

A selection from MD&M East 2009, June 8–11, at the Jacob K. Javits Convention Center



Measurement Machines

For 3-D measurement of large or multiple smaller parts, OEMs can use a series of multimeasurement machines. The Excel 650 series consists of 10 models, which feature new optics and laser capabilities, a substantial granite base, closed loop motion control, and high-resolution encoders. With a 650 × 650-mm xy capacity, the machines accommodate large parts up to 100 kg on the glass. The products have a gantry stage design, which enables parts to remain stationary while the xyz movement of the sensors takes place above the parts. Metrology software is included that offers proprietary correction and vision algorithms that give the machines submicron capabilities. **Micro-Vu Corp.**, Windsor, CA, 707/838-6272.

www.microvu.com

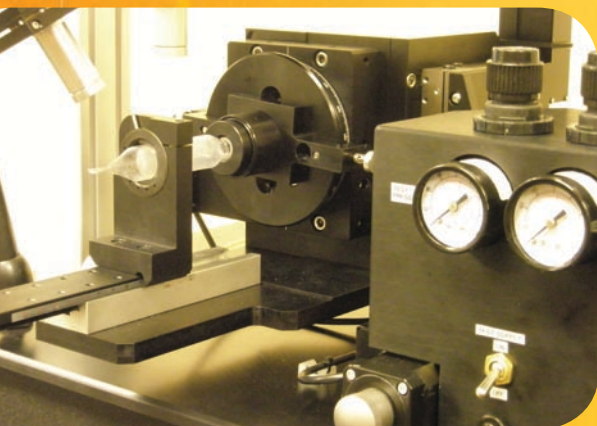
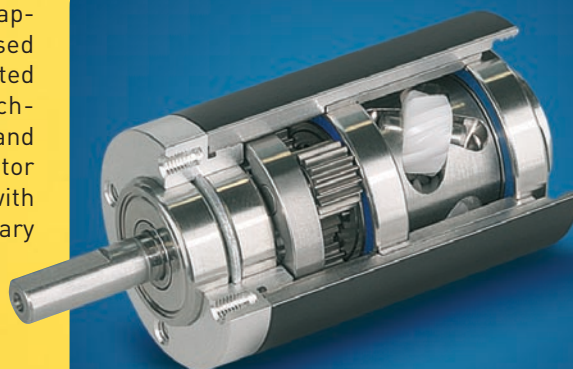
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Planetary Gearhead

A low-noise planetary gearhead is suited for such demanding applications as medical hand tools and instruments that are used principally on or near patients. The Koaxdrive KD 32 is a patented coaxial drive that combines worm and planetary gearing technologies. Measuring 32 mm diam, it offers a torque of 6.5 N•m and speeds up to 8000 rpm. The product features a worm-form motor pinion that drives three offset planetary wheels that interlock with an internal gear that has straight-cut teeth. The plastic planetary wheels help minimize noise levels, while the torque conversion keeps operation of the drive very quiet—even with high loads. The modular drive can be assembled with a variety of the manufacturer's motors. **Maxon Precision Motors Inc.**, Fall River, MA, 508/677-0520.

www.maxonmotorusa.com

Booth 2160



Balloon Inspection

An inspection instrument is specially developed for measuring difficult products such as balloons, silicone tubing, and other cylindrical objects for which accurate and repeatable measurements are required. The Rotational Linear Scanning System measures wall thickness, inner and outer diameter, ovality, concentricity, coating thickness, and other parameters. It measures catheter balloons by inflating and rotating them so that thickness variations across the entire object can be determined. A linear stage facilitates scanning along the device's length. An optional articulated second probe can be used to measure cone areas and identify anomalies. A balloon of any size and shape can be measured and mapped via an intuitive software interface. Data are available in real time in numerical and graphical form on the display and may be downloaded and exported. **Lumetrics Inc.**, West Henrietta, NY, 866/524-2455.

www.lumetrics.com

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