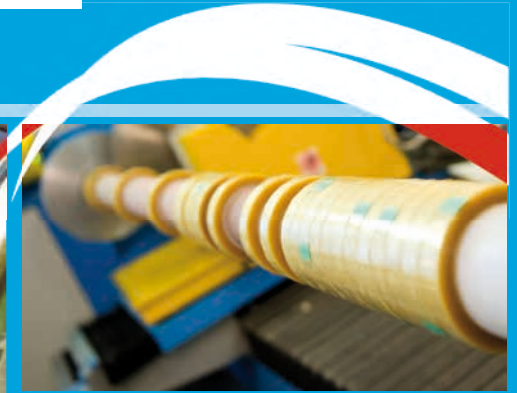
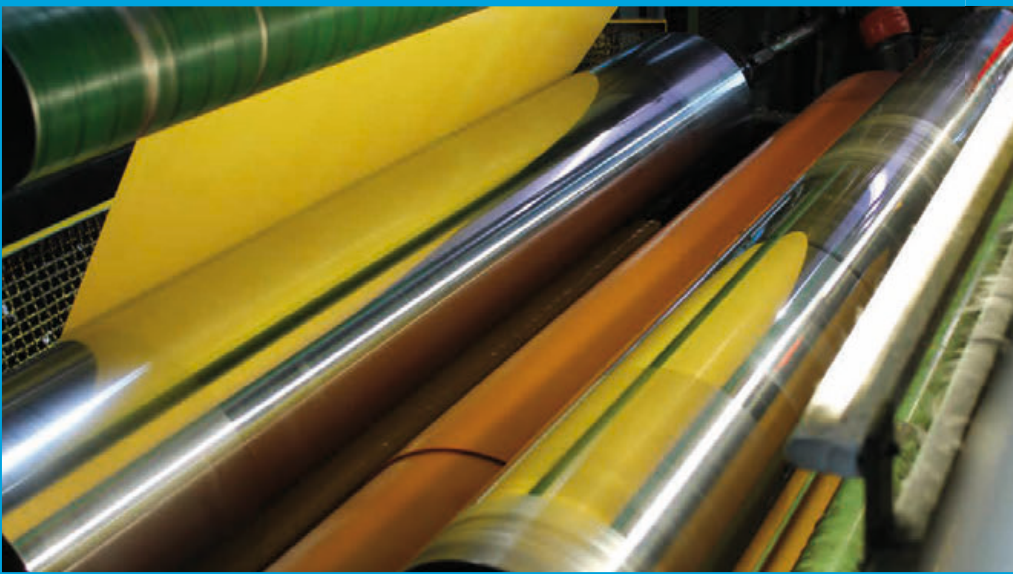




COATING

CONVERTING

DISTRIBUTION



A Bond That Lasts!

- Self-Adhesive Tapes
- Electrical Insulation Tapes
- Industrial Tapes
- Packaging Tapes
- Double Sided Tapes
- Die-Cut Solutions
- Specialty Tapes
- Dispensers & Processing Devices

Coating | Converting | Distribution

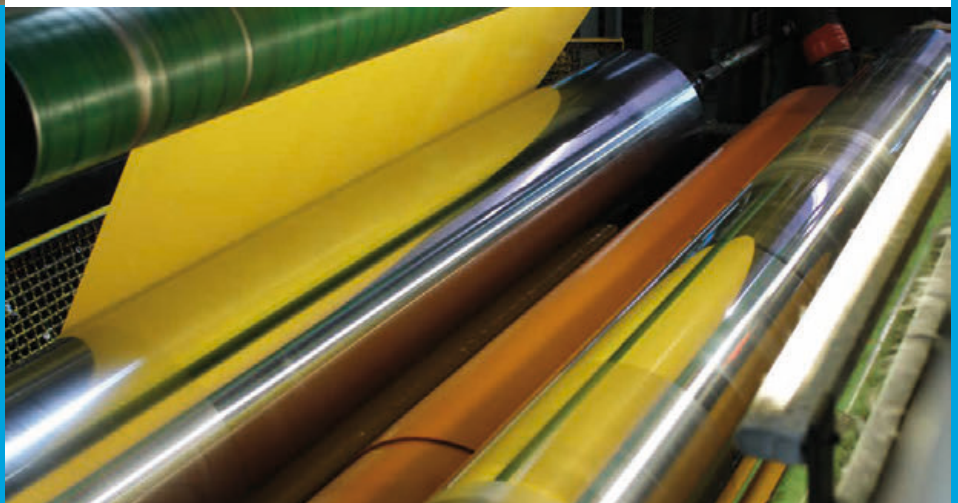
Volz Selbstklebetechnik GmbH

YOUR EXPERT IN ADHESIVE TAPE SOLUTIONS

VOLZ® TAPES is your competent partner for all self-adhesive tape requirements. Our extensive product portfolio offers a variety of standard and specialty tape products, supporting advanced industry applications, as well as standard and complex packaging requirements. We are the industry expert in double-sided tapes, electrical and industrial tapes, packaging tapes, self-adhesive die-cut solutions, as well as tape dispensers and processing devices.

VOLZ® TAPES has spent the last several decades developing its core competencies in the areas of Coating, Converting and Distribution. We produce turn-key custom tape solutions to meet our customers' most complex industry challenges. Our advanced production facility is capable of cutting any tape width or producing die-cut solutions to your exact specifications. It is our goal to develop high-end, cost effective tape solutions that meet your operational demands.

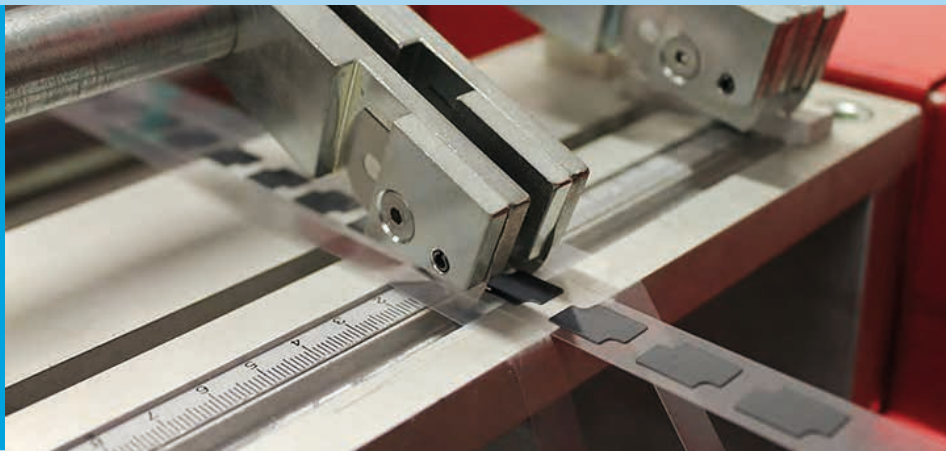
VOLZ® TAPES is an active and trusted member of AFERA, the European Adhesive Tape Association. AFERA membership provides a front row seat to market developments and valuable exposure to other key adhesive tape associations such as PSTC (USA), CATIA (China), TAAT (Taiwan) and JATMA (Japan).



- Coating of diverse carrier materials such as Fabric, PP, PE, PET, PVC, Fleece and Foam
- Available Adhesives Include:
 - ◊ Synthetic Rubber (Hot Melt)
 - ◊ Natural Rubber
 - ◊ Solvent and Water Based Acrylic
 - ◊ Silicon
- Adhesive transfer tapes with and without glass fibers

COATING: CUSTOMIZED ADHESIVE SOLUTIONS

VOLZ® TAPES develops and manufactures high-end electrical and double-sided adhesive tapes. We coat customer specific, carrier materials with high-end adhesives to create innovative tape solutions. Our customers benefit from an extensive array of advanced custom tape products based on different carrier and adhesive combinations. VOLZ® TAPES is proud to serve a very prominent and reputable customer base across many different industries on a global scale.



CONVERTING: CUSTOM MANUFACTURING

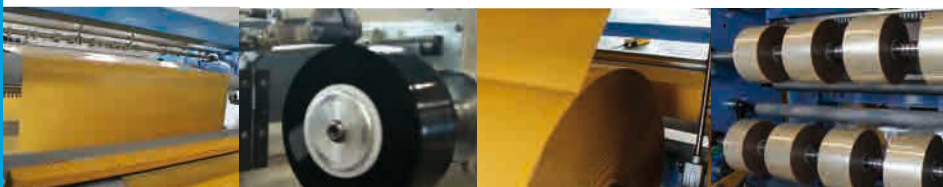
Certain standard industry tapes may not be qualified for complex applications. VOLZ® TAPES offers custom designed adhesive solutions to meet exact customer specifications.

Custom tape solutions may include multiple materials laminated together, coated with specific adhesives and equipped with specific liners and/or carrier materials. All custom and standard tape solutions are available in single rolls, log rolls or Jumbos, in custom widths and lengths. Cross wound spools are also available with or without finger lift.

Production lines operate more effectively and cost efficiently when they are able to use custom designed, form fitting parts. VOLZ® TAPES' customers greatly benefit from our capability to produce high quality, individualized die-cut solutions for highly complex processes.



- Logging, Semi and Fully Automatic
- Cross Wound Spools
- Coating and Laminating
- Rewind Slitting
- Single & Double Lathe Slitting
- Flatbed Die-Cutting / Kiss-Cutting
- Rotary Die-Cutting / Kiss-Cutting
- Plotter & Laser Cutting
- Printing
- Automated Packaging Solutions
- Core Branding



CONVERTING: REWINDING

VOLZ® TAPES produces different length log rolls for large scale production purposes or for further conversion to smaller rolls. Electronic management systems keep track of desired length and tension control, which is crucial for further converting.

Semi-Automatic Rewinding:

Cutting while rewinding into log rolls or master rolls.

- Up to 1000 m per master roll
- Up to 300 m per log roll
- Possible razor or scissor cut
- On 3" and 6" core
- Up to 1550 mm width
- Differential and pneumatic core shafts

Custom Cutting:

Manufacturing rolls with a possible tolerance range of +/- 0,1 mm*

- Up to 1000 m length
- 4 to 300 mm width
- Possible on 3" core

Fully-Automatic Rewinding:

Turning Jumbos into log rolls in large quantities.

- Production of up to 100 Log rolls/h
- Up to 1550 mm width
- Up to 100 m length
- On 3" cores

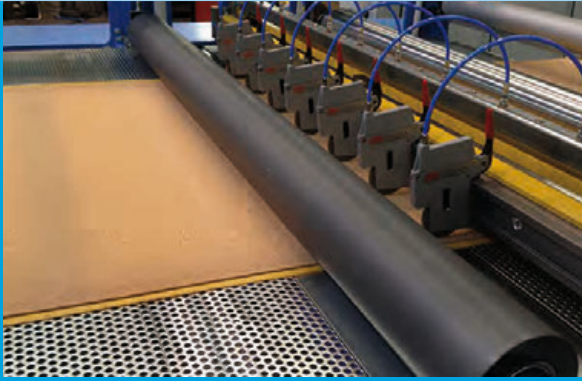
Cross wound spools:

Production of rolls with extensive length.

- 180 to 300 mm width
- With or without liner
- On 3" and 6" core
- Possible tolerance of +/- 0,1 mm*

*) Tolerance range may differ based on material used





CONVERTING: COATING & LAMINATING

VOLZ® TAPES' advanced coating and laminating operation can mix and match different carrier materials with appropriate adhesives to create exceptional tape solutions.

- Adhesive coating of materials such as rubber, fabric, foam, cloth, foil, and metal
- Single and double sided adhesive tape
- Up to 1700 mm in width
- Processing up to four different materials in one operational step
- Production onto 3", 4", and 6" roll cores
- Coating to exact customer specifications
- Liner changes
- Coating of customer provided material



CONVERTING: CUTTING (SLITTING)

Cutting/Slitting is the conversion process in which we cut logs or wide rolls into thinner slices to meet customer specifications. Depending on the different materials involved, we choose to slit on our lathe slitters or cut while rewinding Jumbos or log rolls. VOLZ® TAPES can offer almost any width required.

Rewind Slitting:

Individual razor blades are positioned at stationary intervals across the machine. By rewinding the material and pulling it through the blades, slitting is achieved at the precise intervals of the pre-determined blade positions.

- On 3" and 6" core
- Up to 600 mm outer diameter
- 4 to 1550 mm width
- Tolerance range +/- 0,1 mm possible*
- Raser Blade, Lathe, Crush Cut Blade

Lathe Slitting:

A log roll of pressure sensitive tape is spun at high speed while a circular blade cuts the material to the desired width.

- On 1", 1,3", 1,5" or 3" cores
- Up to 350 mm outer diameter
- 1 to 1650 mm width

*) Tolerance range may differ based on material, length and width



CONVERTING: DIE-CUTTING / KISS-CUTTING

Custom designed, form-fitting parts optimize production cycles. VOLZ® TAPES offers die-cut and kiss-cut adhesive solutions to exact measure. Our modern production plant operates on standard flatbed and rotary die-cut presses. VOLZ® TAPES' die-cut solutions are delivered loose, on rolls or on sheets. They can be printed or neutral, and with or without finger lift.

Die-Cut Press Key Capabilities

- Hydraulic Flatbed Press - up to 600 mm
- Rotary Press - up to 350 mm
- Die-cutting or Kiss-cutting
- Tolerance +/- 0,1 mm possible*
- Unlimited quantities
- Printed or plain
- Multiple presses in-line possible
- Fully automated process

Waterjet Cutting, Laser- and PC controlled Plotter Cutting:

VOLZ® TAPES offers these cutting options as an alternative to standard die-cutting for special requirements and production series.

*) Tolerance range may differ based on form and material





CONVERTING: CUSTOM PACKAGING OPTIONS

VOLZ® TAPES invests great effort in packaging, labeling and tracking for all its products. Proper packaging is a key component to our ultimate goal of complete customer satisfaction. Our options include packaging and labeling of individual rolls, as well as accordion or tower shrink wrapped solutions. All our standard palletized shipments have re-enforced corner protection and protective lids.

Packaging:

- Single roll
- Accordion shrink wrap
- Industrial packaging / tower shrink
- With logo or neutral

Labeling:

- Front face
- Side label
- Per individual request
- Barcode

Custom Drop-Ship Capabilities:

Upon request, VOLZ® TAPES can drop ship directly to end users without any identifying manufacturer information

CONVERTING: CAD - TECHNOLOGY



In our state-of-the-art facility, VOLZ® TAPES utilizes Computer Aided Design (CAD) technology to design and develop new products. As a reliable partner to an array of customers with highly sensitive and complex production methods, VOLZ® TAPES assures the highest quality standards and continuous product reliability.

- Design of prototypes and production drawings
- Development of custom tools
- Creation of samples and mass production methods
- Planning and development of new, individual adhesive tape solutions

DISTRIBUTION: NAME BRAND SOLUTIONS

VOLZ® TAPES offers exceptional adhesive tape solutions by leading manufacturers such as tesa®, Intertape Polymer Group® (IPG), 3M, Scapa, Nitto, and more. We have spent years cultivating strong business relationships with leading industry manufacturers to provide turnkey solutions to our customers' adhesive requirements.



- We test according to AFERA standards. Per request, we can also test according to other customer specific criteria.
- Quality assurance of our die-cut products is maintained by using advanced optical measuring technology to compare products against each individual customer specification.
- All test procedures and their respective results are carefully documented for transparency and future reference.



QUALITYMANAGEMENT: CERTIFIED QUALITY ASSURANCE

To assure our high standard of quality, VOLZ® TAPES has invested in a **state-of-the-art research and development laboratory** with the latest technology testing equipment. Here, we precisely test and evaluate our products to guarantee that the specified values are being met continuously. Our **Quality Management System** is **DIN EN ISO 9001:2015** certified, our **Environmental Management System** is **DIN EN ISO 14001:2015** certified. Many of our Electrical Insulation Tapes and our production carries **UL - Certification**. VOLZ® TAPES is also **AEO** certified and participates in the global GS1 - System, fulfilling GS1 standards. We are an active and trusted member of **AFERA**, the European Adhesive Tape Association, and test our products according to **AFERA, FINAT, PSTC, CATIA, TAAT** und **JATMA** standards.



VOLZ®TAPES LABORATORY



Adhesive Strength
Test 180°
according to AFERA 5001



Adhesion Strength
Test 90°
according to AFERA 5001



Tensile Strength
according to AFERA 5004



Rolling Ball Tack Test
according to PSTC- 6



Loop Tack Test
according to Finat Nr.9



Static Sheer Adhesion Test
according to AFERA 5012



Thickness
according to AFERA 5006



Weight



Width
According to AFERA 4027



Material Structure



Cross Section



Barcode Reading



Climate and Environmental Test



INDIVIDUAL SELF-ADHESIVE SOLUTIONS FOR A MULTITUDE OF INDUSTRIES

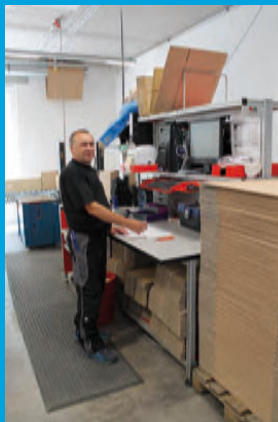
VOLZ® TAPES is dedicated to producing solutions of the highest standard. Through our expertise, hard work and commitment to customer satisfaction, we have earned the trust and respect of renowned companies, institutions, associations and organizations across various industries.

Our high-quality products support complex applications in various industry sectors, such as **metal processing, machine engineering, medical technology, the automotive industry, building and trade, household appliances, HVAC**, and more.

Since 2011, VOLZ® TAPES is the **sole provider of all self-adhesive tapes to the German Armed Forces (Bundeswehr)**. In addition, we have an exclusive delivery contract with the Federal Government of Germany to provide product also to the German Police, Emergency Services and other Federal Entities.



SERVING CUSTOMERS WORLDWIDE



Through our exclusive contract with the German Armed Forces, we supply over 650 locations worldwide with over 130 different products.





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