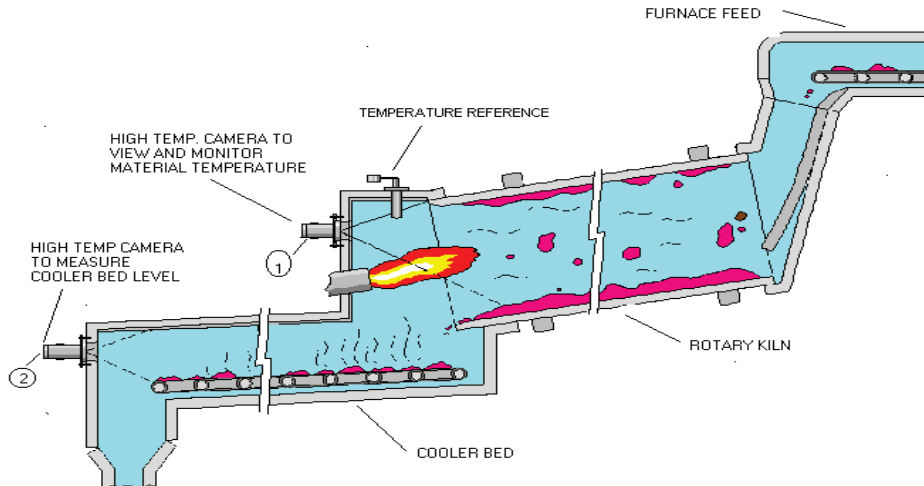


CANTY

PROCESS TECHNOLOGY



APPLICATION #1

MATERIAL TEMPERATURE

The Cauty Vision System will monitor product temperature and kiln wall temperatures. The reference rod contains a heat source and a temperature control unit. The reference rod is used as a constant temperature point in the kiln system and allows for live calibration to occur. The constant fixed position of the rod makes it very easy for the camera to see. It is therefore easy for the Cauty Vector to achieve the required automatic recalibration after cable burn up or other common operations problems. The temperature control is provided using the visual band of wavelengths where emissivity is constant. Camera views into the rotary kiln to see walls and product. The reference rod approach provides reliable dust storm read out by positively identifying when it's image is lost.

INSTALLATION

Camera is positioned so that it looks up the axis of the kiln, seeing both the product and walls.

APPLICATION # 2

COOLER BED LEVEL

The discharge from a Rotary Kiln is important to control in the cooler section because the entire bed level controls the preheated air flow for the Kiln. Improper bed level causes dust storms (too low) and lower temperature or hot material discharge (too high a level) causing belt damage or energy losses due to low heat recovery.

INSTALLATION

The camera views across the entire bed and integrates the level to provide a volumetric level control reading.

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