



Company presentation, 27 February 2017



Highly experienced management team with decades of industry experience



Rolf Beckhoff

Chief Executive Officer Sales and Administration 13 years at Aumann

Engineering and

management degree

Ludger Martinschledde
Chief Executive Officer
Operations and R&D
25 years at Aumann
Engineering degree





Sebastian Roll Chief Financial Officer Finance and Controlling 17 years at Aumann Business administration degree

Constantin Mang

Executive Vice President Strategy and Business Development 2 years at Aumann Business and law degree



An e-mobility revolution is underway

Global production of electric vehicles ("EVs")¹⁾ in million vehicles



Recent quotes

Goldman Sachs

METZLER

THE WALL STREET JOURNA WS.

S&P Global

Ratings

KPING

Global Automotive Executive Survey

Capital Marke



The countdown for disruption has already started



Aumann's focus is at the heart of e-mobility





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Aumann at a glance

Right business

Fully automated e-drivetrain production lines ...



...based on modular machines and unique motor winding technology...



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



Right capabilities

- 80 years of winding experience **30** years partner of automotive OEMs
- 675¹⁾ highly skilled professionals
- 5 locations in Germany, China and USA
- 32,000 sqm of shop floor

Select customers











Strong growth







Source: Company information based on IHS data,





Strongly growing with e-mobility revolution benefitting very early on



Unique winding technology leading to highly efficient e-motors enabling OEMs to scale up to automated mass production



Longstanding relationship with automotive OEMs and track record of jointly developing landmark e-drivetrain platforms



Growth model with high visibility supported by expanding margins and strong cash flow generation



Expansion strategy driven by highly experienced and successful management



The e-mobility revolution is driven by strong forces

Technology Push

- Cost decrease
- ► EV range increase
- Charging infrastructure densification

Daimler will spend € 10bn on EV development



Regulation Push

- Emission reduction
- Tax benefits and incentives

Chinese legislation strengthens e-mobility with required share of EV's starting 2018

Consumer Pull

- Coolness factor
- Smart cars (autonomous driving)
- Environmental sustainability

Tesla received around 400k paid reservations for model 3



Aumann's machines will be needed by all contestants of the e-mobility revolution





The manufacturing process is core to the e-mobility revolution with machinery investments two years ahead of the production of EVs

The importance of machinery



Elon Musk, EV pioneer

"Where the greatest potential is - is building the machines that make the machine."

"[...] they will ultimately deserve an order of magnitude more attention in engineering than what they produce." Machinery orders two years ahead

EV concept development





Aumann's core markets and customers expected to grow significantly faster than the overall EV market

Aumann's core regions growing faster Production of EVs by regions (in million units) Aumann's core customers gaining EV market share E-drivetrain production of selected OEMs/Tier-1s (in million units)





The number of traction motors and the number of sensors/actuators per car is expected to increase

Increasing number of traction motors per car in million units

Increasing number of sensors and actuators per car



Aumann direct winding technology improves e-motor performance, weight and quality







More efficient heat dissipation



"Our technology increases the performance per kilo of motor weight"

o aumann Direct winding technology

Conventional Indirect winding technology





Direct winding technology is critical to enable fully automated mass production



Conventional Indirect winding technology



Source: Company information, Youtube video "Volkswagen e-Up Electric Motor Production"; https://www.youtube.com/watch?v=QgqtT85tMBA; Min 02.53 Comparison of processes relates to comparable motors



Aumann enabling transformation to industrial scale production





Unique winding technology and longstanding automation experience leading to strong competitive advantage and positioning

Competitive landscape (schematic)



Source: Company information

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Aumann R&D centre ensures early customer lock-in



Joint optimisation with customers on end-product and automated production set-up

3 CUSTOMERS



Longstanding customer relationships...

Indicative cumulative orders last 25 years



...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
Classic segment customers		Miele Wilo vorwerk Haier Kaldewei	C BOEING C AIRBUS SIEMENS Valeo SENVION EPCOS



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3 CUSTOMERS (E-MOBILITY SEGMENT)

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Case study major German OEM: automated e-drivetrain production

E-drivetrain platform (current)



- Stator production lines
- Hybrid module production lines
- Fully automated process





- ► Joint R&D with OEM
- Patented new winding technology
- Stator production lines

E-drivetrain platforms (future)

Pure EV drivetrain platform

Next generation of plug-in hybrid drivetrain platform

Mild hybrid drivetrain platform

— Total volume of orders: approx. € 40m over 3 years ————





Aumann as valued R&D partner providing winding and automation for mass production of e-drivetrains

3 CUSTOMERS (E-MOBILITY SEGMENT)



Broad coverage of relevant landmark e-mobility projects

Rotor production lines



Early large scale EV platform in Europe Aumann patent increased efficiency Segmented stator production lines





Aumann R&D/pilot production for premium OEM Order for production line from Tier-1

E-bike motor production machines



Early large scale e-mobility application Enabled customer's market leadership Battery module assembly lines



Aumann with proven battery module experience High interest after Tesla's Grohmann acquisition



Case Study: Aumann enabled the growth of the market leader in built camshafts





Aumann as provider of innovative technology

...with joint development towards new applications

...leveraging ICE technology for e-mobility application

Acceleration in order intake and order backlog...





Source: Company information

1) Group order intake in 2015A comprises the acquired order backlog of acquired entities' as of 1 November 2015 amounting to € 25.2m, 2) Calculated as order intake/revenues; 2015 compared with 2015 as-if revenues



...drives strong revenue growth and increasing profitability





Asset light business model with strong cash conversion





E-Mobility with superior margins already accounting for 27% of revenues



Accelerating order intake supports future sales growth

Sales Pipeline (selection)









E-Mobility	Hybrid e-motor stator	Automotive OEM A
	Mild hybrid motor for hybridisation of fleet	Automotive OEM A
	Battery module and cluster production	Automotive OEM B
	Pure EV e-motor rotor / stator	Automotive OEM B
	Pure EV e-motor stator	Automotive OEM C
	Hybrid gearbox manufacturing	Automotive Tier-1 A
	Battery bay for electric car	Automotive Tier-1 B
	Assembly for hybrid stator	Automotive Tier-1 C
	Hybrid e-motor stator	Automotive Tier-1 D
Classic	Automated winding production modules	Silicon Valley company
	Fully automated manufacturing of component	German household appliance manufacturer



5 EXPANSION STRATEGY

Roadmap to market leadership in modular machines for e-mobility



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No matter who will prevail in the e-mobility

revolution, they will need Aumann's machines

for electric drivetrain manufacturing

www.aumann-ag.com



Appendix



Aumann is well positioned to become e-mobility champion





Supervisory board





Gert-Maria Freimuth

Chairman of the Board

Gert-Maria Freimuth is the chairman of the board of Aumann AG. He is a **founding shareholder of MBB SE**, Aumann's majority shareholder. He studied economics and Christian social ethics at the University of Münster.

Christoph Weigler

Vice Chairman of the Board

Christoph Weigler is the Vice Chairman of the Board of Aumann AG. He is **General Manager at UBER Germany**. After his studies in Germany, China and the USA, Mr. Weigler worked for various consulting firms on projects in the automotive industry.



Klaus Seidel

Member of the Board

Klaus Seidel is Member of the Board of Aumann AG. He is **Chief Technical Officer of MBB SE** and is responsible for several MBB subsidiaries as well as the Processes and IT division. After studying business administration, he worked for Microsoft Germany until 1999.



Global capabilities and client locations





Financial overview

In € 000	2014A	2015A	2015A as-if	2016A
Total revenues	96,144	93,415	121,696	156,016
EBITDA (as reported)	10,660	11,242	12,820	20,146
EBIT (as reported)	9,743	10,190	11,461	18,448
Adjustments	780	824	901	875
EBIT (adjusted)	10,523	11,014	12,362	19,323
EBT (as reported)	9,149	9,876	10,986	17,858
Net income before minorities (as reported) ¹⁾	6,145	7,167	7,889	12,791
Order intake	83,157	141,156		190,110
Order backlog	50,238	98,098		132,192
Equity	27,655	34,182		41,437
Equity ratio	31.6%	32.3%		31.4%
Net cash	30,574	18,951		26,462



Only management fees adjusted

EBIT reconciliation 2016A in € million



- Reconciliation: Not all items of other operating income and expenses can be allocated to the segments
- Management fees to shareholder mainly for preparation of IPO



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