



INTERNATIONAL ASSOCIATION OF ENGINE REMANUFACTURERS
FEDERATION INTERNATIONALE DES RECONSTRUCTEURS DE MOTEURS

e-newsletter

November/December 2020

1. Last “e-newsletter” in this Format
2. FIRM strengthens the Voice of Remanufacturing through a merger with APRA Europe
3. EV Sales expectation (Roland Berger Automotive Disruption Radar #8)
4. F2J Reman, Re:Create and GB Remanufacturing win Remanufacturer of the Year Awards 2020
5. Fourth Virtual Online Symposium on Innovation and Automation in Remanufacturing – you are invited (free for all)
6. APRA Europe initiates free monthly Expert Webinars
7. AERA Technical Bulletins

Annex: Forthcoming Events

1. Last “e-newsletter” in this Format

Due to the merger FIRM – APRA Europe the format of our newsletter will change. Beginning with the year 2021 engine reman related issues will be published in “APRA Europe News” in the “Engine Reman Corner”. All members within in the merged database will receive the newsletter automatically.

2. FIRM strengthens the Voice of Remanufacturing through a merger with APRA Europe

APRA Europe, the Automotive Parts Remanufacturers Association Europe, and FIRM, the International Federation of Engine Remanufacturers, announce their merger which comes into effect from 01 January 2021. By making this step they are now representing a vast majority of the European remanufacturing market and represent far more than 1.000 companies.

APRA and FIRM share a long tradition in the automotive aftermarket and follow very similar purposes and activities. Both associations represent the interests of the parts remanufacturing industry in Europe. While FIRM acts as an umbrella organization of national engine remanufacturing associations and companies and therefore has a clear focus on the engine business, APRA members can be any private or legal entity related to the general remanufacturing business and field of science.

Because of a very successful and close cooperation for many years, APRA Europe and FIRM are now joining forces. By making this step, the associations will be able to offer a higher quality of services to all members and represent a larger share in the market and therefore have a stronger voice towards stakeholders and decision makers.

Together, APRA Europe and FIRM members represent a market volume of more than 1,5 billion EUR with 25.000 employees in Europe. This is equivalent to about two thirds of the European remanufacturing industry.

APRA Europe Chairman Dr. Koehler comments on that: "I am more than happy that we could realize this merger which was overdue. With this combined broad member base, representing the vast majority of the European remanufacturing branch, we are now able to pave the way for still better recognition of our businesses. As a member-driven association this brings a lot more value to them.

For the global orientation of APRA, its broad member base and its comprehensive management infrastructure, FIRM merges with and into APRA Europe. With the approval given by both General Assemblies in the course of 2020, the merger comes into effect from 01 January 2021.

The name and recognized brand "FIRM" will be kept and established as a working group for engine remanufacturing inside APRA Europe. The working group will initially be chaired by current FIRM President Clemens Ortgies. To him "the merger makes perfect sense. Only for historic reasons, we were organized and managed in slightly different manners. Now, we have the great opportunity to bring the remanufacturing branch closer together under the same roof [Clemens Ortgies, FIRM President].

APRA Europe and FIRM are confident that this step marks an important milestone for both associations as well as the remanufacturing landscape and makes the associations still stronger together.

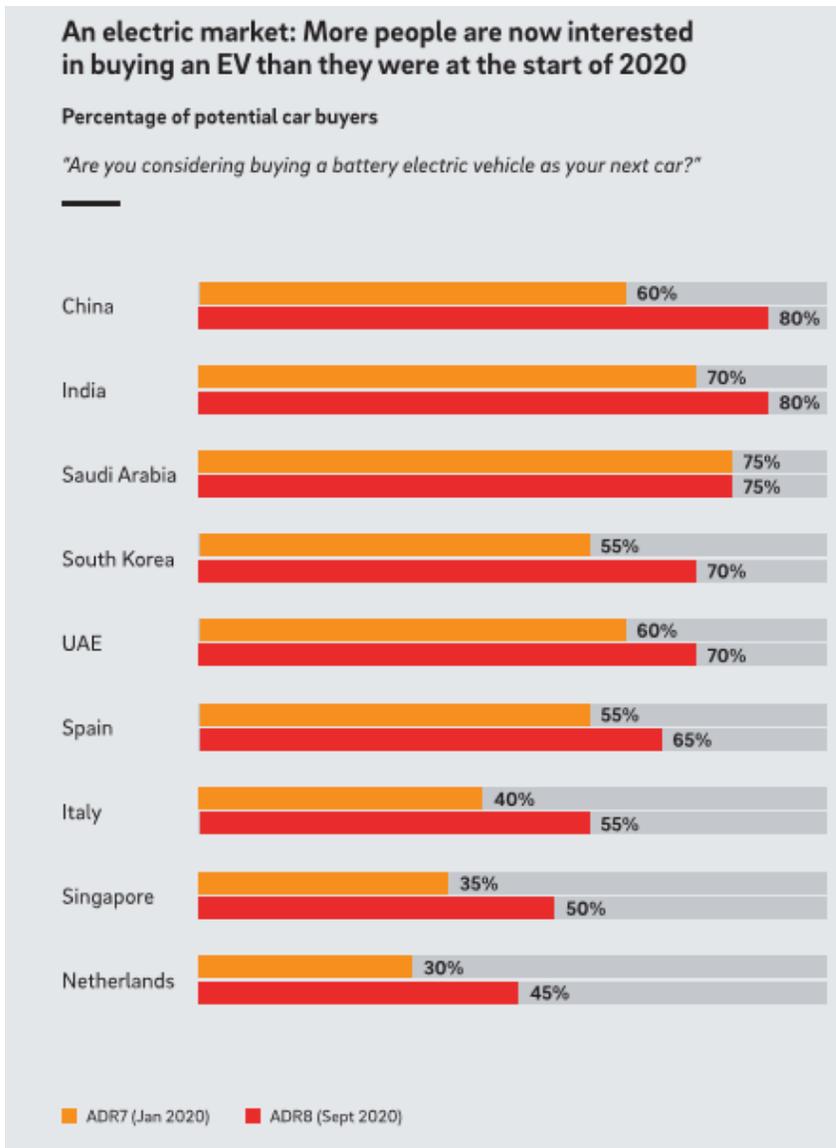
FIRM and APRA together have now the unique chance to offer more value and activities:

- Virtual Training Sessions, webinars and symposiums
- Bimonthly Newsletter with engine reman related issues
- Frequent Press releases
- Membership WERC

- Legal perspective of reman
- Advocacy on EU level
- Marketing
- Extending membership base

The “Engine Reman Group” within APRA Europe will focus on engine reman related matters

3. EV Sales expectation in 2020 (Roland Berger Automotive Disruption Radar #8)



Source: Roland Berger Automotive Disruption Radar online survey
 Roland Berger Automotive Disruption Radar #8 – 2020

The shift in buying intention has translated into an increase in EV sales, particularly in northern hemisphere markets. In Sweden, for example, almost a quarter of all vehicles sold are now fully electric or plug-in hybrid models. And compared to the first half of 2018, the number of EVs sold as a percentage of the total number of vehicles sold leapt in France (7.8% vs. 1.8%), Germany (7.2% vs. 1.8%) and the UK (6.9% vs. 2.0%). Subsidies no doubt again played a part.

Tesla remains the dominant EV seller, with its models featuring heavily in lists of the top 5 manufacturers by EV sales in each country. Its Model 3 saloon is particularly prevalent, with sales in the US and China alone in the first half of 2020 reaching almost 90,000. Sales by traditional OEMs are also picking up, with Renault’s Zoe performing well in

European markets, for example. Chinese producers, such as BYD and GAC, are largely confined to the top 5 of the Chinese market.

Roland Berger Automotive Disruption Radar #8, 2020

4. **F2J Reman, Re:Create and GB Remanufacturing win Remanufacturer of the Year Awards 2020**

Amsterdam, 3 December 2020 - Yorien de Ruijter, director of Rematec News, presented the Remanufacturer of the Year (RotY) Awards Ceremony during the APRA Europe online symposium. She introduced Felix Feuerbach as chair of the jury to announce the winners of the Remanufacturer of the Year Awards. Judged by a panel of remanufacturing industry experts on a set of criteria, the following winners are deemed to lead the industry forward.

The jury led by Felix Feuerbach and including Peter Bartel, Erik Sundin and Tessa Vlaanderen were impressed with the, all equally interesting, nominations they received. In some specific categories, the nominees made it difficult for the jury.

F2J Reman's Part recognition Vision system wins two awards Although business innovation and process optimisation often go hand in hand, it is the first time a company wins both awards. The jury commented on awarding both Best Reman Process Optimisation and Best Reman Business Innovation awards to F2J Reman with the following: "F2J Reman's Part recognition Vision system is tackling the right problem, whereby today many companies are depending with core identification on an internal expert, who's hard to replace in the case he/she is not able to work for them anymore. F2J Reman decided to embrace novel smart technologies to support business optimisation by attracting a PhD student and using artificial intelligence. This innovative technology, just coming out of the IT- research, is not yet available on larger scale in commercial applications for the remanufacturing industry. A precondition for using AI is to open the mindset in the management to accept and trust in IT, even when decisions of the system can not be re-evaluated by a human in many cases. All-in-all a strong business innovation, clever system and a good way forward making remanufacturing industry more competitive."

Re:CREATe awarded for their efforts in India's nascent remanufacturing industry With Re:CREATe's vision to be co-creators of a thriving remanufacturing industry in India, the organisation has made impact on the jury in the category Best Reman Ambassador. With Re:CREATe's commitment to being advocates for, and providing tools, resources, guidance and inspiration to the makers, doers, and designers in remanufacturing, they are empowering them to develop and provide remanufactured products and related services that are in harmony with the principles of environmental stewardship. The jury states that "Re:CREATe is a non-profit organisation with focus on India's nascent remanufacturing industry. This industry is beginning to display signs of its future potential, so Re:CREATe's focus and commitment deserves recognition and support from the global remanufacturing industry with the award for Best Reman Ambassador."

Adding value to the society and environment: **GB Reman** takes home the Special Recognition Award. Special times ask for special recognition. GB Remanufacturing, a company that remanufactures components for gas and diesel engines, used their expertise and knowledge to design a vital part for the medical industry when it was most needed. In April this year, normal hospital respirators needed to be converted to pressure controlled respirators. The Original Equipment Manufacturer did not have all the pieces to manufacture the special part, so the medical OEM used the Emergency Use Act, where they allowed other (re)manufacturers to add parts to their product. GB Reman provided this life-saving ventilator part to its local hospital.

The jury praised the way GB Reman took on this project: "A remanufacturer has the core competence to develop "work arounds" for problems and to transform them into industrial, capable processes. This competence is the logical precondition of GB Reman to develop and deliver needed parts for the hospital within the Covid-19 pandemic. In short: GB Reman put their competence to good use in times of need." The jury proceeds: "The business opportunity for reman is not only to make money, but also to run a sustainable business, valuable for the environment and the society. GB Reman shows precisely this: how remanufacturing companies can be versatile, flexible and switch to other markets swiftly."

APRA News 10.12.2020

5. Fourth Virtual Online Symposium on Innovation and Automation in Remanufacturing – you are invited (free for all)

Fernand Weiland of FJW Consulting and former Chairman of APRA Europe together with Wolfgang Gerke and Matthias Vette-Steinkamp professors at University of applied Science in Trier are inviting again to their fourth Online Symposium which will be held on March 10, 2021, and which due to the corona virus will be performed again online. The objective of the conference is to demonstrate how the revolution in traditional remanufacturing processes is being driven by innovation and automation. The organisers are delighted to have again the support of ReMaTec, APRA, FIRM and ERC.

The video conference will be held on Wednesday 10 March 2021 at 17:00 CET, duration 1.5 hours.

The program will include the following 3 presentations:

Additive Manufacturing and Remanufacturing – made for each other. Perspective from the University of Bayreuth

By Professor Frank Döpper, Jan Koller, Chair Manufacturing and Remanufacturing Technology and Christian Bay, Research Centre for Additive Innovations at the University of Bayreuth In their presentation, they will match the challenges of modern remanufacturing with potentials and opportunities of additive manufacturing. Based on this, they will discuss future solutions for a sustainable application of additive manufacturing in the context of remanufacturing.

Additive manufacturing at ZF Aftermarket - key challenges for the Remanufacturing Industry

By Jirka Horvath, Director ZF Aftermarket Operations Europe & EMEA & Operations Remanufacturing. Apra Europe Director.

Integration of Additive Manufacturing in Borg Automotive Remanufacturing Process

By Jesper Moberg, Borg Automotive Director, Business Development

Following the presentations, to animate the discussion, invited to comment is:

Dr Rachel Waugh, Technical Consultant, European Remanufacturing Council, Brussels

The Video-Audience will also be invited to ask questions.

The organisers would be pleased to welcome you to this event, if you wish more information please Email to: Wolfgang Gerke w.gerke@umwelt-campus.de or Fernand Weiland fernand.weiland@t-online.de

To attend the Symposium, you must register under:

www.umwelt-campus.de/en/online-symposium-on-remanufacturing

APRA Europe WEBINARS		
DATE	TOPIC	SPEAKER
18.02.2021, 17:00-17:45	How to evaluate cores in financial accounting – including best practices	Peter Bartel Circular Economy Solutions
24.03.2021, 17:00-17:45	Covid-19 and Remanufacturing	Georgios Chatzinikolaou STP-Parts
21.04.2021, 17:00-17:45	NPI Optimization – a knowledge driven project [NPI = New Product Introduction]	Lorenzo Gaspari BORG Automotive

6. APRA Europe initiates free monthly Expert Webinars

APRA together with APRA Europe is the Voice of Remanufacturing since 1941. As a non-profit association one of our value propositions is to provide guidance and support, i.e. give advice to remanufacturers, communicate latest technologies and inform on complex legal issues.

As a new service to our members and the remanufacturing community, we are now sharing professional knowledge through this state-of-the-art channel.

Every month, one of our experts will give a webinar on a dedicated remanufacturing-related topic and provide insights into best practices. The webinars will cover a wide range of topics, from Operations to Financials, from Policy to Sustainability.

We intentionally limit the webinar duration to less than one hour, so that as many of you as possible can join flexibly and easily process the contents. Each webinar will include the expert's speech followed by a Q&A where the interested audience can ask questions and discuss.

And, the best is yet to come, all expert webinars can be attended free of charge.

Program and Registration:

Participation is free of charge. However, registration by email is required as we want to check the efficiency of the webinars for continuous improvement.

Program, please have a look at: https://apra.org/page/Euro_Webinars

For registration, send an email to europa@apra.org and mention date of webinar, your name and company name.

7. AERA Technical Bulletins

VETEC Rocker Arm Test on 2006-2010 Honda 3.5L J35A9 Engines

(<https://www.engineprofessional.com/TB/TB121020-1.pdf>)

Camshaft Position Actuator Installation Caution on 2009-2015 GM 1.8L LUW Engines

(<https://www.engineprofessional.com/TB/TB121020-2.pdf>)

CADILLAC CT6 3.6L V-6

(https://www.engineprofessional.com/articles/EPQ318_58-66.pdf)

Valve Stem Measurement Tool for 2003-2012 Volvo 2.5, 2.8 & 2.9L Engines

(<https://www.engineprofessional.com/TB/TB111020-1.pdf>)

Main Bearing Cap Bolt Usage on 2015 GM 5.3, 6.0 & 6.2L LS Engines

(<https://www.engineprofessional.com/TB/TB111020-2.pdf>)

Top 10 Cam Failure Culprits

(https://www.engineprofessional.com/articles/EPQ318_42-48.pdf)

Balance Shaft Installation For 2011-2020 Ford 2.2L Duratorq Diesel Engines

(<https://www.engineprofessional.com/TB/TB010821-1.pdf>)

Engine Model Cross Reference for Case Construction Equipment

(<https://www.engineprofessional.com/TB/TB010821-2.pdf>)

PERFORMANCE PUSHROD TECHNOLOGY

(https://www.engineprofessional.com/articles/EPQ318_68-78.pdf)

Annex 1: Forthcoming Events

A lot of events and exhibitions were cancelled or postponed caused by Corona Virus

Heavy Duty Aftermarket Week

25-29 January 2021, Virtual Event

SMM

2-5 February 2021, Virtual Event

EUROTIER, Energy Decentral

9-12 February, Virtual Event

Fourth Virtual Online Symposium on Innovation and Automation in Remanufacturing

10 March 2021, Online Event

Hannover Messe

12-16 April 2021, Digital Edition

New Power Progress Summit 2021

26 May 2021, Virtual Event

INA/PAACE Automechanika

21-23 July 2021, Mexico City, Mexico

Automechanika

14-18 September 2021, Frankfurt, Germany

BigR Show

1st of November, Las Vegas, NV, USA