

Sustain- ability at Kesseböhmer

May 2023

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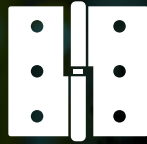


About Us

01

WHO WE ARE

- Our mid-sized business has been family owned and operated for three generations..
- Our innovative solutions bring together design, function, and quality.
- Our core competence is metalworking and metal processing: Wire, sheets, and tubes, as well as electroplating and finishing with our in-house galvanizing and powder-coating systems.



Hardware & Fittings



Shelving & Displays



Solutions for Retailers



Recreational Vehicle Furnishings



Office Furniture & Ergonomic Technical Components



Automotive



Tool Manufacturing



Metal Finishing



Wooden Accents & Home Accessories

KESSEBÖHMER BY THE NUMBERS



660 Million

Euro Revenue in 2022

- 350 million: Display systems and retail shelving solutions
- 250 million: Fixtures and fittings for furniture
- 60 million: Industrial products



3.500

Employees

As of 2022, we employ 3,500 employees at 10 sites (8 in Germany, 2 abroad), with 1,531 in Dahlinghausen.



88

Countries around the world
import our company's solutions.



1954

Our first year in business
and now in the third generation as a family-owned company.

OUR PRODUCT PORTFOLIO

A Hidden Champion for Precision and Design

- A leading supplier of hardware and components for the custom-kitchen industry
- Furnishings for the recreational vehicle industry
- Retail display systems, shelving, Store Within a Store (SWAS) systems
- Ergonomic elements and components for office furniture
- Highly specialized parts for the automotive industry



02

Our Sustainability Efforts

OUR ROLE IN SUSTAINABILITY



As a family-operated company, we plan for the next generation, and not just the next quarter.



Our role in the communities we operate starts with our obligations as a responsible employer and business partner.



How we see ourselves: Doing business sustainably, while taking political, social, and ecological responsibility for our community – both in the regions we operate and the employees we rely on as well as in an international context along the entire value chain.



Our sustainability efforts take place at the strategic as well as at the operational level, to conserve resources, support our employees, and strengthen our partners. Our mission is to take responsibility not just for our business, but also for environmental and social issues.

OUR THREEFOLD APPROACH



Sustainable Business Practices

Our primary goal is ensuring our future success as a company. However, this can only happen if we develop future-proof solutions for our customers, who have made sustainability a key criterion. The efficient use of resources not only protects our planet, but also contributes to lower costs and the future success of our company.



Sustainable Production Practices

We maintain sustainability in our production processes by conducting regular audits of our wastewater, biodiversity, occupational safety and health – on site as well as along our supply chain.



Sustainable Community Practices

Our company culture is characterized by integrity, trust, honesty, and fairness. Our customers, suppliers, and employees can depend on us upholding and applying these values, standards, and obligations for all our stakeholders.

OUR FOCUS



We are a good employer, putting a high value on decent social standards for all of our stakeholders.



High standards for our supply procurement, our production processes, and our final products help us to conserve resources.



As a key partner in our industry, we make it our responsibility to facilitate and implement environmentally friendly value creation wherever possible, to the greatest extent possible.



We are committed to ensuring that our agreements and standards for sustainable business are put into practice.

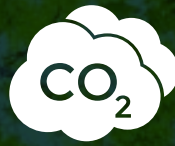
03

Our Sustain- ability Goals

CONTINUOUS IMPROVEMENT IN THE AREA OF ENVIRONMENTAL PROTECTION



Gradual elimination and replacement of Styrofoam packaging materials



Reduction of CO2 emissions



Greater energy efficiency by reducing the amount of energy per unit produced



Reductions in our per-unit water consumption



Constant improvement in the percentage of material we recycle



Continuous reduction of workplace accidents

SUSTAINABILITY IN OUR PRODUCTS



Durable

The life cycle of our products corresponds to the life cycle of the kitchen they are found in, and undergo rigorous analysis in our testing center.



Recyclable

Our products are manufactured using almost completely recyclable materials. the manufacturing process is optimized for the future use of these resources.



Transparent

Our pull-out shelving and storage solutions offer maximum visibility, thereby reducing food waste.



Ergonomic

Our products promote ergonomic, natural movement in the kitchen and office, and help minimize accidents and injuries.

04

Sustain- ability in Produc- tion

RAW MATERIALS

Annual Materials Consumption, Kesseböhmer Gruppe



71,500

Metric tons of steel



2,000

Metric tons of Aluminium



15,000

Cubic meters of wood



1,300

Metric tons of powder

WOOD

Materials from Sustainable Forestry Practices

- Sustainable forestry protects biodiversity and supports the surrounding woodland ecosystem. Wherever possible, we use wood from certified forests.
- We fulfill all requirements laid out in the European Timber Regulation (EUTR).
- When possible, we are phasing out solid wood. For example, we have developed a groundbreaking new composite material for our „OrganiQ“ line, composed of 78% natural fibers – equal parts hemp and kenaf – and 22% of a crosslinked, thermoset binding agent, which is water-based and free from formaldehyde and phenolic resins.



- Our core competence is metalworking. We create products from wire and tubing, sheet metal and strip steel, fasteners, fittings, and bumpers. Our focus is on durability, and our products undergo regular testing, often on-site, to ensure quality.
- Parts made of plastic must fulfill all of our demanding product requirements, including those regarding contact with food. We also analyze our electrical components for fire safety. We also test these materials in-house as needed to ensure the reliability and safety of our products.



CHEMICALS & ELECTRONICS

Going Beyond the Legal Requirements

- Compliance with all legal requirements concerning the restriction of hazardous substances according to the European Union's REACH, RoHS, and WEEE Directives
- Comprehensive implementation of compliance with customer-specific requirements beyond those set out in the law



RECLAMATION IN PRODUCTION

- The commissioning and utilization of comprehensive water treatment, water reclamation, and water recycling systems
- Single-material sludge production for the reclamation of raw materials, e.g., nickel sludge for steel production, copper sludge for copper smelting, chromium sludge for glass production
- Evaporation systems for the recovery of chrome electrolyte electroplating solution
- Recovery of exhaust heat for use in the thermal regulation of the supply-air intake
- Scrubber systems that result in emissions 30 times cleaner than what German air-quality regulations permit



CO₂-EMISSIONS

CO₂ Emissions in Metric Tons



ACTIONS TO REDUCE CO₂-EMISSIONS

Completed Actions

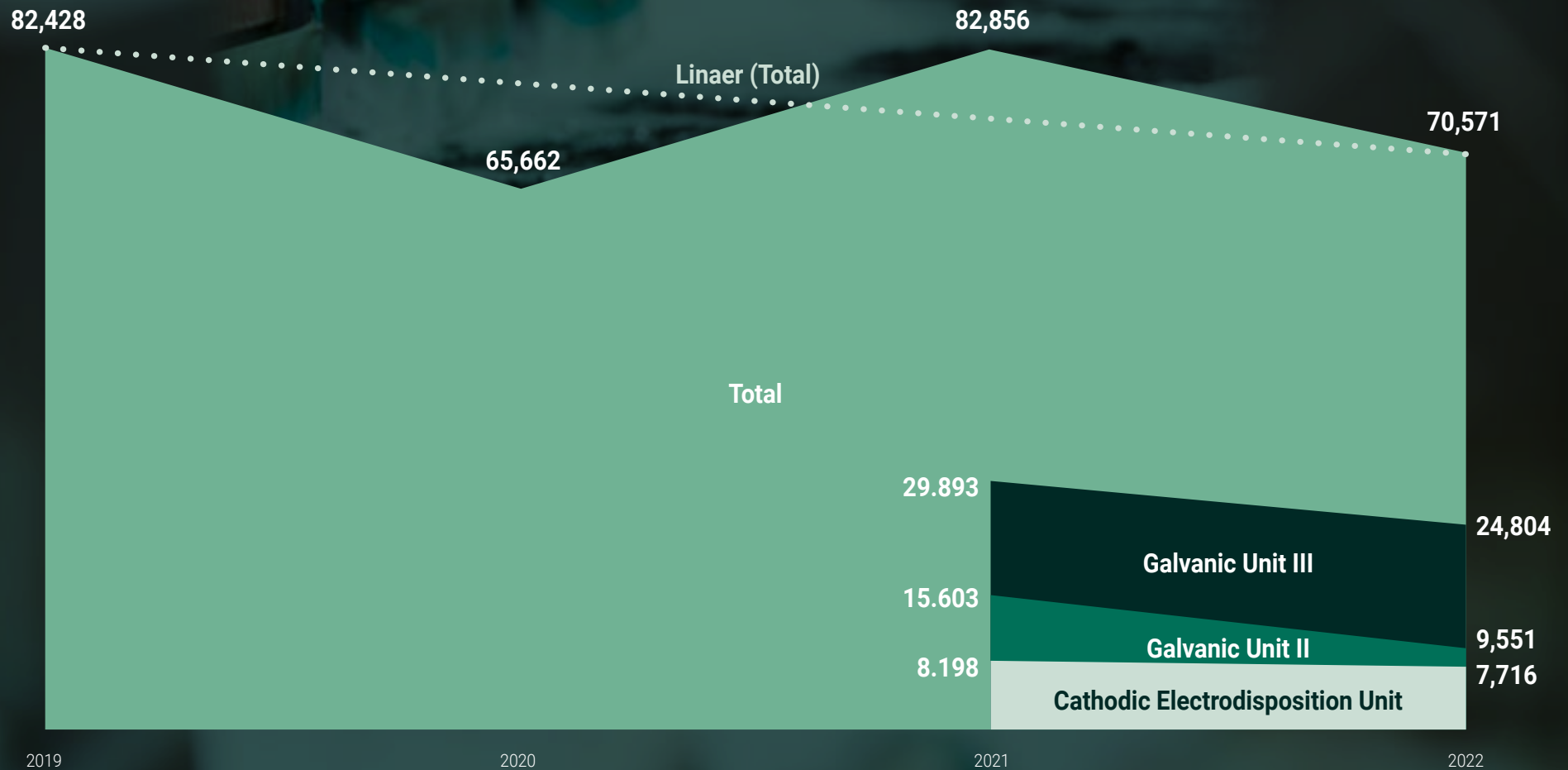
- Replacement of gas-fired heating systems in infrared heater in one Plant (2022)
- Commissioning of photovoltaic system (2023)

In Progress

- Expansion of the photovoltaic system on the northern side of the building
- Conversion of the infrared heater in Plant 7 to electric power

WATER CONSUMPTION

Wastewater in Cubic Meters (1 m³ = 1000 Liters)



ACTIONS TO REDUCE WATER CONSUMPTION

Completed Actions

- Nickel recovery leading to the conservation of resources. Nickel sulfate is produced, which is eventually returned to the process bath. Moreover, this process also reduces waste water.
- Installation of a recirculation system and an ion exchange system to reduce the amount of water used in cleaning processes
- Commissioning of a evaporation unit downstream from the electropolishing unit, thus reducing waste water
- Recovery of water used in cleaning processes in the wastewater treatment plant – the water is treated and recycled
- Development of a recycling system for the treatment of chromium-containing rinse water and its reclamation for chromium baths

In Progress

- Minimization of rinse water by optimization of nozzle units
- Modification of control systems leading to minimization of electrolyte carryover
- Utilization of waste heat for drying processes, thus reducing the weight and volume of cargo and transportation

ENERGY CONSUMPTION

Energy Consumption in MWh



ACTIONS TO REDUCE ENERGY CONSUMPTION

Completed Actions

- Replacement of multiple gas-fired heating systems in administrative buildings and in Hall 6 (2021)
- Installation of a plate heat exchanger for the CS91 compressor (2022)
- Installation of a dual-fuel (gas and hydrogen) system in the metal plating unit (2023)

In Progress

- Improved regulation of air conveyance and ventilation systems in production halls, thus preventing negative air pressure
- Conversion of lighting systems to LED systems in production halls
- Building renovation of Plant 1
- Expansion of the photovoltaic system

ELECTRICITY CONSUMPTION

Electricity Consumption in MWh



ACTIONS TO REDUCE ELECTRICITY CONSUMPTION

Completed Actions

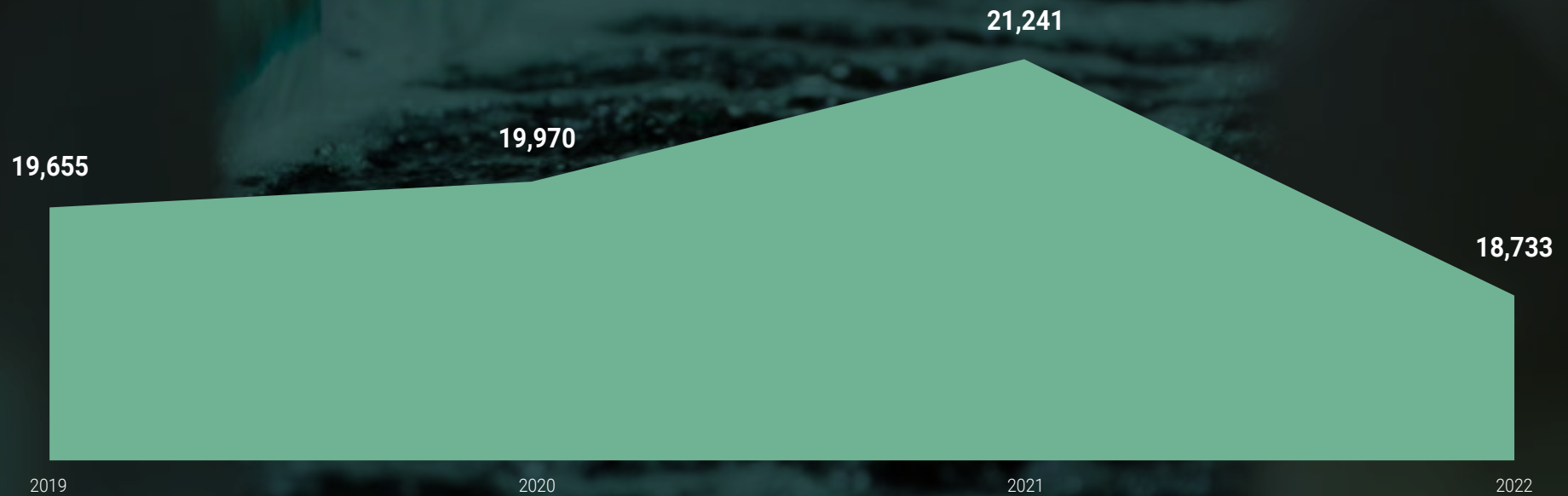
→ Commissioning of a compressed-air energy system (CAES) heating plant (2022)

In Progress

→ Conversion of lighting systems to LED systems in production halls

HEAT CONSUMPTION

Heat Consumption in MWh



ACTIONS TO REDUCE HEAT CONSUMPTION

Completed Actions

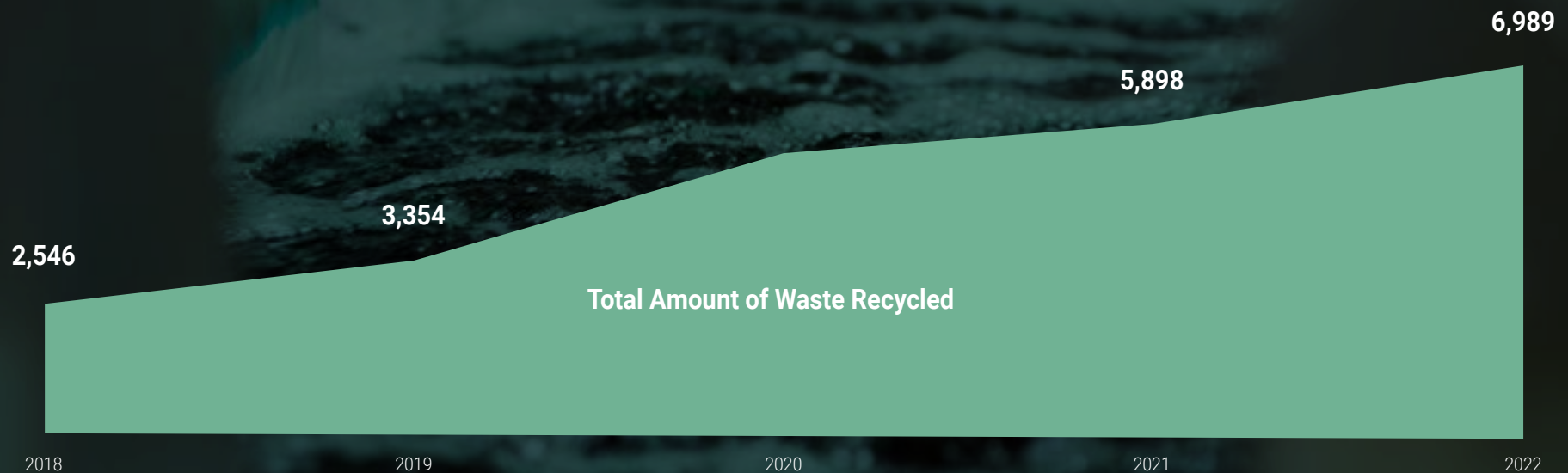
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- Installation of a plate heat exchanger for the CS91 compressor (2022)
- Installation of a dual-fuel (gas and hydrogen) system in the metal plating unit (2023)

In Progress

- Building Renovation of Plant 1
- Significant improvements in the control systems of the gas boiler, thus optimizing gas consumption in the custom manufacturing unit and in various administration areas

RECYCLING LEVELS

Recycled Waste in Metric Tons



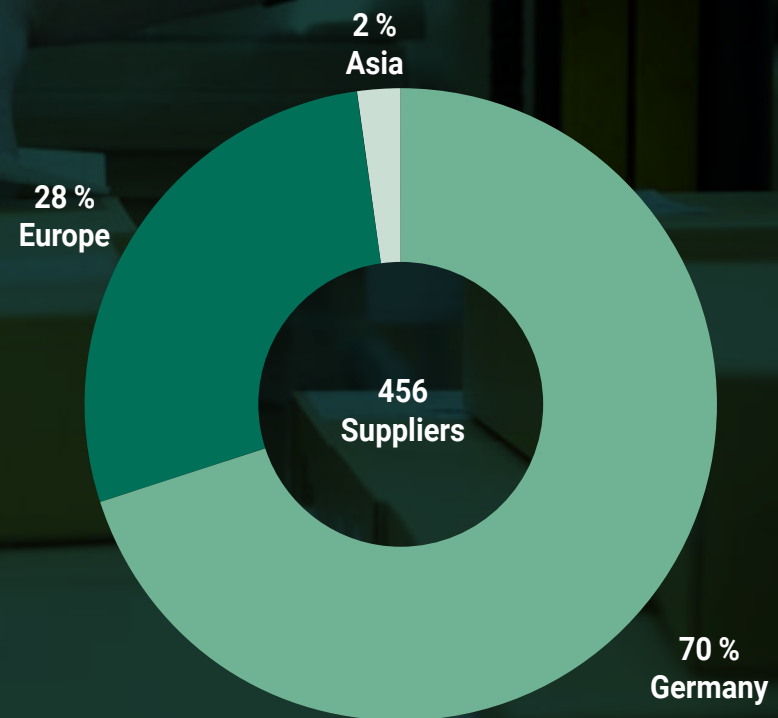
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Sustainability in the Supply Chain

SUPPLY CHAIN

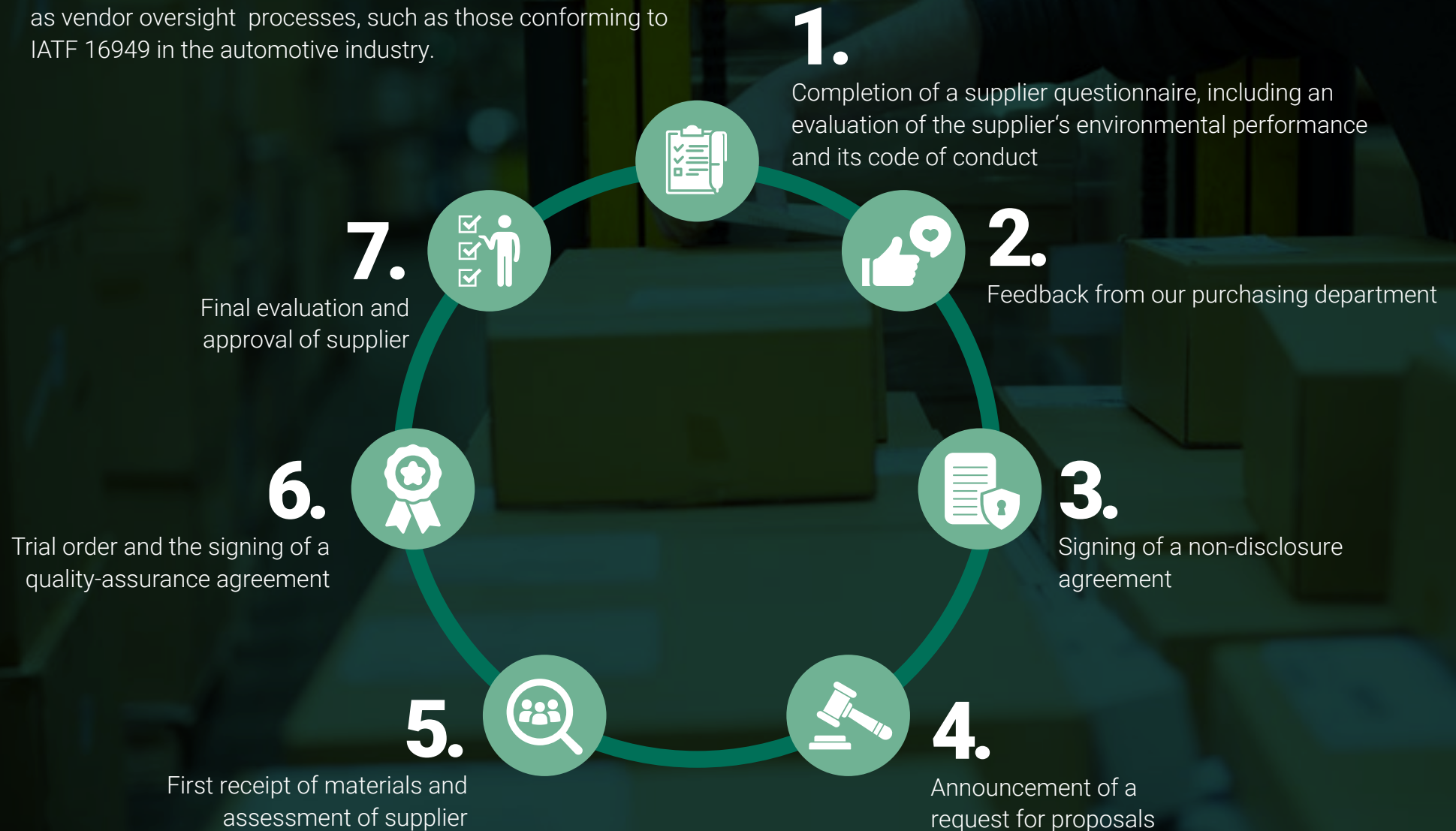
Sustainable Supply-Chain Management

- We expect our suppliers and their own supply chains to maintain standards regarding human rights, environmental protection, labor standards, and transparent business practices.
- 98% of our suppliers are headquartered in a member state of the Organisation for Economic Co-operation and Development (OECD), while 70% of our production materials come from Germany. This guarantees the shortest possible transit routes.



THE SUPPLY CHAIN

→ To ensure that our suppliers maintain our high standards, we conduct comprehensive, demanding evaluations as well as vendor oversight processes, such as those conforming to IATF 16949 in the automotive industry.



06

Sustainable- able Pack- aging



RECYCLING IN FOCUS

Alternatives to Styrofoam and Plastics

- We employ reusable packaging for major customers.
- We are constantly developing new packaging solutions that use fewer resources and can be recycled.
- We are gradually replacing Styrofoam with molded fiber packaging, corrugated cardboard or honeycomb cardboard. So far, we have already eliminated 80 metric tons (3,200 cubic meters) of Styrofoam every year.
- We have also replaced our polyethylene foam wrapping and our plastic bags and films with paper alternatives.



07

Quality & Safety Standards



CERTIFICATIONS AND RISK MANAGEMENT

- Energy management in accordance with ISO 50001 standards
- Environmental management in accordance with ISO 14001 standards
- Conformity with EU Directive 2012/19/E on Waste from Electrical and Electronic Equipment (WEEE) by reducing waste through reuse, recycling, and other forms of reclamation
- Compliance with the REACH Regulation on the safe use of chemical substances
- Uniform risk management for the identification, analysis, monitoring, and reporting of processes
- Internal staff for extraordinary unanticipated incidents: 11 employees trained in the safe handling of chemical substances and hazardous materials. This includes training in the use of chemical protective clothing (CPC) to conduct emergency employee-rescue operations.
- 60 fire-protection specialists, all of whom are members of the local volunteer fire department, as well as a company-owned fire truck.



08

Health & Safety at Work



HEALTHY FROM THE SHOP FLOOR TO THE BOARDROOM

- Our goal is high ergonomic and occupational safety standards for every employee at every site, at all times.
- We employ internal staff and representatives for occupational safety, accidents, fire protection, and environmental management as well as company physicians to conduct regular „Legal Compliance Audits.“ Annual training sessions on occupational safety and health are provided to all employees.
- The identification of possible hazards in accordance with German industrial standards DIN 14121 and DIN 13849. After all accidents and incidents, we conduct interviews with those affected. This way, we can derive conclusions about possible dangers, and create a basis for future risk prevention and avoidance.
- Preventative health services for employees
- Certification in occupational safety according to occupational health and safety ISO 45001:2018



WORKPLACE INJURIES

Number of Injuries per 1,000,000 Employee Hours Worked

24.20

21.80

18.40

2020

2021

2022

WE BRING TRADITION AND INNOVATION TOGETHER

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