



Aumann AG

A global leader in modular machines for E-mobility



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

- ~ 1,2001) highly skilled professionals
- 6 locations in Germany, China and USA
- ~ 45,000 sqm of shop floor

Select customers

















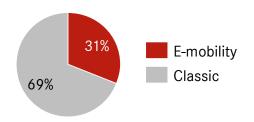


Strong growth

Revenue²⁾ in million €



Segments
As of 31 March 2018





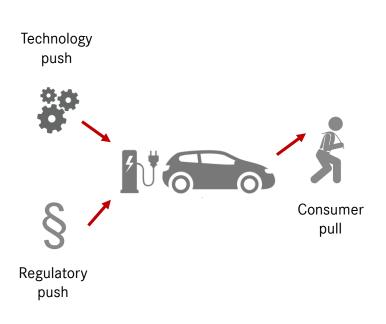


- Strong growth due to E-mobility revolution in the automotive industry
- 2 Exclusive winding technologies in combination with deep automation know-how
- 3 Decades of automotive experience and trusted relationships with OEMs
- 4 Profitable and asset-light growth with good visibility
- Clear **expansion strategy** with possibility of add-on acquisitions

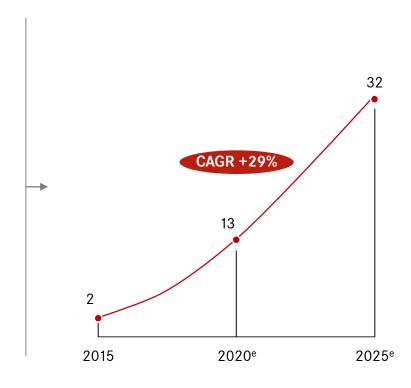


An E-mobility revolution is underway

Three factors put electric vehicles on the road



Electric vehicles*
Global production in million vehicles per year





E-mobility has gained further traction resulting in strong demand for Aumann solutions

Strong momentum from OEMs



25 electrified and 12 all-electric models by 2025



All car models to be electric or hybrid from 2019



All car models electrified by 2022



80 electric models by 2025 and €34 billion Capex



24 electrified and 16 all-electric models by 2020



8 plug-in or all-electric models by 2022



At least 20 all-electric models by 2023

Typical design and order process for Aumann

OEM develops product design



Joint optimisation of product design and automation process in Aumann's R&D center



Customer places order

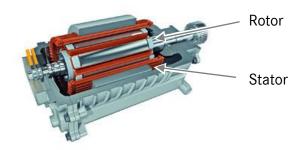


Start of production (SOP)



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

Thin wire

Thick/flat wire

Conventional Insert-in



Indirect Winding

Lower automation

High stress on wire

Random wire positions

Distributed Needle Winding



Direct Winding

High automation

Low stress on wire

Defined wire positions



Conventional Hairpin



Assembly

High automation

Many welding points

Larger copper heads



Continuous Hairpin



Winding / Assembly

High automation

No welding points

Smaller copper heads

• aumann exclusive



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

Technological leadership	E-mobility focus	Corporate setup and size
	→الح	> 300m
Exclusive winding technologies	Decades of automotive focus	> €300 million revenue 2018FC
Highest degree of automation	Relationships to major OEMs / Tier-1s	6 locations in Europe, China, USA
Complete production lines	Technologies for E-drivetrain	Experience with large order volumes

Global leadership in highly automated production lines for E-mobility





The acquisition of USK in Q4 2017 has further improved Aumann's position

Why Aumann acquired USK in Q4 2017

Where Aumann and USK stand in Q1 2018





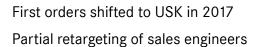
Automotive experience



Technological capabilities



Capacity balancing between sites



E-mobility growth at USK

First traction motor order at USK in Q1 High interest in USK fuel cell technology

Ongoing integration and expansion

Step-wise integration of processes and IT New plans for expansion at USK site



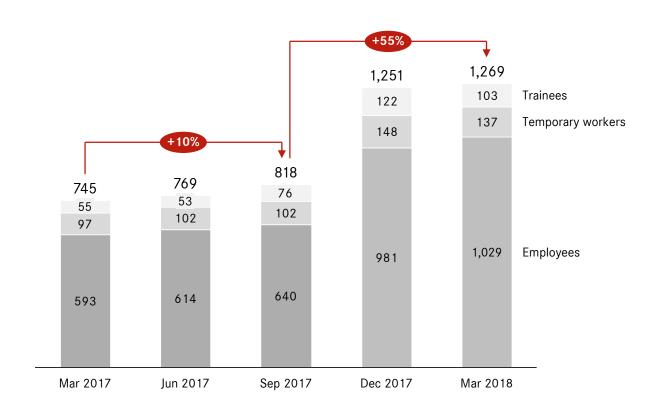






USK drastically increased Aumann's engineering and delivery capacity

Organic and anorganic capacity ramp Headcount





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

Longstanding customer relationships...

Indicative cumulative orders last 25 years



> € 460m Relationship since 1990



> € 400m Relationship since 1990



> € 250m Relationship since 1999



€ 200-250m Relationship since 1986



€ 75-100m Relationship since 1985 ...leading to an accelerated E-mobility business







BorgWarner

Automotive







Consumer electrics

Miele

wilo VORWERK

Haier







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



MAHLE

Classic segment customers















Other industries









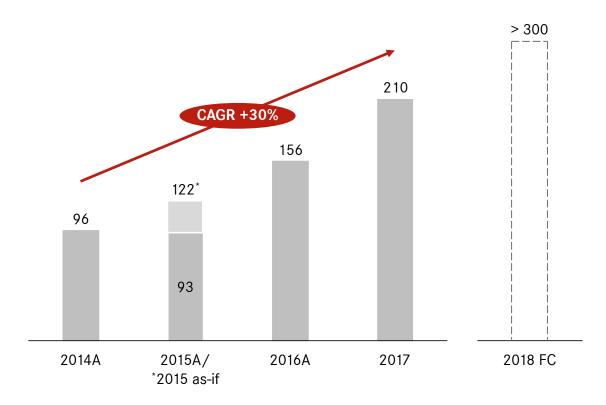






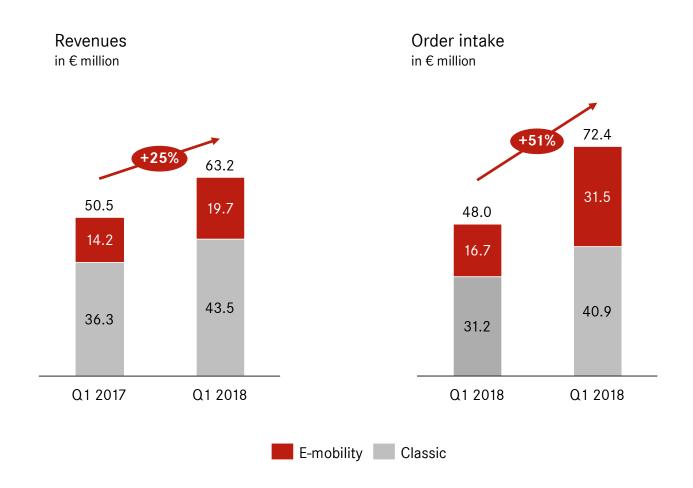
Growth is our priority for 2018 and we aim at revenues of more than €300 million

Total revenues in € million





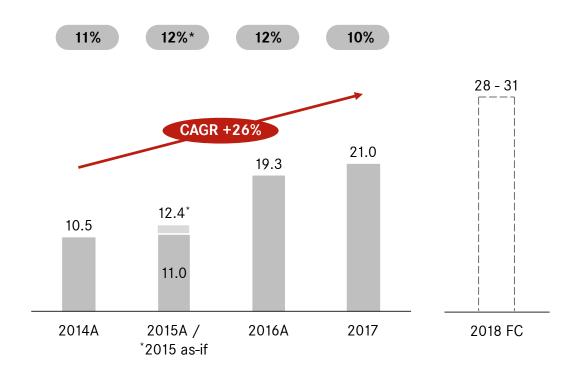
In the first quarter 2018, Aumann grew both revenues and order intake significantly





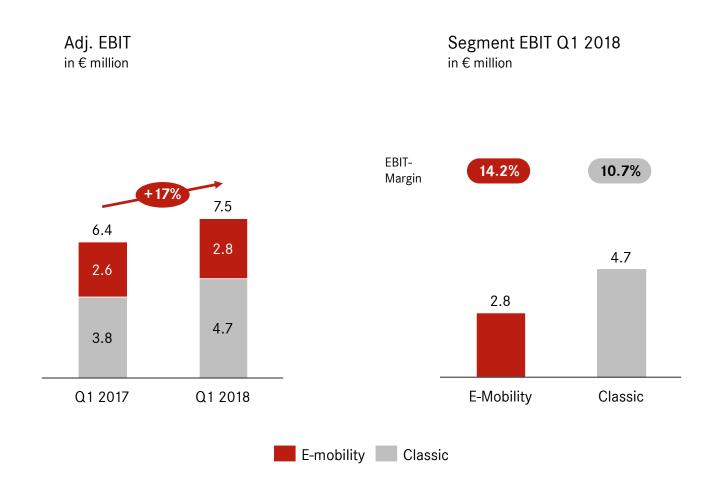
Due to capacity bottlenecks, EBIT margin was lower in the second half of 2017

Adjusted EBIT in € million and in % of revenues





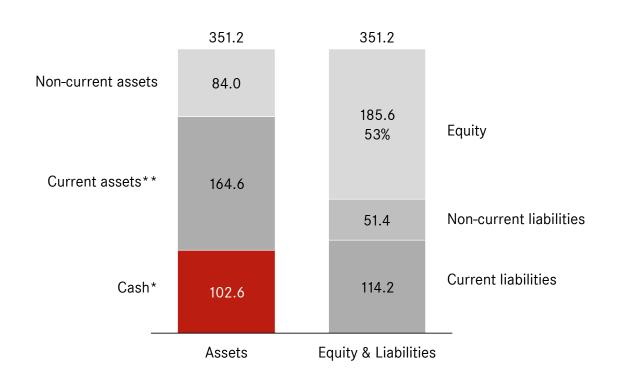
In the first quarter 2018, profitability has clearly recovered as de-bottlenecking progresses





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

Balance sheet 31 March 2018 in € million



** without cash

^{*} Liquidity & securities



We have made significant progress on strategic roadmap to market leadership



Ramp-up capacity

Grow skilled work force

► IT hardware, licenses and projects

Build up of USA/NAFTA activities

+ 78% ✓

+13,000 m² ✓ Expand shop floor

Ongoing

Expand globally Expand facility in China

Further regional growth

Ongoing

Ongoing

Strategic

M&A

New customers ✓



Increase service share

► Build up new R&D centres

Build up service hubs

Expand scope of R&D centres

Ongoing

New modules ✓

Ongoing



Ongoing

Maintain technological

leadership

Increase R&D activity

Ongoing

Develop new winding technologies

Yes ✓

Additional E-mobility technologies

Fuel cell ✓





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



Financial Calendar

End of fiscal year	31 December 2018
Berenberg European Conference (Pennyhill, UK)	4 December 2018
Deutsches Eigenkapitalforum (Frankfurt, Germany)	26 November 2018
Quarterly Report Q3/2018	16 November 2018
Berenberg/GS Corporate Conference (Munich, Germany)	25 September 2018
Half-Year Financial Report 2018	16 August 2018
Berenberg USA Conference (Tarrytown, NY, USA)	23 May 2018
Hauck & Aufhäuser Stock Picker Summit (St. Tropez, France)	17 May 2018
Commerzbank Conference (NYC and Boston, USA)	16 May 2018



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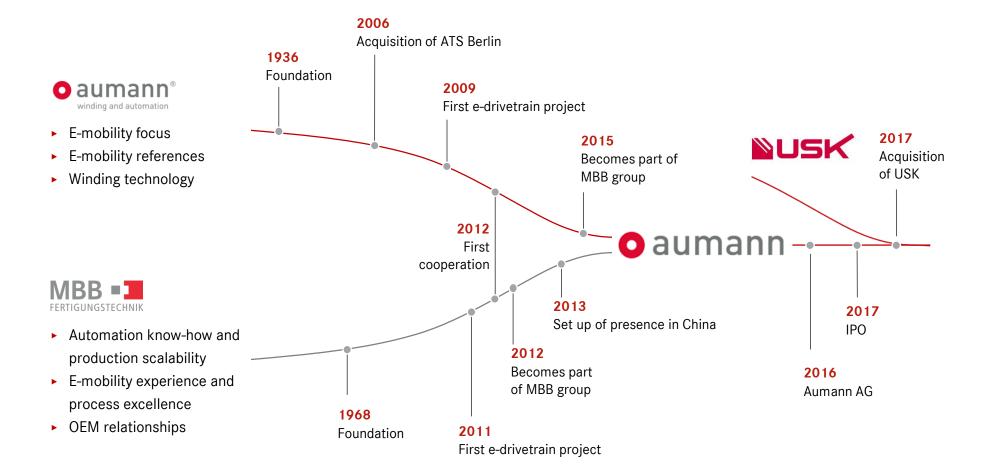
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Appendix

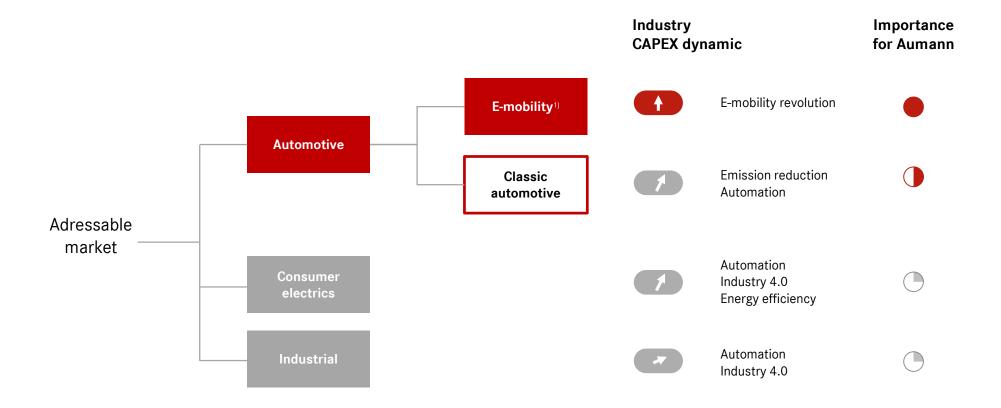


The historical roots of Aumann





Key markets and growth dynamics





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