



KURZ and the environment





Preface

Dear reader,

We take environmental protection into consideration from development to purchasing, and from production to waste disposal. Energy and materials are used sparingly. Waste is minimized, and recycled wherever possible. We make no distinctions between our plants in Germany, Switzerland, the USA, Malaysia, and China. The environmental aspects are the same everywhere, and our strategies and measures are identical throughout the world. But that's not enough for us.

Scarcity of resources, rising energy costs, and climate change are driving us to make an even more sustainable commitment to these key issues. Our goal is to take no more from Mother Nature than she can regenerate.

LEONHARD KURZ.

occupational safety:

Not only do we ensure a very high level of occupational safety and health for all employees, we optimize processes and procedures in order to constantly improve environmental performance.

Innovative product solutions: Our products provide solutions for the enhancement of surfaces. They are applied dry with lower overall energy input than with conventional procedures, and emit less greenhouse gases.

Sustainable development:

Potentially returning the carrier back into the cycle of materials, and utilizing technical and organizational opportunities to configure our processes and manufacturing methods even more efficiently, are challenges we eagerly and creatively take on.

Enjoy your reading.

Dally. Jeter Jung

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Outlook

KURZ has made enormous efforts in the areas of sustainable environmental protection, conservation of natural resources, and recycling of waste and scrap.

This brochure provides information on the most important measures taken by

Worldwide adherence to high standards for environmental protection and



Company profile

Top quality coating technologies

KURZ is the global market leader in thin-film technology and distributes a premium range of products, consisting of foils and machines for finishing, decorating and marking products.

In order to be successful in an increasingly global economy, companies must understand and realize the concept of urbanization. KURZ has more than 30 subsidiaries throughout the world, and an on-site service team in every country to stand by customers. True to the company principle: Think globally, act locally.

In addition to standard foils, KURZ also fabricates products specifically requested by its customers. Whether design and color, manufacture or purpose - customer specifications form the basis for experienced development engineers, while designers implement custom color requests and specifications.

Tradition and progress

Tradition and progress are not contradictory at KURZ, but rather company philosophy.

While boasting the expertise and experience stemming from its 100-plus-year history, KURZ sprints into the future with expanding product innovation. With a steady spirit of innovation, KURZ has grown into a major partner for business, government, and research in the fight against counterfeiting, as well as in printed electronics.

Consistently high standards

With over 100 years of experience, KURZ develops all applied process technologies itself. Even in production machines, our know-how has yielded high product consistency, at the same level worldwide. KURZ considers itself an all-round provider of perfect coating solutions. The efficient use of foil, tool, and machine is delivered right from the start. Training, installation, and maintenance are as much part of the scope of service as the development of specialized machines for specific needs.

KURZ Core Competencies

· Reliable quality management

Suitable foil fabrication

Best practice for all market requirements

- Most extensive processing spectrum
- · In-house development of coatings
- · Consistently secure production output with unvarying foil properties
- Worldwide service
- · Reliable global logistics concept · Well positioned round the world · Asia experts for over 40 years
- · Support team for application technology



These layers are transferred during the hot-stamping process:

Protective laver and chromophone laver (transparent synthetic resin lacquer) Metallization (super-purity aluminum, vaporization in high vacuum) Heat-sealing adhesive

Typical composition of a LUXOR®/ALUFIN® hot-stamping foil for the graphic industry

Surface decoration from KURZ

appealing



High-gloss metallic tones, glittering color effects, and artistic reliefs: KURZ coatings bathe products in a glamorous light.

functional





Technologies for today and tomorrow

- · Sustainability from ongoing development of machines, foils, and technologies
- · Grasp of trends by in-house design department
- · Our future print prospects: printed electronics and function





Environmentally Relevant Information about Stamping Foils

Stamping foils represent no hazardous materials due to the Ordinance on Hazardous Substances (11/2010). According to REACH they have to be classified as articles (1907/2006/EG) and therefore are not subject to registration. KURZ does not use any raw materials containing volatile, ozone depleting halogenated hydrocarbons, cadmium, lead, mercury or hexavalent chromium for the production of stamping foil.

The vast majority of our stamping foils fulfill the requirements of the various national and international regulations, taking into consideration their formulations, the specifications provided by raw material suppliers and their usage in their respective specialized applications.

Some examples are:

EU Packaging Directive 94/62/EC amended by (EU) 2018/852 and CONEG

- Restriction of Hazardous Substances Directive RoHS (2011/65/EU including the Commission delegated Directive (EU) 2015/863)
- Restriction on bromine compounds (2003/11/EC)
- · 2005/84/EC no phthalates
- · 2006/122/EC no perfluorooctane sulfonates
- · No CMR substances (materials that are carcinogenic, mutagenic or toxic for reproduction) that belong to the Category 1, 1A or 1B or to the hazard class Acute Toxicity (Category 1-3) according to the CLP Regulation (EC) No. 1272/2008 including its amending regulations
- None of the approval-requiring substances listed in Annex XIV of REACH in its version 06/2017
- · No substances depleting the ozone layer. Stamping foils of KURZ fulfill the requirements of the Regulation (EC) No. 1005/2009 and are not products as described in Article 17 (export) of this regulation
- · EuPIA's (European Printing Ink Association) raw materials exclusion list
- · In the automotive area, the requirements of the End-of-Life Vehicles Directive of 2002 (2000/53/EC), which requires the individual components to be stored in the IMDS system to ensure traceability during vehicle disposal
- · In the food sector (1935/2004/EC; 10/2011/EU) and the toy industry (2009/48/EC; EN71/3:2013), KURZ will provide assistance with external certifications for its materials upon request

Conflict minerals:

In regards to requirements stipulated in the Dodd-Frank Act (Section 1502 - 'Conflict Minerals'), KURZ continues to work with our suppliers to trace raw material content determining whether minerals from mines or uncertified melting plants located in conflict regions are utilized. No conflict minerals originating in the Democratic Republic of Congo and adjoining countries are used for the production of KURZ foils intentionally. KURZ requests our suppliers to supply written confirmation of steps taken to prove the origin of material contents classified as conflict minerals.



Titanium dioxide

What does the reclassification of titanium dioxide mean?

After lengthy discussions at EU level, the European Commission adopted the 14th adaptation of the CLP Regulation as Delegated Regulation (EU) 2020/217 on October 4, 2019, which was published in the Official Journal of the European Union on February 18, 2020. This Regulation entered into force on 9 March 2020 and must be implemented by 9 September 2021 at the latest.

The Regulation classifies titanium dioxide in powder form with at least 1 % particles of aerodynamic diameter \leq 10 µm as carcinogenic (suspect substance, category 2) and introduces additional EUH statements:

- containing titanium dioxide

Do KURZ foil products have to be labeled additionally?

The additional labeling according to EUH212 for mixtures containing ≥1% titanium dioxide particles, as required by the Regulation, is not applicable for our foil products, but only for solid or liquid mixtures (e.g. powder coatings, paints).

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· The classification applies only to pure titanium dioxide powder and to all powder products containing at least 1 % titanium dioxide in particle form or incorporated in particles with an aerodynamic diameter \leq 10 μ m in the mixture

· It does NOT apply to products, i.e. articles such as wallpaper, paper or foil products



EU Chemical Regulation REACH



Protection of human health and of the environment

LEONHARD KURZ Stiftung & Co. KG (June 2020)

Current status at Under EU Regulation 1907/2006 of 12/18/06 (REACH Reg.), our foils are classified as 'products' and thus not subject to registration. products (REACH / Art 33; > 0.1 % weight Safety data sheets are not required for our foils. For you as a customer, the duty to check you accordingly. whether specific requirements or limitations must be met on the raw material employed does not apply. Moreover, the foils (products) fulfill Article 67 of the REACH Reg., thereby meeting the limitation requirements under Annex XVII.

> As a downstream user, we use only raw materials and substances for our foils which, according to our suppliers, are subject to registration under Annex XIV of 13 June 2017. Neither do our foils contain any SVHC with more than 0.1 weight % on the list of candidates of 25 June 2020.

If changes to raw material or reclassification make it obligatory to inform on material in material liable to registration), we will inform

For our customers this means that no further action with regard to REACH is required in the intended use of our foils for the finishing of your products.

What is REACH? General information on REACH

The official purpose of REACH is to protect human health and the enput into circulation and use, do not negatively affect human health or vironment, while ensuring the free circulation of materials in the single the environment. Its provisions are based on the precautionary principle. market, and more competitiveness in the chemical industry so as to spur innovation. The European Chemicals Agency in Helsinki (ECHA) If the manufacturer has not complied with its registration requirements, monitors compliance with REACH. then the materials or formulations can no longer be marketed. Nor can users apply them.

REACH is based on the principle that manufacturers, importers, and downstream users must ensure that the materials they manufacture,

Who is affected?

Manufacturers - importers - downstream users

Who must register or have their materials authorized?

All manufacturers and importers within the EU, if: They produce or import substances containing an amount greater than >1 t/a (registration),

- · If substances are released under normal use (registration),
- · The material is designated in Annex 14 of the REACH Reg. and prod-

uct contains a concentration of > 0.1 percent by weight (registration).

- Downstream users are subject to a duty of information and inspection:
- · They must check the Safety Data Sheet (SDS) and implement the risk-management measures listed in it.
- · They must inform their suppliers of the specific purpose of the delivered material.
- They must create a corresponding SDS and present it to their customers for any proprietary preparations.

Recyclability of packaging finished with KURZ thin-film technology

What does recyclability mean?

Recyclability is the gradual individual suitability of packaging, or of a single product, to actually replace new goods of identical material in the post-use phase. In this context, 'actually' means that sorting and recycling structures exist at an industrial scale.

Is my packaging recyclable?

Important for recyclability are three main aspects:

- Substrate is plastic/paper/cardboard/glass product tested? /metal and is suited to material recycling
- be guaranteed.
- · Recycling path for collected material must exist (country-specific)

Does stamping foil interfere in the recycling process?

Stamping foil does not interfere in the recycling process, provided that it does not affect the sortability of packaging. Sortability describes the sensor-supported detection of the following materials in an industrial sorting facility: glass, plastic (except film fractions), metal, cartons for liquids and paper/paperboard/cardboard.

Where can I have the recyclability of my

· Sortability in an industrial recycling plant must Independent institutes can test the recyclability of packaging. By way of example, the company LEONHARD KURZ Stiftung & Co. KG had a PP bottle with silver hot-stamping foil tested for recyclability by an independent institute. It determined recyclability of 99.6%. For this example there are appropriate collection and recycling structures available in Germany, the Netherlands, Austria, the United Kingdom, and Norway.

Recommendations for new developments and reworking of product packaging

Before developing or reworking new packaging, the Design-for-Recycling guidelines (DfR), in particular, must be taken into account. There are evaluation catalogs and, for instance, the online tool RecyClass, which assists with the DfR.

DfR guidelines can also be derived from DIN EN 1343, RECOUP, CHI, EPBP and similar regulations.

Which materials interfere with recycling?

In order not to hinder the recycling process, no combinations of materials or substances must be included which interfere with the recycling process (e.g. non-water-soluble adhesives in combination with wet-strength labels on PP).





Sustainability

Are we, as a technology provider ecologically sustainable?

Sustainability is nothing new to KURZ

Sustainable handling of resources:

Our company fulfills the standards for quality, environmental responsibility, health management, and energy efficiency. As long ago as 50 years, our daily activities already included the issues of conservation of resources, energy saving, limiting the use of hazardous substances, and emission protection, long before government regulations such as the Immission Control Act and hazardous substances legislation came into effect. Since then, the company has steadily advanced its tradition of sustainability, as well as its focus, through innovative processes and by boosting energy efficiency. Nowadays CO₂ emissions also come under scrutiny: To cut our CO₂ company footprint we have set ambitious goals for the next five years at all our sites, e.g. for LKG 20 % based on the year 2018!

· We use only PET foils as a carrier for our decorative coatings. We look out for material strength, optimized for manufacturing and application processes - as thin as possible.

PET material itself is still largely manufactured . The high thermal efficiency of 95 % for our from petroleum. But there are initiatives for making PET out of renewable raw material, or using 100 % PET recycling material for foil manufacture. We are testing both options: there are currently no industrial-scale quantities on the market.

Foil scraps are outstanding for energy recycling. The high heating value allows for fueling specially equipped facilities which would normally use gas, oil, or coal. This also preserves resources.

Products recycled from PET foils or PET bottles can also be used in the production of new carrier foil. This improves material recycling and preserves valuable resources by using rPET.

- Recycling of stamping-foil scraps is also possible. Here too, we are working on methods for unlocking new plastic applications for the material.
- The lacquer raw materials used are non-toxic and meet regulations for compliance with the warranted foil properties.

· We work using solvent-based lacquer systems in the manufacture of extremely thin decorative coatings. This allows us to accomplish drying processes in film lamination in closed facilities with very little energy input. The required heat of evaporation of the solvents is approx. five times less than that of water. The required energy input is also proportionately less, and the process more environmentally friendly.

· Some of the solvents can be recovered and reused in the process. The solvents we use now are up to 18% regenerated or from organic source.

- regenerative exhaust-air cleaning plant allows a large part of the energy content of the solvents to be returned to the drving process of our foil production. The difference is compensated with latest-generation boiler plants heated with natural gas at approx. 94 %. By the way, these days there is a bit of biogas in natural gas.
- · In the electrical energy supply for stamping-foil manufacture, sustainability is a priority as well. We use electrical energy from renewable recources. We generate a part ourselves with photovoltaic technology; for power supply we have long-term supply contracts with 100% renewable energy!
- · We can thus manufacture 1 m² LUXOR® cold-stamping foil - from an energy-input perspective - with approx. 15 W/m². This means that by applying surplus regenerative heat in the manufacturing process, by generating on-site solar-energy and purchasing green electricity, our environment is impacted with only 1.5 g CO₂ equivalent/m² for this stamping foil.

The Product

The four elements of sustainability



Application of KURZ transfer layer

Stamping itself is inert and does not consist of raw materials that are of particular concern for the environment (SVHC). The decorative coatings for LUXOR® products are demonstrably deinkable. Our high-gloss coatings (20 its path to the end. Disposal partners must solvents, are 250 to 1,000 times thinner than aluminum foil (coating thickness 4 µm to 20 µm), and are converted into inert aluminum oxide in common paper-treatment processes.

Nor is the recyclability of packaging negatively affected in suitable foil application. We have also engaged in research in this area.

The stamping process manages to apply decorative coatings with a minimum of energy, and is an emission-free process.

Waste handling is also important with regard to sustainability.

The top priority is waste prevention. But wherever waste is unavoidable, we have sought sensible ways to recycle it. Initiatives for recycling. Thanks to the polyester substrate's reducing waste arising are an important component of our process development. Examples mass fraction is very well suited to producing of implemented measures include optimization of foil widths, use of thin substrate wherever possible, reduction of coating weight, and use

replaces fossil energy carriers like coal and fuel of polyester off-specification batches for press oil. We recommend that our customers also proofs. Any unavoidable waste that must be energy recycle foil waste from the stamping discarded is recycled in an environmentally sound and meaningful way. As a manufacturer. process. Our stamping foil waste meets the we feel responsible for the fate of our waste. comparatively very stringent limit values of We value the capability to retrace and manage most fuel surrogate plants (chlorine, arsenic, etc.). nm to 25 nm), high-vacuum metalized without thus be authorized, and processing techniques must be viable and sensible from an energy Sustainability and emissions standpoint. As a basic principle, we deliver waste only to facilities that have been previ-In order to comply with the stringent requireously assessed and audited by our qualified ments of the Federal Immission Control Act, it is and has always been a challenge to personnel.

Energy generation from foil waste

The stamping-foil waste generated by us and our customers involves a polyester foil with a thin layer of dry coating that is used as a substrate. In other words, a quite common and non-hazardous trade refuse containing no dangerous or toxic substances whatsoever. It could be handled as normal household waste, but that's not enough for us: A large part of our stamping foil waste is used for energy high fuel value of approx. 34,000 kJ/kg, its fuel fuel surrogates. The fuel surrogates are primarily used in the cement industry, but also in power stations. This replaces and sustainably

1. No PET foil on the product, max. 1 % decoration weight 2. Problem-free recycling of hot- and cold-stamped paper and 4. No aluminum foil, just environmentally-friendly high-gloss metal

8. No waste water generated in coating process 9. 100% exhaust air evacuation with energy return – worldwide 10. Best Practice in stamping-foil manufacture generates the

13. Initial material recycling concepts and initiatives

significantly beat it with our modern systems engineering. We are below the legally mandated values by up to 85 %. All process steps are examined and optimized on an ongoing basis. Application of the stamping foil is itself an emission-free process!

Environmental management without borders

As a worldwide manufacturer of stamping foil, we are aware of our great responsibility toward mankind and the environment, and work continuously to minimize our production processes. Beyond national, cultural, and legal borders, we set the same high environmental standards and goals for all our production sites. There are core specifications and environmental directives, such as in the selection of raw material and handling, issued by corporate management and valid throughout the world. In order to ensure compliance with these standards, to reach these goals and to target continuous improvement, an environmental management system has been set up at each site, and an environmental officer appointed who reports directly to management.

> Our EHS model applies to all employees of the KURZ Group. It forms the basis of the environmental, energy, and occupational policies at our subsidiaries throughout the world:

We encourage our staff to be engaged and take competent and responsible environmental and safety-conscious actions, and to make healthy lifestyle decisions.

We provide safe work places. Conditions that are hazardous to health are determined and the hazards eliminated or, at least, minimized wherever possible.

We take precautions to reduce the environmental effects of our operations, and to provide a healthy and safe working environment for our employees.

We focus on economical use of resources and energy, in production as well as in product development and plant layout.

Emissions

(optimization of thermal (compliance with limit exhaust air purification systems [TA], minimized surements, comparison use of gas, worldwide service team; energy efficiency research at sites in China, Sulzbach-Rosenberg, and Fuerth, Germany)

Energy

site China





A PV facility was set up and started at our production site KST (China). It gener-ates 900.000 kWh electricity per year, most of it for own consumption.

Gas consumption OVD in kWh



TAACCO GAS

PV system

100

80

40

20

2015

site Switzerland

At the beginning of 2012 the existing thermalregenerative waste-air treatment plant was replaced with a new and more modern one. Additional tweaking of the production process has further reduced gas consumption significantly.

site Sulzbach-Rosenberg

A Photo Voltaic (PV) system with 205.2 kWp is also being installed at the Sulzbach-Rosenberg plant, which should produce approx. 215.000 kWh annuallv.

Increase in the regenerative amount of energy in thermal post-combustion TA 105 in %



2016

2017

Thanks to the starting of a CO-quided furnace-chamber temperature regulator in December 2016, energy recovery was increased by

site Fuerth

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Commitment in numbers

Ongoing, environmentally-relevant optimizations affect the following areas in particular:

values, taking meaacross countries)

Waste

(measures for reducing quantities via brisk information exchange, recycling instead of disposal)

Minimization of emergencies



Thermal energy demands in %



Specific electricty consumption in %



New lacquer-mixing cente



site Doeheln

In the spring of 2014 at the site in Doebeln, the existing post-combustion system (TNV) was replaced with a newer and more modern TRA. The higher efficiency of this system led to the lowering of CO, equivalent value of total gas consumption reduced by approx. 37 %.

site Malavsia

The efficiency of the post-combustion system and the loading of exhaust air with solvent were increased. This makes it possible to not only run the mount of energy regenerative post-combustion from heat recovery system autothermically, but also to cover the thermal energy needed for the foil production process to over 90 % with surplus energy from clean air heat recovery.

site Sulzbach-Rosenberg

Via programs for boosting energy efficiency, the specific electricity consumption has been cut by almost 20% since 2014.The following efficiency measures are listed as examples:

- Reduction of compressed-air needs by replacing inefficient pneumatic drives
- Conversion from UV high pressure lamps to UV-LED lamps · LED room lighting and lighting
- concepts

site USA

In the new lacquer production area at the KTP/USA plant, exhaust air is captured as need ed in the individual mixing and preparation cabins. This not only improves the occupational safety of employees, but also cuts energy consumption and nissions

Certificates

The effectiveness of our management systems is tested and verified by external inspectors at our production sites in Germany, Switzerland, China, and Malaysia.

Our environmental management system has been certified under ISO 14001, our energy management system under ISO 50001, and our occupational safety management system under ISO 45001.







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UKAS

8000

KURZ PRODUCTION (M) SDN BHD LOT 22, SERI ISKANDAR TECHNOLOGY PARK, 32610 SERI ISKANDAR, PERAK DARUL RIDZUAN, MALAYSIA.

Bureau Veritas Certification Holding SAS – UK Branch certifies that the Management System of the above organisation has been audied and found to be in accordance with the requirements of the management system standards detailed below

ISO 14001:2015

Scope of certification

MANUFACTURE OF STAMPING FOILS.

17 June 2008 14 September 2018 25 August 2018 15 September 2018

Version : No. 1 Revision date: 14 September 2018

of the organization's Management System

dy address: 5th Floor, 66 Prescot Street, London, E1 8HG, United Kingdon sia) Sdn Bhd

CO₂ footprint

There are different approaches around the world for describing an overall Carbon or CO₂ footprint, as an ecobalance from 'cradle to grave'. The most comprehensive is ISO 14040/44. A research framework must first be established to define what is considered in this process. But it can be freely defined! For this reason, CO₂ footprints cannot always be directly compared. Other standards, such as ISO 14067, or in accordance with the GHG protocol, describe the carbon footprint of a product (CFP) without associated effects from the product life cycle, or a corporate carbon footprint from which, under certain circumstances, a CO₂ index for a product can be derived.

As for us, we have researched various foil groups under the ecobalance standard CO₂ value. Our research framework was laid out to capture the manufacture of raw materials as the beginning of the product cycle, to the manufacture of the different stamping-foil types and transport logistics, through to the processing of the foil by customers.

This yields better comparability than alternative processes. If only the manufacture of the stamping foils was taken into consideration and not their processing, it might be lost on readers that, on the one hand, a simple application process accompanies the environmentally-friendly and elaborate manufacture of stamping foil.

On the other hand, the finishing of customer product surfaces with galvanic processes or complicated lacquer applications is larger in scale and thereby produces considerably more CO_2 .

High-gloss surfaces can be achieved not just with stamping foils, but by applying metallic lacquers, and alternatively with galvanic coating.

> Us prc CC Me Ch Pig

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A comparison of alternative processing options for the application of 1 m^2 of enhanced surface leads to the following assessment:

Using stamping foil instead of classic enhancement processes for surface decoration improves your CO, balance by approx:

Metallized surfaces (e.g. ALUFIN®)	50 %
Chrome plated design	95 %
Pigmented surfaces (e.g. COLORIT®)	80 %
Plastic surfaces enhanced with IMD	70 %

Energy management at the company

applies to energy consumption. We are working toward the systematic optimization of energy use on an ongoing basis, from energy purchase through to consumption. It is not only an effective instrument for lowering costs and thereby boosting competitive capacity, but also helps conserve resources and cut CO_2 emissions.

Intelligent, sustainable action and economic activity at KURZ also

To implement this undertaking, an energy management system under ISO 50001 was integrated into our existing environmental management system in 2014. Within the context of energy management, a cross-departmental energy team identifies potential energy savings and continuously sets new goals and measures for boosting efficiency. In order to sustainably reduce yearly specific energy consumption, we have set the following strategic goals to meet by 2020:

Site	Electricity [kWh/a]	Heat [kWh/a]
Fuerth	-980,000	-3,280,000
Sulzbach-Rosenberg	-2,025,000	-10,765,000
Doebeln	-267,500	-923,000

(the figures refer to output for base year 2014)

To reach these goals, we work continuously on efficiency-boosting measures, which also helps reduce specific energy needs.

By using an energy-consumption recording system and comprehensive energy-consumption analyses, we have already been able to undertake a comprehensive energetic evaluation of our sites in Germany allowing us, among other things, to identify our primary energy consumers and to identify other efficient and viable energy-saving measures, despite our good initial starting point.

A major part of our energy consumption involves the burning of solvent-based exhaust air, which is why the energy efficiency of post-combustion systems is a major focus with us. We have carried out many optimization measures in this area. By replacing an inefficient system or by increasing the effectiveness of others, we have boosted efficiency even more and further cut the use of gas. Moreover, at some post-combustion systems at the plants in Fuerth and Sulzbach-Rosenberg, more regenerative energy was recovered. The increased heat recovery allows us to reduce the workload for the furnaces and also significantly lower their gas needs.

At our plant in Sulzbach-Rosenberg the use of natural gas related to output has been cut by almost 20 % since 2014.





Increasing heat recovery at three post-combustion plants







Heat coefficient Sulzbach-Rosenberg



Other measures for reducing specific energy use include:

- · increasing waste heat recovery
- \cdot optimization of process steps
- \cdot lighting management
- \cdot implementation of energy efficient drives
- \cdot replacement of inefficient consumers
- \cdot implementation of CHP systems

In addition to increasing energy efficiency, which is accompanied by a reduction of CO_2 emissions, KURZ aims to increase the proportion of renewable energies in its energy needs.

Selecting a provider of sustainable energy who currently supplies 100 % renewable energy at our sites in Fuerth and Sulzbach-Rosenberg is as much a matter of course as increasing our own generation of renewable energies, for instance, at large-scale PV facilities at our production sites throughout the world.

Outlook

The increasing demand for raw materials, and the steep price increases in commodity markets worldwide are cause for concern at many companies. If raw material supplies are at risk, the entire value chain can be affected. To make matters worse, industry has till now had to absorb a large part of raw material price hikes itself and could not pass them on. Despite corporate efforts, raw material prices are becoming a risk to the economy. In the long term, there is no doubt energy prices will rise. For industry and compared

In the long term, there is no doubt energy prices will rise. For industry and compared internationally, high power costs pose an increasing threat to competitiveness because for one thing, they increase

The KURZ Group



KURZ worldwide

The KURZ Group is an international leader in thin-film technology and supplies products for surface finishing and decoration. With over 5,500 employees at more than 30 sites worldwide, KURZ has an international presence and manufactures under uniform quality and environmental standards in Europe, Asia and the USA. Thanks to KURZ's many years of experience and the constant expansion of our portfolio, we can offer our customers a wide range of products – and all from one source. A global network of subsidiaries, representatives and sales offices ensures short paths and individual, on-site consulting.

Germany

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Brazil/São Paulo KURZ do BRASIL www.kurz.com.br

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Fields of expertise

KURZ is always investing in new technologies. KURZ subsidiaries develop innovative solutions for functional integrations into surfaces as well as products for labeling and counterfeit protection along with the corresponding software. A comprehensive range of stamping presses and stamping tools rounds off the versatile KURZ product portfolio. Furthermore, KURZ subsidiaries use their expertise to provide future-oriented, custom-made complete solutions including project consultancy and machine and tool technology. Baier GmbH & Co. KG www.baier-praegetechnik.de

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