

OMEGA VANZETTI®
The Leader in Infrared
Temperature Measurement
and Control

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DRILL BIT TEMPERATURE MONITORING

During high speed PC Board Drilling, a worn drill bit can destroy a circuit board.

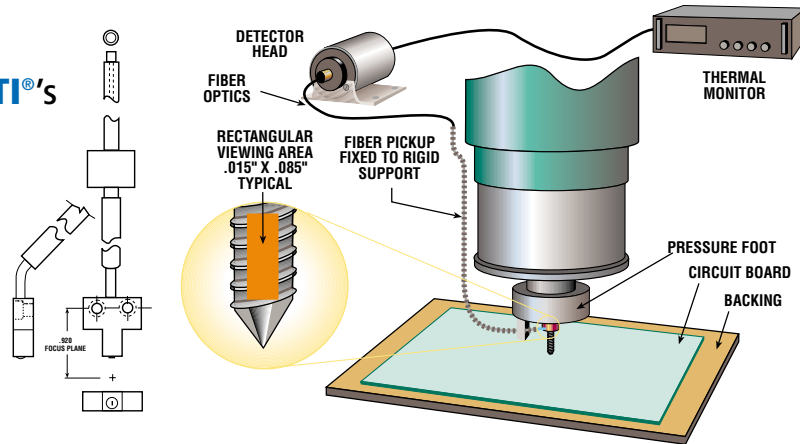
OMEGA VANZETTI®'s

Drill Bit Monitor System utilizes a tiny focused fiber optic to sense the sharp temperature rise in a drill as it

becomes worn. At that point, automatic drill changing equipment can remove the worn drill before any damage is done to the PC Board.

The small Fiber/Lens Assembly mounts directly into the pressure foot of the drilling equipment (it views the actual heat rise from the drill as it is drilling). The output signal that occurs when a drill begins to "dull" triggers the drill changing equipment.

\$2,600.00
BASIC SYSTEM



Advantages of the fiber optic infrared approach as illustrated are:

- Fast response time to 5 mSec
- Low temperature measurements down to 75°C
- Adjustable emissivity control
- Increase hole quality
- Decrease waste and increase productivity
- Small spot size for use with various size bits
- Direct mounting of fiber optic to pressure foot
- Minimize scrap and increase overall drilling efficiency
- Optical outputs include: 4-20 md, 0-10 vdc and thermocouple types "J" or "K"



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