

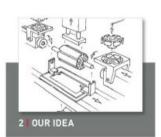


HAIB Stockpicker Summit | May 2019



# Automated manufacturing equipment for various applications















## Aumann at a glance

#### **Right business**

Fully automated E-mobility 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

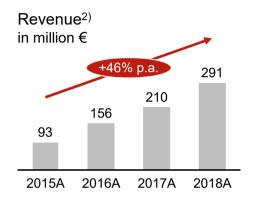
30 years partner of automotive OEMs

c. 1,3501) highly skilled professionals

6 locations in Germany, China and USA

c. 45,000 sqm of shop floor

### Strong growth



#### Selected customers

















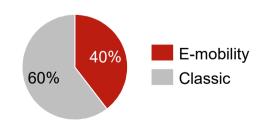








#### Segment revenues as of 31 March 2019





## Selected highlights Q1 2019



Highest first quarter revenues ever despite challenging market environment



Satisfactory double-digit group EBIT margin



E-mobility EBIT share above 50%



Promising order pipeline contrasted by hesitant Q1 order placement

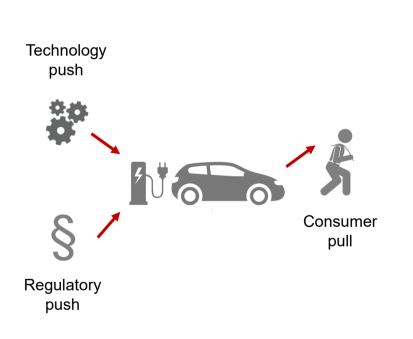


Growing interest in fuel cell technology from automotive OEMs and Tier-1s

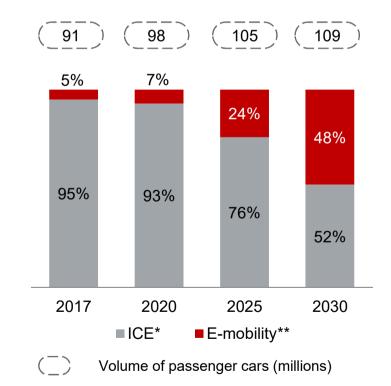


## Technological parity expected to be reached by 2030

## Three factors put electric vehicles on the road



## Expected global car sales by fuel source





## Aumann automates the manufacturing of E-mobility production

#### Electric motor/traction module



Winding of stator and/or rotor

## Energy storage/conversion

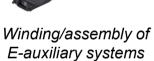


Assembly of modules, packs, fuel cells

#### Electrification

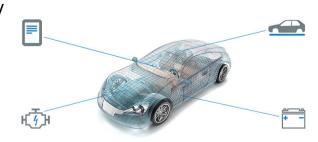






## E-mobility







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

Technological
leadership
-
0.1

\_\_

Exclusive winding technologies

Highest degree of automation

Complete production lines

E-mobility focus



Decades of automotive focus

Relationships to major OEMs/Tier-1s

Technologies for E-drivetrain

Corporate setup and size



~ €300 million revenue

6 locations in Europe, China, USA

Experience with large order volumes

Global leadership in highly automated production lines for E-mobility





### USK as integral part of Aumann right from the start

2017



#### **Engineering & delivering capacities**

€70 million turnover

> 370 employees



#### **Automotive experience**

OEMs/Tier-1s

Automator



#### **Technology**

Build-to-print competence

Sensors and fuel cells



2018



#### Capacity balancing between sites

First orders shifted to USK in 2017

Partial retargeting of sales engineers

#### E-mobility growth at USK

Increase of E-mobility projects

#### **New technologies**

High interest in production of USK fuel cell assembly technology

2019



#### Finalization of integration

Step-wise integration of processes and IT

#### "One Aumann" strategy

Full rebranding to "Aumann"

Finalization of integration processes

#### **Further expansion**

Expansion plans for assembly hall



7



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

Longstanding customer relationships...

Indicative cumulative orders last 25 years





















...leading to an accelerated E-mobility business







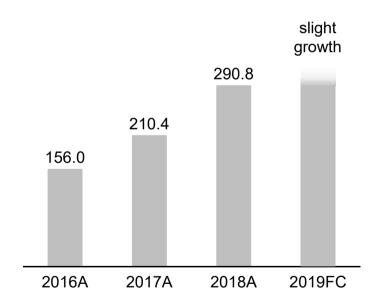


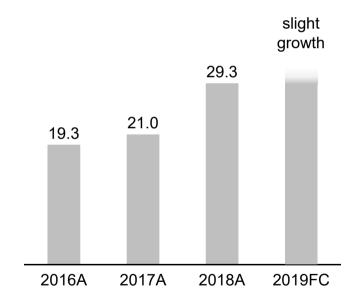


# Revenues and EBIT are expected to grow slightly in 2019

Total revenues in € million

EBIT (adj.) in € million





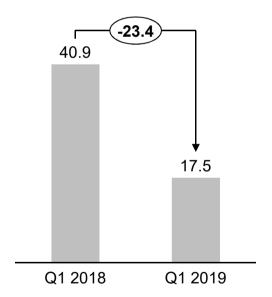


# Hesitant order placement in Classic leading to weak total order intake

Total order intake in € million

31.5 41.8 24.3 40.9 17.5 Q1 2018 Q1 2019

Classic order intake in € million



E-mobility Classic

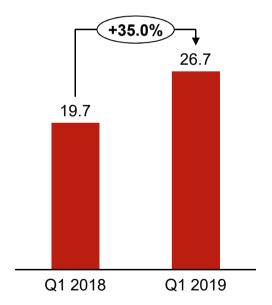


# Solid group revenue growth with E-mobility as main driver

Total revenues in € million

+6.6% 67.4 19.7 26.7 43.5 40.7

E-mobility revenues in € million



E-mobility Classic



## Double-digit operating margins

Total EBIT (adj.)
in € million and in % of revenues

11.9%

10.2%

7.5

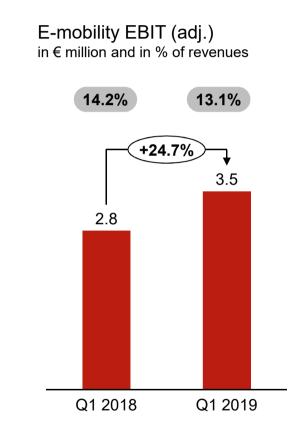
6.8

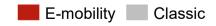
2.8

3.5

4.7

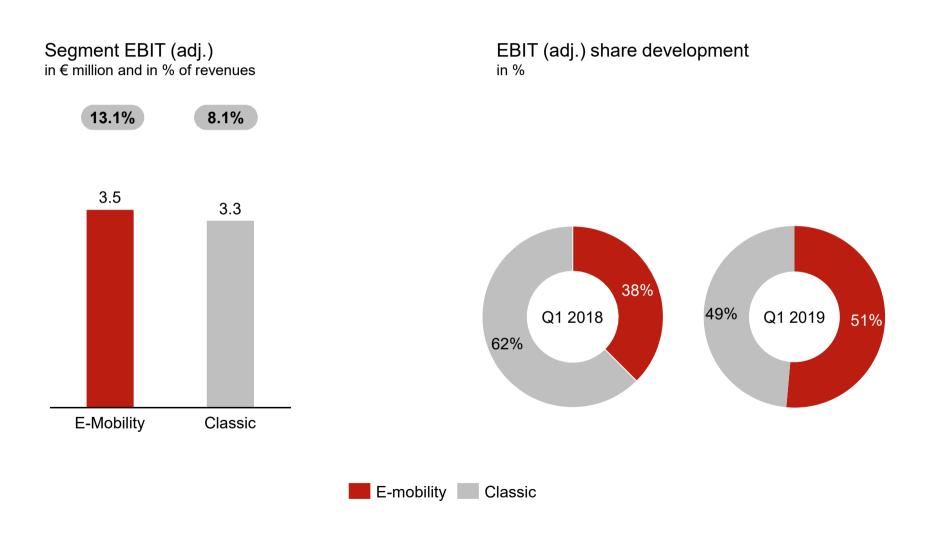
3.3







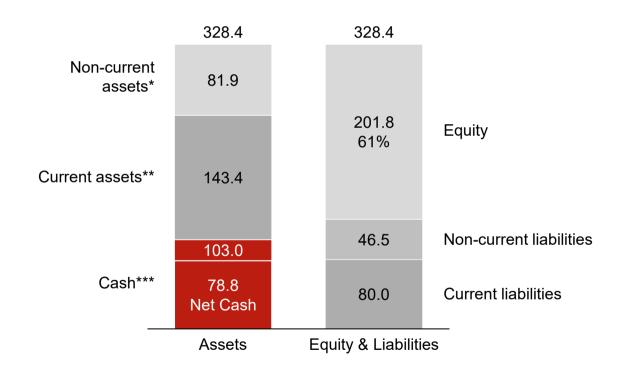
## E-mobility share above 50% for the first time in Q1 2019





## A strong balance sheet allows further investments into Aumann's growth

# Balance sheet 31 March 2019 in € million





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



# Ramp-up capacity

- Stabilising for further strong growth
- Grow and integrate skilled work force
- Expand shop floor, IT hardware, licenses and projects



# **Expand** globally

- Managing political, economic and automotive specific uncertainty
- Build up of NAFTA activities
- New Asian customers



Increase service share

- Implementation of group service concept
- Expansion of service levels and offerings
- Increase of worldwide service partnerships



Maintain technological leadership

- Scaling production concepts
- Develop new winding technologies
- Additional E-mobility technologies





No matter who will prevail in the E-mobility revolution, they will need Aumann's machines for electric mobility manufacturing

www.aumann.com



## Financial calendar

Interim Report Q1 2019	15.05.2019
Annual General Meeting	06.06.2019
Half-year Report 2019	15.08.2019
Interim Report Q3 2019	14.11.2019



## Conferences

HAIB Stockpicker Summit (Madrid, Spain)	16 May 2019
Berenberg US Conference (Tarrytown, USA)	21 May 2019
Commerzbank Sector Conference (Frankfurt, Germany)	28 August 2019
Berenberg/Goldman Sachs Conference (Munich, Germany)	23 September 2019
German Equity Forum (Frankfurt, Germany)	25 November 2019
Berenberg European Conference (Pennyhill, UK)	02 December 2019



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# Appendix



## Aumann offers highly automated production technologies for traction motors

#### Thin wire

# Distributed

# Conventional Hairpin

Thick/flat wire

#### Continuous Hairpin





Indirect winding

Lower automation

High stress on wire

Random wire positions



**Needle Winding** 

Direct winding

High automation

Low stress on wire

Defined wire positions





Assembly

High automation

Many welding points

Larger copper heads

aumann



Winding / Assembly

High automation

No welding points

Smaller copper heads

• aumann exclusive

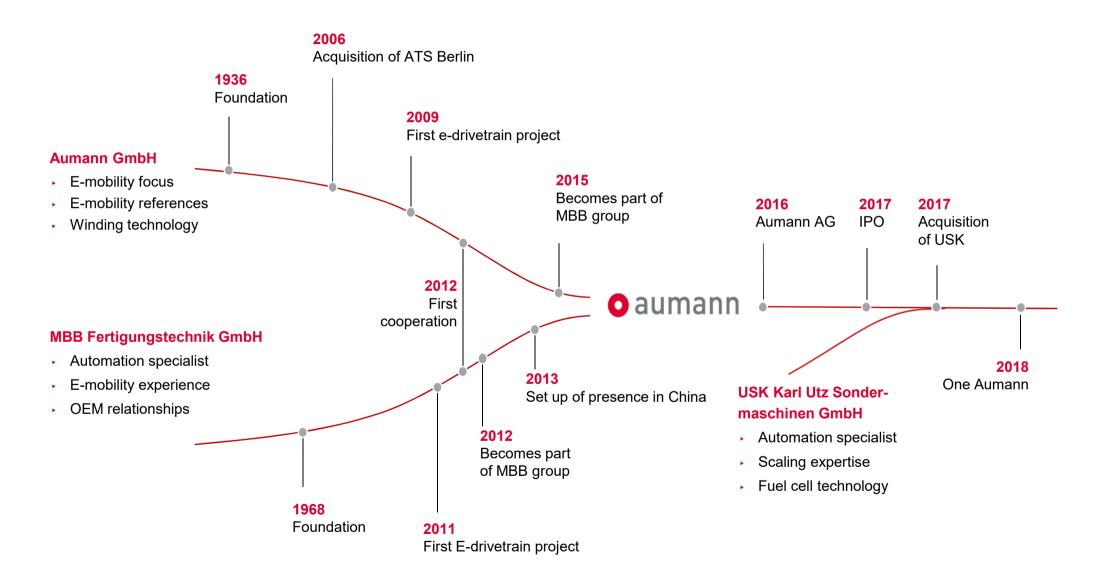


# Aumann – serving the automobile trends of tomorrow

Autonomous driving	E-on-demand	Safety	Comfort
	<b>∌</b> √		
E-steering system	E-water pump	E-brake assistant	E-seat adjustment
Parking/wheel sensor	E-immobilizer	E-AB system	E-aircondition
Radar sensor	E-turbo	E-seat belt	E-suspension

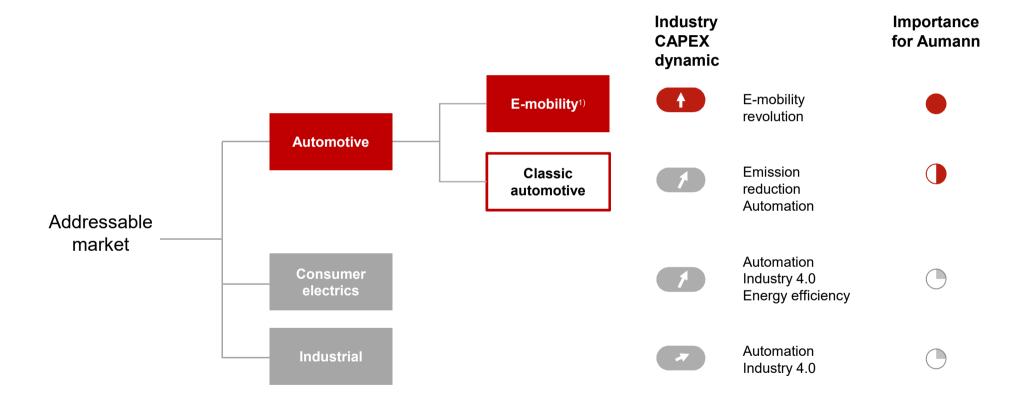


#### The historical roots of Aumann





## Key markets and growth dynamics





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