



Author: **Lindsay Chappell**

Vehicle lightweighting solutions earned suppliers an armful of Automotive News PACE Awards last week in Detroit.

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 : Denotes PACE Award winners
Click on Company or Innovation for more detail



» Company	Year	What	Innovation	First Customer	Web Site
		Sensor helps			GKN 2032

BorgWarner Emissions Systems	2016	keep coolant at optimum temperature	Electrical heated thermostat with stroke sensor	BMW	borgwarner.com
Delphi Automotive	2016	Inverter power device for electrified vehicles	Inverter power device for electrified vehicles	Volvo	delphi.com
Hanon Systems	2016	A turbocharger for fuel cells	Centrifugal air compressor for fuel cells	Hyundai	hanonsystems.com
Honeywell Transportation Systems	2016	Fuel cell unit boosts power, frees up space	Two-stage electrical compressor for boosted fuel cell	Confidential	honeywell.com
Valeo	2016	Cooling with water, saving fuel	Water-cooled condenser	BMW	valeo.com
Valeo	2016	Goodbye, turbo lag	Electric supercharger	Audi	valeo.com
Dana Holding Corp. Power Technologies Group	2016	Lowering the heat from electronics	Long two-sided chip cooling	Volvo	dana.com
Delphi Automotive	2016	Sharing a fuse, saving 10 yards of wire	High-voltage splice connections	General Motors	delphi.com

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Faurecia Emissions Control Technologies	2016	Less exhaust noise, better fuel economy	Exhaust System Adaptive Valve	General Motors	faurecia.com
Federal-Mogul Corp.	2016	A path to lighter pistons, smaller diesel-engine blocks	Hybrid induction-welding for steel pistons	Ford	federalmogul.com
GKN Driveline	2016	Adding high performance to all-wheel drive	Twinstar all-wheel-drive system for Ford Focus RS	Ford	gkn.com/driveline
Schaeffler	2016	Cleaner, quicker clutch-plate processing	Clutch-plate laser etching	Ford	schaeffler.com
AeroVironment	2016	Single charging cable for EVs, at 2 voltage levels	TurboCord dual EV charging cord set	Volvo	avinc.com
Continental Automotive	2016	Key fob allows for long-range remote starting	Bi-directional Long Range Communications System	Honda	continental-automotive.com
Smoothing					GKN 2032

Delphi Automotive	2016	the integration of iPhones, CarPlay	Dual Role Hub	General Motors	delphi.com
FTE Automotive	2016	A smaller, lighter oil pump	Electronic oil pump	Audi	fte-automotive.com
Koito Manufacturing Co.	2016	A smaller, lighter LED headlight	Dual-function LED headlamp	Toyota	koito.co.jp
Roechling Automotive	2016	Drip-system oil pan cuts weight, emissions	Oil Distribution System	Audi	roechling.com
Beet Analytics Technology	2016	Software monitors step-by-step actions on automated assembly lines	ENVISION Process Visibility System	Ford	beet.com
Bosch	2016	New solenoid design eliminates transmission components	Linear Force Solenoid	Daimler	bosch.com
Gentex Corp.	2016	Rearview mirror displays video images	Full Display Mirror	Cadillac	gentex.com

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Magna Closures	2016	Electronic door latch is driven by single control unit	Electronic door latch	BMW, Lincoln	magna.com
Means Industries Inc.	2016	Clutch design cuts transmission energy loss, weight	Controllable Mechanical Diode	GM, Honda, Ford	meansindustries.com
BorgWarner Emissions Systems	2016	Diesel glow plugs never need to be replaced	Ceramic diesel cold-start system	SsangYong Motor Co., General Motors	borgwarner.com
Faurecia Automotive Seating	2016	Technology allows for 3-D shapes on seats	Cover Carving Technology for seats	Renault	faurecia.com
GKN Driveline	2016	Rear sideshaft trims weight and size	Lightweight constant velocity joint	BMW	gkn.com
Hanon Systems	2016	Air-quality system protects cabin, eliminates odors	UV Photocatalyst	Hyundai	hanonsystems.com
A					GKN 2032

**Ichikoh
Industries**

2016

standardized,
replaceable
LED cuts cost

**MonoLED light
source**

Toyota

ichikoh.com

- ▶ **2015 PACE winners**
- ▶ **2014 PACE winners**
- ▶ **2013 PACE winners**
- ▶ **2012 PACE winners**
- ▶ **2011 PACE winners**
- ▶ **2010 PACE winners**
- ▶ **2009 PACE winners**
- ▶ **2008 PACE winners**
- ▶ **2007 PACE winners**



Creative suppliers are awarded for cutting weight

Mon, 18, Apr 2016

Author: **Lindsay Chappell**

Vehicle lightweighting solutions earned suppliers an armful of Automotive News PACE Awards last week in Detroit.



Lightweighting stars at PACE Awards

Mon, 11, Apr 2016

Author: **Lindsay Chappell**

New technologies in the race for lighter-weight vehicles dominated the 2016 Automotive News

PACE Awards on Monday night. The annual awards for outstanding supplier innovations singled out seven new concepts that are helping automakers trim weight.



2016 PACE Award Winners

Mon, 11, Apr 2016

Here's a look at the technology behind the winners of the 2016 Automotive News PACE Awards. The awards honor game-changing innovation in the supplier world.

Game-changing suppliers seek PACE Awards

Mon, 07, Mar 2016

The Automotive News PACE Awards celebrate the innovations and achievements of automotive suppliers in moving the industry forward. This year, the 22nd edition of the PACE Awards highlights 28 innovations that have been named as

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finalists.



Anticipate change, then innovate

Mon, 19, Oct 2015

Author: **J Ferron**

Companies must create an internal culture in good times that can sustain innovation during downturns. Rapidly changing consumer behavior and evolving definitions of personal transportation challenge how companies traditionally created value.



21 innovative suppliers named PACE Award finalists

Mon, 19, Oct 2015

Author: **Neal E. Boudette**

The technologies -- ranging from advanced mirrors to charging technology for electric vehicles to a new approach to all-wheel drive -- underscore the auto industry's advance toward lightweight, fuel-efficient and electrified vehicles.



21 suppliers named PACE Award finalists

Mon, 12, Oct 2015

Author: **Neal E. Boudette**

Twenty-eight innovations from 21 different automotive suppliers have been named finalists for the 2016 Automotive News PACE Awards.



PACE Awards website taking applications

Wed, 05, Aug 2015

The deadline to apply for 2016 Automotive News PACE Awards, which honor game-changing, commercialized innovation by suppliers, is Sept. 4.

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Thinking outside the customers' box

Mon, 27, Jul 2015

Author: **J Ferron**

Innovation drives the automotive industry. But what drives innovation? I get that question all the time in the Automotive News PACE Awards Program, now in its 22nd year, where independent judges study companies that commercialize innovative products and processes. How companies innovate is only the starting point. More important is understanding why they risk capital and resources.

PACE Awards website taking applications for '16

Mon, 06, Jul 2015

The Automotive News PACE Awards, jointly presented with EY and TRC Inc. and which honor game-changing, commercialized innovation by suppliers, has opened its website to accept applications for the 2016 competition.

Innovation inspires suppliers along with industry

Mon, 27, Apr 2015

Author: **Bradford Wernle**

The 21st annual Automotive News PACE awards were handed out April 20 at the Max M. Fisher Music Center here. The awards are sponsored by EY, the Transportation Research Center Inc. and Automotive News. Fourteen awards were won by 12 suppliers. Continental Automotive and Federal-Mogul Corp., won two awards each.



PACE Award winners take on the fuel economy challenge

Mon, 20, Apr 2015

Author: **Charles Child**

Auto suppliers are responding to automakers' needs for better fuel economy, claiming half of this year's Automotive News PACE Awards with innovations that cut weight or make powertrains more efficient. Fourteen game-changing products and processes from 12 suppliers were honored at a

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ceremony in Detroit tonight.

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