Permanent Magnet Motors

The PMSM (permanent magnet synchronous motors) series from Bauer Gear Motor is an environmentally friendly line with rotors that integrate embedded permanent magnets made from rare-earth material. According to the company, unlike induction motors with squirrel-cage rotors, this design reduces heat losses from the rotor by 100%, total losses by approximately 25% and increases total efficiency by 10% or more. Units in this PMSM series already fulfill the requirements of the soon-to-be-implemented IE4 (Super Premium Efficiency) classification.

Bauer Gear Motor
A member of the Altra Industrial Motion Group
Somerset, NJ

For more info, enter 31 at www.MT-freeinfo.com

Portable 1000V Megohmmeter

AEMC's Model 6527 Megohmmeter is a portable, multi-range unit capable of measuring insulation resistance from 1kW to 4000MW. It has three user-selectable test voltages of 250V, 500V and 1000V. Model 6527 is also a multimeter that features an AC/DC voltmeter function capable of measuring up to 600VAC and 1000VDC, a continuity test function with an audible beeper for resistances under 35W and an overload protection of 600Vrms.

AEMC Instruments
Foxborough, MA

For more info, enter 32 at www.MT-freeinfo.com

Software For Easier Asset Management

RealVision notes that its Real Preventative Maintenance (RPM) system is easy to integrate and affordable for large and small businesses alike. This CMMS tool can track all of a company's equipment costs, service parts, inventory and maintenance schedules. The system features a powerful purchasing function that simplifies inventory control and provides the ability to order outside maintenance services. The work order system not only facilitates the collection of scheduled maintenance information, labor and materials, it also handles all unplanned and emergency service.

RealVision, Inc.
Eagle, ID

For more info, enter 33 at www.MT-freeinfo.com

Geometric Measurement System For iPads

The ALiSENSOR™ LEVEL from Alignment Supplies allows users to obtain accurate geometric measurements using their iPad and other iOS devices. The system consists of a sensor unit and an iOS unit (not included). The sensor is a rugged data collector that contains MEMS gyros, accelerometers and a microprocessor. Data is provided via Bluetooth® to the iOS unit, which functions as a user-friendly environment to analyze the data.

Alignment Supplies, Inc.
Maumee, OH

For more info, enter 34 at www.MT-freeinfo.com

Hand-Held Inspection Camera Diagnoses & Documents Problems

The new RIGID® micro CA-300 hand-held inspection camera offers an easy way to diagnose and document jobsite problems. The unit records still images and videos, and integrates audio with a built-in microphone and speaker to record insights and playback problems in hard-to-reach areas. The unit also features user-adjustable image rotation, digital zoom and an anodized aluminum camera head with four LEDs to provide improved lighting.

RIDGID
An Emerson Business
Elyria, OH

For more info, enter 35 at www.MT-freeinfo.com

Remote Expert-Analysis Of Machinery & Processes

According Vibration Specialty Corp. (VSC), its new PROTECT Wireless tool cost-effectively merges predictive maintenance and energy monitoring with monitoring of every other process-related vital sign to provide a comprehensive picture of plant conditions in real time. Its advanced hardware gives remote analysts a view of conditions through detailed phase analysis across couplings, motors and even separate machinery. VSC notes this is the type of data that has traditionally been available only via onsite analysts.

Vibration Specialy Corp. (VSC)
Philadelphia, PA

For more info, enter 36 at www.MT-freeinfo.com

Free App Converts Laser Shaft-Alignment Data

VibrAlign's "Laser-Dials" app for iPhone and iPad converts rotating-shaft alignment data between dial indicator readings and laser shaft alignment system angles and offsets. The company notes that this app makes it easier to evaluate alignment results achieved through traditional analog methods that are often expressed in different terms than newer digital methods. It's currently through the Apple App Store, with an Android version slated for future release.

VibrAlign Inc.
Richmond, VA

For more info, enter 37 at www.MT-freeinfo.com

Waste-Oil Recycling System

The Fuel Factory from Dieselcraft Fluid Engineering is a modular, drum-top centrifuge processing system intended for the recycling of waste motor oil, transmission fluid, hydraulic fluid and more. Driven by an industrial-duty gear pump that can run continuously for 24 hours, it cleans 216 gallons of waste oil per hour. The system is designed to fit inside a standard 55-gallon open-
top drum.

Dieselcraft Fluid Engineering
A division of The Magnum Group
Auburn, CA

For more info, enter 38 at www.MT-freeinfo.com