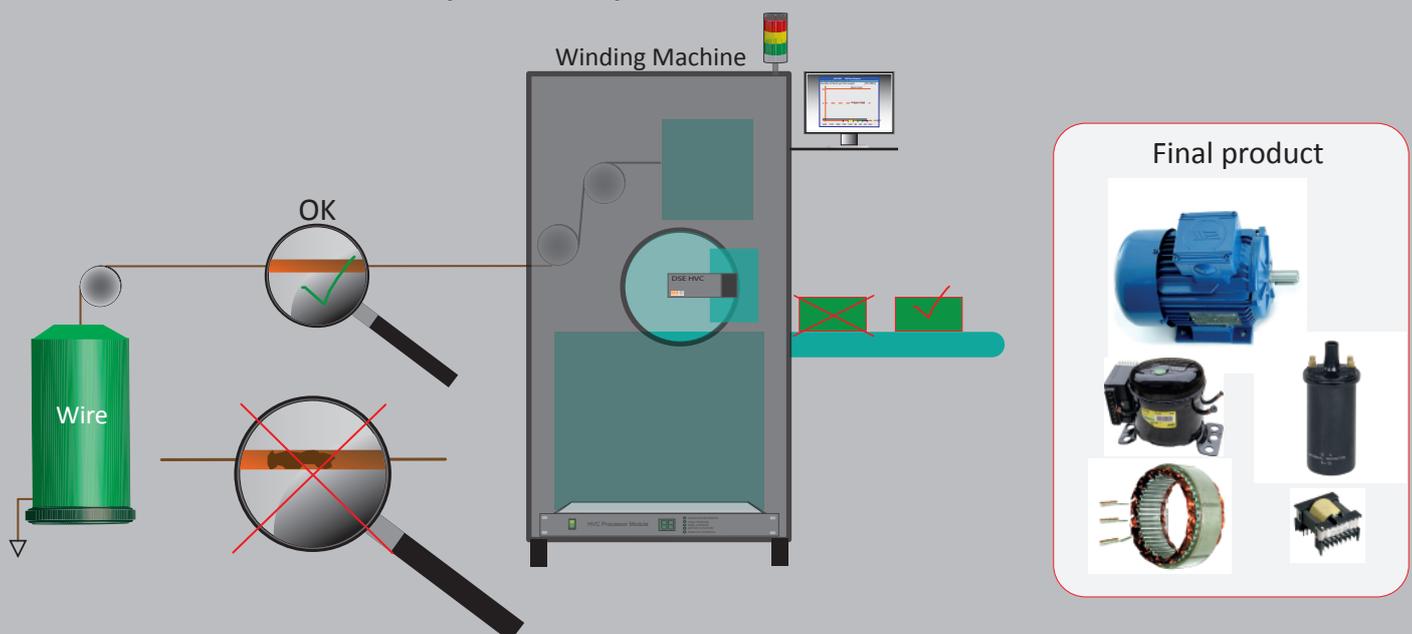


Installing a High Voltage Isolation Tester means:

- * Know the quality of the wire before start manufacturing items.
- * Minimising the need for rework , means saving time and money.
- * Reduces scrap and claims from customer.
- * No delayed deliveries because of rework.

Example of a production line.



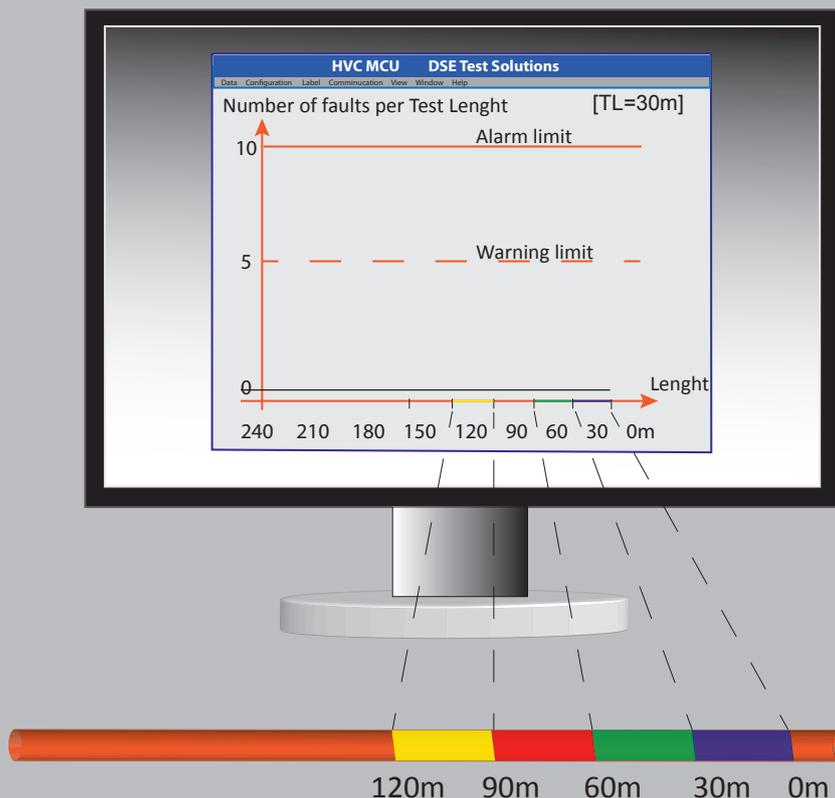
The High Voltage Isolation Tester can be inserted in the production line as a separate operating unit.

The instrument makes a constant surveillance of the isolation of the wire by counting the number of pin holes. In case of problems with the isolation of the wire an alarm will be activated.

The number of accepted pin holes differs much from one application to another application.

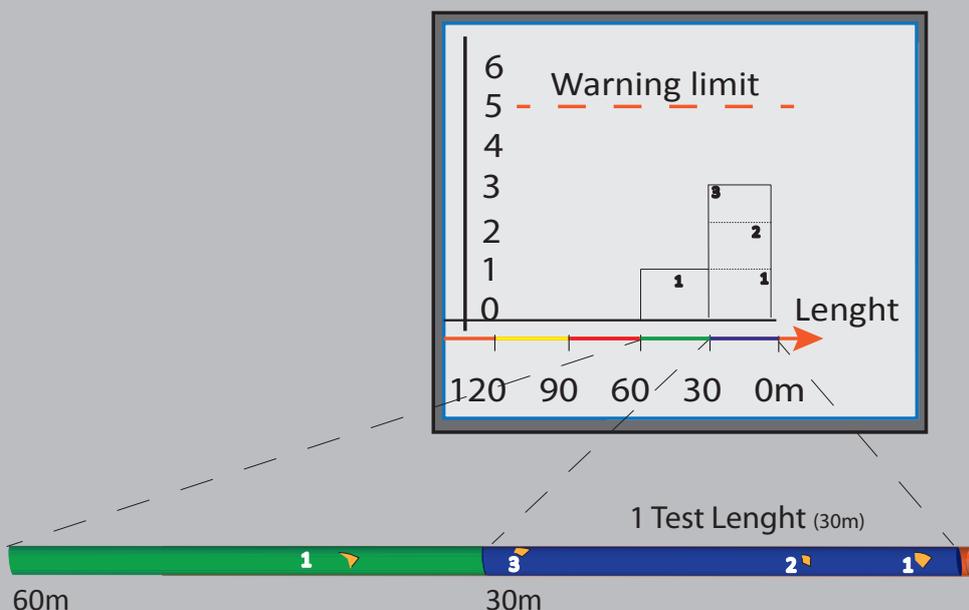
The right setting according to the wire type and application can easily be set in the user friendly software.

How to monitor the Isolation quality



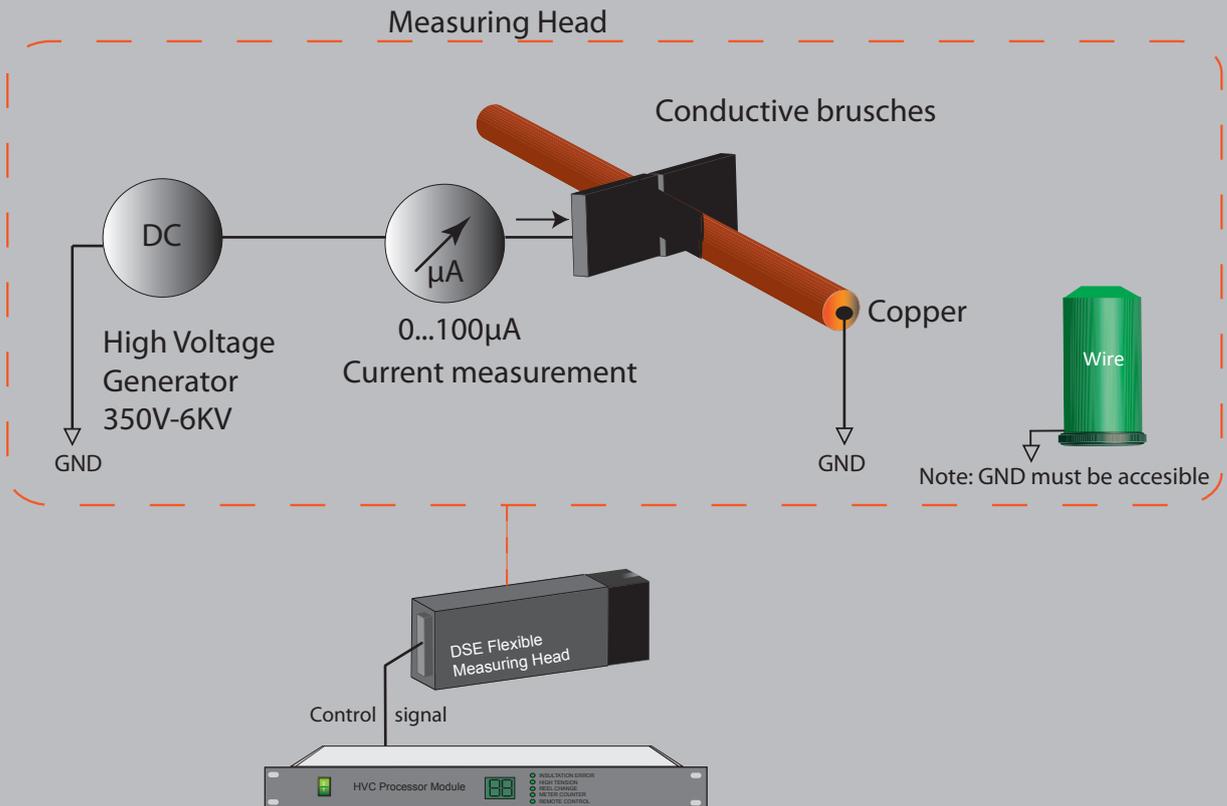
The High Voltage Isolation Tester detects any pin hole in the surface and in case of pin holes the number is being showed on a monitor for each Test length.

The wire is divided into Test lengths. A Test length can be set from 1 meter to 1000 meter. A typical Test length being used is 30m (10 feet) as showed in the above example.



The number of failures within a Test length is being detected and shown on the PC screen.

Measuring principle

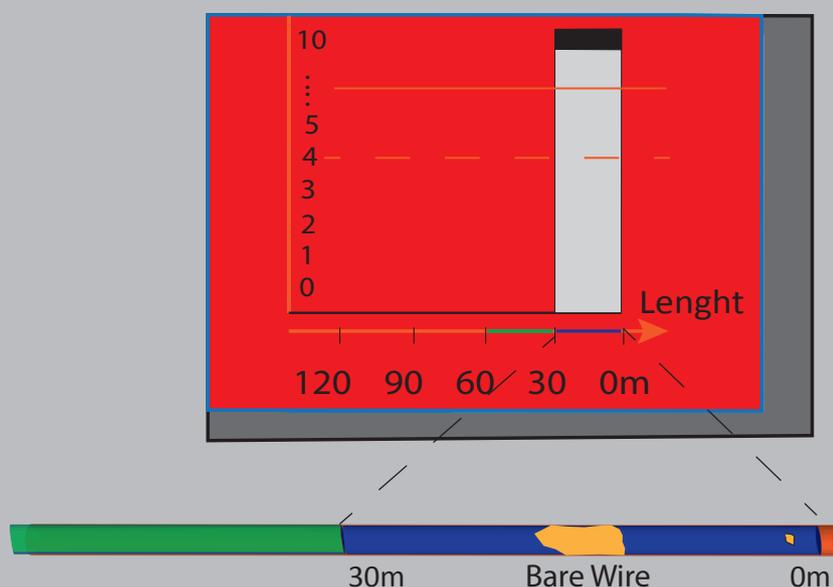


Principle: The conductive brushes secure a full 360 deg. coverage around the wire. No current flowing through the isolation means no pin hole is being detected.

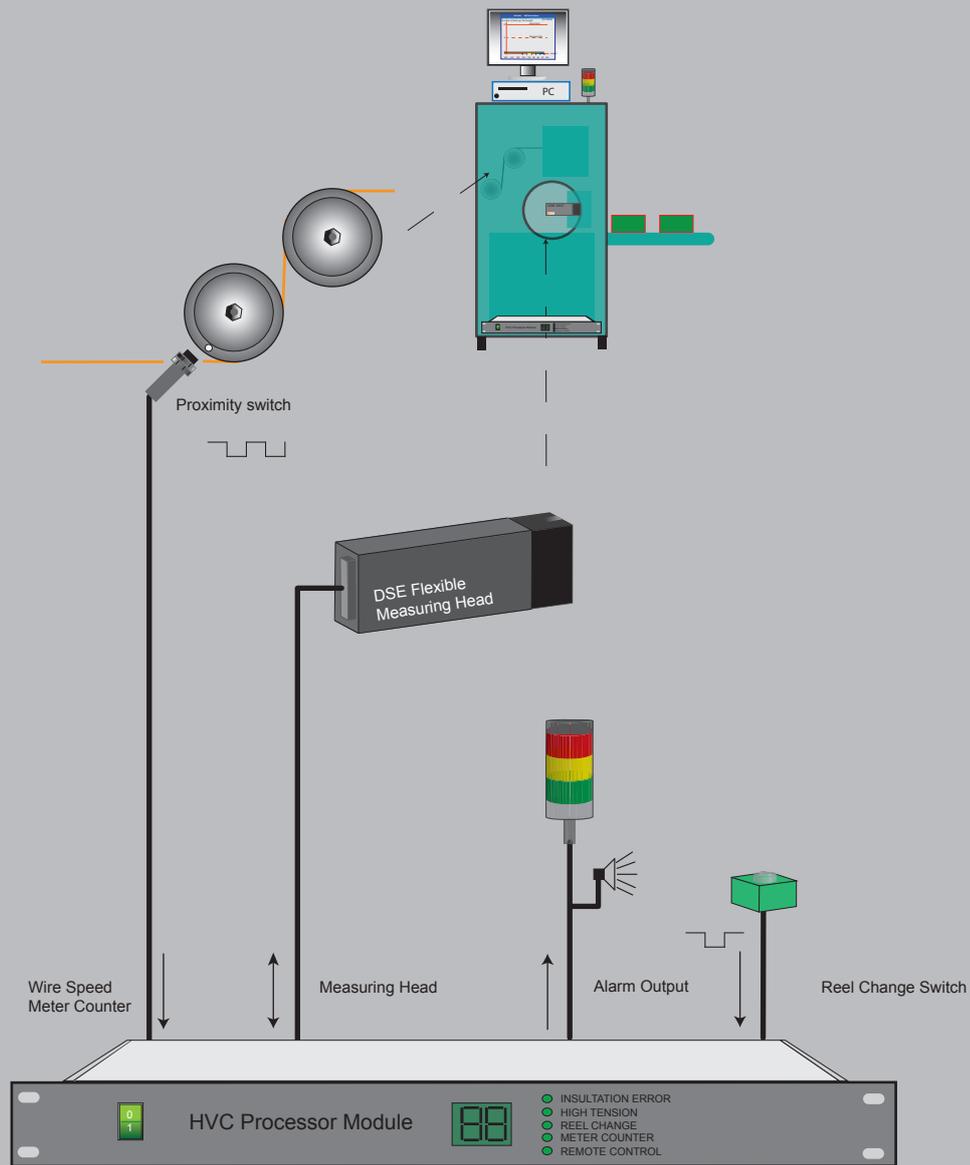
Each pin hole in the wire is detected and counted according to the settings in the PC software. Note the accepted number of pin holes depends a lot off the application the wire is used for.

The PC screen shows the actual counted number of failure and in case the limit are exceeded or bare wire is detected, the alarm will be activated, and the colour of the PC screen turns to red.

Alarm for Bare Wire



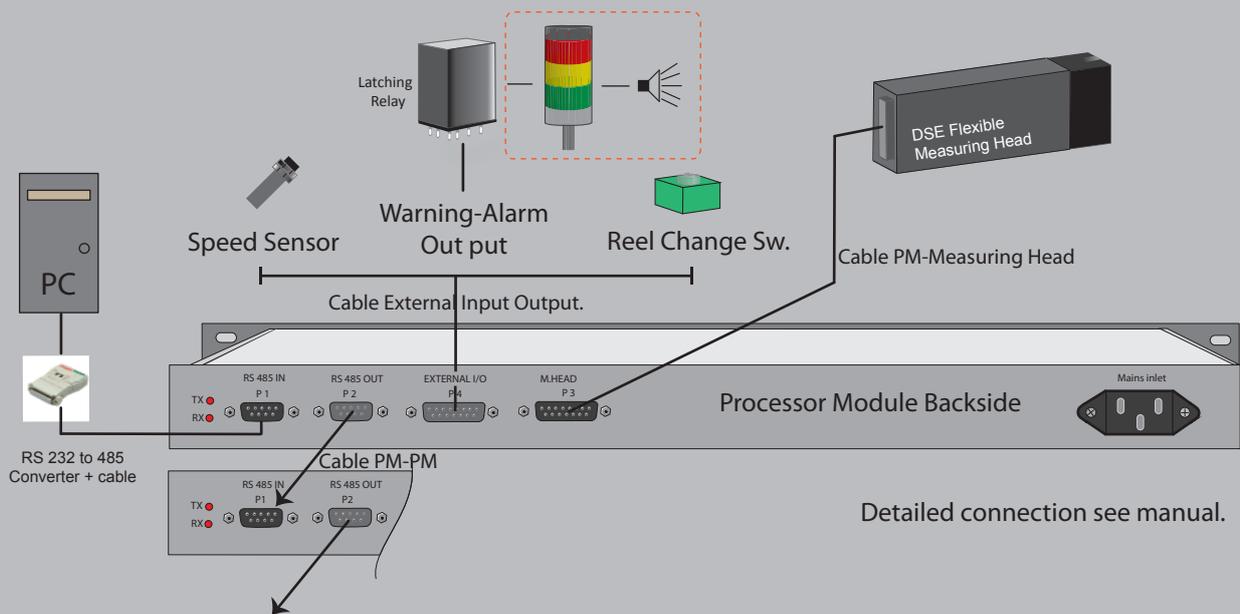
Test set-up



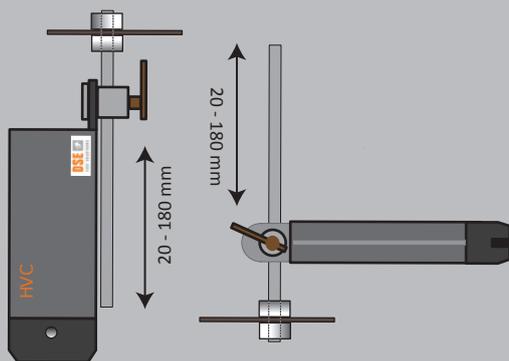
Explanation.

- Meter counter:** A proximity switch is used as sensor for detecting the speed of the wire.
- Measuring Head:** The measuring apply high voltage to the surface of the wire and detects via a set of brushes any pin holes.
- Processor Module:** The processor module controls the Measuring head and receive the current being meas ured.
- Alarm output:** The alarm output is optical isolated and can activate a relay or used as trigger for a PLC.

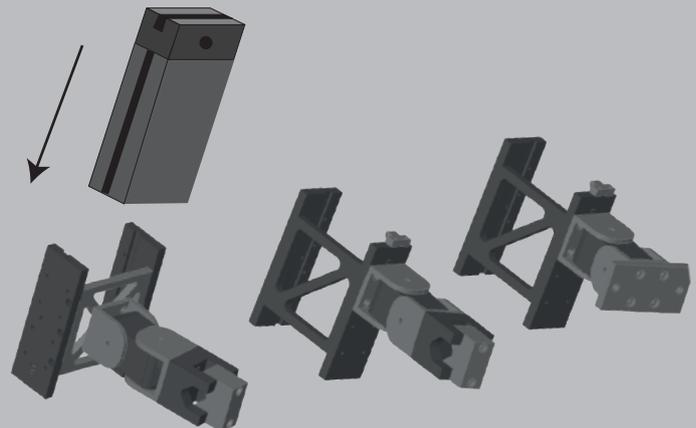
Connections



Mounting Bracket



Multi Position Holder



One High Voltage Isolation Tester contains:

- 1 pcs Measuring Head including replaceable top for Round wire (0.05 to 2.0mm).
- 1 pcs Processor Module for controlling In/output signal.
- 1 pcs Mounting Bracket for the Measuring Head.
- 1 pcs Cable for connecting Processor module and Measuring Head.
- 1 pcs Complete controlling Software for Win-XP/ Win7.
- 1 pcs Operating manual in English or German.

Accessories:

- 1 pcs Multi Position Holder

Note the following accessories is only needed if signals are not available from the PLC controlling the machine.

- 1pcs Manual button for generating signal to Reel Change switch input. Including 10 m of cable.
- 1pcs Proximity Switch for generating signal to Meter Counter input including 10 m. of cable.
- 1pcs Latching relay including socket for alarm output.

Optional:

- 1 pcs RS232 – 485 Converter between PC and the first Processor Module including 10 meter cable.
Remark this is a one-off cost for up to the first 99 HVC lines.