

HAMBURGER INVESTORENTAGE AUGUST 24, 2023

MARC BUNZ (CFO)



AGENDA



- Company Overview
- Pillars of Growth
 - Technology Embedding Update
 - Market Globalization
 - Supply Chain Enabling Resilience
 - Operations Fab-Light Concept
- Financials 1st Half Year
- Guidance 2023
- ESG



COMPANY OVERVIEW

FROM CUCKOO-CLOCK TO CHIP EMBEDDING



OVER 174 YEARS OF EXPERIENCE













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The enamel clock face factory "Christoph Schweizer" is founded on October 28. 1849

1936

Aluminium and brass name plates are added to the product range

1958

Pioneering PCB: production of printed circuit boards (PCBs) started

2010

High End PCBs are at the core of the business Broad base of

Standard and Advanced PCBs **Today**

Focus on Embedding & System Solutions in Low Voltage (GEN1)

Offering almost all PCB technologies

Tomorrow

Always a step ahead: High Voltage SIC Chip Embedding (GEN2)

MORE THAN PCBs



QUICK FACTS



~ **600** EMPLOYEES



174 YEARS OF EXPERIENCE



8400 sqm **PRODUCTION CAPACITY** PER DAY (w/ partners)



131 Mio EUR TURNOVER (2022)



5 LOCATIONS WORLDWIDE



9 PARTNER FACTORIES

OUR DNA - MORE THAN PCBs



We are a family managed, stock-listed technology company based in Schramberg in Germany's Black Forest Region. We offer Advanced Technologies, Engineering-Driven Solutions and Safe Supply based on our unique German-Asian footprint.











INDUSTRY 4.0



INNOVATIVE

Excellence in stateof-the-art technology & System Know-how with outstanding track record in Automotive and Industry for decades

RELIABLE

Supply Chain Security even if international Supply Chains are interrupted by biggest PCB fab in Europe and a unique Partner Network

GLOBAL & LOCAL

Highly experienced Global and Local Sales Teams & **Engineering Services** **TECHNOLOGY** SCOPE

From standard to highly sophisticated and original technologies

Highly automated Joint

Venture production with scalable concept in China and volume potential up to 8,400 sam/dav (w/ Partners) **COMPETITIVE**

Competitive supply due to integrated production in our own Fab. Production Joint Venture in China and Partner Network in Asia



PILLARS OF GROWTH

PILLARS OF GROWTH



TECHNOLOGY

improved

Embedding 48V High Voltage

p² Pack Gen 2: addresses BEV needs

MARKET

adjusted

Globalization Growth Segments

More Focus on Western hemisphere

SUPPLY CHAIN

increased importance

Enabling Resilience

Increasing need for Production in Europe

OPERATIONS

adjusted

Fab Light Concept

Growth at reduced CAPEX level





SUSTAINABILITY



TECHNOLOGY

MORE THAN PCBs

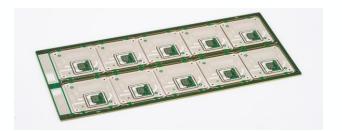


CUSTOM PCBs ARE OUR STANDARD - CHIP EMBEDDING IS OUR SPECIALTY

Custom PCBs

From **Standard PCB** to customer-specific **Advanced PCB** designs

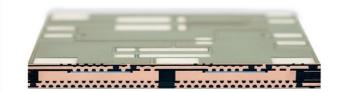
- we can meet practically any technology need and lot size
- while offering top cost-effectiveness



Chip Embedding

Our **Original Technologies** support **Power Electronic** applications in

- eMobility
- Renewable Energy
- Data Center
- Telecommunication
- demanding Industrial Applications



EMBEDDING ROADMAP



Electrification Downsizing Hybrid & E-Drive ~ 500W - 5kW ~ 3kW - 25kW ~ >25kW HV 400V - 800V OBC Hybrid E-Car AC/DC (+ DC/DC) (+ AC/DC) 48V 48/12V Crankshaft Starter Mild Hybrid (P4) Active Roll Climate DC/DC Generator (P2) Stabilize Compressor (Source: Silver Atena) E-Compressor **Battery Switch Belt Driven 12V** Power Starter Steering (+ Option 14V) Generator (P0) E-Pumps + Gearbox Fans + Heaters

48V SCHWEIZER PROJECT EXPERIENCE



DESIGN WINS & DESIGN INS 48V

VILESCO	48V P2	 P_{out}: 25 kW, 20 s P_{out}: 18 kW, permanent R_{th}: ≤ 1,2 K/W System in Board Design 	 Safe-Launch in Germany completed Product running stable in production @Next: Safe Launch in Jintan for upcoming volume rise
	48V P0	 P_{out}: 19 kW, permanent R_{th}: ≤ 1,2 K/W System in Board Design 	 Safe-Launch in Germany started Product running stable in production @Next: Safe Launch in Jintan for upcoming volume rise Volume increase in negotiation customer
	48V e-turbo	 3-Phase System 3 MOSFETs per switch Operation points with enormous current loading System in Board Design 	C-Sample built planned in 2023 PPAP & Release planned in 2024

48V SCHWEIZER PROJECT EXPERIENCE

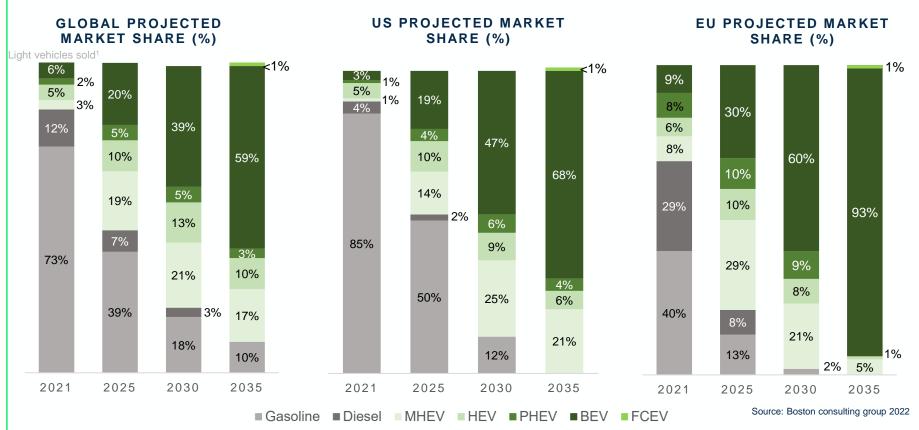


DESIGN WINS & DESIGN INS 48V



THE SHIFT TO ELECTRO MOBILITY



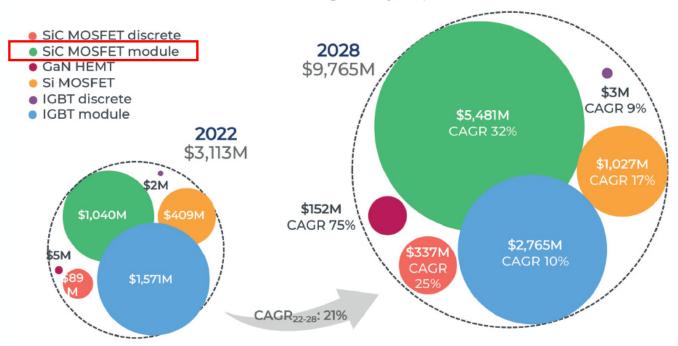


THE SHIFT TO E-MOBILITY



2022-2028 xEV power device market forecast

(Source: Power Electronics for e-Mobility 2023 – Focus on passenger & light commercial vehicles, Yole Intelligence, May 2023)

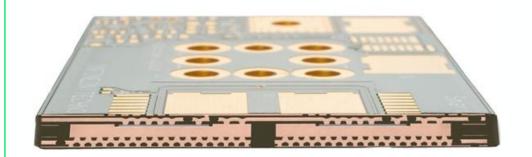


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p² PACK GEN 1/2: LOW / HIGH VOLTAGE



INSULATED VS. NON INSULATED CONSTRUCTION







Top: Non-insulated. Micro via fields penetrating the bottom insulation layer to improve thermal conductivity (e.g. 48 V applications. Insulation maintained in application with TIM)



GEN 2

Bottom: Insulated. Micro via fields only from L5 to L6. Insulation between L4 to L5.
400 V / 800 V Applications

p² PACK ROADMAP*



Gen 3: Cp² Pack 400 V / 800 V / > 800V

Pre-Development

Series Development

Mass production

Gen 2: 48 V / 400 V / 800 V

Pre-Development

Series Development

Mass production

Gen 1: 48 V

 Series Development
 Mass production

 2021
 2022
 2023
 2024
 2025
 2026
 2027
 2028

*Timeline depending on Semiconductor availability



MARKET

GLOBAL SALES NETWORK



FOCUS ON **EMEA**, **NORTH AMERICA** PLUS EAST ASIA



SCHWEIZER Sales Office: Germany, USA, China, Singapore **SCHWEIZER Sales Partners:** North America, Israel, Japan, Korea



SUPPLY CHAIN

ONE.CONTACT



PCB ENGINEERING – SAFE SUPPLY



Reliable Supply

- Prototype / Pilot / Ramp to Volume in Germany and Asia
- Combi-Production (Germany Asia)
- Back Up-Production (Germany)
- Re-Shoring (Germany)
- Product Localisation



Engineering and Commercial Support – Worldwide

- Design Consulting, Co-Development and Engineering Service
- System Cost Reduction
- Commercial and Technical Teams in Europe, Asia and USA

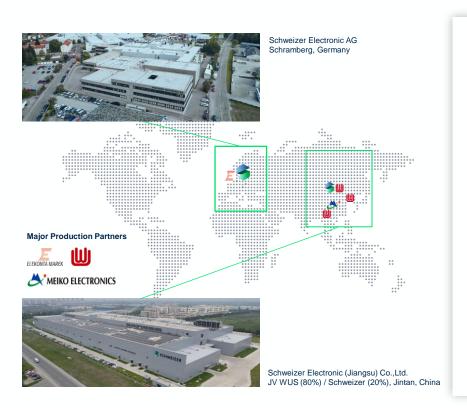


OPERATIONS

INTEGRATED PRODUCTION NETWORK



LARGEST PCB PLANT IN EUROPE – JOINT VENTURE PRODUCTION - PARTNERS



Integrated Production in Europe and Asia

- We are operating the largest PCB fab in Europe and a large Joint Venture for advanced PCBs in China
- Unique network of industry-leading, large and specialized production partners for PCB solutions for more than a decade
- Our integrated production is based on our deep engineering and production know-how

Integrated Production means for us:

We are taking whole responsibility towards our customers

- From applying original technologies, engineering and design support, via prototyping, production and quality control to on-time delivery
- In our own and our partner factories as well

PRODUCTION PARTNER NETWORK



EUROPE ASIA







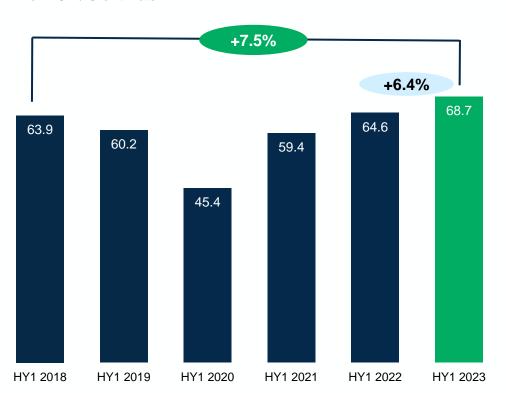
FINANCIAL UPDATE

FINANCIALS HY1 2023



Revenues

in million EUR / Growth rate

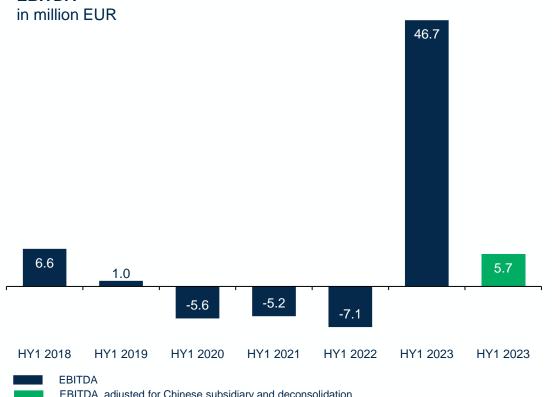


- Revenue increases by 6.4%
- Pre-crises level exceeded
- Share with non-mobility customers rises to 33%
- Mobility-revenue below pre-crisis level

FINANCIALS HY1 2023







- Includes pro rata results of the Chinese subsidiary from Jan - April 2023
- Deconsolidation effect around EUR 41 million
- Without Chinese subsidiary and deconsolidation at solid pre-crisis level

EBITDA adjusted for Chinese subsidiary and deconsolidation

FINANCIALS HY1 2023



Key Figures

in million EUR

	HY1 2023	HY1 2022
Revenues	68.7	64.6
EBITDA	46.7 / 67.9%	-7.1 / -11.0%
EBITDA adjusted ¹⁾	5.7 / 8.3%	1.6 / 2.5%
	30/06/2023	31/12/2022
Equity Ratio	28.7%	-5.5%
Net Gearing	70.4%	n/a (neg. equity)

- Increased profitability within the group excluding Chinese subsidiary
- Back to solid equity
- Back to a solid net gearing

Higher growth rate than the market

¹⁾ Adjusted for Chinese subsidiary and deconsolidation



GUIDANCE 2023

OUTLOOK



	Actual 2022	HY1 2023	Target 2023
Sales / Growth Rate	6.8%	6.4%	0% to 5%
EBITDA Margin	-9.4%	8.3% (adjusted*)	6% to 9% (adjusted*)
	0.176	67.9%	35% to 40%
Net Gearing	n/a (neg.equity)	70.4%	50% to 80%
Working Capital	-1.6 Mio. EUR	25.0 Mio. EUR	15 to 20 Mio. EUR
Equity Ratio	-5.5%	28.7%	25% to 30%

^{*)} Adjusted for Chinese subsidiary and deconsolidation



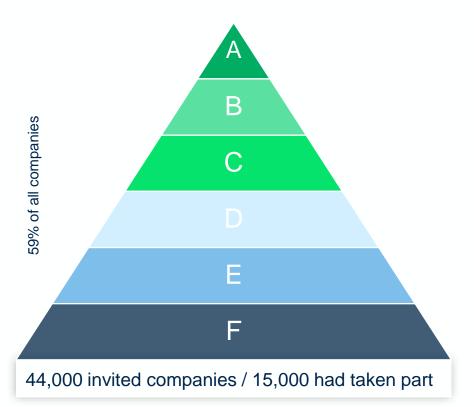
Environmental Social Governance

ESG MANAGEMENT





CARBON FOOTPRINT REDUCTION



Only 12 companies achieved a "Triple A" rating, while 330 companies received and "A" rating for Climate, Water and Forest

SCHWEIZER

e.g. Tesla, Berkshire Hathaway and Exxon Mobile

ESG MANAGEMENT



CERTIFICATIONS

CERTIFICATION AUDITS AROUND ISO 14001 / EM ISO 50001

 As a value-oriented company we are committed to our high standards in environmental and energy management and subject our actions to external audits

The quality of our systems is reflected in the successful DIN FN ISO 50001 : 2018 and ISO 14001 : 2015

ENVIRONMENTAL ISSUES - CORE TOPICS AND INDICATORS

For Schweizer's business area, the following key issues and performance indicators arise in relation to environmental concerns and are measured on an annual basis:

- Energy consumption,
- Carbon footprint,
- Water consumption,
- Waste,
- Use and consumption of resources (raw materials)

ESG MANAGEMENT



CODE OF CONDUCT

The "ZVEI Code of Conduct on Social Responsibility" (CoC) serves as the basis for our social responsibility in the context of our worldwide activities.

This guideline of the German Electrical and Electronic Manufacturers' Association (ZVEI) sets out what corporate responsibility means, for working conditions, social and environmental compatibility as well as transparency, trusting cooperation and dialogue.





APPENDIX

EXECUTIVE BOARD



Nicolas-Fabian Schweizer

Chief Executive Officer

Ass. Jur. Nicolas-Fabian Schweizer is member of the Board since April 2011 and appointed until June 2027.

In charge of Technology R&D, Business Development, Operations & Quality, Human Resources, Legal and Media & Communications (PR).

Marc Bunz

Chief Financial Officer

Dipl.Kfm. Marc Bunz is member of the Board since April 2010 and appointed until March 2028.

In charge of Sales & Marketing, Finance & Controlling, Global Supply Chain, Information Technologies and Investor Relations.





FINANCIAL CALENDAR

Date Publication/Event 2023-11-03 Interim Report 3rd Quarter 2023 2024-06-28 Annual General Meeting

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SCHWEIZER @ YOUTUBE





NEW VIDEO

p² Pack Embedded Power Devices



WATCH NOW

SAFE HARBOUR STATEMENT



This communication contains forward-looking statements and information – that is statements about events that lie in the future, not the past. These forward-looking statements can be identified by formulations such as "expect", "wish to", "anticipate", "propose", "plan", "believe", "seek to", "estimate", "become" or similar terms. While such forward-looking statements represent our current expectations and particular assumptions, they are subject to various risks and uncertainties. A number of factors, many of which are outside the control of Schweizer, have an impact on Schweizer's business activities, strategy and results. These factors could cause the actual results and performance of the Schweizer Group to differ materially from the information on results and performance made explicit or implied in these forward-looking statements. On our part these uncertainties arise in particular due to the following factors: Changes to the overall economic and business position (including margin developments in the major divisions), challenges posed by the integration of important acquisitions and the implementation of joint ventures and other major portfolio measures, changes to exchange and interest rates, the introduction of competing products or technologies by other companies, failure to find acceptance of new products and services among Schweizer's target client groups, changes to the business strategy and various other factors. Should one or more of these risks or uncertainties be realised or it becomes apparent that the underlying assumptions were incorrect, this could cause the actual results to differ materially both in a positive and negative sense from the results referred to in forward-looking statements as expected, anticipated, proposed, planned, projected or estimated. Schweizer does not obligate itself and does not intend to revise or correct these forward-looking statements in light of developments which differ from those anticipated.



MORE THAN PCBs