

SCHMIDT Technology GmbH
Environmental statement
2023

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Foreword

An internationally recognized technology leader as a family business

SCHMIDT Technology is a family-run, medium-sized company at the highest technological level with an international customer base. For SCHMIDT Technology, environmentally-oriented and sustainable corporate management has always been a matter of course. We consistently implement resource conservation and environmental protection in all business areas. SCHMIDT Technology has always stood for solidity and continuity. Sustainable management has therefore long been a cornerstone of our corporate philosophy. Taking social, economic and ecological aspects into account is essential.

However, effective environmental protection cannot be achieved through technology and organization alone. Above all, it is the employees who plan and control processes and products responsibly that are decisive. Therefore, at SCHMIDT Technology, sensitizing and involving employees is an essential component of environmental protection.

SCHMIDT Technology's aim is to take environmental protection into account as early as the product development stage, to use environmentally friendly materials and to implement efficient and environmentally friendly production processes in manufacturing. Existing production processes are optimized through continuous improvement.

SCHMIDT Technology GmbH develops and produces only high-quality products with a long service life in its Writing Instrument Technology, Machines and Sensors divisions. This makes a significant contribution to conserving our resources.

SCHMIDT Technology will continue to pursue this path with vigor.

St. Georgen, 23.02.2023



Oliver Schmidt

Technical Management



Stephan Schmidt

Commercial Management

The SCHMIDT Technology company

The Black Forest is traditionally the location for the precision engineering industry, which has its origins in the watchmaking industry.

SCHMIDT Technology, located in the heart of the Black Forest, presents itself as an innovative and future-oriented, medium-sized family business with 300 employees, which would like to introduce you to the activities of its employees for environmentally friendly work in this environmental statement.

SCHMIDT Technology's modern, spacious production plant blends in well with the landscape of the Black Forest. Workplaces have been created here for people who use their creativity and skills for fine work, for the highest technology, for SCHMIDT Technology.

Researching for the future, constantly questioning the status quo and finding new marketing and product ideas - these are the cornerstones of SCHMIDT Technology's success in its three divisions.



Writing instrument technology



Machines



Sensors

Despite their independence and differences, all divisions have their starting point in the special precision engineering know-how of SCHMIDT Technology. The common denominator is innovation, precision, precision engineering experience and the employees' sense of quality for the wishes of demanding customers.

The different product knowledge and the associated product experience of the employees in the three divisions create important synergy effects.

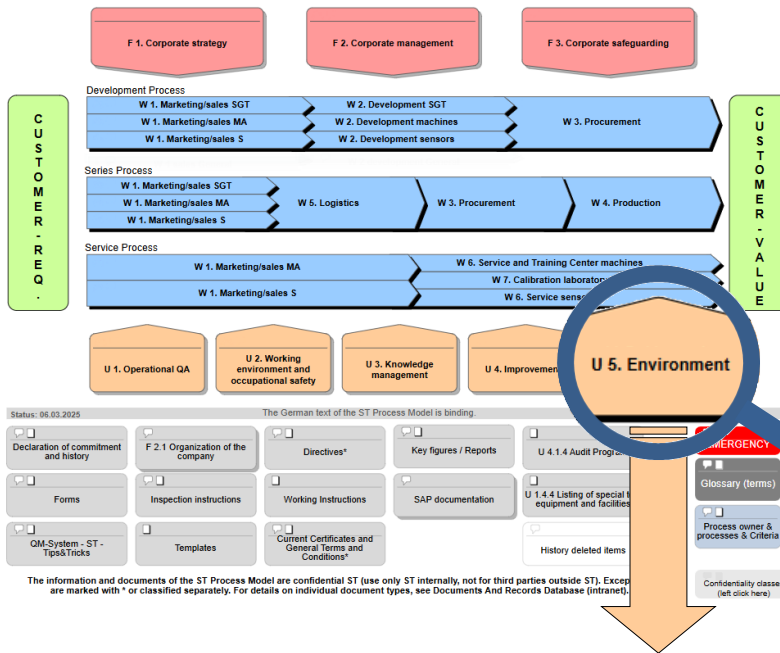
That's why SCHMIDT Technology is already thinking about products that will set the pace for the future in terms of technology.

The quality products from SCHMIDT Technology are at home on every continent and are marketed worldwide under the SCHMIDT® registered trademark. Their competitive edge is also secured by over 100 internationally registered patents.

With this environmental statement, SCHMIDT Technology demonstrates that environmental considerations are a high priority in the development and production of modern, future-oriented products.

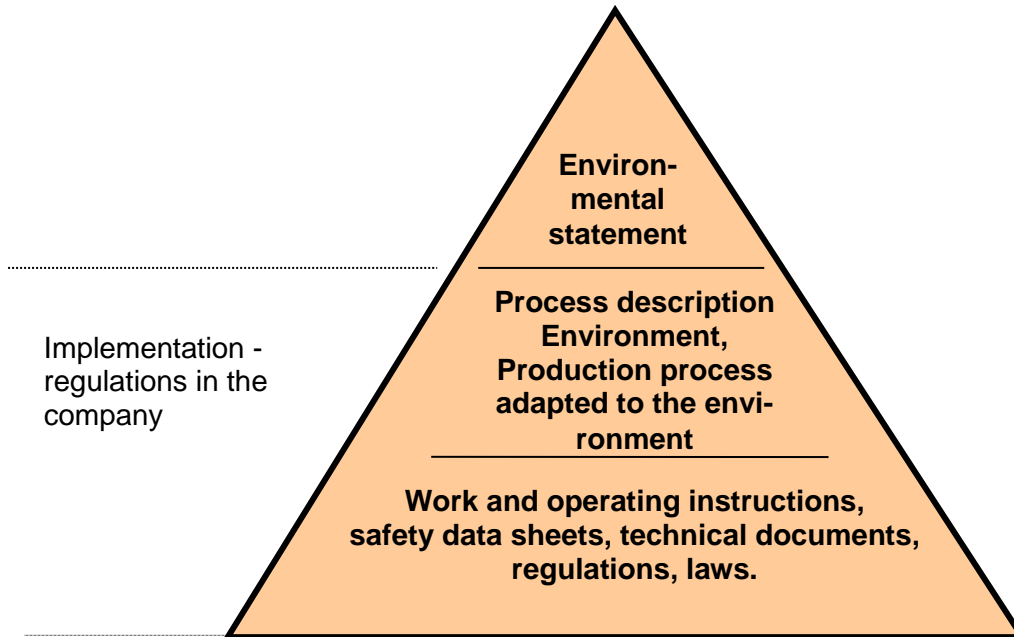
Structure of the environmental management system

Process Model ST



Integrated management-system:

- QM: DIN EN ISO 9001:2015
- Environment
- Occupational safety
- Calibration laboratory: DIN EN ISO/IEC 17025:2018



Environmental management at SCHMIDT Technology

Management

Initiator for the introduction of the Environmental Statement 2023. Specifies the environmental policy and environmental targets. Responsible for contact with the relevant authorities.

Management Technology

Responsible for the specifications to the development departments for the implementation of environmentally friendly products.

Development	Responsible for environmentally friendly, durable products using appropriate raw materials to avoid waste and conserve resources.
Production management	Responsible for the use of environmentally compatible processes, the regulation and enforcement of the environmental process description and the environmental operating instructions.
QMB	Prepares this environmental statement on behalf of the management in coordination with the internal departments. Responsible for the quality management system according to ISO 9001 and ISO/IEC 17025 as well as for the implementation of the environmental statement.
Quality assurance	Plans product safety by systematically drawing up inspection plans for worker self-inspection. Gives suggestions for improving the product, also from an environmental point of view.
Specialist for occupational safety	Responsible for safety-relevant areas on machines and systems, identification of potential hazards and their labelling.
Safety officer	Support for the occupational safety specialist in production departments with potential hazards.
Purchasing	Responsible for the procurement of substances and, if relevant, their safety data sheets. Together with the contact person for waste, responsible for the environmentally sound recycling and disposal of waste. Preparation of the annual waste balance sheet.
Contact for waste	Responsible for ensuring that waste is collected and labelled according to type. In close contact with production management and purchasing, he ensures correct storage and timely disposal. Where required by law, he keeps the waste record book.
Contact for immision protection	Working towards the development and introduction of environmentally friendly processes. Monitoring compliance with legal regulations and educating employees on critical processes and substances.
Fire protection officer	Responsible for compliance with fire protection guidelines and preventive fire protection.
REACH-representative	Responsible for the implementation of the requirements of REACH Regulation 1907/2006 in the company.
Laser safety officer	Responsible for compliance with the accident prevention regulations for laser radiation.
Goods receipt	Only accepts goods delivered in an environmentally friendly manner and distributes them internally accordingly.
Packing / Shipping	Determines the size, type and material of environmentally friendly shipping packaging. Ensures the inclusion of returned packaging and the use of reusable packaging systems, e.g. pallet cages, pallets, etc.
Master craftsman	Instructs employees on the correct way to work at the workplace and monitors the correct sorting of waste in the departments.

Corporate guidelines

The guiding principles were developed in workshops with the employees. The department heads and foremen then discussed the principles with the employees and agreed on how to implement them in their daily work.

We at SCHMIDT Technology have the following guiding principles for our thoughts and actions:

Company	<p>We are a market-orientated, innovative and successful company. In our business areas:</p> <ul style="list-style-type: none">• Writing instrument technology• Machines• Sensors <p>We develop, produce and distribute cutting-edge technological products. We produce and distribute parts and assemblies for medical technology and other complex applications.</p>
Shareholder	<p>We are a modern, future-orientated, family-owned company. By investing heavily in people, technology and organisation, we secure jobs and a satisfactory return in the long term.</p>
Customers and markets	<p>We focus on the requirements and benefits of our customers. We are a technologically competent and reliable partner. We are successful worldwide.</p>
Products and technology	<p>Our high-performance products and cutting-edge technology make us the market leader. We secure and strengthen this position for the future through continuous development and innovation.</p>
Employees	<p>Well-trained, motivated employees are the basis of our success. The continuous training of all employees secures the future of the individual and the company.</p>
Quality and Quality management-system	<p>Quality in all areas and its continuous development is the core of our corporate philosophy. We are continuously developing our quality management system.</p>
Organisation	<p>We have a modern structure and work in a process- and team-orientated manner. Our competences are clearly defined. We work with a co-operative and employee-oriented management style.</p>
Environment / Surroundings	<p>We act responsibly towards our employees, society, shareholders and our environment.</p> <p>We ensure compliance with all legal and regulatory requirements relevant to the company and its relevant legal and regulatory requirements for the company and its products.</p>

Sustainable development

Ecology

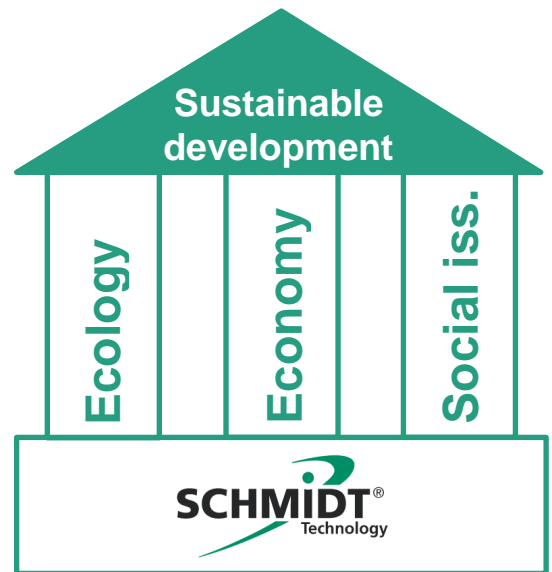
- Durable and / or reusable products
- Products (sensors) that contribute to energy savings
- High proportion of regional suppliers for series production
- Procurement of operating resources, preferably from local suppliers

Economy

- Long-term healthy company development
- High vertical range of manufacture
- Family property
- Family-managed
- Confidentiality

Social

- Production exclusively in Germany
- Long-term preservation of jobs
- Focus: Ergonomics
- Focus: Occupational safety
- Respect for human rights in accordance with UN resolution
- Fair treatment of business partners, customers, suppliers and employees



Environmentally conscious behaviour at SCHMIDT Technology

From the guiding principle 'Environment / surroundings' in our corporate mission statement, it is clear that the environmental policy has been defined from the management down to each individual employee. This area has become even more important in recent years. Numerous internal activities are carried out above and beyond the legal requirements and are constantly being improved, so that SCHMIDT Technology today has an above-standard level of environmental protection. Product development has a high priority in all three areas of the company and is committed to designing our products with resource conservation and environmental protection in mind. The main responsibility for the environmental policy lies with the management and for its implementation with the relevant departments (environmental management officers).

Environmental policy

- Where possible, the motto 'Avoid waste' should be followed. The graduated principle applies: 'Avoid before recycling, recycle before disposal'.
- Consideration of resource conservation, environmental protection, regulated disposal and legal requirements right from the product development stage.
- Reducing the cost of waste disposal.
- Avoid hazardous substances where possible. Proper handling of hazardous substances to protect employees and the environment.

Individual measures for internal regulation and measures to achieve the 2022 - 2024 targets

- Maintenance and further development of the environmental process description
- Further optimisation of the organisation and processes in the area of environmental management and occupational safety:
 - Central list of hazardous substances (LM)
 - REACH-list (LB)
 - Preparation of an annual waste balance sheet
 - Continuous conversion of lighting to LED technology
 - Adjustment (reduction) of the lighting duration
- Installation of a new high-performance machining centre, with logistic system for K31 as replacement investment for BAZ MC16 und BAZ MC12
- Building extension: In 2022, a building application was submitted for a new covered container and recycling centre to protect it from the weather. The measure is to be realised in 2023.
- The installation of a new building management system has been underway since 2021. Among other things, this will reduce electricity and heat consumption. The installation is due to be completed in 2023.
- In 2022, 2 new compressors from Atlas Copco were procured and installed. These are controlled according to demand. All compressors used are now equipped with heat recovery.
- A photovoltaic system is in the planning phase.



LED lighting showroom

Energy / Energy-audit

The third energy audit in accordance with DIN EN 16247-1 will be carried out in the 4th quarter of 2023 with Arqum. The resulting optimisation measures will then be incorporated into the planning and implemented accordingly.

Fire protection

The entire company, i.e. both the production and administration areas, are equipped with a sprinkler system. Measures to improve fire protection are implemented on an ongoing basis through regular inspections and checks.

General operational waste management at SCHMIDT Technology

The waste problem in the commercial sector must primarily be dealt with according to the motto 'waste must be avoided'.

Where this is not possible, waste must be recycled as far as possible and disposed of as little as possible.

- In addition to responsibility towards people and the environment, this is also a question of cost.
- The separation of general waste begins in the individual departments.
- **These can be distinguished as follows:**

- A.** Paper and cardboard packaging from production that cannot be reused must be pressed daily in the incoming goods warehouse for later recycling.

After consultation, return undamaged common cardboard boxes to the packing centre after consultation.

Paper from administration goes in red sacks via HM daily to the incoming goods warehouse for baling.



- B.** Plastic film and polystyrene must be disposed of separately in the plastic bags provided in the UG BA5 corridor.

The bags are stored by HM in the mixed collection container. Shredded paper from the administration is also collected in this container.



- C.** Disposable glass or broken bottles are to be disposed of in the containers in the corridor UG BA5.
- D.** Monitors, cable remnants and electrical waste must be disposed of via barrels or pallets in the BA2 basement.
- E.** The remaining waste produced in the departments is placed in the residual waste container no. 1 on the disposal site.
- F.** Kitchen waste and organic waste must be disposed of in the ReFood bin at the disposal site.



Delivery times:

Delivery times **C - D**, Fridays from 3.30 pm. Waste according to **E** in containers no. 1 and **F** **daily**.

If anything is unclear, please contact the contact person for waste (see list in the QM manual on the intranet).

Irrespective of this regulation, the graduated principle applies:

'Avoidance before recycling, recycling before disposal'

Operational waste management of special substances at SCHMIDT Technology – I

The containers deposited at the disposal site (E.PI.) must be free of foreign objects for safe recycling. For this purpose, the site plan of the E.PI. and this process description must be observed.

- Container 1 Waste as under E previous page.
- Container 2 Cast iron and steel chips, sheet metal and sheet metal buckets, crushed if possible (**K31** press) and cans.
- Container 3 Oil-soiled cleaning wool. Where possible, rental cleaning cloths should be used. Where this is not possible, cleaning wool is used **after multiple use**, on the machine and on the floor. Disposal takes place via this container, without paper waste.
- Container 4 Empty spun stainless steel chips without oil via intermediate container of the **K41** using a forklift. The **K41** is responsible for ensuring that the chips are sorted - always with a **lock**.
- Container 5 Empty the spun brass chips without oil via the intermediate container of the **K41** using a forklift. Ensure that the **K41** is unmixed - always with a **lock**.
- Container 6 Cast iron and steel scrap from K30 and **K31**. **K31** is responsible for sorting - always with a **lock**, delivery from other areas, generally Friday from 3.00 pm.
- Container 7 Plastic sprue and non-separate regrind from **K44**. Responsible that no foreign parts **K44** - always with **lock**.
- Container 8 Contaminated plastic containers of pastes and inks that cannot be returned via RIK must be placed in this container to save as much space as possible. Responsible **K40**.
- Container 9 Wood waste, e.g. old pallets, packaging boxes and wood wool.



Mine waste **Filled mine waste** or overstocked mines from the production area, for example from QS or LB, must be disposed of in drums so that they are sealed outside the K40 department (disposal site or garage). In the case of **empty mine waste**, the **stainless steel tubes from K40** must be separated from the brass or nickel-plated brass shafts. The storage location is the garage.

Titanium chips Barrel in the basement BA2 UG.

Operational waste management of special substances at SCHMIDT Technology – II

ASF, IBC or ASP containers are separately labelled on the E.PI. for liquid waste materials hazardous to water. The following media may only be filled by the departments marked in bold.

- **IBC 1**

K30 Emulsion and grinding water twice a year when changing the medium.

K31 Emulsion machining centres.

It should be noted that the emulsion used is processed twice a year and only small quantities may be disposed of.

- **IBC 2**

Used oil mixed from **K41** and K42. KW cleaning medium from K41 is also disposed of here.

- **ASF 3**

Solvents from lead cleaning area **K43** and K46 and **nitro thinner** from painting area K31.

- **ASP 4**

Paint sludge **K31** and various printing colours from K40. Filter mats made from K31.

- **ASP 5**

Blasting material (glass beads) from the blasting system



- **Safetainer**

CKW **K42**. May only be stored in the **special container Safetainer** as new and used goods. Filling and emptying may only be carried out using the vapour recovery method at the system in K42.

If departments other than those listed above have to dispose of these media, they must consult with the responsible department or HM about the filling time. The department listed in the 'Responsible at ST' column is generally responsible.

Waste for recovery or disposal (as at the end of 2022)

Lfd. Nr.	Abfallart	Abf.Schl.Nr.	zur Beseitig.	zur Verwert.	Sammelbehälter	Sammelort	Leerungsintervall	zuständig bei ST	Entsorger extern
1	andere Basen	60205*	X		IBC 1000	K30	auf Abruf	K30	Remondis
2	Farb- u. Lackabfälle, die organische oder andere gefährl. Stoffe enthalten	80111*	X		ASP Gitterbox	EL/Rampe	auf Abruf	HM	Remondis Kaspar
3	halogenfreie Bearbeitungs-Emulsion	120109*	X		IBC 1000	Containerplatz	auf Abruf	HM	Remondis
4	Strahlmittelabfälle	120117	X		HST 800?	Containerplatz	auf Abruf	K45	Kaspar
5	nichtchlor. Maschinenöle	130205*	X		IBC 1000	Containerplatz	auf Abruf	HM	Remondis
6	Schlämme aus Öl-/Wasser-abscheidern	130502	X		Sickergrube	Hof	auf Abruf	HM	Renz
7	Schlämme aus Einlaufschächten	130503	X		Sickergrube	Hof	auf Abruf	HM	Renz
8	andere Lösemittel u. Gemische	140603*	X		ASF 800	Containerplatz	auf Abruf	HM	Remondis
9	Verpackungen, die Rückstände gefährl. Stoffe enthalten	150110*	X		Container 10 cbm	Containerplatz	auf Abruf	HM	Kaspar
10	ölverunrein. Betriebsmitt.	150202*	X		Container 5 cbm	Containerplatz	auf Abruf	HM	Kaspar
11	Laborchemikalien, organisch	160508*	X		Gitterbox	EL/Rampe	2x jährlich	HM	Remondis
12	Monitore	200136	X		Palette	Keller BA2 UG	auf Abruf	HM	Witz
13	Kunststoff-Abfälle	200139		X	Container 10 cbm	Containerplatz	auf Abruf	K44	Hezel
14	Archiv-Entsorgung			X	Sicherheitsbehälter	Flur UG Verwltg.	auf Abruf	HM	Hurt
15	Biomüll			X	Biotonne 240 l	Containerplatz	wöchentlich	HM	Kaspar
16	Grüngut			X	Container (Anforder.)	Hof	auf Abruf	HM	Kaspar
17	Holz			X	Container 10 cbm	Containerplatz	auf Abruf	HM	Kaspar
18	Kunststoff-Säcke			X	Container 10 cbm	Containerplatz	auf Abruf	HM	Kaspar
19	Papier			X	Manuelle Papierpresse	EL	auf Abruf	EL	Kaspar
20	Restmüll			X	Container - 10 cbm	Containerplatz	auf Abruf	HM	Kaspar
21	Schrott			X	Container - 7 cbm	Containerplatz	auf Abruf	HM	Kaspar
22	Styropor			X	Säcke	Flur UG BA5 / Container	auf Abruf	HM	Kaspar
23	gefüllte Minen		X		Fass 200 l	Garage	auf Abruf	EL	Witz
24	Mietputztücher			X	Tonne im Tausch	Abteilungen(K31, K41, K42)	4-wöchentlich	PF	Initial

Lfd. Nr.	Abfallart	Abf.Schl.Nr.	zur Beseitig.	zur Verwert.	Sammelbehälter	Sammelort	Leerungsintervall	zuständig bei ST	Entsorger extern
25	Glas/Einwegflaschen			X	Schäfer Kisten	Flur UG BA5	auf Abruf	WF	öfffl. Container
26	Späne (Ms-,Stahl)			X	Fass 200 l	Garage	auf Abruf	EL	Witz
27	Ms-Stumpfen, Rohre			X	Fass 200 l	Garage	auf Abruf	EL	Witz
28	Alu-Späne/ -Schrott			X	Fass 200 l	Garage	auf Abruf	EL	Witz
29	Edelstahl-schrott			X	Fass 200 l	Garage	auf Abruf	EL	Witz
30	Kupfer, verzinkt			X	Fass 200 l	Garage	auf Abruf	EL	Witz
31	Folie			X	PVC-Säcke	Flur UG BA5 / Container	auf Abruf	HM	Kaspar
32	Holzwohle			X	Holz-Container	Containerplatz	auf Abruf	HM	Kaspar
33	Batterien			X	Karton	WZA/PF	auf Abruf	EL	Nutz
34	Ölfiler, Erodierfilter		X		Schäfer Kisten	BA2 UG / K30	auf Abruf	K30/HM	Kaspar
35	Edelstahlspäne			X	Container 5 cbm	Containerplatz	auf Abruf	K41	Witz
36	Titanspäne			x	Fass 200 l	Keller BA2 UG	Auf Abruf	K41	Witz / Metallverwertungsgesellschaft Gottenstein

(*) gefährliche Abfallarten im Sinne des § 41 des Kreislaufwirtschafts- und Abfallgesetzes

Production processes at SCHMIDT Technology harmonised with the environment

Plastic injection moulding



All plastic parts required in production are manufactured in our own plastic injection moulding shop. Only recyclable thermoplastics such as PP, POM or ABS are processed. The water required to temper the moulds is permanently reused in a separate water circulation system.

Appropriate design of the individual parts and their moulds enables the cast-on material to be reused. Where this is not possible, the non-reusable reclaimed material is ground by type and sold to recyclers. This system has been running successfully for a number of years now, as the percentage of returned material is steadily increasing. The employees in the plastic injection moulding plant have pleasant working conditions all

year round thanks to the use of ventilation technology.

The machinery has been systematically modernised since 2011, with the latest acquisition in 2023 (see photo). This new generation of machines, with new control systems, enables more precise temperature control of the granulate to be melted. The parts can therefore be produced more accurately and with greater process reliability. This leads to a reduction in rejects. Furthermore, these machines have improved mould safety devices and can process higher quality plastics above 400 °C. Energy consumption is also significantly lower and the smoother running reduces the noise level in the plastic injection moulding shop. The temperature control units have also been completely converted from oil to water cooling.

A new 'ALS' Arburg control system was installed in 2020. The system is networked with 10 injection moulding machines and allows precise planning of machine, tool, material and orders (from SAP). This will enable us to achieve improvements in material and machine utilisation in the future. In addition, better piece count recording directly from the machine is possible, so that the manual piece count report can be made automatically in the production orders (SAP). The ALS system will be expanded by a further 10 systems in 2023 in order to integrate the new replacement machines.

Automatic lathes

Due to the requirements for the production of high-quality decorative turned parts for complete writing instruments, the machine composition has changed significantly. The proportion of CNC machines is now > 90 %. The proportion of cam-controlled machines is insignificant. This shift means that the CNC machines produce around the clock, 7 days a week.

In consultation with customers, a number of products were switched from leaded brass to lead-free brass and stainless steel.

As part of the expansion of BA7 (construction phase 7), the bar turning shop was completely equipped with a new centralised air extraction system. By separating the machine and room extraction, the extraction performance can be regulated more precisely and individually. The centralised electrostatic separation of the oil in the drain leads to reduced pollutant emissions into the environment. Centralised heat recovery ensures considerable energy savings.

Writing tip production

In the climate-controlled tip production of writing tips for paste and ink refill pens, only high-quality stainless steel tips are manufactured on special machines. In order to separate the specific cutting oils from the finished tips, a corresponding tip-friendly separation process has been developed. Firstly, the expensive separated cutting oil is immediately reused and secondly, the oil input into the cleaning system is reduced. This means longer availability of the cleaning system and a considerable reduction in the oily cleaning sump. The chip separation process used with the subsequent filtering process of the oil also leads to full reusability of the cutting oil without impairing the service life. The consumption of these expensive oils has been considerably reduced as a result. The cutting oil is cooled and tempered by a closed, centralised water circulation system in order to achieve and maintain the required precision for writing tips in the µm range.



Basic machine production

In the machining sector of machine and tool production, the service life of the emulsions has been extended fourfold through recycling processes. The air filters used on the machining centers have also contributed to this. The emulsion is recirculated via the fully clad working area of the CNC machine with a corresponding filter. The remaining filtered exhaust air also ensures better room air in the department. Targeted monitoring of the emulsions and the monitored recycling process with appropriate preventive skin protection using a skin protection plan ensure that the emulsion is safe for employees and the environment. A new processing center with logistics system was put into operation in 2017 (see photo). In 2023, a new Heller machining center with Erowa Automation will be installed. This system will replace 2 old machining centers (MC12 and MC16). This will save energy and optimize running times.



Cleaning systems



In the field of writing tip cleaning, the requirements for a grease-free surface and residue-free internal geometry have grown steadily. In order to avoid having to run the cleaning processes with CHC cleaning medium even more intensively, which would undoubtedly have increased medium consumption, pre-cleaning processes were specifically added upstream of the actual degreasing process. This process optimization was introduced in 2004 - 2008. As a result, the amount of CKW-purchased was drastically reduced, despite significantly higher peak production.

In 2011, a new CKW-cleaning system was procured and installed for tip cleaning. This is a full-vacuum cleaning system with the advantage of very gentle steam degreasing of the parts. This cleaning system has significantly reduced the need for CKWs and no CKWs are released into the environment.

When finishing housing parts for complete writing instruments, the requirements for a better degree of degreasing have also increased. To achieve this, a cleaning and degreasing machine with the cleaning medium "modified alcohol" was initially installed. The machine with the cleaning medium hydrocarbon (HC) was replaced in 2013 by a new cleaning machine with a closed system.

Tools in the turning shop and parts after honing in the Machines division are cleaned with brush washing tables using a VOC-free cleaning medium. VOC emissions were further reduced with its introduction. Thanks to new tools, honing was generally no longer necessary for a large number of parts.

The consumption of cleaning media is being further reduced by continuously improving the cleaning processes.

Packaging and shipping

In order to transport SCHMIDT's products and goods to our customers safely and protected from external influences, the products are mainly packed in cardboard boxes made for this purpose. These cardboard boxes have a significant proportion of waste paper or are made from recycled material.

By taking back the transport and outer packaging from our main customers, cardboard boxes are sometimes reused as reusable packaging. The same applies to the remaining shipping packaging (cardboard blanks, pallets, various packaging materials such as chips, bubble wrap, etc.).

Most of the packaging material is obtained from delivered consignments. The incoming goods department sorts out good quality cushioning material and passes it on to the packing department for further use. If outer packaging cannot be put into circulation due to qualitative or visual defects, it is recycled by pressing to save space.

As we also place filled consumer packaging on the market for the first time in the writing instruments sector, we are obliged as a manufacturer to take back the packaging in accordance with the BMU / 5th amendment to the Packaging Ordinance of 01.01.2009. To ensure that the product packaging we supply is licensed, we have joined Landbell AG. Landbell AG, based in Mainz, is one of 10 recognized providers of the dual system.

As a rule, mesh box pallets, disposable pallets and reusable pallets are used to transport shipments to customers.

Recyclable modular, standardized packaging such as foam pallets, pegboards and crates are also predominantly used for outsourcing upstream or downstream work on a product from production (extended workbench).

Storage areas

Bottlenecks in the production departments, due to a lack of production space, were the main reasons why we relocated the machine parts warehouse, and later the incoming goods warehouse, to high-density high-bay warehouses, so-called "shuttles", from 2000 onwards.

Extensive construction work was required to build the racking systems, which are up to 14 m high and can carry loads of up to 40 tons. After commissioning the first 3 shuttles in the machine warehouse, we were able to use a total of 400 m² of racking space on a floor area of 14 m², which can be automatically retrieved and stored. Today, we have stored approx. 3,200 different individual parts in this storage area on this 14 m² floor space.

With six additional "shuttles" for the incoming goods warehouse, further storage areas were also converted into production space in 2001. Such systems are also used in an assembly department and in the interim storage area to save space when storing individual and finished parts.

In addition to the space gained, the improved ergonomic working method for warehouse employees is particularly noteworthy. Storage and retrieval is carried out at the ideal ergonomic working height or, in some cases, with a supporting crane system or, in the case of pallets, with a forklift.

The introduction of "Kan-Ban" for certain product segments in the writing instruments area has significantly reduced the stock in circulation and therefore also the storage space required. This reduction will continue in 2014 and 2015 as part of the internal restructuring and expansion of the Kan-Ban principle.

Heating system

The previous heating system, partly from the 1970s, was completely replaced in 2007 at great expense. When designing the completely new burner systems in a spatially new heating system, the current extension of construction phase 7 and corresponding reserves for the future were also taken into account. In addition to the latest burner technology, control and monitoring by the building management system ensures environmentally friendly consumption of the heating oil used.

Despite the expansion of the production area by 33% to 10,800 m² with BA7 2009, heating oil consumption has not increased on average. The design of the new heating system will make it possible to switch to alternative fuels in the future if necessary.

Completion of construction phase 7

One focus of the BA7 construction project was the redesign of the ventilation system with heat recovery. This was put into operation in 2009. The refurbishment of the ventilation system in the vending machine factory in 2010 was also carried out according to this concept.

At the same time, the new ventilation center was designed to be large enough to accommodate almost the entire hall ventilation system, also with heat recovery, as part of the planned refurbishment.

This investment concept, which is relatively expensive in the medium term, is a building block for long-term energy savings at SCHMIDT Technology.



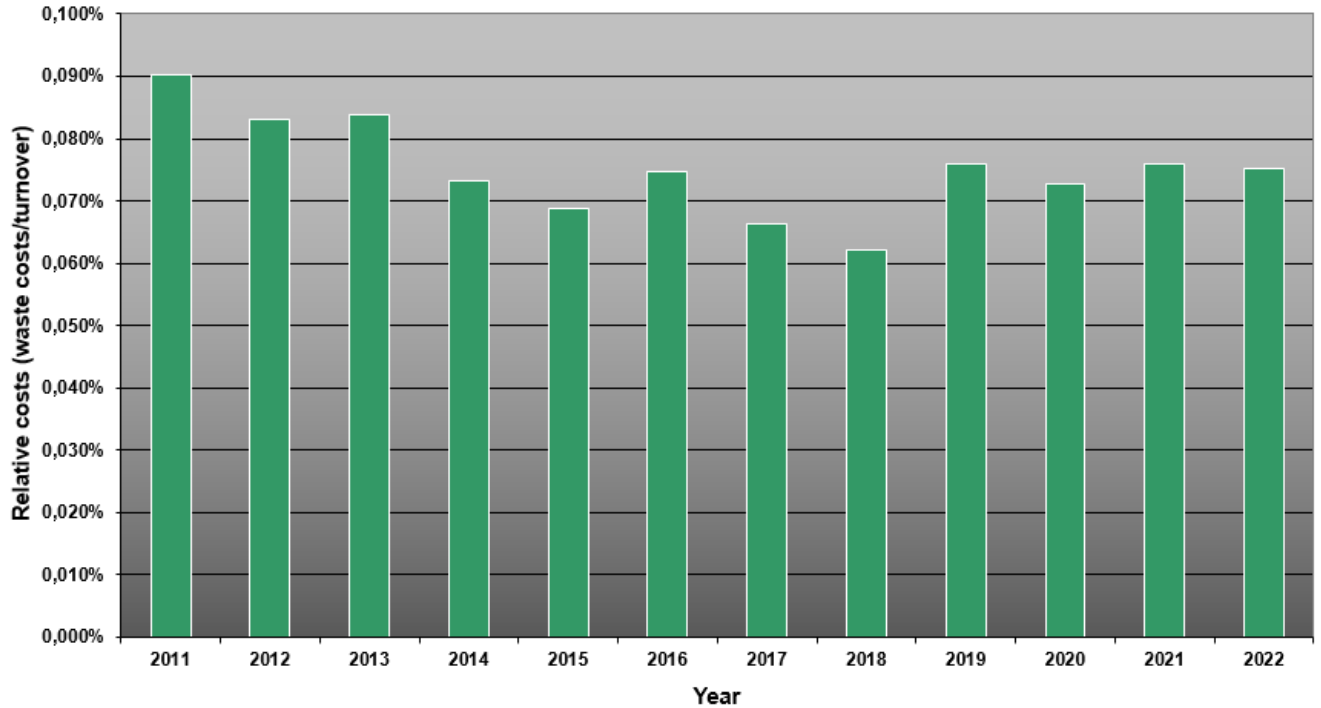
Building management system

The outdated building management system from Sauter is no longer supported and was completely replaced in 2021 - 2023 by a new control system from Delos together with our partner Fiehn.

Energy optimization can now be carried out with the local partner. In particular, this includes the heating, air conditioning and ventilation control system, which is now dynamically controlled by demand-based time switches and temperature profiles.

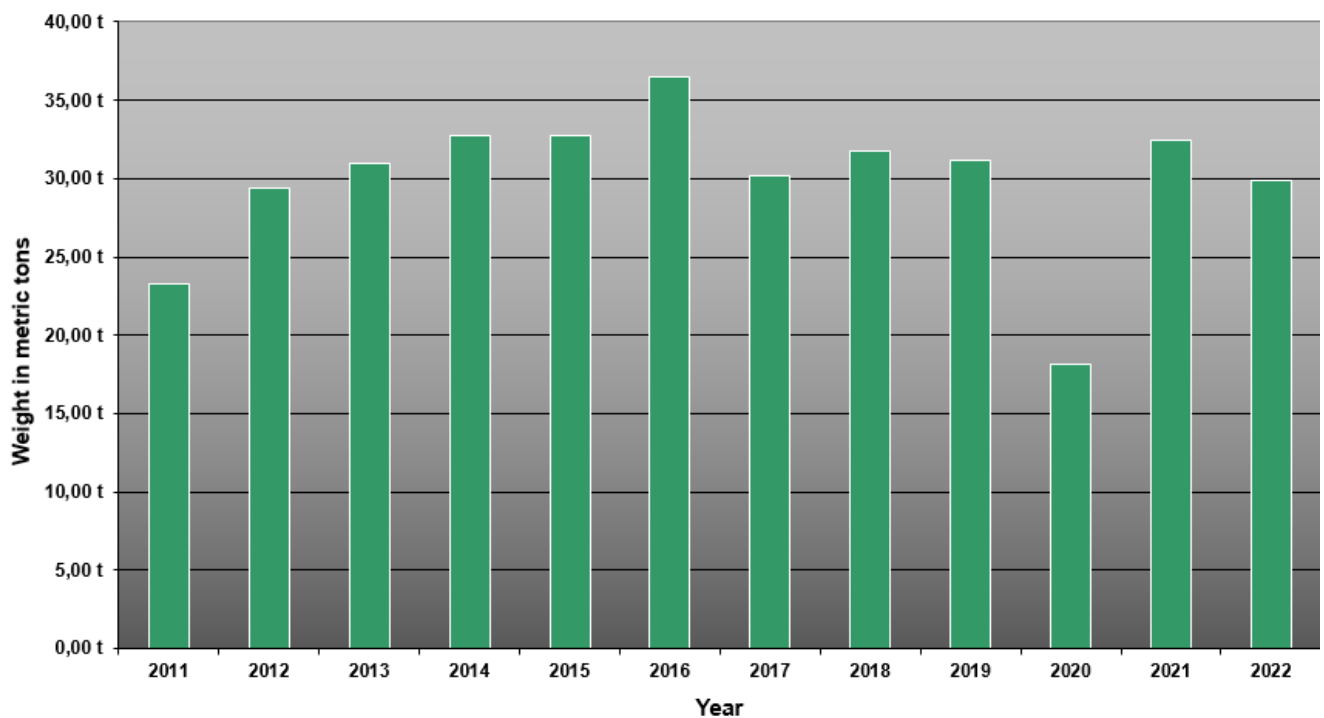
Cost development of waste for recycling and disposal

Relative cost development of waste (reference turn over)



Plastic waste for recycling by weight

Plastic waste for recycling



Closing words

This environmental statement is available as a PDF document and can be distributed to interested parties as an electronic document. In order to conserve resources, it should only be printed out if absolutely necessary.

It was created with the grateful help of numerous employees, in particular the production management, the janitor, the waste management officer, the advertising department and the head of quality management.

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