
Mitsubishi HiTec Paper
Enthusiasm.

Our relationship with paper

Coated speciality papers – That is our passion. Thermal paper, inkjet paper, carbonless paper, label paper or barrier paper: we offer a full range of first class coated speciality papers for many applications and printing technologies, all over the world from a single source.

Our products meet the highest technological standards and are truly high-tech papers. They combine the know-how of experienced papermakers with excellent coating technology and professional converting. The base papers for our speciality papers are produced in-house. This means the coatings and the base papers are quite literally made for each other.

GLOBAL SALES NETWORK

As part of the international Mitsubishi Paper Mills Group, we benefit from collaboration with the prestigious R & D laboratories of our Japanese parent company, Mitsubishi Paper Mills, whilst retaining the flexibility of a medium-sized enterprise. This is the basis for excellent product quality and great innovation.

Paper innovations from Mitsubishi HiTec Paper set standards for new trends and applications. It is no coincidence that we are among the world leaders in all of our product areas. In addition to our highly specialized, well-developed international sales network, our professional technical service is also available to customers all over the world.
State-of-the-art coating technology: CM 3 Bielefeld mill
Quality base paper is the foundation. Incomparable added value is created by excellent coating. This is our passion: First class HiTec Paper.
Competence.

Our criteria for success

The craft of papermaking has a long tradition all over the world. In Japan the first paper was produced more than 1,400 years ago and the first German paper mill was founded in the fifteenth century. With its corporate headquarters in Tokyo, seven production and three research centres in Japan and further facilities in China and Germany, Mitsubishi Paper Mills Group is known internationally for outstanding product quality and leading innovation.

Mitsubishi HiTec Paper in Germany is part of the Mitsubishi Paper Mills Group’s global success story. Our two locations, Bielefeld in Westphalia and Flensburg in Schleswig Holstein, both enjoy a long papermaking tradition: in Bielefeld paper has been manufactured for more than two hundred years and in Flensburg the roots of our mill can be traced back over three centuries.

HIGH-TECH MILLS
Today, both locations are truly high-tech. In Bielefeld and Flensburg we produce more paper than ever. We have a total available capacity of 185,000 t per year for the coating of speciality papers – and six different coating technologies:

› Curtain coater
› Blade coater
› Rod coater
› Cast coater
› Film and size press
› Air knife

Every day our employees strive to supply first-class speciality papers and individual solutions. We are in continuous dialogue with our customers and OEMs all over the world, developing customized solutions for every application.

In the in-house Mitsubishi Application Centre for Digital Imaging we test our inkjet media on all major desktop and wide format printers. In order to achieve our targets and to ensure consistent market-leading quality, print results are analyzed using the latest instruments.

As professionals we support our customers from the first discussion through to the required speciality paper and its application. We do not stop until our customers are completely satisfied. We have highly qualified experts to answer all printing and processing technology questions: a skilled team made up of trained printers is available to our customers around the world to answer any questions. This also contributes to our success.

**FACTS (2017)**

**LOCATIONS:** Bielefeld  
Flensburg

**TOTAL CAPACITY:** 185,000 tonnes p.a.

**WORKFORCE:** 714

**SHAREHOLDERS:** Mitsubishi Paper Holding (Europe): 81.6 %  
Mitsubishi Corporation: 18.4 %

**TURNOVER:** € 291 M

**EXPORT RATIO:** 80 %
High Performance.

Location: Bielefeld

Paper has been manufactured at our Bielefeld mill close to the Teutoburg Forest in East Westphalia since 1799. At the end of the 1940s the future potential of coating technology was recognised and this led to investments in large and above all high-performance systems. This was then followed by the construction of a multi-stage, mechanical chemical biological wastewater treatment plant and the on-site construction of an energy-efficient gas and steam turbine power plant (joint contracting with Stadtwerke Bielefeld). These decisions characterise the mill today: responsibility and high performance are our standard, now and in the future.

PAPER MACHINES

PM 1
› Type: Fourdrinier paper machine
› Working width: 2.90 m
› On-line coater: film press

PM 3
› Type: twin-wire paper machine
› Working width: 5.80 m
› On-line coater: film press (for surface sizing and functional coating)

COATING MACHINES
(Working widths: 2.90 m)

CM 1

CM 2

CM 21
› for multiple coating and special products

CM 3
› Curtain coater
› for multiple coating

CM 9
› Cast coater

CONVERTING AND PACKAGING LINES

MULTISTAGE MECHANICAL, CHEMICAL AND BIOLOGICAL WATER PURIFICATION

STATE-OF-THE-ART GAS AND STEAM TURBINE POWER PLANT (COMBINED HEAT AND POWER GENERATION)

FACTS (2017)

LOCATION: Bielefeld
MILL AREA: 418,000 m²
CAPACITY: 150,000 tonnes p.a.
WORKFORCE: approx. 482
PRODUCTS:
ripscript
thermopscript
giroform
supercote
barricote
Flexibility.

Location: Flensburg

Paper making has a long tradition in Flensburg and the roots of our mill can be traced back to the 17th century. Industrialization came early here. The first paper machine was built in 1848, and about 120 years later the production of carbonless paper began in Flensburg. The production of thermal paper followed at the end of the 1980s. Something which has been preserved to this day in Flensburg is our strength to meet special customer demands through flexibility and individuality.

PAPER MACHINE
› Type: Fourdrinier paper machine
› Working width: 2.30 m
› On-line coater

COATING MACHINES
(Working widths: 2.30 m)
CM 1
› Off-line super calander for special applications
CM 2
› On-line calander

CONVERTING AND PACKAGING LINES

MULTISTAGE MECHANICAL, CHEMICAL AND BIOLOGICAL WATER PURIFICATION

STATE-OF-THE-ART GAS AND TURBINE POWER PLANT (COMBINED HEAT AND POWER GENERATION)

FACTS (2017)
LOCATION: Flensburg
MILL AREA: 106,000 m²
CAPACITY: 35,000 tonnes p.a.
WORKFORCE: approx. 232
PRODUCTS: jetscript, thermoscript, barricote
The know-how and commitment of all our valued employees form the essential foundation of our success. Because we recognise this, we have developed a health management scheme which includes a variety of health-promotion and maintenance measures for each employee, tailored specifically to his or her needs.

In addition, we invest continually in the professional training and development of our employees, offering both internal and external training. And through our successful online training programme, colleagues are able to keep themselves informed about news and information from all areas of the company.

THE BASIS OF OUR SUCCESS
Our employees agree with this. Many colleagues stay with us for decades and there are some cases of three generations from one family working for Mitsubishi HiTec Paper.

Another factor which contributes to our success is the constant exchange of knowledge and skills within the Mitsubishi Paper Mills Group. By this we mean the regular exchange of information and experience between our German and Japanese colleagues through transparent communication and good networking. This results in a committed and responsible workforce of which we are proud.

A particular area of focus is the encouragement of young talent. Well trained employees are our future. That’s why we offer young people courses, trainee programmes and internships as well as promising career prospects at both sites, for example:

› Commercial training
› Paper technologists
› Industrial mechanics
› Electronic technicians for industrial engineering or automation technology
› Specialists in warehouse logistics
› Machine and equipment operators
Responsibility.

Our self-perception

The responsible use of resources and the sustainable production of high-quality speciality papers are particularly important to us. Because of this our environmental policy in papermaking and converting has exceeded the current national and EU rules for some time now. To achieve sustainable energy production we use highly efficient combined heat and power generation in our modern gas power stations.

SUCCESSFUL ENVIRONMENTAL PROTECTION

To preserve both resources and the environment we have introduced a system for electronic detection of waste groups in our mills in Bielefeld and Flensburg. This helps us achieve both higher recycling rates and drastically reduce our levels of waste. Furthermore successful environmental protection goes beyond the boundaries of our mills: we are shifting a large part of the global transport of our goods to customers from road-based to rail and sea-based methods, thus benefiting from intermodal transport.

Without water there can be no paper production. Our objective is to have the lowest possible fresh water consumption by channelling water into a closed circuit and reusing it wherever possible. We continue to invest in waste water purification at both sites.

Our plants in Bielefeld and Flensburg are both certified in accordance with FSC® (Chain-of-Custody) and PEFC™ (Chain-of-Custody), and our integrated management system is certified according to ISO 9001 (quality management), ISO 14001 (environmental management) and ISO 50001 (energy management). In 2018, the hygiene management systems of both mills were successfully certified (INREKA, DIN EN 15593).

WE TAKE OUR RESPONSIBILITIES SERIOUSLY

Major social change can only be achieved if each individual accepts his or her responsibility – we do this at Mitsubishi HiTec Paper.

Social responsibility is an important element of our corporate culture. One focus is the promotion and development of young people in those regions where our mills are located. We take an active part in environmental initiatives and associations such as Klimapakt Flensburg e.V., B.A.U.M und Wirtschaft pro Klima, and have signed the Chambers of Commerce’s “CHARTER for Corporate Citizenship Company”. We also have a “Code of Conduct”, which all employees of the Mitsubishi Paper Mills Group follow.

Conforming and following the rules go without saying and we have thereby created a voluntary compliance management system.
WE ARE MEMBERS
Klimapakt Flensburg,
Wirtschaft pro Klima,
b.a.m.,Two Sides
ChePap Rhein-Ruhr
We are always one step ahead of the market in all our product segments because our product developers, chemists and laboratory technicians are extremely curious, researching, developing and testing in our company’s own laboratories. They work in conjunction with their colleagues in sales, marketing, technical service and production to optimise existing products in line with new requirements and to develop brand new custom grades based on individual customer specifications. They are also in close contact with end-users and OEMs.

**WE BENEFIT FROM INTERNATIONAL KNOWLEDGE TRANSFER**

Above all our staff inspire us with their ingenious innovations. Our own product development team receives back-up from the scientists who work for the Japanese parent company where there are three highly regarded research & development laboratories with highly specialised staff.

Our great innovative strength has its foundation in continuous, high quality research and active international knowledge transfer. In addition to this we work together closely with international universities.

The name Mitsubishi HiTec Paper stands for product developments of the highest quality, which are consistently targeted and oriented to the current and future needs of the markets and lead to the implementation of new innovative measures. This is what makes us leaders in innovation in all our product areas and beyond.

Our main areas of development:

- Papers for digital and hybrid printing
- Functional, protective and barrier coatings
- Special solutions in the packaging segment
- Encapsulation
- Papers with built-in security features
Coated.

Our speciality papers

Thermal paper, inkjet paper, carbonless paper, label paper or barrier paper – our product range offers first class coated speciality papers for many applications and printing technologies. Our products meet the highest technological standards and are truly high-tech papers. They combine the know-how of experienced papermakers with excellent coating technology and professional converting.

We produce the base paper in-house. The special single or multiple functional coatings enable specific applications and meet the highest demands such as brilliant print images, effective barriers, high stabilities and much more - even double-sided.

Our product developments are consistently targeted to the current and future needs of the markets. We store, package and ship all of our products with the same level of care we give to production.

Of course, a global sales team, reliable customer service and professional technical service are available for all products. Thus, we are amongst the world’s leading suppliers in all our product segments. On all continents.
Thermal paper

Our thermoscript range is the broadest direct thermal paper portfolio on offer worldwide and is uniquely diverse, covering every area of application, with something to suit every customer requirement. The broad spectrum of standard products is supplemented by various specialities such as two-colour or rewritable thermal paper, anti-fade grades or grades with security features which are already incorporated into the base paper.

Each area of application follows its own rules and sets its own requirements. Whether labels or receipts at POS, lottery tickets or admission tickets, bank statements, railway tickets or ECG printouts, we deliver individual and innovative thermal paper for every customer request all over the world.

AT A GLANCE:

- 46 – 240 gsm
- Several sensitivity levels (low to very high)
- Several front and reverse side protective coatings
- Excellent print image even on fastest thermal printers
- Archivable for up to 25 years
- Excellent bar code readability
- Excellent printability
- Digitally printable
- Various security features integrated into the base paper
- Bisphenol free and phenol free products available
- Specialities available
- FSC® & PEFC™ certified
The world renowned giroform range is made up of standard carbonless papers as well as a wide range of speciality grades.

The giroform CLASSIC range comprises a variety of high-quality carbonless papers with wood-free base paper and black copy. For all kinds of multipart sets, such as logistics forms.

giroform DIGITAL ONEforALL is a universal 80gsm carbonless paper especially designed for the digital production of personalized, individual forms and documents. Suitable for all popular toner digital printing systems, b/w copiers as well as “business solutions” printing systems. Flexible and adaptable. And approved by HP Indigo.

Our team of specialized professionals are on hand to solve any form problems users and processors may have, and at short notice.

AT A GLANCE:
› Excellent copy
› Outstanding line sharpness
› Copyability guaranteed up to 5 years
› Copy lasts up to 10 years
› Very good printability
› Good running and processing properties
› Available in white and up to five different tints
› Available in reels, sheets and pre-collated sets
› FSC® & PEFC™ certified
› Accessories such as fanapart glue etc. available
The wide jetscript range of high quality coated inkjet media is designed to meet the needs of the B2B and SOHO segments.

Our jetscript inkjet papers have special ink receiving layers. These do not only lead to extraordinary large colour gamuts, but also to fast drying properties, excellent compatibilities with dye and pigment inks as well as significant savings in ink.

The applications in this area are diverse: photos, posters, proofing, labels, tickets or high-speed inkjet printing applications such as direct mail or brochures. With more than 50 inkjet media products available, the wide jetscript range has a custom solution for every application. Even inkjet paper with security features.

AT A GLANCE:
- 70 – 290 gsm
- Single-sided and double-sided coated
- Choice of surfaces:
  - matt
  - satin
  - semi-glossy
  - high gloss
  - embossed
- Built-in security features
- All standard sheet sizes, plotter and jumbo roll widths as well as individual packaging solutions
- ICC profiles, compatibility guides and printer settings for optimum print results
- Testing and training at our in-house Application Centre
- FOGRA certified
- ISEGA certified
- INGEDE certified (deinkable)
- FSC® & PEFC™ certified

APPLICATIONS
- Photo
- Signage & Posters
- Proofing
- High-Speed
- Labels, Tags & Tickets
- Security
Label paper

Premium products need to stand out because first impressions count at the point of sale. High class designs of labels, composite cans and shoulder boxes call for outstanding paper. Not only do processing and finishing take their toll, but transport and storage can also place great demands on the label paper. The premium look has to be retained until the very end.

Our cast-coated supercote products meet all the demands that are made on an excellent label paper. Available from 80 to 170 gsm, also in wet and alkali resistant versions, supercote gives products that premium appearance at the POS. Dazzling and first class.

AT A GLANCE:

- 80 – 170 gsm
- High-gloss, smooth surface
- Wet-strength versions
- Universal printability
  - with traditional printing methods
  - with digital printing
- Very good processing/finishing properties
- Excellent wet gloss retention
- Very fast ink setting
- Rough reverse side
- ISEGA certified
- FSC® & PEFC™ certified

APPLICATIONS

Label  Composite can  Shoulder box
Food packaging is becoming more and more complex and multifunctional. It is no longer just about preservation, storage and transportation. The focus is on protecting packaged goods, protecting consumers and protecting the environment.

With barricote BAG, LINER and WRAP, we have developed a series of particularly innovative and environmentally friendly barrier papers for food and non-food packaging. Our barricote barrier solutions are paper products made from virgin fibres.

To protect the food, we rely on water-based coatings. With a total absence of foils, aluminium or fluorocarbons barricote papers offer effective protection against mineral oils, grease and oil, as well as water and water vapor. They are fully recyclable and can be fed into the waste paper cycle.

Barricote barrier papers are certified for direct food contact. They can be used as wrapping papers, paperboard laminating papers, heat-sealable, hot melt or cold set glueable sachets and pouch papers. Effective, sustainable and safe.

**AT A GLANCE:**

- Paper products made from virgin fibers
- Water-based coatings for combinable barrier functions against:
  - mineral oils
  - grease & oil
  - water & water vapor
- No use of plastic films, aluminium, extruded polymers, varnishes or laminates
- No fluorocarbons used
- Reverse side offset and flexo printable
- Heat-sealable
- Hot melt and cold set glueable
- Recyclable and sustainable
- Certified for direct contact with food (e.g. BfR XXXVI)
- Hygiene certified (INREKA, DIN EN 15993)
- FSC® & PEFC™ certified

**APPLICATIONS**

- Liner
- Bag
- Wrap
As a responsible manufacturer, we strive to produce and process our products in the most environmentally friendly way and to the highest standards of quality. We take our social responsibility seriously and are active in various environmental associations and organizations. Complying with and conforming to rules and regulations goes without saying. Social commitment is an important part of our corporate culture.

**Certifications:**
- FSC® Chain-of-Custody
- PEFC™ Chain-of-Custody
- DIN EN ISO 9001 : 2015
- DIN EN ISO 14001 : 2015
- DIN EN ISO 50001 : 2011
- INREKA DIN EN 15593 : 2008

**Memberships:**
- B.A.U.M.
- ChePap Rhein-Ruhr
- Klimapakt Flensburg
- Ökoprofit® Klub OWL
- Two Sides
- Wirtschaft pro Klima