

Asia 2015 6th - 8th of Jul

AUTOMOTIVE LIGHTWEIGHT

PROCUREMENT SYMPOSIUM

Jumeirah Himalayas Hotel in Shanghai, China



SYMPOSIUM FOCUS

- Aluminium
- Carbon Fibre
- Composites
- High Strength Steel
- Magnesium

HIGHLIGHTS

• INTERNATIONAL SPEAKERS

AUDI - MAGNA - DGS - GEELY - NOVELIS - JSC - VOESTALPINE, ...

• LIGHTWEIGHT TECHNOLOGY EXHIBITION

DGS - StrikoWestofen - Kurtz - Novelis – Idra

• SIMULTANEOUS INTERPRETING

Chinese - English / English - Chinese

ATTENDING COMPANIES



MEDIA & ORGANIZATION PARTNERS



Brings together the procurement and supply side of lightweight materials and their advanced processes in accompany with cost balance or reduction....

AluMag® offers the four following services - worldwide:



Market Research

- Aluminium Extrusion Customer Database
- Foundry & Tool Maker Database
- Automotive Application, Material & Process Analyses
- Various Industrial Application Research & Analyses

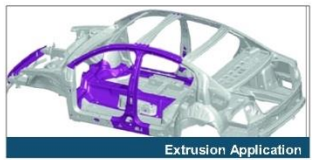
AluMag as your provider of automotive research and forecasting studies, offers you and your business, the market intelligence you need to realize the best strategic decisions



Material - Process - Application Trend Analysis

Large variety of market access, local & global:

- business database with 6,970+ companies and 18,700+ contacts
- 150+ satisfied customers worldwide
- Arranged 20+ roadshows/events since 2008



Extrusion Application

Your Benefits:

- Learn about your [potential] clients and competitors
- Obtain an inside view of the market
- Identify opportunities and threats
- Minimize risk and optimize profits
- Position your company successfully
- Based on data off the shelf, secondary re-search and interviews, AluMag generates validated researches



Market Development

- Analysis & Development of Market Opportunities
- Accelerate Market Penetration
- Manage New Product Launches
- Establish a Sales Force Sales on Demand

AluMag guides and supports your organization globally through the different market development phases until we have successfully launched, implemented or executed your project.



Map of activity - SAMPLES

Manage and integrate each aspect of your organization by initiating, planning, controlling, executing and closing out a new project. AluMag offers liaison management services as an addition to our customer's staff by bringing in the resources that define us.



JATCO Head Quarters Meeting in Japan

Your Benefits

- Analysis and development of Markets
- Realize opportunities
- Accelerate market penetration
- Establish a sales force
- Provide warehousing and distribution services
- Manage new product launches
- Sales on demand



Roadshows / Events

- Organization of Technical & Commercial Roadshows
- Oversea Commercial & Technical Events
- Host In-House Events & Presentation
- Common Technology Booth at Leading Exhibitions

AluMag roadshows, tech-meetings and symposia are the first class events used by exhibitors and guest as a unique benchmark platform.



Daimler Sindelfingen as Roadshow Location

The AluMag think tank events are bringing in decision makers and executives in EUROPE, ASIA and NAFTA.



G M VIP at AluMag Booth SAE in Detroit

Upcoming Events:

- 2015 Jul: Automotive Light-weight Procurement Symposium in Shanghai, China
- 2015 Nov: Automotive Light-weight Procurement Symposium in Detroit, USA
- 2016 April Common tech- booth at the SAE World Congress in Detroit, USA
- 2016 Jul: Automotive Light-weight Procurement Symposium in Shanghai, China



Strategic Localization

- Warehousing & Distribution Service
- Supplier & Tie-up Localization
- Identification & Trade-off of new Technology
- Foreign Market Business Cases and whose Realization

AluMag has the global expertise to search, identify, evaluate and validate potential strategic business opportunities for expansions and partnerships that will assist your business growth plans regionally and globally



On-Site Greenfield Planning Meeting

Services for:

- Search, develop and present potential acquisition candidates for regional and global business expansions
- Localization of new manufacturing / service sites for business expansions
- Identification of new technology supplier development related to products, processes and materials
- Search, develop and present potential business partners / suppliers to support regional and/or global supply programs
- Evaluate potential competitor profiles for new or existing business in non-presence geographies
- Evaluate new emerging technologies and processes for business expansions

Are you:

- looking for specific data, information and outlook about product, material, customer, supplier, technologies, ...
- want to discuss your project, increase sales, access new markets, ...
- interested to participate in one of our roadshows / events or organize your customized showcase ...
- looking to localize, expand into new markets, countries, tie-up targets, ...

please contact your AluMag Team to receive a quote or proposal

CONTACTS & PROJECT TEAM



Mr. Jost GÄRTNER
Managing Partner
AluMag® Automotive GmbH
Kirchplatz 1a
59706 Mendon
GERMANY
Tel.: +49 2373 929492
j.gaertner@alumag.de
German & English



Ms. Ying ZHOU
Project Coordinator
Japan & China
AluMag® Automotive GmbH
Kirchplatz 1a
59706 Mendon
GERMANY
Call: +49 172 6415876
y.zhou@alumag.de
German & English & Chinese & Japanese



Mr. Roberto BOEKER
Managing Partner
AluMag® Automotive LLC
42055 Michigan Avenue
Canton, MI 48105
USA
Call: +1 248 962 5086
r.boeker@alumag.de
English & German & Spanish



Mr. Thomas KATZMARK
New Business Development Manager
AluMag® Automotive LLC
20829 Sunnydale
Farmington Hills, MI 48336
USA
Call: +1 313 410 0965
t.katzmark@alumag.de
English



Mr. Jesper LARSEN
Manager Market Research
AluMag® Scandinavia
Byagorvænget 58
8330 Beder
DENMARK
Call: +45 2573 8790
jlarsen@alumag.de
German & English & Danish



Ms. Jacqueline TEUBER
Senior Roadshow Organizer
AluMag® Automotive GmbH
Kirchplatz 1a
59706 Mendon
GERMANY
Tel.: +49 2373 929496
j.teuber@alumag.de
German & English



Mr. Ricardo SCHOER
Senior Consultant
AluMag® Automotive LLC
Av. San Antonio 189-131
Col. Napoles 03810
MEXICO
Call: +52 55 4002 0501
r.schoer@alumag.de
English & German & Spanish





Asia Automotive Lightweight Procurement Symposium
6th – 8th of July 2015
Jumeirah Himalayas Hotel in Shanghai, China.



AluMag Automotive GmbH
Jost Gaertner
Managing Partner
Tel.: +49 2373 929492
Cell: +49 172 6000569
j.gaertner@alumag.de
www.alumag.de

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THE MARKET DEVELOPER

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Agenda

Agenda: (Is Continuously Being Updated)

Monday The 6th Of July – Jumeirah Himalayas Hotel, Shanghai – 6th Floor

06:00pm - 10:00pm

Pre-registration and Welcome Reception

Tuesday The 7th Of July – Jumeirah Himalayas Hotel, Shanghai – 6th Floor

08:30am – 09:15am

Registration & Morning Coffee / Tea

09:15am – 09:30am

Welcome:

Mr. Jost GAERTNER, Managing Partner at ALUMAG Automotive GmbH

09:30am – 10:25am

Opening Keynote:

Mr. Frank VENIER, Strategy and Innovation; Lightweight Design Centre at AUDI AG

Lightweighting SUV - The New Audi Q7 In Multimaterial Car Body Design

10:25am – 11:00am

Break for Refreshments/Coffee/Tea, Snacks, Networking, Tech Exhibition

11:00am – 12:00am

Paper 1 – Part 1:

Mr. Gerhard KRACHLER, Director Advanced Development & Product Strategy at MAGNA STEYR Engineering AG & Co.KG

Paper 1 – Part 2:

Mr. Christian JURICEK, Manager R&D Europe at COSMA MAGNA International

Magna's Global Advanced Lightweight Competences

12:00pm – 01:45pm

Break for Refreshments/Coffee/Tea, Lunch, Networking, Tech Exhibition

01:45pm – 02:25pm

Paper 2:

Mr. Andreas MUELLER, CEO at DGS Druckguss Systeme AG

Localization And Industrialization Of Cast Aluminium Structural Applications

02:30pm – 03:10pm

Paper 3:

Mr. Li WAN, Vice President at Guangdong Hongtu Technology (Holdings) Co Ltd

Aluminum Alloy High Vacuum Die Casting Technology And It's Application On Automotive Structural Parts

03:15pm – 03:45pm

Paper 4:

Mr. Lothar HARTMANN – Managing Director Foundry Machines & Trimming Presses at Kurtz GmbH

Mr. Michael BARTEL – Asia Sales Manager Foundry Machines & Trimming Presses – Kurtz GmbH

Low Pressure Casting

A traditional casting technology helping to step ahead for light weight solutions in engine block manufacturing

03:45pm – 04:15pm

Break for Refreshments/Coffee/Tea, Snacks, Networking, Tech Exhibition

04:15pm – 04:55pm

Paper 5:

Mr. Peter BERNSCHER, Member Of The Board & Director Automotive Body Parts at Voestalpine Metal Forming GmbH

Lightweight Solutions In The Automotive Industry By Voestalpine

05:00pm – 05:55pm

Closing Keynote:

Mr. Jochen SIEBERT, Managing Partner at JSC Automotive Consulting Co. Ltd.

Outlook And Hurdles Of The Chinese Economy And Automotive Industry

05:55pm – 06:00pm

Summary:

Ms. Ying ZHOU, Project Coordinator China – Japan at ALUMAG Automotive GmbH

06:00pm - 10:00pm

Reception Sponsored By StrikoWestofen

Dinner Speech – Part 1:

Mr. Rudolf RIEDEL – Group Managing Director at StrikoWestofen GmbH

Dinner Speech – Part 2:

Mr. Rainer ERDMANN – Managing Director Asia Operations at StrikoWestofen Thermal Equipment Co.Ltd

Profits With Light Metal Castings Start In The Melt Shop

Agenda

Agenda: (Is Continuously Being Updated)

Wednesday The 8th Of July

08:15am – 08:55am

Opening Keynote:

Prof. Fei XIONG Chief Engineer & Director of Auto Lightweight Department at GEELY

Automotive Lightweight Promoting The Application Of Aluminium

09:00am – 09:40am

Paper 1:

Mr. James LIU, Managing Director and Vice President of Asia Auto at NOVELIS China

High Volume Aluminum Solutions For Lightweighting

09:45am – 10:25am

Paper 2:

Dr. Jin HOU – General Manager – Sapa Technology Asia

High Performance Aluminium Alloys For Automotive Light-Weighting

10:25am – 11:00am

Break for Refreshments/Coffee/Tea, Snacks, Networking, Tech Exhibition

11:00am – 11:40am

Paper 3:

Mr. Yoshikazu MUKAI, Executive Vice President & Technical Specialist at Kobelco Automotive Aluminium Rolled Products (China) Co., Ltd – Shanghai Branch

Kobe's R&D Activities For Automobile Lightweighting

11:45am – 12:25pm

Closing Keynote:

Mr. Martin SHI, Chief Editor at GASGOO International And Senior Analyst at GASGOO Research Institute

The Status And Development Trends Of China Automobile Lightweight

12:30pm – 12:35pm

Summary:

Mr. Jost GAERTNER, Managing Partner at ALUMAG Automotive GmbH

12:45pm – 01:00pm

Walk To The SNIEC
Shanghai New International Expo Centre

01:00pm – 01:40pm

Reception With
Snacks & Finger Food at the SNIEC

01:40pm – 05:30pm

Individual Or Guided Visit At The 2015 "Aluminium China " And "China Diecasting" Exhibitions

Backup Speech

Mr. Jost GAERTNER, Managing Partner at AluMag Automotive GmbH

Top 16 Global Ranking Of Aluminium And Magnesium Foundries By Revenue

EXHIBITOR

DGS Druckguss Systeme AG
CHE 9015 St. Gallen-Winkeln
Tel.: +41 71313 8888
www.dgs-druckguss.com



IDRA CHINA Limited
200122 Pudong
Tel.: +86 21 68751216
www.idrachina.com



Kurtz GmbH
97892 Kreuzwertheim
Tel.: +49 9342 807 0
<http://www.kurtzrsa.de>

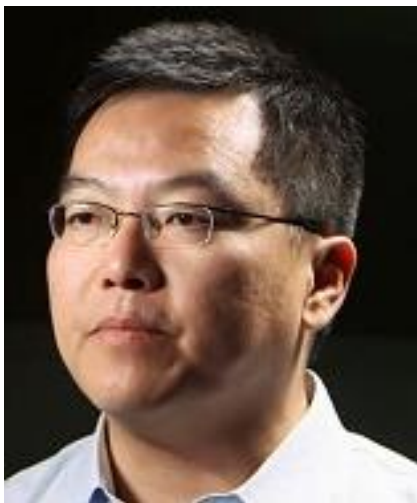


Novelis China
CHN 201103 Shanghai
Tel.: +86 21 60355121
www.novelis.com



StrikoWestofen GmbH
GER 51643 Gummersbach
Tel.: +49 2261 709 10
www.strikowestofen.com





Mr. James Liu
Managing Director & Vice President of
Asia Auto

Novelis China
CHN 201103 Shanghai
Tel.: +86 21 60355121
www.novelis.com

TITLE

Novelis Aluminum BIW Solution

ABSTRACT

Topic:

- High Volume Aluminum Solutions for Lightweighting
- Solutions for Forming & High Speed Joining
- Tailored Solutions for Material Utilization
- Alloys for Strength and Crash Energy
- Closed Loop Recycling
- Adhesive Bonding Technology Innovation

High Volume Aluminum Solutions for Lightweighting

James Liu
Vice President – Automotive, Novelis Asia
Managing Director, Novelis China
July, 2015



Novelis is the Global Industry Leader in Aluminum Sheet



● Existing Plant ● Existing Plant: Brownfield Expansion ● New Plant: Greenfield Expansion

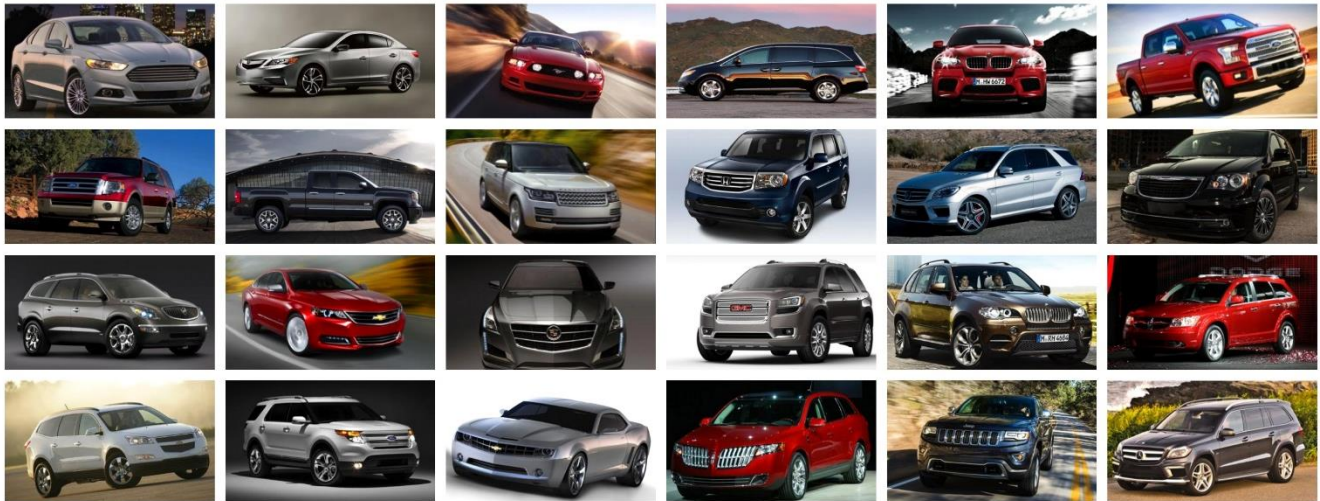
GLOBAL ALUMINUM LEADER IN:

Flat Rolled Products

Automotive BiW Sheet

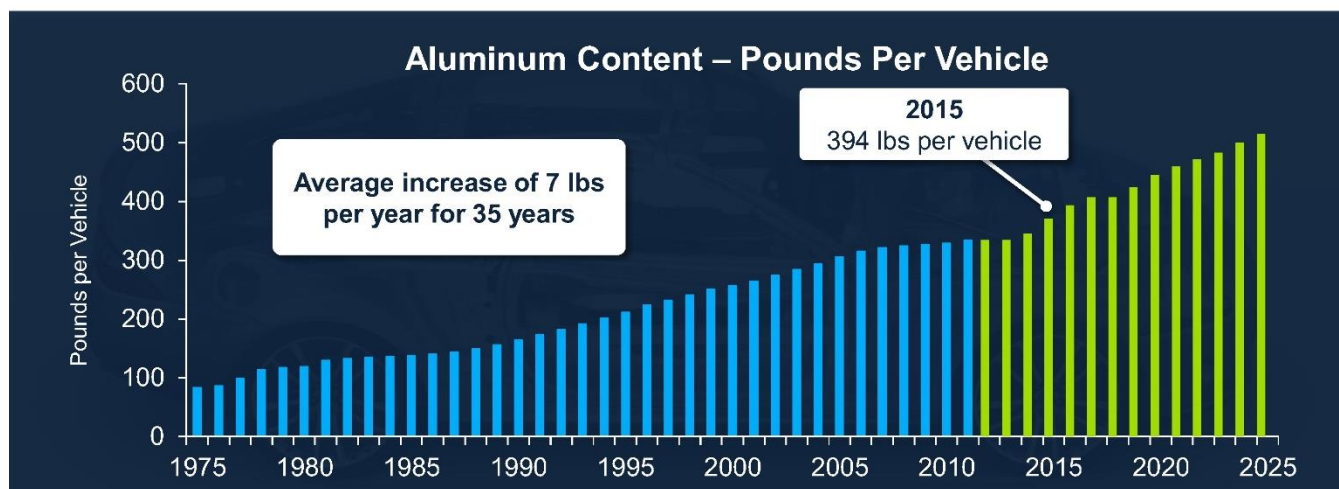
Recycling

Where Do You Find Novelis Aluminum Today?



Not just aluminum, Novelis Aluminum.

40 Years of Uninterrupted Growth



Source: Ducker Worldwide 2014

Not just aluminum, Novelis Aluminum.

Key Factors for Mass and Cost Efficiency

- High Form and High Strength Alloys for Part Count and Thickness Reduction
- Optimize Material Utilization
- Establish a Closed-Loop System with High Recycled Content Products
- High Speed Continuous Joining
- Standardize "Fit for Service" Specs

SAFETY DURABILITY DESIGN MANUFACTURING SUSTAINABILITY

5

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Attention to These Key Factors Pays Off



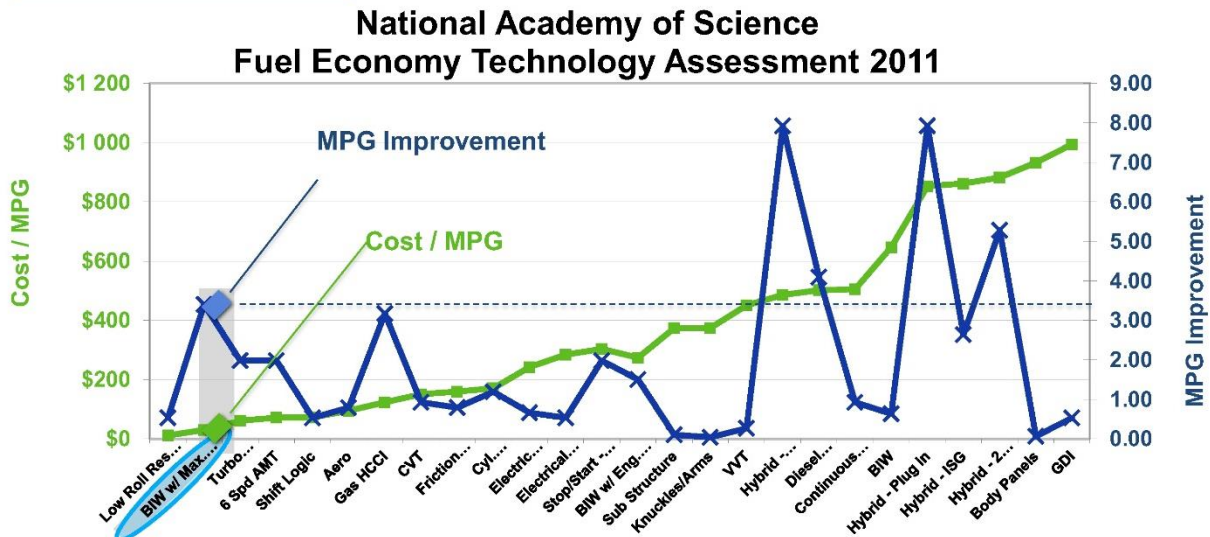
All - Aluminum Range Rover (compared to steel predecessor)



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Aluminum-based Mass Reduction Provides Cost Effective Fuel Economy



Source: US Aluminum Association

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Alloy Development Directions

Strength & Hemming

Recycling

Strength & Crash

Surface & Joining
(Incl. steel-alum.)

Forming & Welding

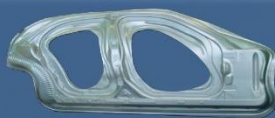
Novelis Advanz™ Product Portfolio

	Exterior	Inner / Structure	Strength	Crash
In-Production	Advanz™ e600		Advanz™ c300	
	Advanz™ e170	Advanz™ s118	Advanz™ s615	
Launch Ready	Advanz™ e200	Advanz™ s200		
Standard Products	6016	5754	6111	
		5182		

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Bodyside Evolution in Aluminum at JLR



XJ (X350) Bodyside
 ▪ NG5754
 ▪ 1.5mm



XJ (X351) Bodyside
 ▪ AA6111
 ▪ 1.2mm



Range Rover Bodyside
 ▪ Advanz™ e170
 ▪ 1.1mm



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Source: JLR presentation, Eurocarbody 2012, R. Lloyd, G. Moyce, S. Black, M. Rickards

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Advanz™ e200 for Advanced Formability

INFLUENCE of FLC_o on FORMING

Advanz™ e170

Advanz™ e200

BODY SIDE TRIALS

Advanz™ e170

Advanz™ e200

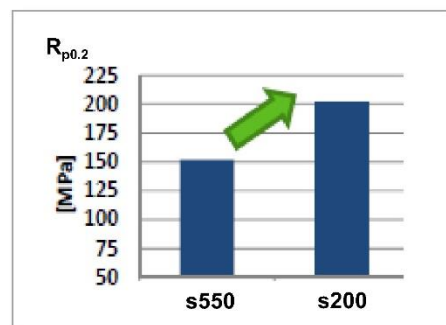
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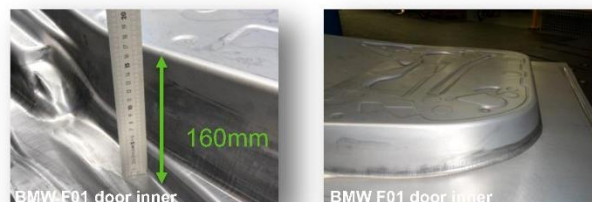
Advanz™ s200 for Advanced Formability

Benefits for door inners

- Down-gauging due to high strengthening in paint bake
- Uni-Alloy (6xxx series) approach for improved recycling
- Deep draw capability



Successful Forming Trials
With Advanz™ s200



Doors and Closures in Car Body Engineering 2014

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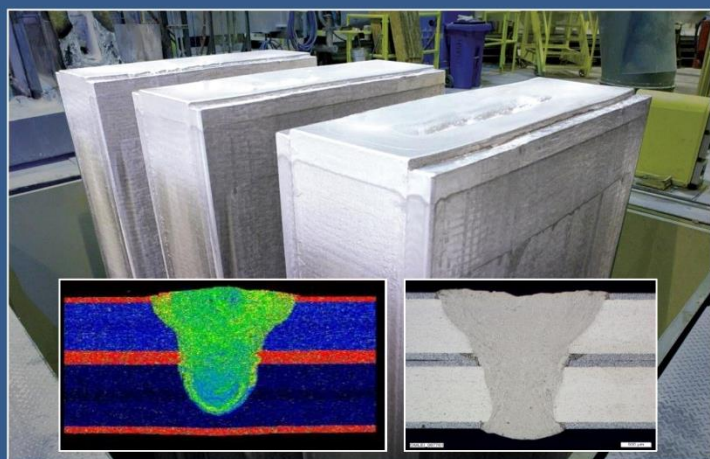
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Solutions for Forming & High Speed Joining

Novelis

Advanz™ s200 is a key enabler for Remote Laser Welding

- Advanz™ s200 is weldable without filler metal
- Maintains the benefits of 6xxx monolithic products
- Approvals in progress with multiple automakers for several applications

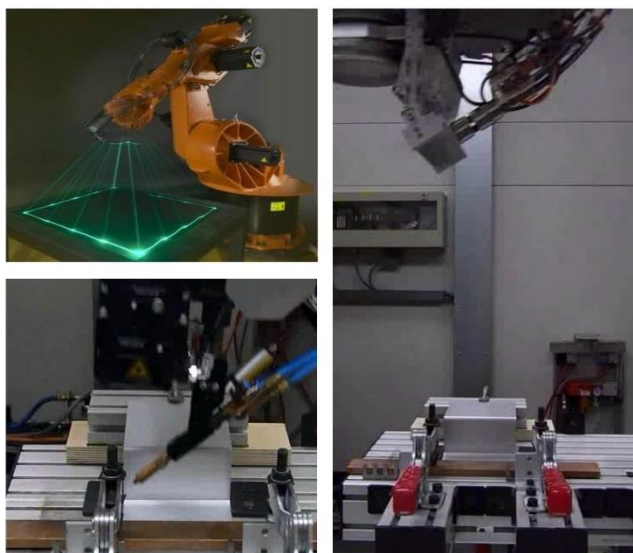


Joining Productivity with Remote Laser Welding

- Much faster than conventional technique with filler metal
- Allows more complex welds
- Better weld sequence optimization

The Challenge:

- 6xxx series alloys crack without a filler wire

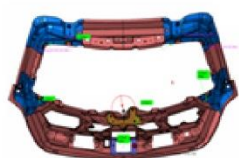


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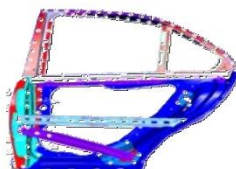
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Opportunities for Advanz™ s200 and Remote Laser Welding

- One-side Assembly for many modules
- Potential reduction of adhesive bonding due to stiffness increase



Tailgate (110 welds/car)



Doors FD/RD (4 x 90 welds/car)



Sidewall inner (120 welds/car)

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Tailored Solutions for Material Utilization

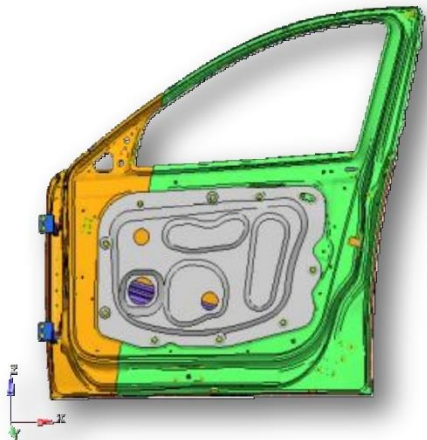
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Aluminum Tailored Blanks



DEVELOPMENT OF WELDING TECHNOLOGY	WELDING TECHNOLOGY & FORMING TECHNOLOGY VALIDATION	OEM APPROVAL PROCESS	SERIES PRODUCTION SET UP WITH OEM
			
2012	2013	Q1 2014	Q3 2014

Tailored Aluminum Blanks – Door Structure Study



Cost Comparison Aluminum Assy vs. TAB®		
TAB®		
Δ NET WEIGHT	- 5 %	
Δ GROSS WEIGHT	- 15 %	
Δ VARIABLE COST	- 5 %	
Δ INVESTMENT	- 39 %	
WEIGHT ↓	COST ↓	PERFORMANCE ✓

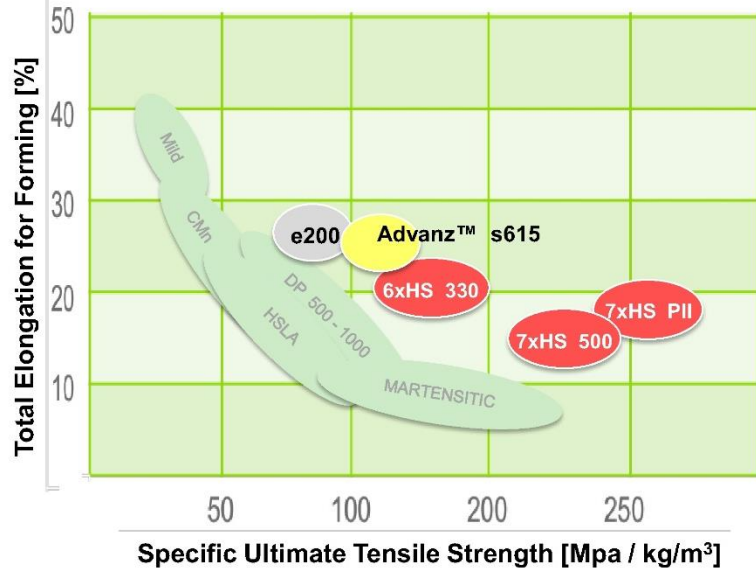
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**Alloys for Strength and
Crash Energy**

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High Strength Roadmap



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Advanz™ c300 for Crash Energy Alloy



In comparison to 5754 equivalent part

- **20% Weight save** achieved – circa 6kg per vehicle
- **9% Cost save** per vehicle
- **12000 tonnes CO₂ reduced** from fleet tailpipe emissions

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Strength Dominated Sheet Products

Advanz™ s615

Status: In-production

- In-service T8x (2%+185°C 20min):
Yield Strength: 250 MPa
- Post-form Artificially Aged (PFAA) Condition:
Yield Strength: 290 MPa
- Designed for Strength-Toughness dominated parts
- PFAA material is rivet-able with Self-Piercing Rivets (SPRs)
- Avoid PFAA for cost reduction without excessive mass increase
- Developed to meet Ford's demanding 6HS2 specification but designed for a wide range of commercial applications



Advanz s615 launched in the 2015 Ford F-150

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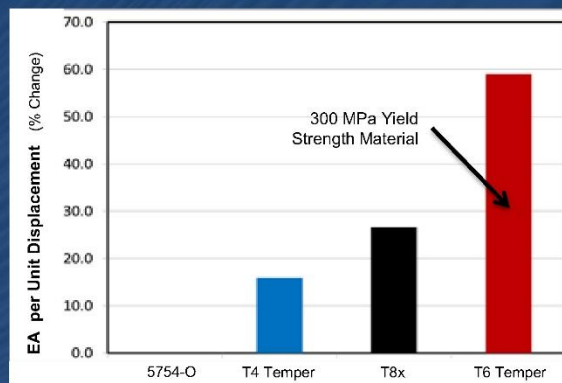
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Advanz™ s615

Static Axial Crush Test



Energy Absorption (EA)



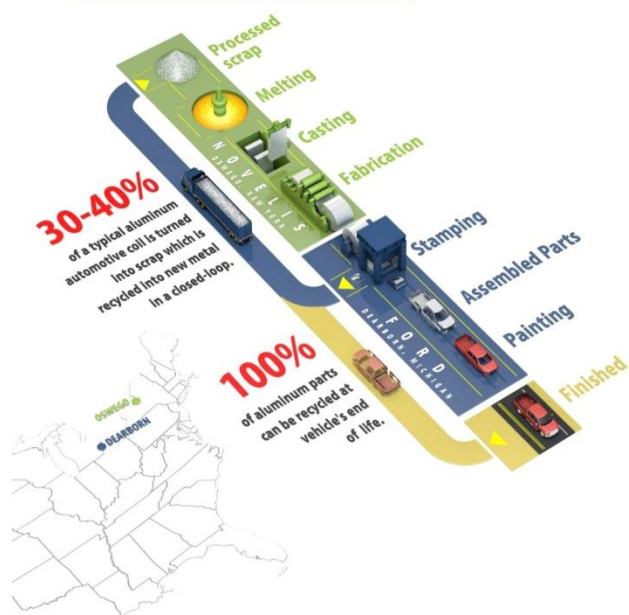
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Closed Loop Recycling

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Closed-Loop System Drives Cost & CO₂ Efficiency



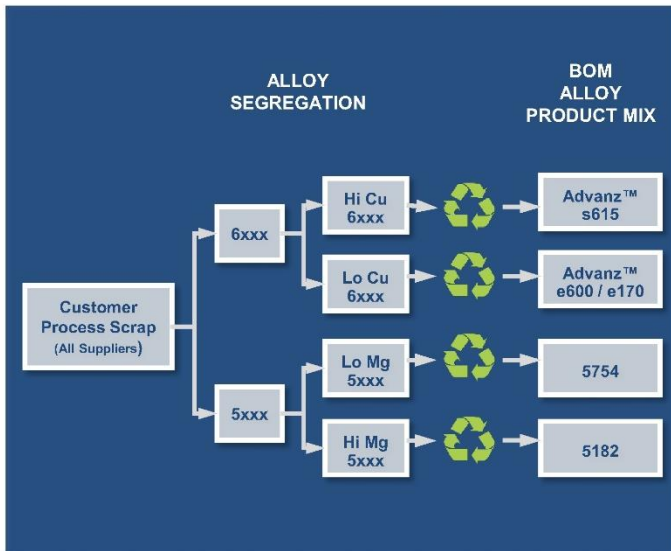
- Synchronize alloy selection with the stamping strategy and the closed-loop system strategy
- Espec. 5xxx - 6xxx alloy mix



Specially designed trucks deliver scrap back from Ford's stamping plant to Novelis to be recycled

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Closed-Loop System Drives Cost & CO₂ Efficiency



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- Early BOM visibility enables comprehensive trade studies and decisions
- We continue to enhance alloys for recycle content and breadth of application

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Recycled Content Alloys



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RC5754

- Developing higher recycled content auto alloys as part of company's sustainability commitment
- Jaguar XE is first all new car in the world to use this new, high recycled content aluminum alloy designed jointly by Novelis and Jaguar Land Rover for the automotive industry
- Launched in Europe this fall and arriving in North America in 2016

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Adhesive Bonding Technology Innovation

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Novelis and Henkel Partner on Advanced Bonding Technology for High-Volume Aluminum Vehicles

- Global collaboration for Next-generation solutions for the aluminum industry adoption, *free from licensing*
- **Bonderite M-NT 8453**, the first product from the partnership
 - Designed to meet all customer requirements and fit all Automotive production lines globally
 - Key advantage: Versatility and cost-effectiveness for high volume, aluminum bonded structures

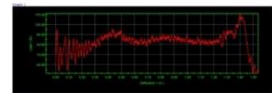


Bonderite M-NT 8453

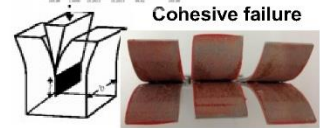
Ti, Zr fluorides and Henkel's proprietary polymer formulation provides industry-leading adhesion and corrosion resistance

Automaker Approvals	Tests Passed to Date	Production Versatility
<ul style="list-style-type: none"> ▪ Already approved by a global automaker ▪ Undergoing approval testing with multiple global automakers 	<ul style="list-style-type: none"> ▪ The most severe Stress Durability testing in industry ▪ Neutral Salt Spray - 20 weeks ▪ Impact peel test ▪ Resistance Spot Weld ▪ E-coat/Paint and Corrosion 	<ul style="list-style-type: none"> ▪ Spray ▪ Roll-on-dry-in-place ▪ Immersion coating

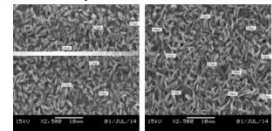
Fracture toughness results met OEM requirement



Cohesive failure



SEM Micrographs of Zn-P structure



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Key Factors for Mass and Cost Efficiency

<ul style="list-style-type: none"> ▪ High Form and High Strength Alloys for Part Count and Thickness Reduction ▪ Optimize Material Utilization ▪ Establish a Closed-Loop System with High Recycled Content Products ▪ High Speed Continuous Joining ▪ SAFETY DURABILITY 	<ul style="list-style-type: none"> ▪ Harmonize "Fit for Service" Specs ▪ DESIGN 	<ul style="list-style-type: none"> ▪ MANUFACTURING 	<ul style="list-style-type: none"> ▪ SUSTAINABILITY
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We Welcome You To Our Next Event

AluMag®

North America 2015 9th - 11th of Nov
 AUTOMOTIVE LIGHTWEIGHT
PROCUREMENT SYMPOSIUM
 Westin Hotel in Detroit, USA



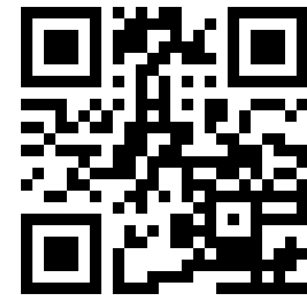
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AluMag SAE 2016 12th - 14th April
 Light Weighting - Emission Reduction - Car Comfort
 Technology Center, Booth # 763 - Detroit - Cobo Center, MI USA



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CONTACTS & PROJECT TEAM



Mr. Jost GAERTNER
 Managing Partner
 AluMag® Automotive GmbH
 Kirchplatz 1a
 58706 Menden
 GERMANY
 Tel.: +49 2373 929492
 j.gaertner@alumag.de
 German & English



Ms. Ying ZHOU
 Project Coordinator Japan & China
 AluMag® Automotive GmbH
 Kirchplatz 1a
 58706 Menden
 GERMANY
 Cell: +49 172 6415876
 y.zhou@alumag.de
 German & English & Chinese & Japanese



Mr. Jesper Ove LARSEN
 Manager Market Research
 AluMag® Scandinavia
 Byagervænget 69
 8330 Beder
 DENMARK
 Cell: +45 2573 8790
 j.larsen@alumag.de
 German & English & Danish



Mr. Roberto BOEKER
 Managing Partner
 AluMag® Automotive LLC
 42056 Michigan Avenue
 Canton, MI 48188
 USA
 Cell: +1 248 962 5086
 r.boeker@alumag.de
 English & German & Spanish



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THE MARKET DEVELOPER



Mr. Ricardo SCHOER
 Senior Consultant
 AluMag® Automotive LLC
 Av. San Antonio 189-131
 Col. Napoles 03810
 MEXICO
 Cell: +52 55 4002 0501
 r.schoer@alumag.de
 English & German & Spanish



Ms. Jacqueline TEUBER
 Senior Roadshow Organizer
 AluMag® Automotive GmbH
 Kirchplatz 1a
 58706 Menden
 GERMANY
 Tel: +49 2373 929496
 j.teuber@alumag.de
 German & English



Mr. Thomas KATCHMARK
 New Business Development Manager
 AluMag® Automotive LLC
 20929 Sunnydale
 Farmington Hills, MI 48336
 USA
 Cell: +1 313 410 0865
 t.katchmark@alumag.de
 English