



Hygiene
Solutions

simply makes you
feel good





W+D and BICMA

Simply feeling good and comfortable is a basic human desire. In everyday life, disposable hygiene products are key to the experience of well-being. We invest all our know-how and resources in developing excellent technology for W+D BICMA customers to manufacture personal care and tissue products of the highest quality and with innovative product features, whilst obtaining economical and efficient production conditions. Thus your success and your customers' well-being are of equal importance to us.

W+D and BICMA as Employers

The company headquarters in Neuwied enjoy a top reputation as a well-respected employer that assumes social responsibility for almost 500 employees worldwide. Each individual employee stands for the company's success and drives it forward. Modern workplaces, attractive compensation and comprehensive social benefits combined with a wide range of diverse and interesting work tasks, make W+D BICMA one of the most attractive employers in the region.





Headquarter in Neuwied, Germany

The brand **W+D BICMA Hygiene Solutions** is a merger of the German machine manufacturing companies Winkler+Dünnebier GmbH (W+D) and BICMA Hygiene Technologie GmbH. They joined expertise and resources in 2018 with the aim to provide even better products and optimized customer service.

W+D, founded in 1913, looks back on a history of more than 100 years of future-oriented and market-influencing technological innovations. W+D's core competencies encompass converting and precise processing of thin and inhomogeneous materials at high production speeds, e.g. paper, tissue and nonwoven materials.

W+D is market leader in mail solution machinery, including envelope converting, printing and inserting. Since 1976, W+D has also been developing strong competencies in the tissue and personal care industry.

Founded in 1995, BICMA quickly established itself as an internationally recognized machine supplier of the personal care industry. The company designs and builds top quality, customized machinery and retrofits. It is a partner of manufacturers of feminine hygiene products, baby and adult diapers and pants, light incontinence products, face masks as well as pads, e.g. for babies, as bed pads, for food or for pets.

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Joining W+D BICMA has turned out to be a quantum leap in my career. It is great to work with such a skilled and highly motivated team. The vast diversity of projects and the worldwide customer base make my job deeply interesting and diverse.

Ulrich Wald, W+D BICMA



There is more to a company than its name and history. It is the **People** who make the difference.

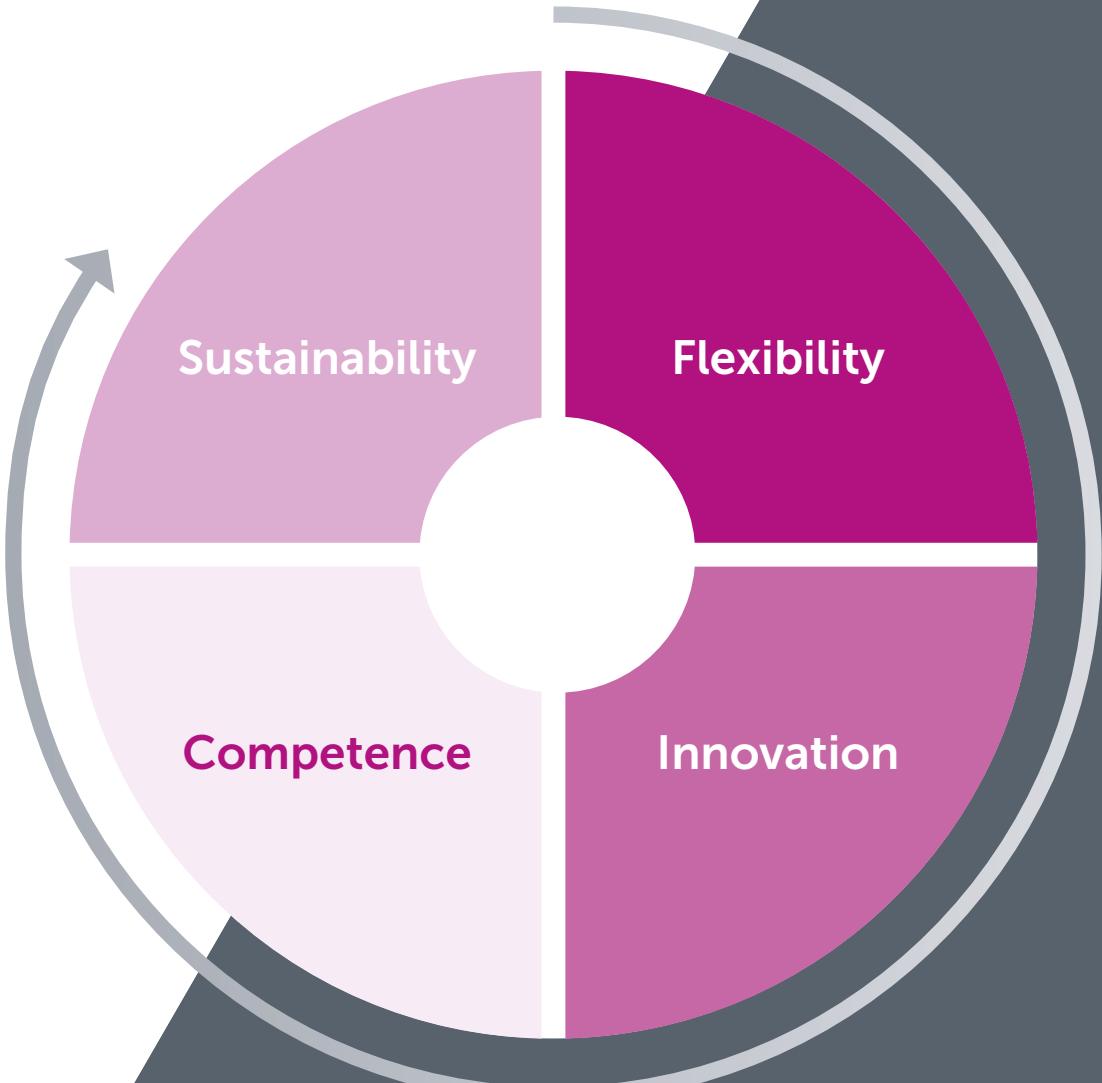
Flexibility has been part of our DNA for decades, resulting in tailor-made customer solutions and flexible machine concepts. Our machines are known to be among the fastest in size change thanks to our S2S quick-change modules and our express drum-change technology.

Innovation drives us day by day to create smart and extraordinary solutions relating to products and processes. Take our turnkey W+D BICMA FLOWTOS solution, it sets a benchmark for the production of handkerchiefs, packaging and bundle wrapping.

Competence accrued in the hygiene industry over decades makes every member of our team a reliable partner for our customers. Since the absorption core is key to product performance, developing suitable processes has been our focus from the beginning.

Sustainability of the machines we build and of the products manufactured by using them has inspired our activities right from the start. Reduced energy consumption, zero-waste processes, glueless bonding and replacing single-wrap plastic by paper material are important parts of our philosophy.





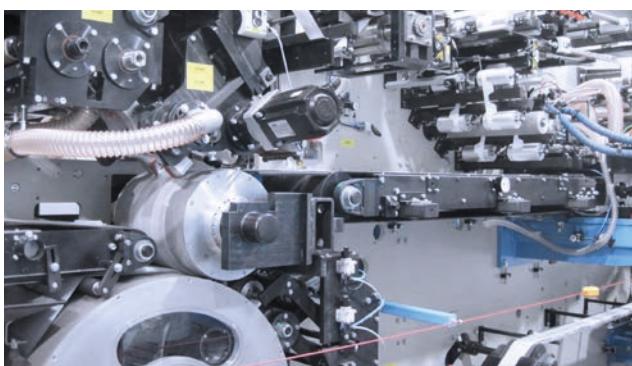
He has no idea of
ultrasonic bonding.

He just feels
comfortable.



Baby Care

Baby's well-being requires perfect, soft and safe products. W+D BICMA production lines will enable you to deliver such products to your markets. Whether an open diaper, a pant or a change pad - we provide the fitting technology, e.g. highly versatile machines for emerging markets and fully customized lines for market-leading specialists.



Compact Machine Design meets High Process Flexibility

- / Variety of Core Designs and Core Features
- / Variety of Diaper Shapes (Traditional, T-Shape, Anatomical Side Panels, Pants)
- / Customized Product Features
- / Comfort and Fit Product Features as per latest Market Trends
- / Machine Option to combine open Diapers and Pants

She does not know about our
modular machines.

She simply enjoys
her freedom.



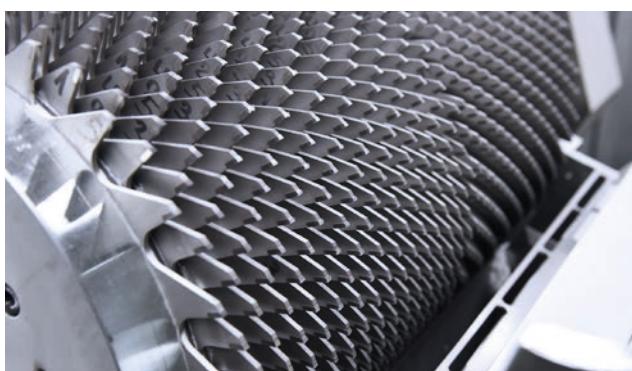
Feminine Care

The needs, wishes and preferences relating to feminine care products are as individual as their users' preferences. Providing every woman and girl with the perfect product of choice demands more of a machine than merely high speed and high efficiency. Maximum flexibility and most reliable processes by W+D BICMA allow customers to be more successful in feminine care production.



Modern Products enhanced by Multiple Wrapping Options

- / Full Range from Ultrathin Pantyliner to Thick Overnight Napkin
- / Variety of Solutions e.g. Flat, Folded, Wrapped and Non-wrapped Products
- / Customized Product Features
- / Comfort and Fit Product Features as per latest Market Trends
- / Machine Option to combine Pantyliners and Sanitary Napkins



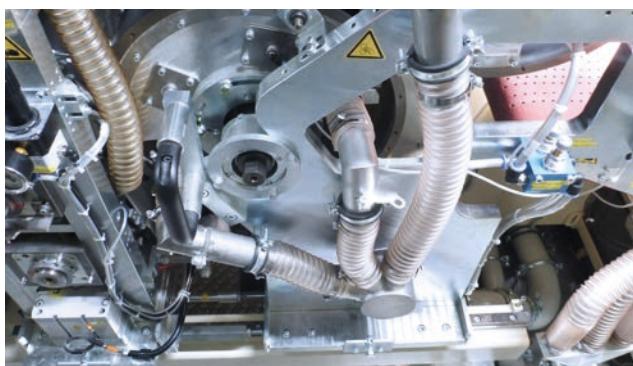
He has never heard of our
S2S quick-change module.

He just feels safe.



Light Incontinence

Mobility is one of the most valuable assets in life. Light incontinence products help to stay mobile and agile. Decades of experience in this specific market guide W+D BICMA when creating customized machines to make discrete high-performance products that wear comfortably and are tailored to the different needs of female and male users.



Man and Lady Products benefit from Specialized Processes

- / Full Product Range: Inco Pantyliner to Long Multi-Core XL Sizes
- / Female or Male Products
- / Lycra or Foam Elastics
- / Variety of Solutions e.g. Flat, Folded, Wrapped and Non-wrapped Products
- / Customized Product Features
- / Comfort and Fit Product Features as per latest Market Trends
- / Machine Option to combine Light Incontinence and Feminine Care Products

She has no knowledge of our
zero-waste process.

She just enjoys life.



Adult Care

Adult diapers, pants and bed underpads make the lives of caregivers and the life of patients easier and more independent. The variety of products requires tailor-made converting machinery. Our knowledge and close customer relations allow us to present the right solution to ensure a competitive, reliable and cost-effective production set-up.



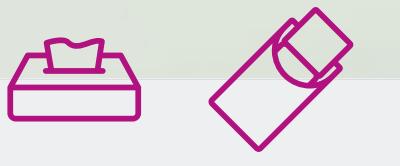
Classical Institutional Products up to Ultrathin Disposable Underwear

- / Variety of Core Designs, Core Numbers and Core Features
- / Variety of Diaper Shapes e.g. traditional, T-shape, H-shape, Belts, Anatomical Side Panels and Pants
- / Specific Adult-Incontinence Processes
- / Customized Product Features
- / Comfort and Fit Product Features as per latest Market Trends
- / Machine Option to combine Open Diapers and Pants
- / Machine Option to combine Open Diapers and Shaped Pads



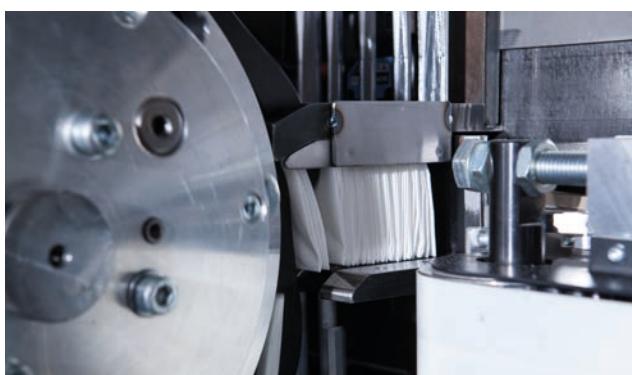
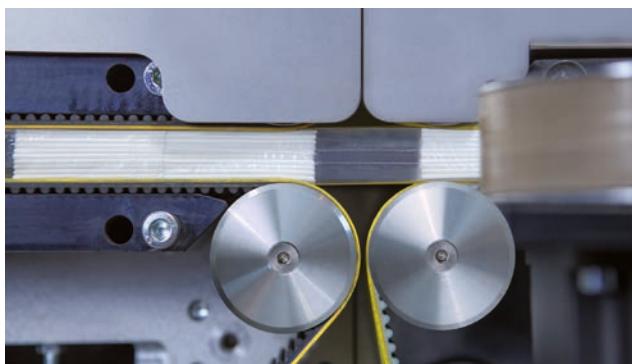
She has no clue about our unique
vacuum folding technology.

She just feels better.



Tissue Fold

Handkerchiefs and facial tissues accompany us in life and fulfill our needs for hygiene and skin care. For decades, W+D has been setting benchmarks as a global leader in tissue handkerchief production technology. We offer the fastest and most efficient machines to convert and wrap highest quality handkerchiefs. Our machinery portfolio also contains flexible and competitive interfolder machines, sought after by marketer of bulk and boutique quantities of interfolded tissue.



Market Leadership and Turnkey Solutions

- / Fastest and most efficient handkerchief converting and packaging platform worldwide. The new W+D BICMA 624R is equipped throughout with automatically splicing unwinder units for all materials, and it is tuned for highest efficiency
- / From converting to packaging: W+D BICMA's fully integrated solutions
- / W+D BICMA FLOWTOS, the most innovative and flexible medium-speed handkerchief production line encompassing converting, packaging and bundle-wrapping. Featuring patented most flexible single-pack flow-wrap technology
- / Facial Tissue Converting Machine: state-of-the-art technology to convert interfolded facial tissue (V-fold) from two-, three- and four-ply tissue rolls into stacks automatically transferred to a packaging machine of your choice

He knows nothing about our
stacking technology.

He just feels
well protected.



Face Mask

Full Automation and Various Mask Type Options

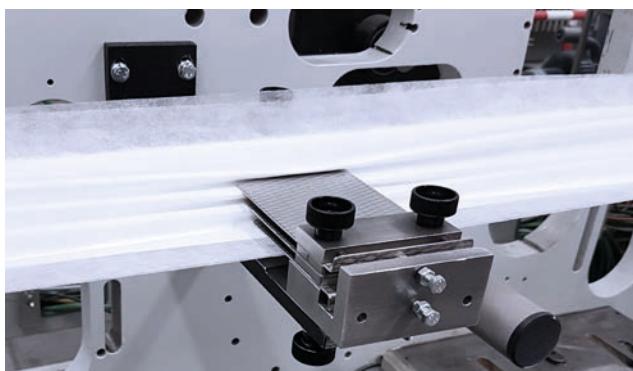
Profound knowledge of nonwoven conversion processes allows us to build complete, fully automated converting machines to manufacture surgical masks or FFP2/N95-type respiratory protection. High speed, maximum efficiency and smart product concepts allow our customers long-term cost-saving production of significant personal protective products at a profit.



Product Customizing includes:

- / Flexoprinting Inline
- / Synchronizing Preprinted Materials
- / Processing Ecological and Sustainable Materials
- / Printing or Embossing Logos

W+D BICMA AUXILIUM MNS is one of the fastest mask-production machines in the world when making surgical masks. The machine provides some unique technology features to stay profitable in a very competitive environment. W+D BICMA offer various mask designs and soft ear bands or soft head bands.



W+D BICMA AUXILIUM FFP too is one of the world's fastest machines to manufacture FFP2/N95 masks. The fully automated system can even produce individually wrapped masks in boxes containing 5 to 25 products. Shape and perfect fit of the respiratory mask ensure a positive wearing comfort while granting highest protection.



Quality Service and Retrofits

Boost your operation by taking advantage of our wide spectrum of quality services, upgrades and retrofits! A leading systems partner of the envelope, tissue and personal care industries, W+D BICMA offer a comprehensive portfolio of engineering service solutions to meet your business needs throughout the entire operative life of your machines.





Worldwide reliable quality service makes up our philosophy

- / World-wide Top-quality Spare Parts supply
- / Comprehensive Training
- / Remote Diagnostics and Support
- / Qualified and experienced, Software and Process Experts
- / Support for installed Machines of all Brands:
On-site Production Process Analysis jointly with the Technical Team of our Customer to optimize Workflows, enhance Machine Efficiency and identify Speed-up Potential

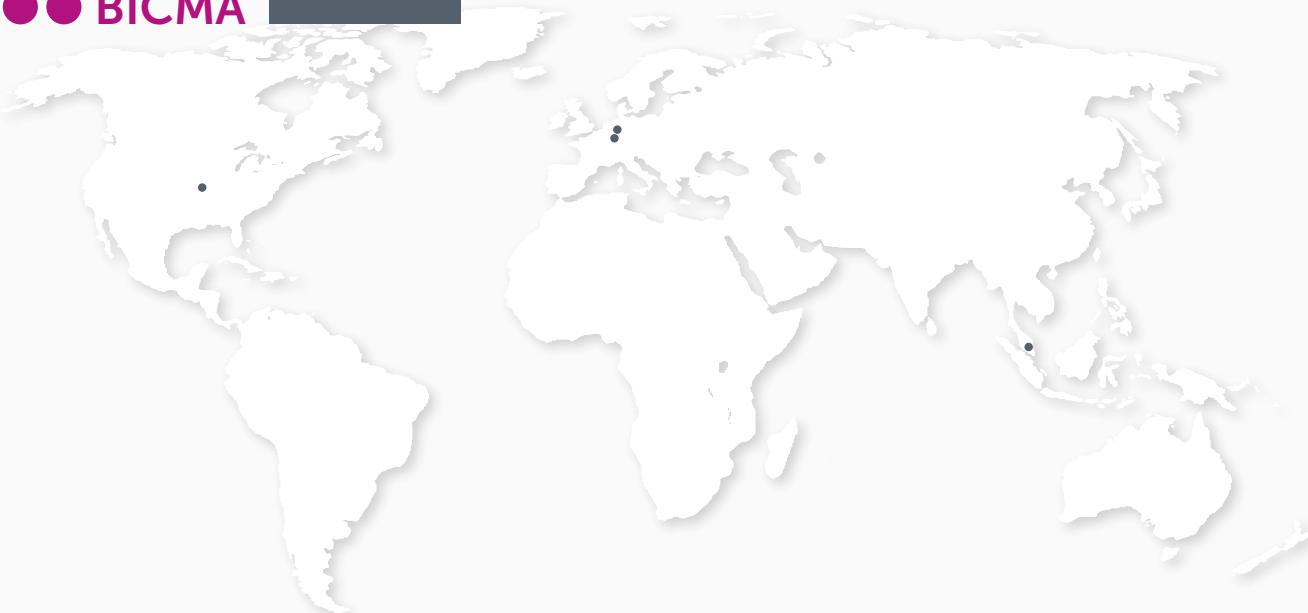
Deep know-how of the full range of production processes makes up W+D BICMA's key value for the customer. This great expertise has promoted W+D BICMA a renowned specialist upgrading and retrofitting installed equipment of all leading brands. We maintain and enhance the value and lifetime of your machines, e.g. by cutting production costs and size change times, by upgrading products introducing competitive and innovative features, by replacing discontinued control systems, and by increasing efficiency through smart new process solutions.

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Being close to our customers and understanding their needs is very important to me. At W+D BICMA, I realized on day one that the whole team thinks that way. That is a definite feel-good factor.

Kerstin Mallmann, W+D BICMA





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Our Brands

W+D Winkler +
Dünnebier

W+D PreOwned
Envelope
Machines

W+D Winkler +
Dünnebier
Halm Industries

W+D Winkler +
Dünnebier
F.L. Smithe