IPTS 48 or IPTS 68)
- Drop Sensors come in 2 different versions:
  - Drop Sensor T: Measures only the bath temperature and is usually used during In-Blow;
  - Drop Sensor TO: Measures bath temperature and oxidation, usually used during End-Blow.

## A complete solution for your process

- The Drop Sensors can be manually thrown inside BOFs through the material chute, or an automatic dropper mechanism can be provided.
- The dropper mechanism allows the user to load a pre-determined amount of sensors that can be automatically dropped inside the converter when required. The loading procedure can happen every shift or every few heats depending on the size of the dropper and customer consumption.
- Vesuvius is able to customize dropper mechanisms to best fit our customer applications.

