

Capital Markets Day 2017 Horst Binnig, CEO Automotive

Rheinmetall AG, 21 November 2017

REVIEW2016/17



Look back CMD 2016 in Düsseldorf: Last Chart: Rheinmetall Automotive is well prepared

Markets and Customers:

- We expect a stable market with lower growth rates
- China will be the growth driver, Europe and NAFTA might weaken
- Brazil seems to have touched bottom line

Performance and Products:

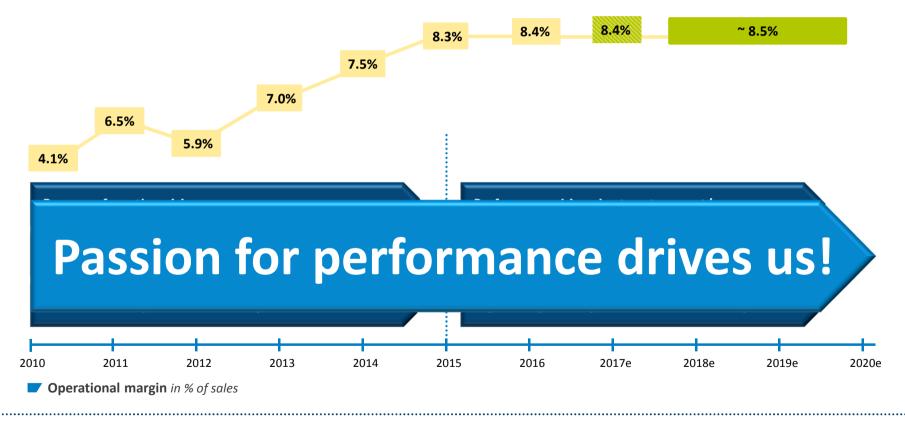
- Mechatronics will be the growth driver in the next years
- Hardparts will streamline the global footprint to optimize assets and cost structure
- Aftermarket will return to former profitability after ramp up own production facilities

New Mobility Concepts:

- Hybrid cars and e-cars are offering chances for new products and higher content per car
- We have to refocus our R&D spendings to enlarge the product portfolio
- The product pipelines are filled for every type of power trains within the next years



Automotive in a ten year view Achieving and maintaining the target margin level



MARKETINSIGHTS



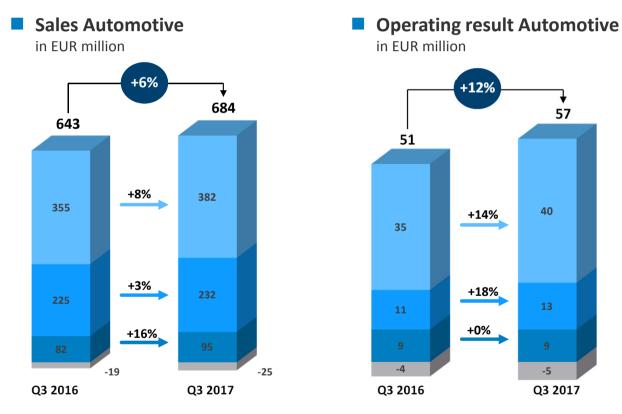
Highlights Rheinmetall Automotive Q3 2017 Market outperformed, margin improved

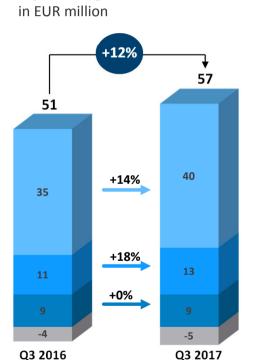


- Q3: Sales rose by 6% to €684 m, FX adjusted 7.3% (9M: Sales rose by 8% to €2.150 m, FX adjusted 7.5%)
- Q3: Operating result grew by 12% to €57 m (9M: Operating result grew by 14% to €186 m)
- Q3: Operating margin increased by 40bp to 8.3% (9M: Operating margin increased by 50bp to 8.7%)
- **Q3: Quarterly free cash flow improved** by €34 m to €81 m (9M: Free cash flow improved by €73 m to €32 m)



Operational leverage Mechatronics and Hardparts drive the third quarter





Reasons for result development

Mechatronics

Strong demand for fuel optimization as main driver; emission reduction on solid level

Hardparts

Higher demand for Large Bore Pistons and good development for **European LV pistons**

Aftermarket

 Recovery of sales in East European countries

Restatement of 2016 reported figures in Mechatronics and Aftermarkets related to change in plant assignmen



Hardparts streamlined its global footprint

Financial impact

- One time cost of around €22 m:
 - €17 m for severance payments (cash-effect in 2018)
 - €5 m asset impairment (non-cash effect)

■ Annual savings of around €10 m expected mid-term



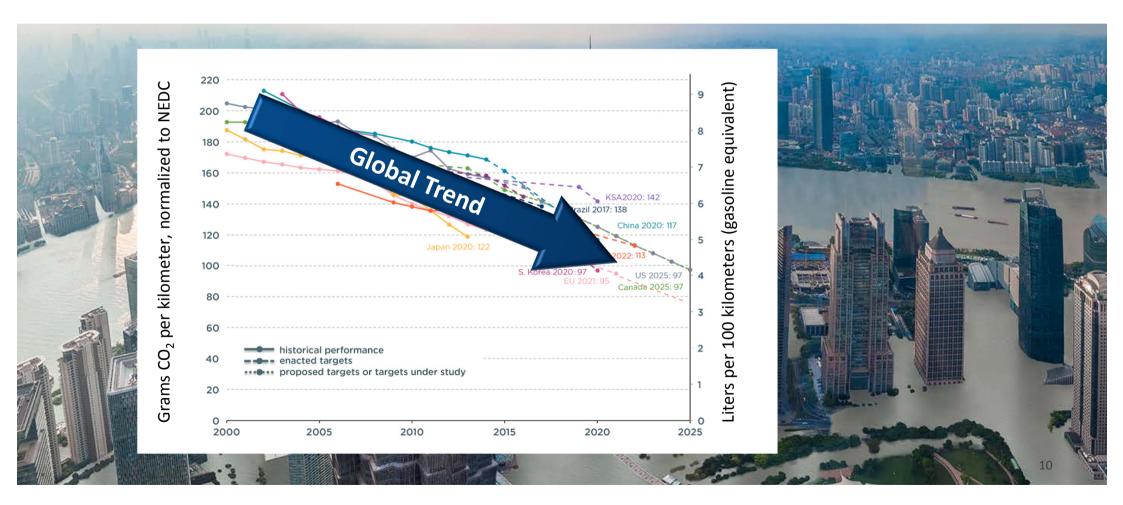
Hardparts site



Global Mega Trends... Hamburg Köln Düsseldorf Stuttgart München Aachen Wiesbaden *(EINI* VND) ...are still valid



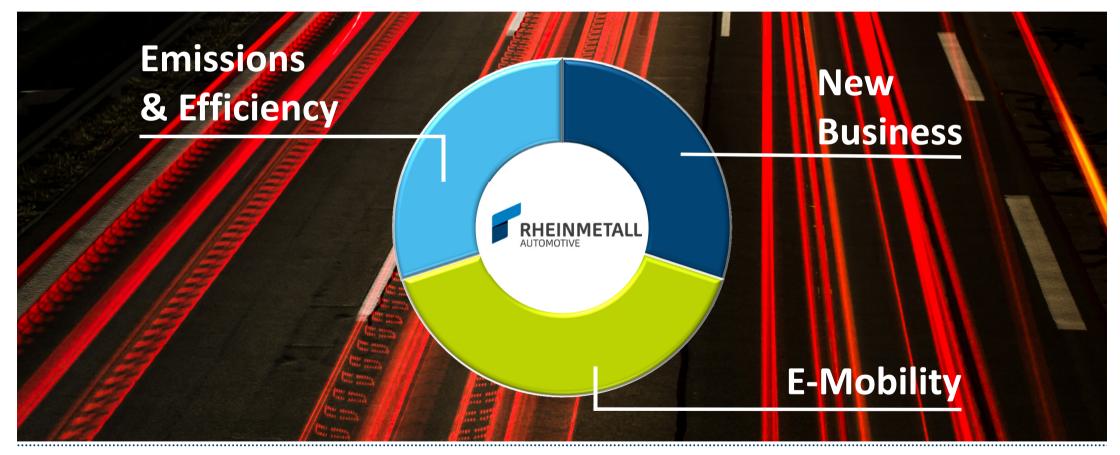
Engine efficiency as a driver of growth Around the globe, rules on CO₂ emissions are becoming more and more stringent



AUTOMOTIVESTRATEGY

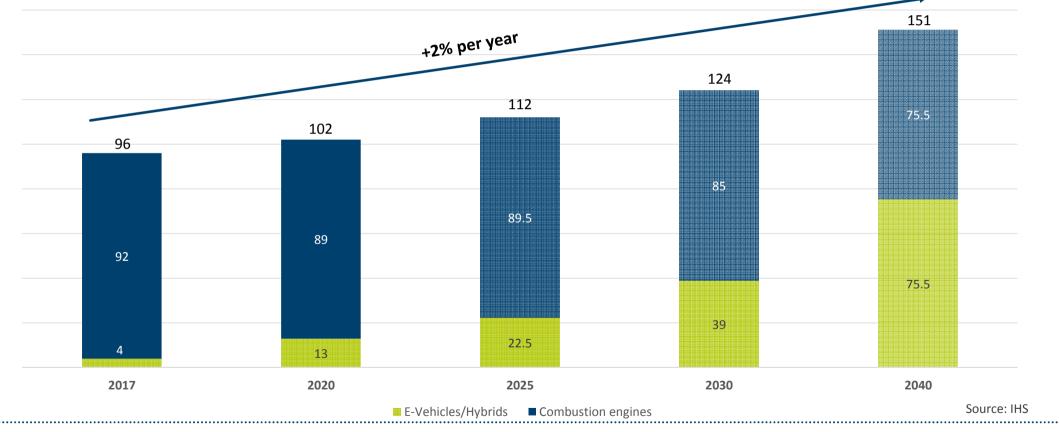


Sales split Rheinmetall Automotive Vision 2025+





Growth of electric vehicles/hybrids Based on LV production worldwide (in m)





Sales by segment 2017



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Sales by segment 2040

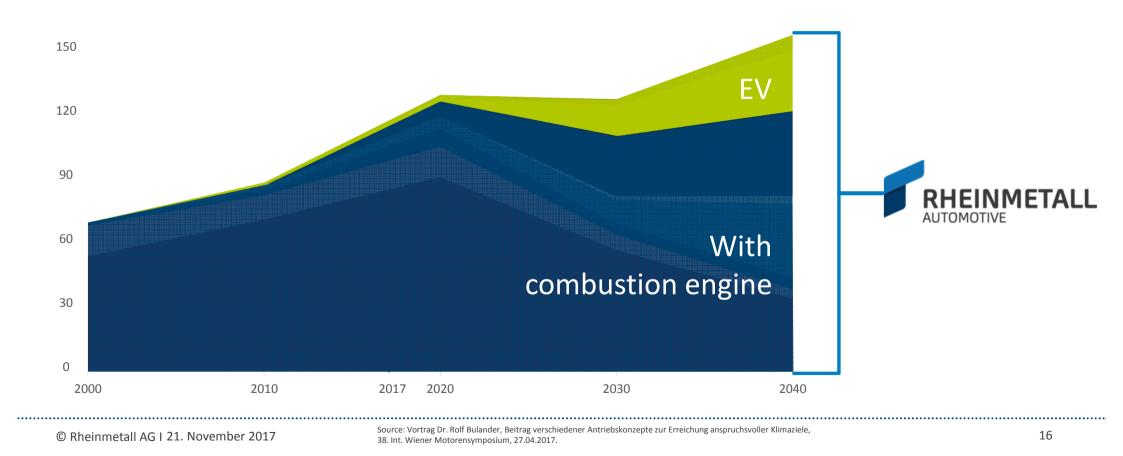


Image source Getty Images, Data based on fiscal 2016



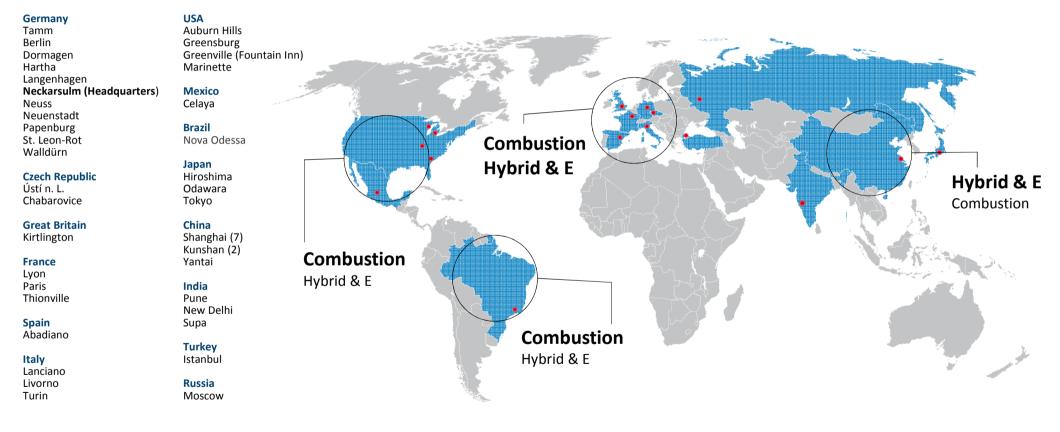
Scenario 2040 vehicle production

The internal combustion engine isn't dying, but it now has competition





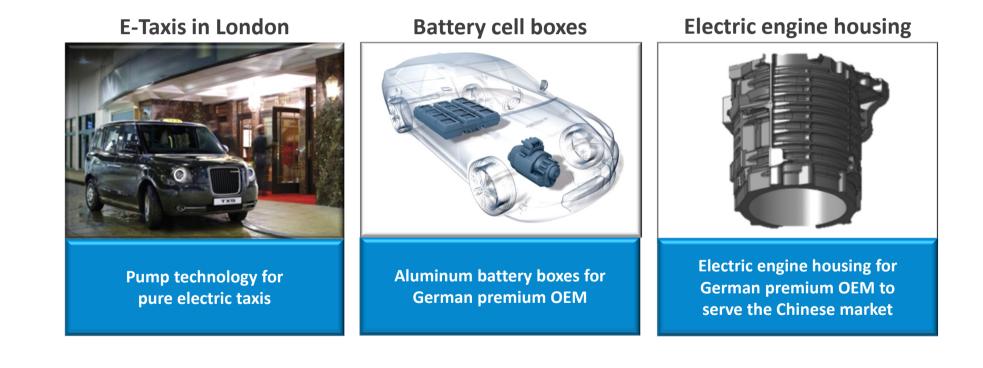
Rheinmetall Automotive worldwide: More than 40 locations with high focus on local needs



Including JVs in Neckarsulm und Greensburg / Yantai / Shanghai / Tokyo as well as the stake in the New Delhi enterprise and the sales offices

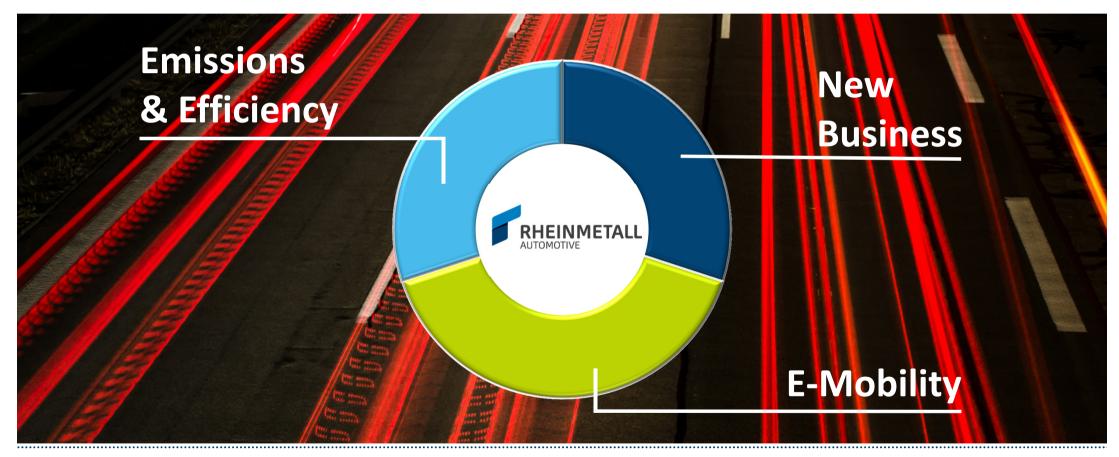


E-mobility@Rheinmetall Automotive Electric vehicle orders close to €500 million





Sales split Rheinmetall Automotive Vision 2025+





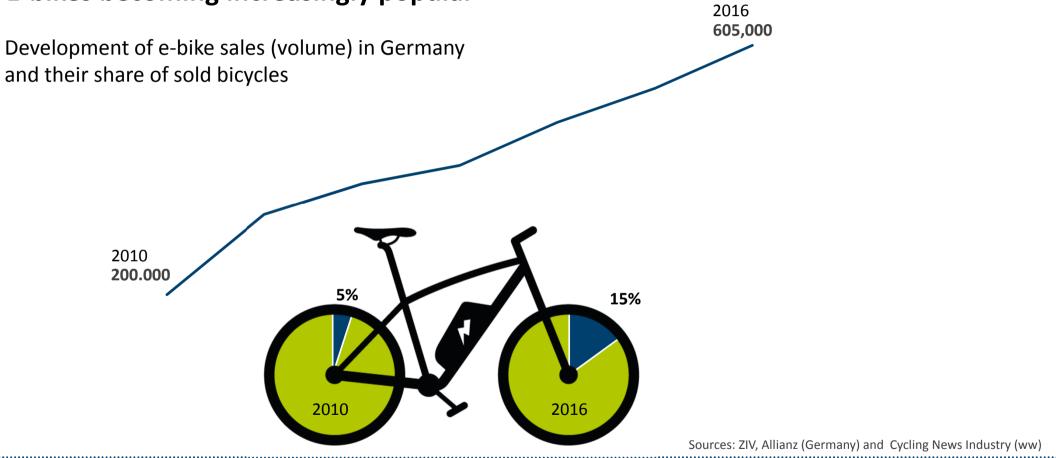
AMPRIO New Business:







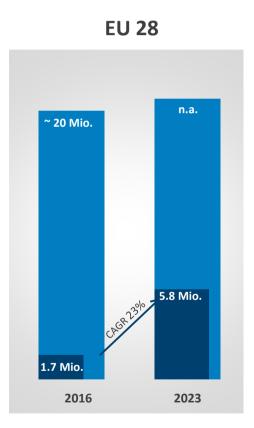
AMPRIO E-bikes becoming increasingly popular



Sources: ZIV, Allianz (Germany) and Cycling News Industry (ww)



AMPRIO Market Potential of Bicycles and Pedelecs (units)



Update 10/2017, Sources: ZIV, Allianz (Germany) and Cycling News Industry (ww)



Summary

Markets and Customers:

Markets in better shape than anticipated, global LV production will grow by >2% Our global production and technology footprint will follow local needs Rheinmetall Automotive intends to outperform markets in future, too

Performance and Products:

Sales growth at Mechatronics will follow the high demand for fuel-optimization products Hardparts will continue to optimize its global footprint, with the focus on generating cash Aftermarket: back on track with a new strategy, now set to return to former profitability

New Mobility Concepts:

Trend to more efficiency and emission reduction promises higher content per car Electrification brings additional business and sales growth Product pipelines are still filled with innovations for every type of power trains

Not too early ...

Not too late ...

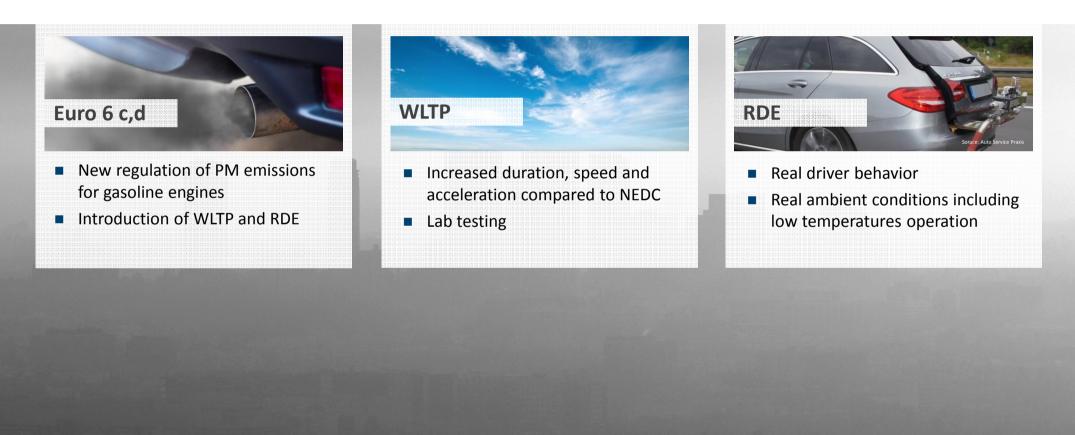


EMISSIONS&EFFICIENCY

Capital Markets Day 2017 Heinrich Dismon, CTO Automotive



Stricter Emission and Fuel Consumption Standards **Emissions and Efficiency**





Stricter Emission and Fuel Consumption Standards **Emissions and Efficiency**

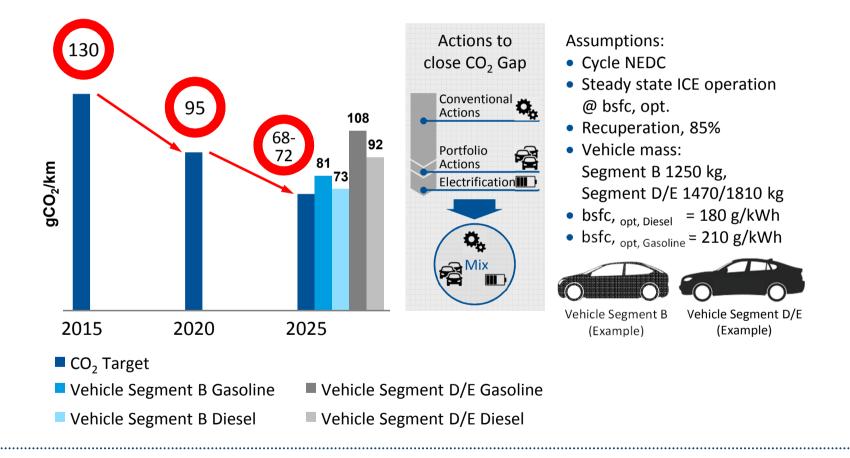


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PM: Particulate Matter, WLTP: Worldwide harmonized light vehicles test, RDE: Real Driving Emissions, NEDC: New European Drive Cycle 27



A Simulation Approach based on CO₂ Emission Legislation (EU) The ICE – Challenges & Potentials to Close the CO₂ Gap



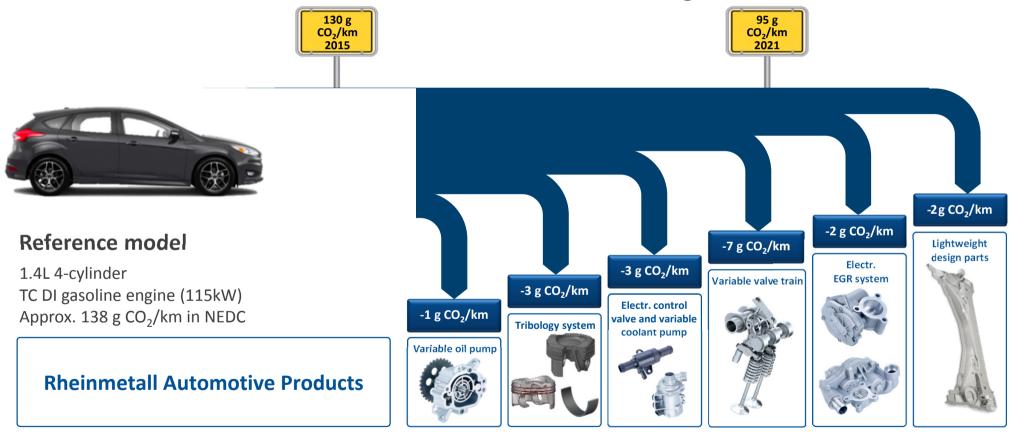
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bsfc: Brake Specific Fuel Consumption



Efficiency

CO2 Reduction with Automotive Products – Gasoline Engine Vehicle





Efficiency Variable Valve Train – UpValve

Function and Application

- Fully variable mechatronic valve system (CVVL)
- Applicable to engine intake and exhaust especially for future-oriented gasoline engines
- Robust to high engine speeds
- Fuel savings by de-throttling and combustion process optimization of approx. 4-5% (NEDC)





Efficiency Variable Valve Train – UpValve





Efficiency Lightweight Design Parts – Valuable for all Vehicle and Powertrain Concepts

Rear Axle Subframe

LP Process

Function and Application

- Structural parts and chassis assemblies for conventional and new vehicle concepts (passenger cars)
- Components for new energy vehicles (NEV)
- Aluminum processing with various casting techniques
- Ready-to-use, including machining and finish





Efficiency Lightweight Design Parts – Valuable for all Vehicle and Powertrain Concepts

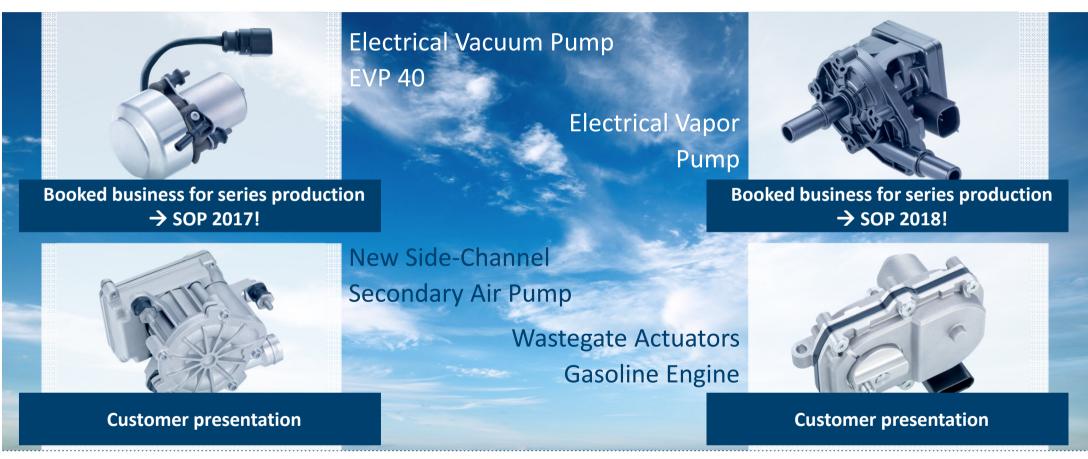
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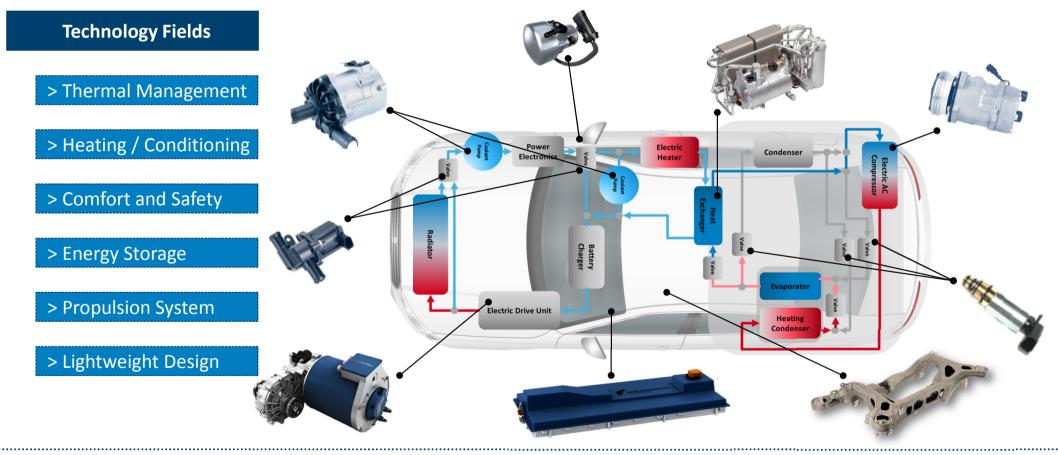
Emissions and Efficiency Additional New Products at a Glance



E-MOBILITY



Electrification Opportunities for all Types of Electrification (Hybrid – BEV – FCEV)





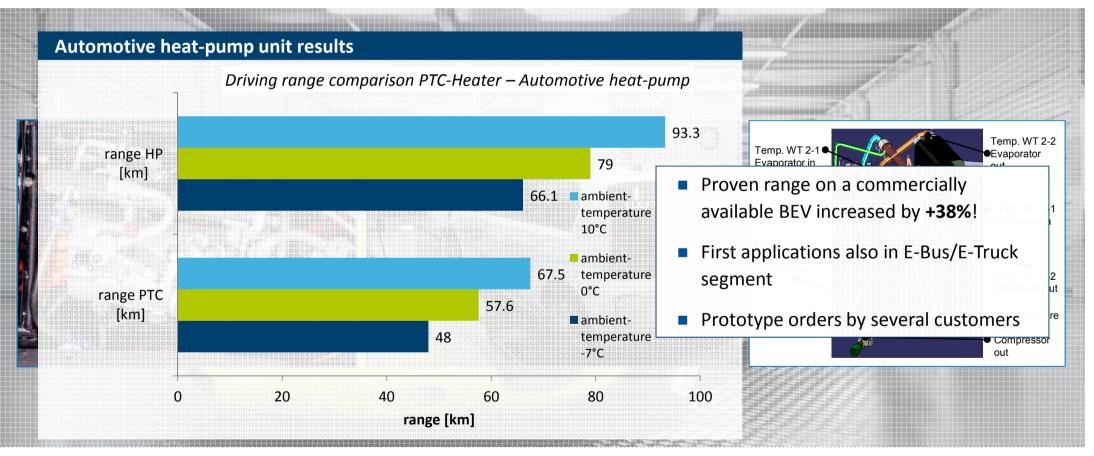
Example: Automotive Heat-Pump Installed in EVEX 910e Energy Efficiency



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Automotive Heat-Pump Energy Efficiency





E-Mobility @ Rheinmetall Automotive





E-Mobility @ Rheinmetall Automotive



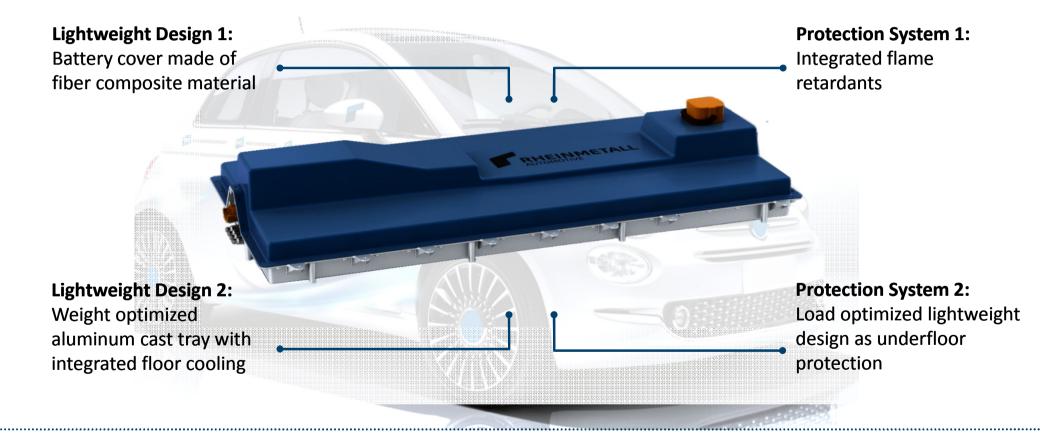


E-Traction Motor



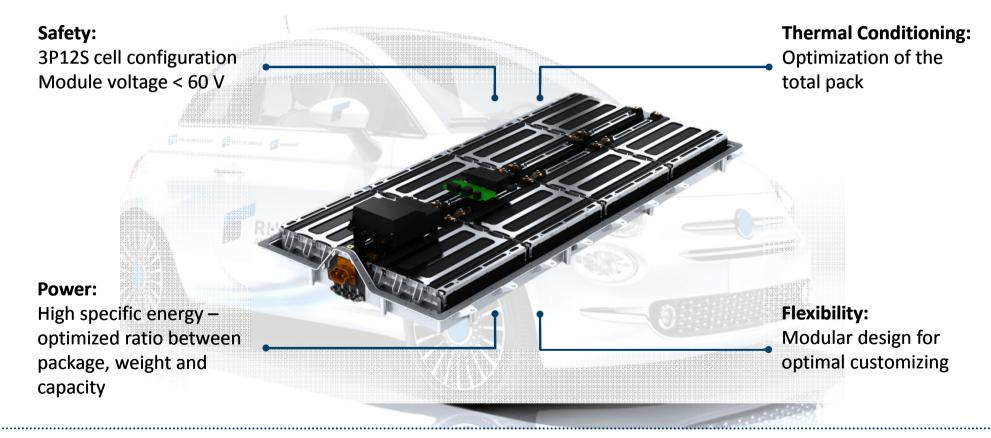


Battery Pack





Battery Pack



NEWBUSINESS

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MOBILITY. SECURITY. PASSION.

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