

# PRO-MIC

Electronic Roll Measurement Systems

## PRO-MIC Temperature Measurement Option

The PRO-MIC Roll Temperature Measurement Option is finalized and installed in more than 12 locations. The following summarizes the option's capabilities:

The system operates with PRO-MIC X-Caliper Saddle mounted PRO-MIC Lightweight (single crossarm) or TRUE End-to-End (dual crossarm) electronics package and measures roll profile and temperature at 0.100", 0.200" or 0.500" intervals across the roll body.

This option will be available with any new PRO-MIC or as a factory upgrade for existing units with S/N above 2000.

Thermal measurement will be made by a infrared thermocouples mounted on the LVDT brackets.

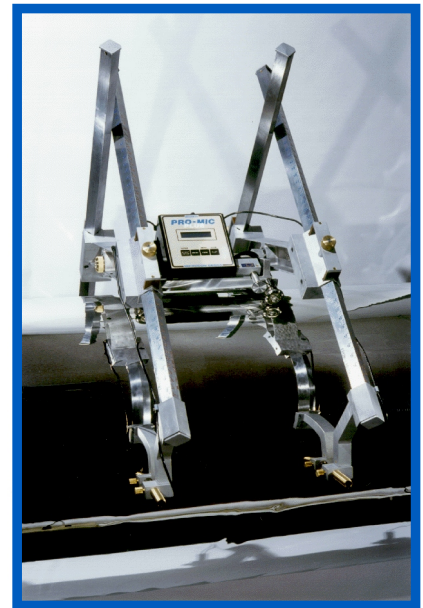
From the operator's standpoint, system operation is virtually unchanged.

The temperature measurement will be within  $\pm 5$  degrees F. This standard has been accomplished and is being refined. The measurement accuracy is aided by a controlled emissivity stripe applied the roll surface.

Access to temperature measurements is available either plotted directly on a Roll Profile Report or through the PRO-MIC Terminal Mode Option to the customer's PC. The Terminal Mode data stream includes location, temperature and change in diameter data.

The new PRO-MIC Quantum Software will store and recall PRO-MIC temperature measurement data in an electronic database. Please see the Quantum System Technical Note (TN-007L) for further information.

The plotted temperature profile is drawn on the PRO-MIC Roll Profile Report in the same manner as a roll profile.



12" to 48" PRO-MIC TRUE End-to-End  
X-Caliper Design