



Bankhaus Lampe Deutschlandkonferenz 20 April 2018



### Aumann at a glance

#### **Right business**

Fully automated E-drivetrain production lines ...



...based on modular machines and exclusive motor winding technologies...



..leveraging know-how from special machinery of Aumann's Classic segment



### **Right capabilities**

- 80 years of winding experience
- 30 years partner of automotive OEMs
- ~ 1,100<sup>1)</sup> highly skilled professionals
- 6 locations in Germany, China and USA
- ~ 45,000 sqm of shop floor

#### Select customers



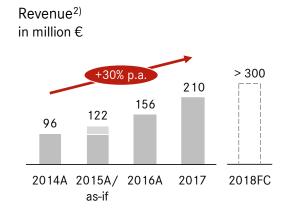
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thyssenkrupp

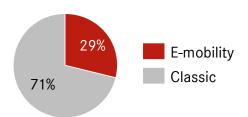
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# Strong growth



Segments As of 31 December 2017







Strong growth due to E-mobility revolution in the automotive industry



Exclusive winding technologies in combination with deep automation know-how



Decades of automotive experience and trusted relationships with OEMs



Profitable and asset-light growth with good visibility



Clear expansion strategy with possibility of add-on acquisitions

# oaumann

# An E-mobility revolution is underway

Three factors put electric vehicles on the road Electric vehicles\* Global production in million vehicles per year Technology push CAGR +29% 100 13 Consumer pull 2 Regulatory push

2015

2025<sup>e</sup>

2020<sup>e</sup>

32



### E-mobility has gained further traction

#### Additional momentum from OEMs



All car models to be electric or hybrid from 2019 *July 2017* 



**80 electric models** by 2025 and **€34 billion** Capex *September 2017 / November 2017* 



**All car models** electrified by 2022 *September 2017* 



**25 electrified** and **12 all-electric models** by 2025 *September 2017* 



**All car models** electrified from 2020 *September 2017* 



At least **20 all-electric models** by 2023 *October 2017* 

### Additional regulatory pressure



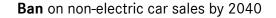
#### Quotas for electric cars from 2019/2020

All automakers producing or importing more than 30,000 cars in China affected

New Electric Vehicles (NEVs) comprising all-electric, plug-in hybrid, hydrogen-powered

10% minimum from 2019 12% minimum from 2020







Ban on non-electric car sales by 2040



Proposal to further **cut** maximum **CO2 emissions by 30%** from 2021 to 2030



To speed up growth in the E-mobility segment, Aumann acquired automation specialist USK

Acquisition of USK on 18 October 2017





USK is a perfect strategic fit for Aumann

#### Engineering and delivery capacity

€70m revenues

> 370 skilled employees\*

#### **Automotive experience**

Long-term relationships with OEMs/Tier-1s Focus on automated production lines



#### **Technological capabilities**

Build-to-print expertise for scaling

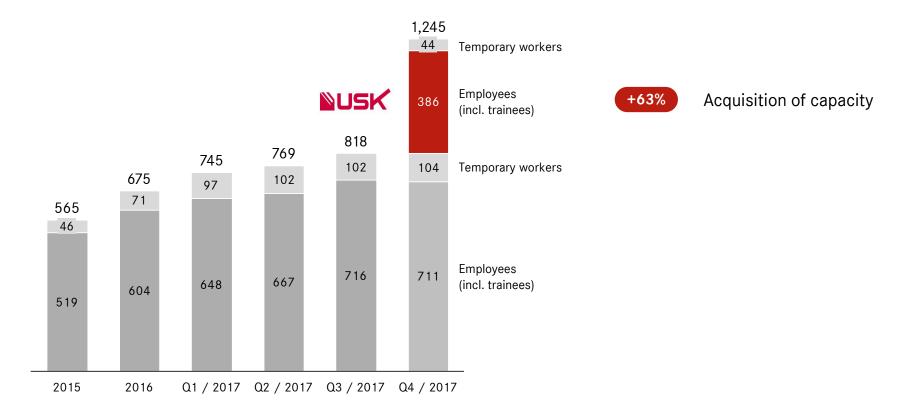






USK drastically increases engineering and delivery capacity of Aumann

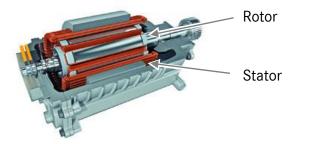
Organic and anorganic capacity ramp up 2017 Headcount





# Aumann automates the production of electric drivetrains with focus on the electric motor

Electric motor



Winding of stator and/or rotor

Energy storage / conversion



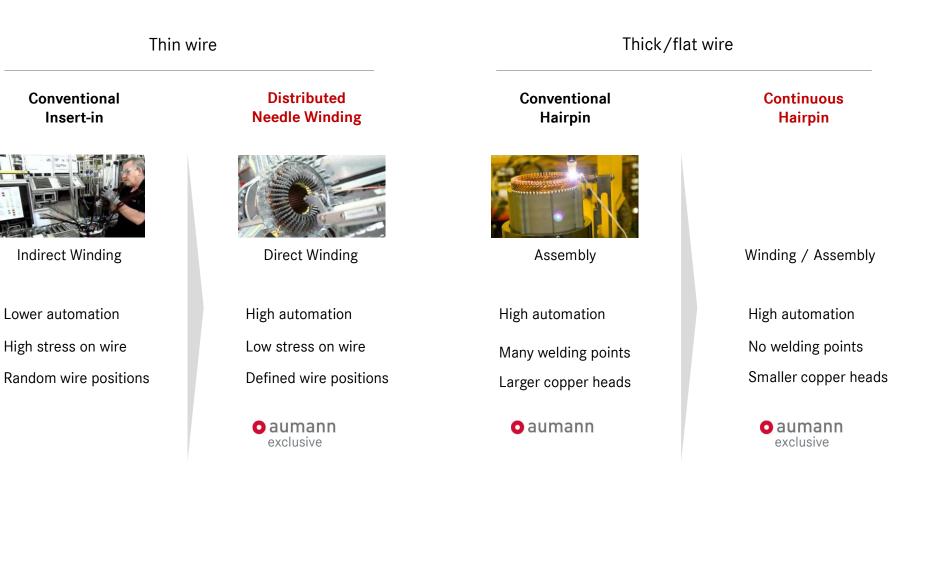
Assembly of modules, packs, fuel cells

Electric drivetrain



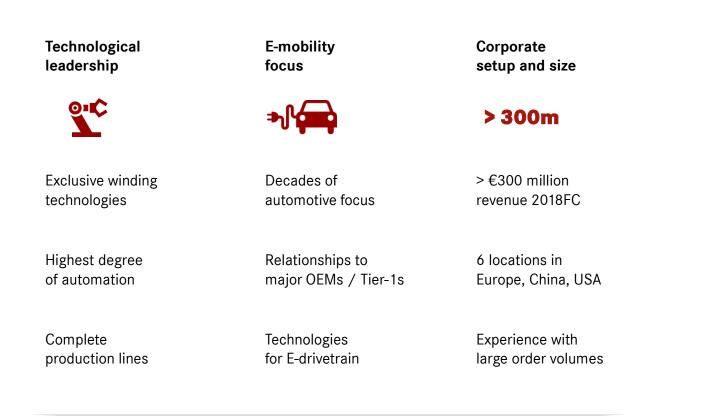


### Aumann offers highly automated production technologies for traction motors





### Aumann has a unique combination of capabilities, industry experience and corporate setup



Global leadership in highly automated production lines for E-mobility

oaumann



# Close partnerships with blue chip customers enable Aumann's E-mobility growth

Classic segment customers

Longstanding customer relationships...

Indicative cumulative orders last 25 years







>€460m

Relationship since 1990

> € 250m Relationship since 1999



thyssenkrupp





€ 75-100m				
Relationship since 1985				

...leading to an accelerated E-mobility business



...based on experience in ICE drivetrain, automation and winding for non-automotive customers

Automotive	Consumer electrics	Other industries
	Míele Wilo vorwerk	<b>BDEING</b>
	Haier KALDEWEI	SIEMENS EPCOS

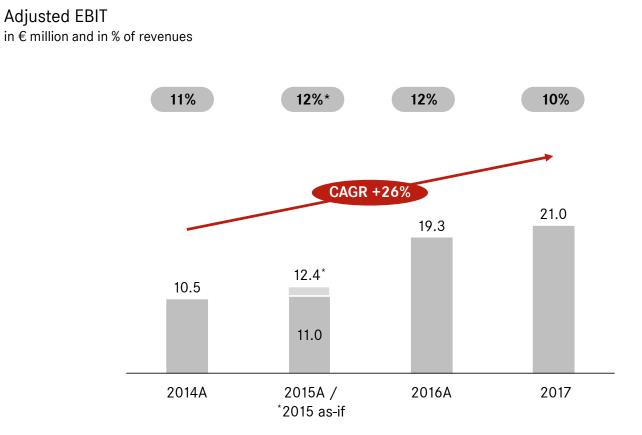


# In 2017, both revenues and order intake grew significantly



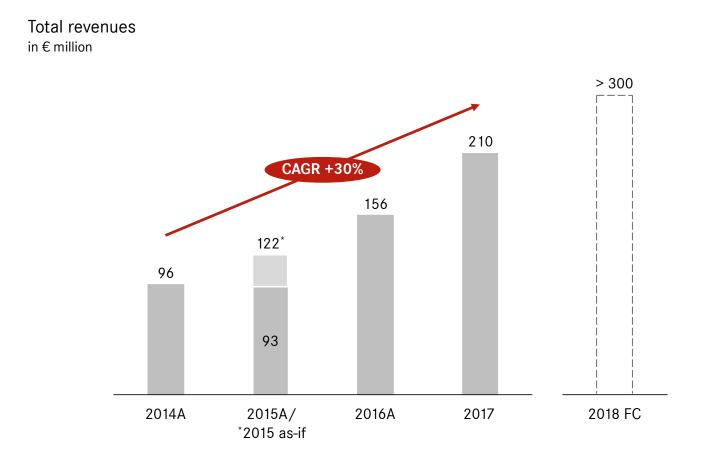


Due to capacity bottlenecks, profitability slightly declined in the second half of 2017





Growth is our priority for 2018 with an expected growth rate of more than 40%





# We have made significant progress on strategic roadmap to market leadership

	Ramp-up capacity	<ul> <li>Grow skilled work force</li> <li>Expand shop floor</li> <li>IT hardware, licenses and projects</li> </ul>	+ 78% ✓ +13,000 m² ✓ Ongoing		
	Expand globally	<ul> <li>Expand facility in China</li> <li>Build up of USA/NAFTA activities</li> <li>Further regional growth</li> </ul>	Ongoing Ongoing New customers ✓	رۍ <del>ب</del> ې	Acquisition of
	Increase service share	<ul> <li>Build up new R&amp;D centres</li> <li>Expand scope of R&amp;D centres</li> <li>Build up service hubs</li> </ul>	Ongoing <b>New modules ✓</b> Ongoing	Strategic M&A	USK ✓ Ongoing
₿ ¢	Maintain technological leadership	<ul> <li>Increase R&amp;D activity</li> <li>Develop new winding technologies</li> <li>Additional E-mobility technologies</li> </ul>	Yes ✓ Ongoing Fuel cell ✓		



No matter who will prevail in the E-mobility

revolution, they will need Aumann's machines

for electric drivetrain manufacturing

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