

Medical Edge

THE LATEST INFORMATION ON MEDICAL ENGINEERING

BROUGHT TO YOU BY:



What happens when your injection molder closes shop? How can you find the right material for your new design? This issue of the Medical Edge from *Medical Design* magazine answers these questions and more. And don't miss Paul Dvorak's editorial on electronic medical records.



Thanks for reading,

Vicki Burt

Senior Editor

vicki.burt@penton.com

[Vicki's blog](#)

Articles

New respect for the IT geeks

The Cleveland Clinic recently announced plans for a Neurological Institute and how it would attack several diseases. Guess what will be among the first technologies the new Institute expects to put in place? Labs equipped with high-tech electronics? Advanced MRIs? Nope. It is data management software.

[Click to read Paul Dvorak's editorial](#)

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What to do when your injection molder closes shop

Follow these guidelines to make transitioning to another CM as simple as possible.

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Free Webinar
January 15, 2008
2:00pm ET/11:00am PT

**The Technology
of Etching and Bonding
of Metal Components**

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Medical Design
UNIVERSITY OF MICHIGAN MEDICAL DEVICE EDUCATION

VACCO

Material database for medical devices

Good use of material information can shorten design cycles, reduce risk, and generate more innovative products. The tools for achieving these goals are not as widely used by medical-device manufacturers as they are in industries such as aerospace. Two developments, however, will make material information for medical devices easier to find and apply. One is a new information source and the other, a system to manage vast amounts of material data.

[Read the rest](#)

New Products

PCB-mounted power supplies for medical jobs

A recent KM family of encapsulated ac-dc power supplies from **Lambda Americas** is intended for medical and OEM applications. Single, dual, and triple output models have power ratings from 15 to 40 W.

[Find out more](#)



Low-friction pneumatic actuators

The MQ series of pneumatic actuators from **SMC Corp. of America** use precision machined cylinders to reduce sliding friction. Breakaway pressure is as low as 0.15 psi. MQQs come in 10, 16, 20, 25, 30, and 40-mm bore sizes.

[Find out more](#)

Cables and their carriers pass cleanroom tests

New certifications have been received for cleanroom use of **Igus Inc.** Chainflex cables and Energy Chain cable carriers. These meet ISO cleanroom standard 14644-1 which is based on air cleanliness in cleanrooms and similarly controlled environments.

[Find out more](#)



Miniature ball screw compensates for wear

The Series 1510 miniature precision ball screws from **Steinmeyer Inc.** come with a spring preloaded double nut to compensate for torque variations from inaccuracies in the ground

thread.

[Find out more](#)

Industry Update

ON Semiconductor to acquire AMIS Holdings Inc.

ON Semiconductor Corp. and AMIS Holdings Inc., parent company of AMI Semiconductor, signed a definitive merger agreement providing for ON to acquire AMIS in an all-stock transaction with an equity value of approximately \$915 million.

[Read the rest](#)

No welds and FEA help lighten wheelchair

An aerospace engineering company says it has invented the world's lightest and tightest-folding, fully adjustable wheelchair. The Flight wheelchair weighs 18 pounds and measures 9.5 in. from hand-rim to hand-rim when folded.

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Featured Links

Boker's 2008 Washer Catalog

Boker's, Inc.'s FREE 2008 Washer Catalog has over 22,000 non-standard sizes available with no tooling charges. A wide range of ODs, IDs and thicknesses, plus 2,000 material variations provide millions of possibilities.

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News from Medical Design

UPCOMING WEBCASTS

Introduction to Direct Gear Design

Sponsored by AKGears

DATE: January 16th, 2008

TIME: 2:00pm ET

Invention of the gear hobbing process about 150 years ago revolutionized not only gear fabrication, but also gear design. The cutting edge of the hob presents the generating gear rack. The standard universal gear design approach provides gear interchangeability and reduces tooling inventory, however, it also constrains performance for particular gear applications.

This webcast presents the *Direct Gear Design* method — an alternative approach to traditional analysis and design of involute gears, which separates gear geometry definition from the generating rack and tool selection to maximize gear transmission performance for a particular product and application.

[Click here to register!](#)

**Power Transmission Technologies:
The Advantages and Applications of Belt Drive Solutions**

Sponsored by Gates Corporation

DATE: February 19th, 2008

TIME: 2:00pm ET

Today's designers choose from a variety of technologies for transmitting power in mechanical systems. With increasing demands to optimize systems for efficiency, noise, package size and low maintenance, choosing the right power transmission technology for the job is a challenge. Brent Oman with Gates Corporation will share his knowledge about selecting power transmission solutions. The presentation will review the pros and cons of different technologies and demonstrate the various capabilities of belt drive systems in particular.

[Click here to register!](#)

Whitepapers anytime you want them

Medical Design has a whitepaper section on the Web site. Find out how one company made the transition to lean, read a report about the relationship between FDA and industry, and how to choose the right international electrical equipment.

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Contact Information

Editorial questions: [Vicki Burt](#) 216-931-9822

Advertising/sponsorship opportunities: [Virginia Goulding](#) 216-931-9893

Medical Design

1300 E. 9th St.
Cleveland, OH 44114

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