

Hot Endoscopy



Insulcon's Hot Endoscopy gives an overview of the damage in the refractory lining and prevents Hot Spots!

Most thermal units are in operation 24/7 and only have shut-downs during planned periods. A dangerous **Hot Spot** situation arises when there are cracks or holes in the refractory lining, or parts thereof become loose and fall off. This can result in a shut down of the unit which entails high unforeseen costs.

Hot Endoscopy Service is a great tool to inspect the unit and to get an overview of the broken refractory lining when there is little or no visibility. The **Hot Endoscopy** camera lance detects the damaged area and records the extent (volume) - whilst the unit is in full operation! By using a water-press air-cooled steel tube INSULCON can detect the damaged spot optimally, and determine and define the scope of the damage. The lance is a tube that can be extended to a maximum length of 3 meters, with a small camera in its head, which can be inserted through an opening into the furnace.

Kopf, welche durch eine Öffnung in den Ofen geschoben wird.

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The pictures are saved in a HD quality and can be analysed and reported by the client and operator. During the **HSR** the camera lance can be used to report the progress of the repair.

During the last 20 years INSULCON executed **Hot Spots** repairs all over the world by using the **Hot Spot Repair (HSR)** Service. These technologies make it possible to inspect the inner thermal units such as the refractory lining, burners, process pipes and supports – this is a welcome addition to our service program. Our **Hot Spot Repair (HSR)** Service has already lead to an impressive reference list.

Looking into the inner of operational thermal units.

Our **Hot Endoscopy Service** can be used for inspections in applications such as refractory furnace linings for example hot process tubes, supports, burners and others. Whilst the unit is in operation with a continuous maximum temperature of **1300°C!**

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