

Message

From: SAE International [Editors@sae.org]
Sent: 5/3/2018 5:23:29 PM
To: Wehrum, Bill [/o=ExchangeLabs/ou=Exchange Administrative Group (FYDIBOHF23SPDLT)/cn=Recipients/cn=33d96ae800cf43a3911d94a7130b6c41-Wehrum, Wil]
Subject: SAE Vehicle Engineering Technology eNewsletter May 2018

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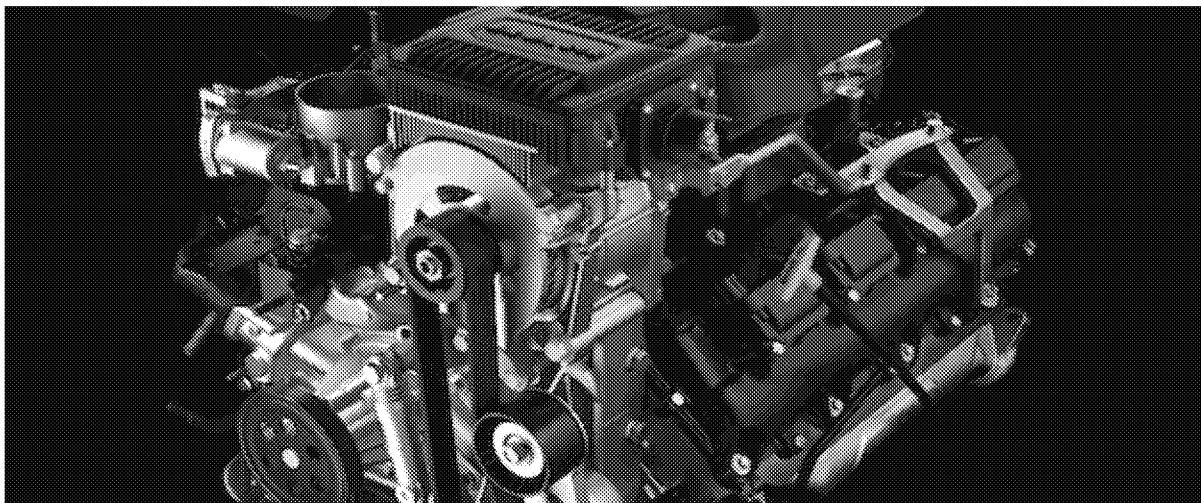
FOR INSIGHTS, TRENDS
AND MORE ON THE USE OF
THERMOPLASTICS IN AUTOMOTIVE



SAE

VEHICLE ENGINEERING

TECHNOLOGY ENEWSLETTER



Powertrain analyst: light-vehicle fleet needs big gains to meet tightening emissions regs

The U.S. light-vehicle fleet will need to more-aggressively adopt fuel-saving technologies if it is to comply with pending efficiency regulations.

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Protolabs' pocket-sized Material Selector is a quick reference guide to help you identify the right thermoplastic and liquid silicone rubber materials for your next injection molding project. It lists specific measurements like tensile strength, heat deflection and durometer to ensure you have the most suitable material for your part's application. Get a free Material Selector today!

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CONNECTIVITY

Connecting off-highway vehicles in remote locations

Vehicle and equipment makers have developed a number of programs for filling the gaps when cellular-based telematic links aren't available.

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Video: Autonomous Parking

Sensor-based autonomous driving requires the accurate detection of object contours. The dSPACE simulation tool suite ASM – Automotive Simulation Models – is equipped with a sensor model for contour detection.

[Watch this Video to Learn More »](#)

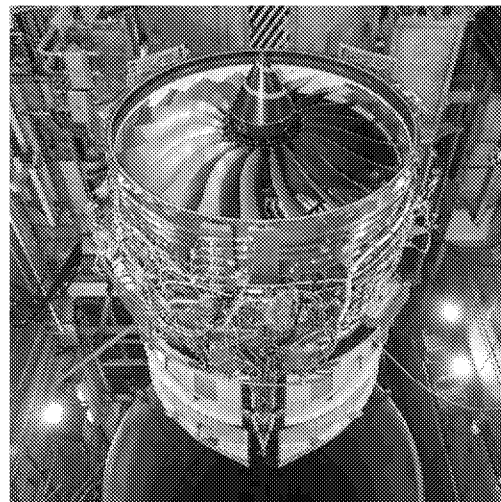


PROPULSION

Rolls-Royce starts lean-burn combustion engine icing tests

In March, a new demonstrator engine by Rolls-Royce, featuring a cutting-edge lean-burn and low-emissions combustion system for future jet engine programs, began icing tests at the Global Aerospace Centre for Icing and Environmental Research in Manitoba, Canada.

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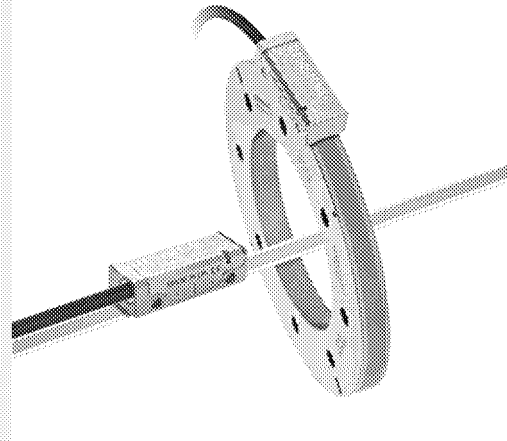
SPONSORED CONTENT

Robust Laser, Optical, and Magnetic Encoders

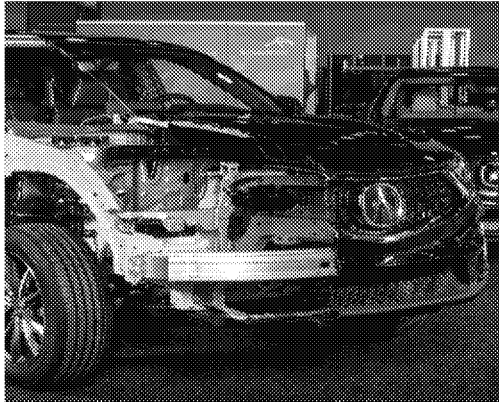
Renishaw provides high quality optical, magnetic and laser encoders that provide higher accuracy, easier installation, and superior reliability. Discover our range of

encoder systems and learn how they can fit into your application needs.

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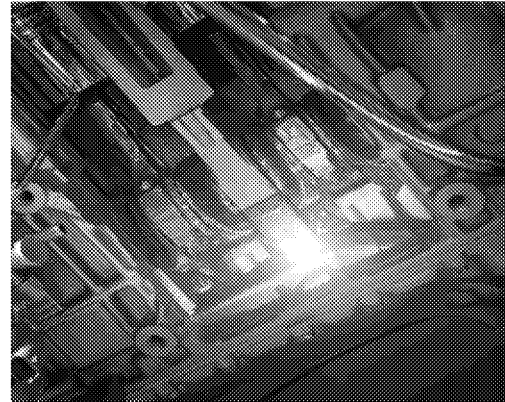


Acura and ArcelorMittal debut world-first hot-stamped door ring system on 2019 RDX

The 2019 Acura RDX will feature the world's-first hot-stamped inner/outer front door-ring system.

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PROPULSION



Waste heat recovery issues, challenges to be discussed at SAE symposium

To meet greenhouse gas (GHG) emission targets and to decrease oil dependency, overall energy consumption of vehicles must be substantially reduced.

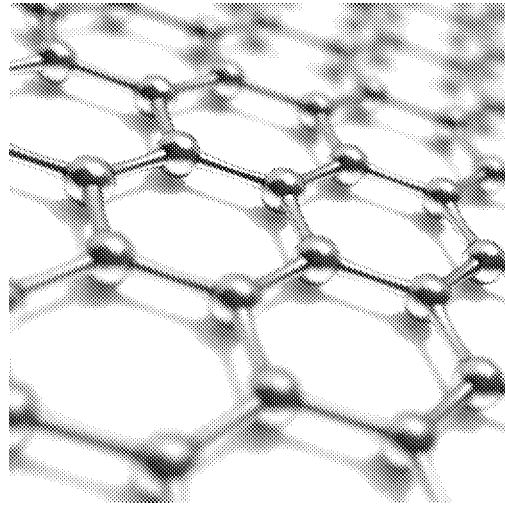
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MATERIALS

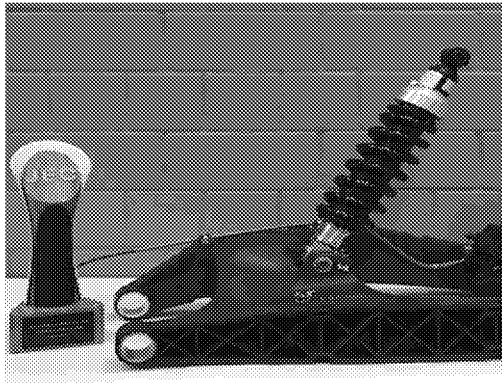
The next material disruption

Recent innovations in Japan, Singapore as University of Manchester launches graphene aerospace strategy.

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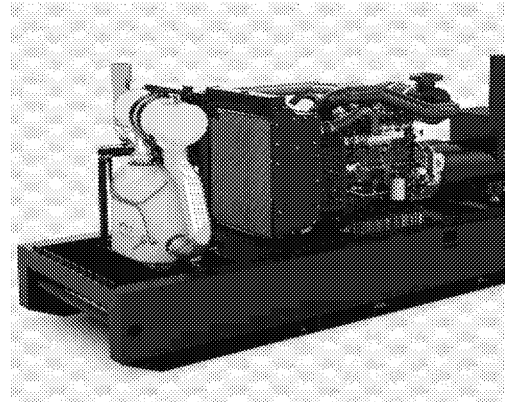


BMW's back at carbon fiber with award-winning motorcycle swingarm

BMW's continuing R&D into carbon-fiber cost reduction and process efficiency nets an award from a prominent composites-industry development organization.

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PROPULSION



FPT reveals Stage V engine on genset frame concept

FPT Industrial gives a sneak peek of the generator to select international media at Pregnana Milanese, where about 90% of the company's engines for power generation are produced.

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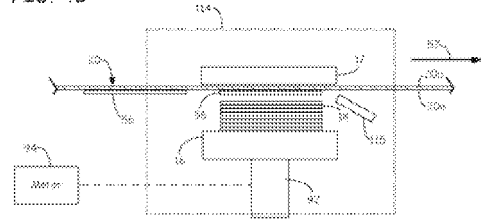
MANUFACTURING

Stratasys unveils high-production additive manufacturing spin-off

Stratasys Ltd. unveils the spin-off of its Selective Toner Electrophotographic Process (STEP) technology and forming of Evolve Additive Solutions.

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FIG. 4B



WEBCAST ALERT



Lessons Learned Developing ISO 26262 Supervisory Controllers for EV/HEV

Thursday, May 24, 2018

This 30-minute Webinar shares lessons learned during the development of several EV/HEV controllers, including the M560 Open ECU, while satisfying ISO 26262 ASIL D safety goals.

[Register Now »](#)

WEBCAST ALERT



Harness the Power of Predictive Product Development

Tuesday, May 22, 2018

Yesterday's product development processes are unsustainable in the age of complex, connected products. This webinar will discuss what today's teams can do now to prepare for a predictive development process.

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Time-Correlated Data Recording

dSPACE Inc.

Autonomous driving sensors generate high amounts of data that need to be stored in a time-correlated manner to be played back in the lab later.

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