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Capital Markets Day 2022 | © Schaffner Group



### **Presenters**

Urs Kaufmann Chairman

Marc Aeschlimann CEO

Christian Herren CFO

Martin Lütenegger Division Head Automotive

Beat Stauffer Head R&D Industrial

Alessandro Amaducci Head Filter Development Automotive



## **Agenda**

Schaffner Transformation
Schaffner Positioning
Schaffner Markets
Schaffner Strategy
Schaffner for Investors
Schaffner Innovations



# Schaffner's transformation to a focused and more profitable growing company



## Schaffner transformation (1/2)

#### 2016

- Fuzzy strategy
  - 3 Divisions and 1 Business Unit with partially no synergies and perspective
- Complex organization with heavy overhead structure and many factories
  - Power Magnetics: Growth initiative, heavy losses, terrible delivery situation
    - turn around and divestment implemented
  - EMC: Cash cow, nicely profitable
    - new growth initiatives launched
  - Power Quality: Growth initiative, heavy losses
    - More focused and market oriented
  - Automotive: Non-strategic, nice profitability due to cut back investments
    - Build back pipeline and develop growth opportunity "e-mobility"

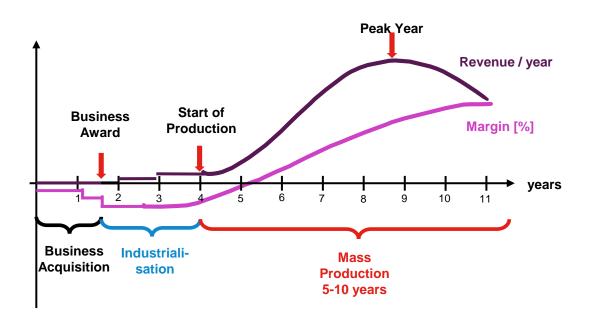
#### 2022

- Clear and consistent strategy
  - Focus on EMC solutions for a sustainable and electrified society
- One business for several attractive markets with a lean structure
  - Industrial
    - Growth initiatives: Robotics, EV Charging, Lighting, Distribution, Key Accounts
    - Innovation: Active EMI filters
  - Automotive
    - Build back pipeline
    - Grow with solutions for e-mobility
    - Innovation: Active EMI filters

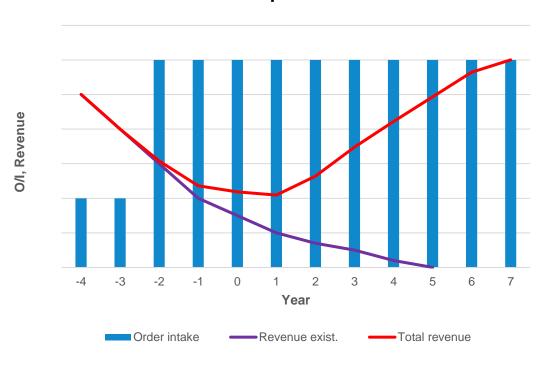


## **Automotive business – long life cycles!**

#### **Project Life Cycle**



#### **Order Pipeline Model**





## Schaffner transformation (2/2)

2016

#### Limited leadership and potential

- CEO ad interim
- Several non-fitting senior managers on first two levels
- No talent pipeline

#### Weak financials

- Very bumpy history
- Low profitability overall
- Relatively low equity
- Net debt

2022

#### Strong management and leadership culture

- Key positions with clear leaders
- New company culture being developed
- Talent management being established

#### Good financial basis

- Double digit EBIT margin in 2021
- Equity ratio > 50%
- Net cash

Solid basis for a stronger future established...but success with growth initiatives still to be confirmed



## **Our way forward**

#### Industrial

- A strong and stable back bone with a leading market position
- Succeed with and accelerate new growth initiatives

#### Automotive

- Weak "old" order pipeline but successful new orders won over the last couple of years
- > Redevelop the order pipeline and establish Automotive as a strong second pillar
- Grow with solutions for e-mobility
- Evaluate add-on M&A opportunities
- Clear profile vis-à-vis our stakeholders: MORE POWER TO YOU

Bring Schaffner on a sustainable growth path with consistent double-digit EBIT margins!



# Schaffner positioning



We provide our customers with electromagnetic solutions to operate their electronic systems reliably and efficiently - empowering them to focus on their great inventions.



## Schaffner's added value and brand promise

# We empower our stakeholders to play an active role in building a sustainable and electrified society.

#### By adding value to each of our stakeholders

- Our customers get their electromagnetic challenges solved and enabled to focus on their great inventions.
- Our employees work together with passionate and inspiring colleagues on solutions alongside mega trends.
- Our investors benefit from a future-oriented business in attractive growth markets.

## **MORE POWER TO YOU**



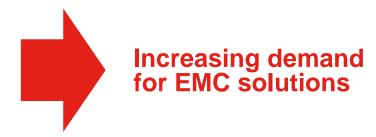
# Active in future-oriented markets with broad product portfolio



## Schaffner is active alongside mega-trends...

Our modern society is becoming increasingly electrified and connected – sustainability, electrification and e-mobility are mega-trends. That means:

- Technological progress requires electrical networks
- Digitization multiplies electronic systems
- E-mobility will play a dominant role
- Efficient use of electrical energy fundamental for sustainability





## ...those are reflected in our six growth industries















### Main industries linked to most attractive markets

#### **Industries**













#### **Markets**

**Motor Drive – Factory Automation – Machinery – Robotics** 

**HVAC – Elevators – Lighting** 

Renewable Energy – EV Charging – Energy Storage – Power Supply – UPS

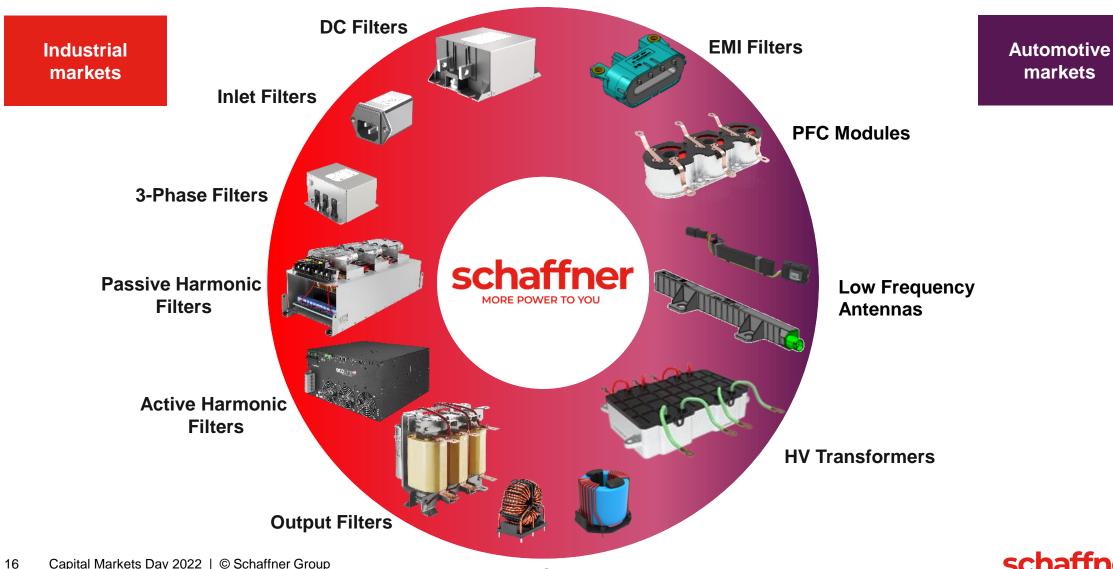
**E-Mobility – Authentication Systems** 

**Medical Equipment – Laboratory and Analyzer Equipment** 

**Datacenter – Networks** 



## **Broad product portfolio for attractive markets**



**EMI Chokes** 

# Schaffner strategy for profitable growth



## Our strategy to accelerate profitable growth

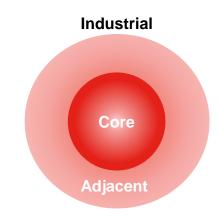
We fully focus on our core competence EMC solutions and gain further momentum through the continued execution of our growth initiatives!

- To strengthen our position in selected markets and regions
- To build up new legs to further expand our business
- To generate sustainable organic growth of >5% per annum
- To evaluate potential acquisitions in our target markets
- To achieve EBIT margin in the range of 10-12%



## Strategies to further strengthen Industrial business

- We strengthen our strategic industrial markets with EMI filter solutions and magnetic components through penetration and expansion of our product portfolio (Core)
- We expand into additional growth markets around our core business with new technologies and solutions (Adjacent)



#### **Selected growth markets:**



**Robotics** 







**LED Lighting** 



## Focused approaches to accelerate growth

#### Approaches to grow selected strategic markets (Robotics, EV Charging, Lighting)

- Global and regional set up to coordinate and drive initiatives
- Systematic approach to the main players in the market
- Expansion of product portfolio to best meet market requirements
- Winning design-ins in strategic projects
- Today market size CHF 10-30m (each)
- Schaffner growth potential >20% p.a.









## Strategies to build up strong Automotive business

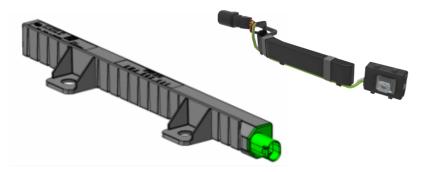
- We strengthen our antenna business with new designs for electrical and non-electrical car platforms (high volumes, automated lines).
- We build a strong pillar in e-mobility with EMI filter solutions and magnetic components based on existing and new customer relations.

#### Automotive





#### **Main Automotive products:**



**Antennas for keyless authentication systems** 



**EMI Filters and magnetic components for e-mobility** 



## **Strengthening two pillars in Automotive**

#### Approaches to build two strong Automotive pillars

- Broadening global customer base (platforms)
- Design-ins for EMI filters and magnetic components mainly for on-board-charges for different platforms (CHF 30-100m over lifetime per product per platform)
- Building up Automotive manufacturing in China to better cover local market
- Antenna designs for higher quantity platforms with automated assembly lines (CHF 20-50m over lifetime per platform)





## **Attractiveness for investors**



### **Solid balance sheet**

#### Total assets CHF 116.2 Mio.

(March 31, 2022)

Current Cash, equivalents, receivables 31.0 Non-current 47.7 liabilities 18.7 Inventories 34.2 Shareholders' equity Non-current 66.5 assets 34.3 Liabilities & **Assets** 

**Equity** 

Equity ratio: 57%

Solid NWC management

No goodwill

Net cash position

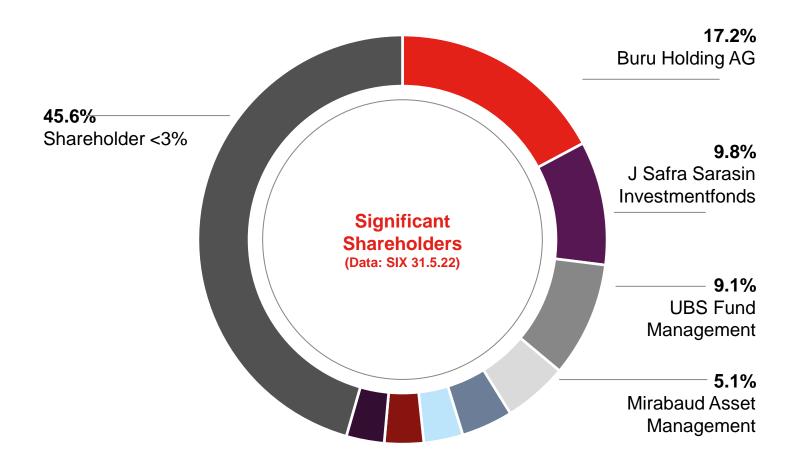
## **Attractive dividend policy**

- Income-oriented dividend distribution
- Target range for payout 40-50% of net result
- FY20/21 highest ordinary dividend since going public of CHF 9.00





## Strong and committed anchor shareholder





## **Schaffner Group – key success factors**



- 1) Core competence EMC solutions of high importance for mega trends sustainability and electrification
- 2) Market leadership with broadest product portfolio for Industrial markets
- 3) Schaffner's electro-magnetic competence being leveraged into e-mobility
- 4) Potential to move into adjacent growth markets through innovation and/or bolt-on acquisitions
- 5) Mid-term topline growth potential to boost margin expansion
- 6) Committed anchor shareholder with long-term perspective



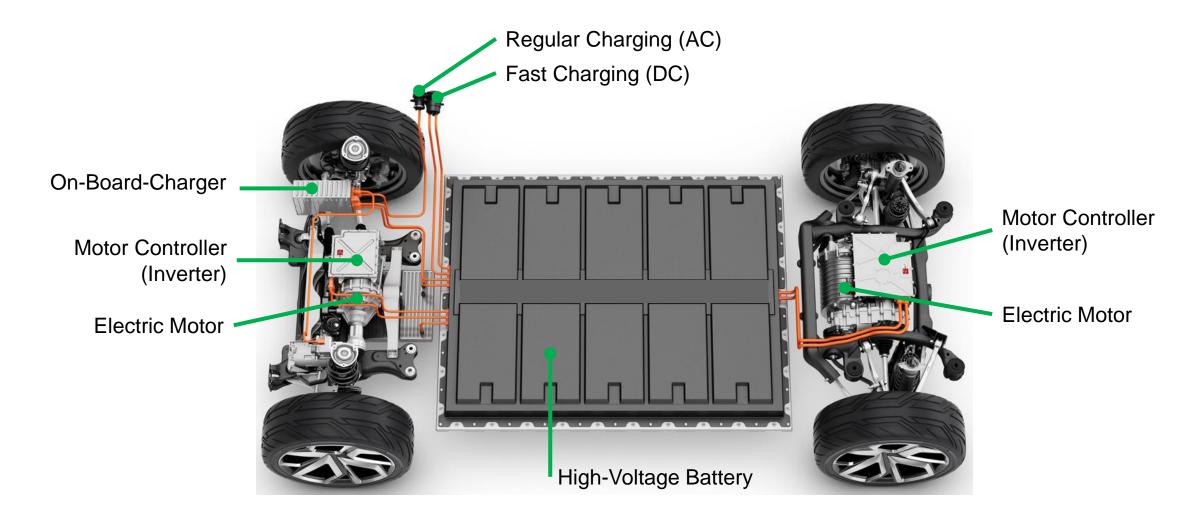
# Selected innovations in Industrial and Automotive



## Innovation for e-mobility



## The electric powertrain





## Why is EMC an issue in an electrical car?

#### The "Noise Maker"

- Power transformation DC ← → AC
- Inverters and transformers
- Electric motors

#### The "Noise Transporter"

- Cables
- they act like antennas and collect / send radiated emission

#### The "Victim of the Noise"

- Battery
- Sensors









#### How to eliminate the noise or make it harmless?

#### Use shielded cables & high system integration

- High costs up to CHF 1'000 per car
- High integration on system level required

#### **Use EMI filters**

- Filter performance depends on filter size
- Smart design is key high customisation required as every case is totally different

#### A combination of both

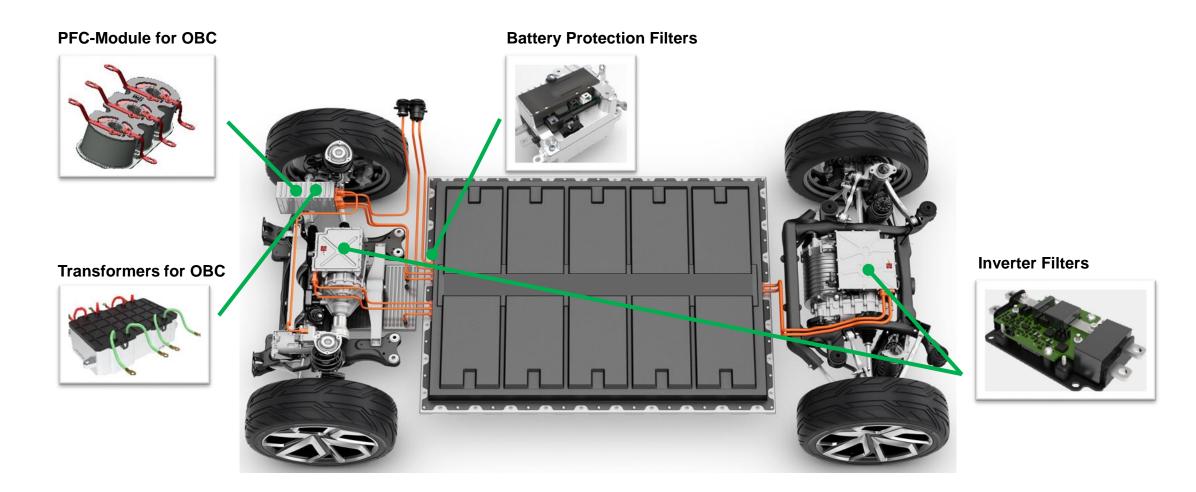
- Low performance filters
- Some cables shielded only







## Schaffner's products in electrical cars



## Schaffner's value proposition in EMI filtering

#### For inverter filters and battery protection filters

- Portable Schaffner noise-measurements to accurately measure the real noise at customer's place
- Model based simulation for system understanding
- Scientific design approach using sophisticated calculation tools
- «Right at first shoot» filter designs for fast solutions

#### For on-board-chargers

- Designed for highest efficiency in smallest space
- Aluminium based solution for better heat evacuation
- 25-30% space and weight saving







### **Active filters as next-to-come technology**

#### What is-it?

- Noise-measurements integrated in the filter
- Filter produces the opposite signal in real time
- In the aggregate, the 2 signals cancel each other

#### What's the benefit of it?

- Much higher noise attenuation and at lower frequency
- Much smaller size and weight

#### What's the current status?

- 400V active filter successfully tested on a customer powertrain
- 800V active filter under development







## Innovation for Industrial



## **Machinery major market for EMC solutions**

- Machinery market globally most relevant for EMC filter-solutions (est. Market size CHF 50m)
- Schaffner with big market share of CHF 20m
- The machinery market covers broad area of machines (food& beverage, manufacturing, semiconductor, textile etc.) whereas machine tools are one of the most important
- Industry norms in regard of EMC are changing and requirements increase
- New filter solutions are needed in the future to secure market and increase market share
- The solution will be hybrid filters for higher currents

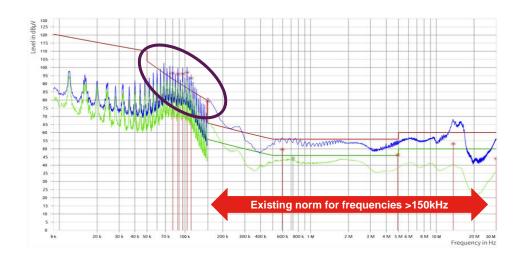




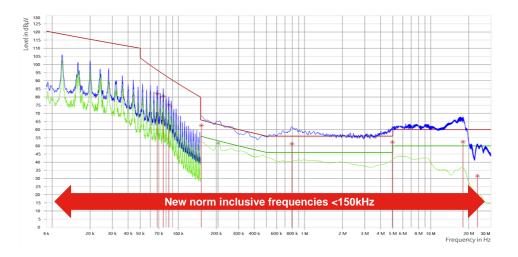
# Hybrid filters can fulfill new requirements and provide additional benefits

- New norm requires filter performance at lower frequencies (<150kHz)</li>
  - Expensive to implement with passive filters
- Smaller size and footprint huge advantage
- Energy efficient designs preferred

#### **Today: Passive EMI filter**

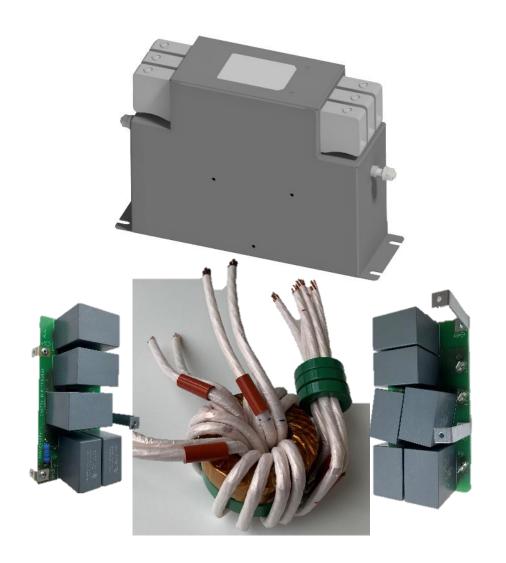


#### **Tomorrow: Hybrid EMI filter**





## Smaller design and easier to manufacture





- ✓ Design & material standardization
- ✓ No winding

















## Schaffner - MORE POWER TO YOU

