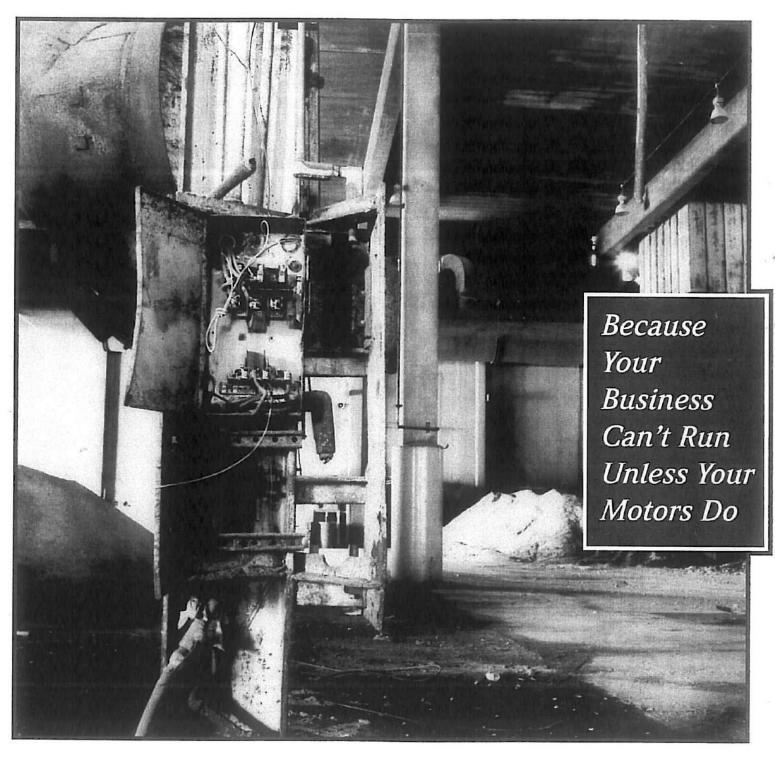
MCETM MOTOR TESTING



Continental
Electric
Motor
Services

VOLID	SOLUTION:	MOETM
LUUK	DOLUTION.	MUCE

The Most Powerful Addition to Your Motor Program

Complete your electrical maintenance program with the addition of motor circuit analysis — the single most powerful component in your "toolbox". Once you've made that decision, the next choice is an easy one.

And that's selecting PdMA's MCE.

MCE provides more information in five minutes than any other single predictive technology; both for effective condition monitoring and assuring the quality of new motors. Use it for:

To prequalify motors upon receipt and/or evaluate quality before and after repair or cleaning;

Trending

To identify out-of-specification parameters and facilitate condition-based rather than time-based repairs; and

Diagnostics/Troubleshooting

To define problems, analyze data and isolate the root causes of failure in each motor.

Your Benefits:

Comprehensive

MCE tests all potential fault zones: stator, rotor, insulation, airgap and power circuit.

Versatile

MCE tests AC induction, synchronous, wound rotor, DC and specialty motors such as servo and spindle.

MCE tests at the motor control center, local disconnect or directly at the motor.

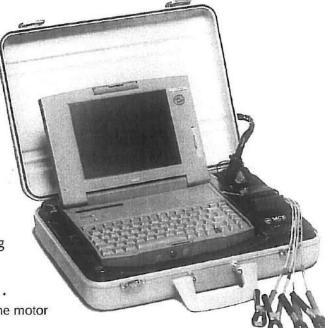
MCE correlates with most predictive technologies to refine or confirm your troubleshooting efforts.

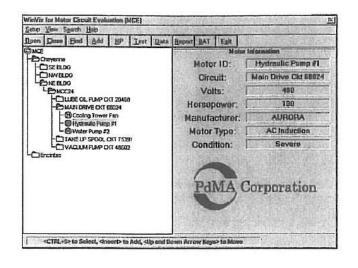
The proprietary software provides a precise and objective method of reviewing, tracking, trending and comparing data, as well as generating immediate reports.

Safe

All MCE tests are nondestructive to the motor and circuits.

MCE is lightweight and battery-powered.

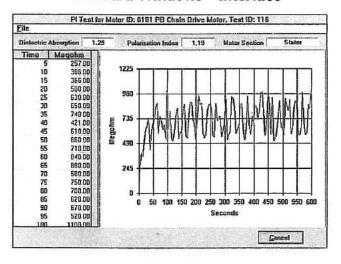


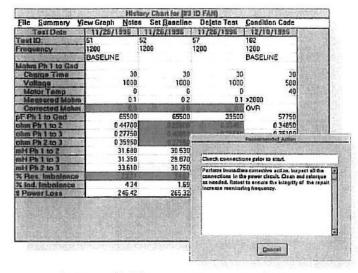


| Flore Influence Check | Flore | Flor

Manage and organize your motor data base with standard Windows™ interface

Rotor assessment through pattern recognition





More than just a ratio; PIP™ graphing gives the complete insulation picture

Instant field access to motor history and trends

THE MCE SYSTEM 3000

C.E.M.S. is pleased to announce the latest technology in the field of predictive maintenance and condition monitoring of electric motors and the circuits that feed them.

The MCE System 3000 Motor Circuit Evaluator is a battery powered, field portable, off-line device which applies high frequencies to precisely measure electrical parameters. The date is then stored in a digital format so that present and future projections of motor condition can be made. Please call for rates and more information.

Don't Let Shutdown Pass You By

Continental Electric Motor Services The MCE provides precise measurements for QA, trending and troubleshooting of these fault zones:



Phase to phase inductance and resistance measurements are used to assess the coil integrity of the stator. The *Rotor Influence Check* (RIC) is a collaborative test to confirm turn to turn or phase to phase current leak paths.



The RIC allows for rotor and stator condition assessment based on phase to phase inductance relative to rotor position. Displayed as a graph, it allows for determination of a variety of faults, including eccentricity, broken rotor bars, cracked end rings, uneven air gap, turn to turn or phase to phase current leak paths.



500 and 1000 volt test signals are available for insulation resistance (IR) testing. Capacitance and Resistance to ground measurements provide data for insulation system condition assessment. Temperature correction is provided for IR trending. *Polarization Index Profile* (PIP) provides a graphic representation of the IR vs. time for a more thorough assessment of the insulation system.



The power circuit condition is assessed when MCE testing is conducted from the motor control center. Phase to phase resistance and capacitance and resistance to ground measurements are used to identify loose and corroded connections and grounded cables.



MCE testing can clear the electric motor circuit by assessing it to be in good condition, thereby preventing unnecessary maintenance on motors. MCE is a valuable tool for determining the root cause in electric motor problems

YOUR OPTIONS:

Components of A Predictive Maintenance Program

A comprehensive predictive maintenance program requires going beyond testing for *mechanical* failures to include *electrical testing*. After all, that's where many of the root causes of motor failure lie.

Compare the capabilities of various electrical predictive maintenance technologies:

Task	MCA	MCSA	Hi-Pot	Surge	Infrared	Megger
Tests stator windings		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			III PONTOCE	
Tests squirrel cage rotor						
Tests power circuit						
Tests armature and synchronous r	otor 🗆					
Tests insulation system						
Identifies air gap eccentricity						
Statistical analysis						
Quality assurance						
Troubleshooting						
Trending						
Battery powered						

Clearly, Motor Circuit Analysis (MCA) is the best single testing vehicle.