

APS

Automotive Paintshop Solutions

September 2010

a supplement to **AMS** magazine



Premium paintshop principles

Jaguar Land Rover's Chris Globe

APPLICATION TECH

New innovation centre at paintshop provider reviewed

ROBOTICS

Exciting new equipment unveiled at major supplier's open house

MEASUREMENT

Mastering the colour matching challenge with new technology

INNOVATION

BMW plant uses snow all year round to clean and green up its act

MATERIALS

Safer chrome-free pre-treatment and aluminium anodising

COLOUR TRENDS

Matt paints and fashion-driven colours influence new palettes

- 06 News and events calendar**
Special paintshop sessions at AMS India conference, new paintshop for Mercedes in Hungary, parts2clean 2010 and book review

VEHICLE MAKERS

- 08 Cover story – premium paint engineering**
With a model mix of sports cars, saloons, SUVs and utility vehicles to finish, Jaguar Land Rover's Chris Globe has one of the toughest jobs in the automotive paintshop world, as he tells APS' Simon Duval Smith

APPLICATION TECH

- 12 Revolutionary robotics**
Increasing efficiency, raising quality and cutting cost for its customers are just some of the aims of this paint equipment company
- 24 Expertise in application technology**
APS reports from a recent open house at a major European equipment maker where some exciting new solutions in robot and dip technology were unveiled

SUPPLIER FOCUS

- 16 A centre of excellence**
Making a major investment in an exciting innovation centre during a period of economic downturn is typical of this enterprising supplier's commitment to the industry

MEASUREMENT

- 18 Dispatching the matching challenge**
As the palette of new car colours continues to grow, we report on one supplier's solution to harmonising components painted in different locations

INNOVATION

- 20 BMW blows snow for contamination elimination**
A new dry cleaning process at the carmaker's Landshut plant has proved to be both more efficient and much greener than previous systems

MATERIALS

- 26 Coatings champion**
Chrome-free pre-treatment has been available for some time; this chemical supplier has moved the game on further with its new solutions for aluminium coating

COLOUR TRENDS

- 27 Colours for the cars of tomorrow**
APS reviews BASF's colour forecasting research system and talks with colour designer Eva Höfli about how outside influences are shaping the palette of the future

Companies in this issue

ABB	16, 21
AMS India 2010 conference	6
Audi	9, 17
BASF	10, 27, 28, 29, 30
BMW	10, 16, 20, 21, 22
Chemetall	26
Combat	6
Dupont	10
Dürr	6, 24, 25
Eisenmann	6, 12, 13, 14
European Commission	26
Fiat Brazil	16
Ford	11
Fraunhofer Institute	21
Geico	16, 17
General Motors	17
Henkel	10, 17
Jaguar	8, 9, 10, 11
Land Rover	8, 9, 10, 11
Mercedes-Benz	6, 11
Parts2clean	6
PPG	17
PSA	16, 17
X-Rite	11, 18, 19
Zestar	6

Special paintshop focus at AMS India conference

No fewer than six paint engineering companies will present their solutions at the 3rd annual Automotive Manufacturing Solutions India conference, held in Chennai, 6 – 9 December this year.

Two special paintshop sessions will feature speakers from carmakers, Tier suppliers and equipment providers including Combat, who will speak about its new accelerated installation process through modular panelling system, improving design efficiencies and precise equipment selection to achieve both performance and reliability. The company aims to impart its paint application know-how side-by-side with its plant engineering knowledge.

Dirk Gorges, Senior Vice President of Dürr Systems GmbH, will present an outlook on international paint processes and paint installations from the perspective of a paint plant



Finishing experts will discuss automotive paintshop in two sessions at AMS India 2010

manufacturer. He will show the different requirements of the established and the emerging markets. He will also highlight global trends and targets, from reduced CO2 emission to CPU reduction. Finally he will explain these trends by showing some references of current projects.

Ralf Völlinger, Executive Director of Eisenmann Automotive Systems and Director of Eisenmann India Pvt. Ltd. will present lean high-tech concepts with

future-oriented technologies using own local capacities and human resources. Ralf has said he will also show some visionary alternative energy concepts for independent economical and ecological paint shops.

The theme of this year's conference is 'Quality up: Cost down - driving OEM and supplier output for the India of tomorrow' and it will feature more than 45 speakers discussing many areas of carmaking in three parallel streams, including automation and control, body-in-white, contract manufacturing, environmental management, hybrid and electric vehicles, powertrain and stamping.

Delegates are also invited to join a technical tour of the local Ford manufacturing facility.

Visit <http://india.amsconferences.com> to book your place at this important forum.

Dürr builds paint shop for new Mercedes-Benz plant in Hungary

Dürr has been appointed general paintshop contractor for the new Mercedes-Benz plant in Kecskemét, Hungary. The contract awarded by Daimler is quoted by a Dürr spokesman as being in "the high tens of millions of Euros."

Dürr will install its EcoDryScrubber overspray separation system, which has already proven itself in the supplier industry. Daimler is the fourth automotive manufacturer who has opted for this new technology.

On the application front, Dürr is supplying 30 painting robots, with

attendant paint supply systems, for the first time in Hungary. 30 EcoRP E033 painting robots will be used for exterior painting, while the EcoRP L133 model and EcoBell 2 atomizers with high speed rotation are to be used for interior painting. Additional handling robots will be used for opening hoods and doors. Seam sealing and cavity protection systems will be installed by the company plus technology for liquid applied sound deadeners.

The new paint shop, which will be for Mercedes-Benz compact cars, will begin operation in 2012. www.durr.com

A world of cleaning expertise

Parts and surface cleaning are issues of critical importance for quality in practically all sectors of automotive manufacturing, as well as in maintenance and remanufacturing.

parts2clean, the international trade fair

for cleaning in production processes, will take place at the Stuttgart Exhibition Centre (Germany) from the 12th through the 14th of October, 2010. Further information at www.parts2clean.com

BOOK REVIEW

Making it right – why your car payments are lasting longer than your factory paint job

by Stephen N Gaiski. 325pp.
ISBN: 978-0-9842994-0-9
www.zestar.com

In this book, best described as research opinion based on data, Gaiski covers all aspects of modern paint finishes and their challenges and defects. He finds that the outsourcing of paint operations has resulted in widespread customer dissatisfaction with paint finishes and investigates the paint suppliers, the trend to 'Pay as Painted' – OEMs paying suppliers per painted vehicle and uses numerous case studies to illustrate problems in vehicle finishes and in the industry generally.

A recommended book but perhaps not very comfortable reading for many players in the global automotive paintshop business.