

Zeitschrift: Swiss pioneers of economics and technology
Herausgeber: Association for Historical Research in Economics
Band: 3 (1995)

Artikel: Rieter's 200 years : 1795-1995. Rieter's technology
Autor: Furrer, Alfred J.
Kapitel: Terminology ; Abbreviations ; Acknowledgments
DOI: <https://doi.org/10.5169/seals-1091180>

Nutzungsbedingungen

Die ETH-Bibliothek ist die Anbieterin der digitalisierten Zeitschriften auf E-Periodica. Sie besitzt keine Urheberrechte an den Zeitschriften und ist nicht verantwortlich für deren Inhalte. Die Rechte liegen in der Regel bei den Herausgebern beziehungsweise den externen Rechteinhabern. Das Veröffentlichen von Bildern in Print- und Online-Publikationen sowie auf Social Media-Kanälen oder Webseiten ist nur mit vorheriger Genehmigung der Rechteinhaber erlaubt. [Mehr erfahren](#)

Conditions d'utilisation

L'ETH Library est le fournisseur des revues numérisées. Elle ne détient aucun droit d'auteur sur les revues et n'est pas responsable de leur contenu. En règle générale, les droits sont détenus par les éditeurs ou les détenteurs de droits externes. La reproduction d'images dans des publications imprimées ou en ligne ainsi que sur des canaux de médias sociaux ou des sites web n'est autorisée qu'avec l'accord préalable des détenteurs des droits. [En savoir plus](#)

Terms of use

The ETH Library is the provider of the digitised journals. It does not own any copyrights to the journals and is not responsible for their content. The rights usually lie with the publishers or the external rights holders. Publishing images in print and online publications, as well as on social media channels or websites, is only permitted with the prior consent of the rights holders. [Find out more](#)

Download PDF: 24.04.2026

ETH-Bibliothek Zürich, E-Periodica, <https://www.e-periodica.ch>

Terminology

Carousel	Opening machine in the shape of a carousel
Chucking	Clamping a workpiece on the machine workbench
Contimeter	Continuously measuring and operating flock blending machine
Cycloid	A cycloid is a geometric curve which always describes equal circles, with its centre moving continuously on a preset circle. Textile slivers can thus be laid in spinning cans
Diversification	In Rieter's case: manufacture of non-textile products, for example, rifles, electric motors, noise control products, etc.
Doffing aid	Doffing = exchanging full yarn packages for empty tubes Aid = integrated mechanical apparatus for automating this process
Drawframe	Machine which usually extends 6-8 fibre slivers to 6-8 times their length, thus improving sliver uniformity
Ecological	In the overall economic process (ecology)
Electrophoresis	Dye bath containing emulsified paint which is bonded firmly to castings in an electric field
Fabrics	Textile structures such as weaves, knits and nonwovens
Joint venture	Cooperation with a company which manufactures the partner's products under a special agreement
Lean production	Only what is required immediately is produced; i.e. no intermediate stocks of any kind are maintained
Market niche	Speciality which is only rarely needed. Only economic for monopoly manufacturers of niche products
Mechatronic	Close integration of mechanical and electronic functions
Mule	First mechanical, multi-spindle spinning machine
Nips	Short fibres are combed out in the combing machine by means of rotating and stationary combs. 1 cycle = 1 nip
Nonwovens	Fabrics made from randomly organized fibres which are bonded by adhesive or a heat process
Online	Directly affecting the working process => measuring and control => quality assurance without waste
Outsourcing	Use of external sources => services provided by third parties, for example in data processing
Process module	Individual element of a process which can be utilized optionally
Promotion	Marketing with efficient advertising and information
Rieter Award	Annual Rieter presentation recognizing special achievements by young scientists and promoting contacts
Robotics	Automation using mechanical devices and electronics
Synergy	Indirect improvement in neighbouring fields as a secondary consequence of specific action
Technology	The technical knowledge for a process or method
Technology transfer	Communication or transfer of technology

Technotope	Optimally coordinated conditions for several technical faculties
Texinvert	Electronic control device developed by Rieter
Texturing	Crimping smooth fibres. This increases the friction between fibre and skin and improves wearing comfort
Trendcar	A possible car of the future
Yarn count	The unit of measurement is the denier (den), which expresses the specific weight of the individual fibre in grams/kilometre

Abbreviations

BCF	Bulked Continuous Filament (bulked = textured)
CAD	Computer Aided Design
CAM	Computer Aided Machining
CIM	Computer Integrated Manufacturing (CAD + CAM)
CNC	Computerized Numerical Control
DREF	Dr. E. Fehrer AG (Austrian textile machinery manufacturer)
FAG	Roller bearing manufacturer in Germany
R&D	Research & Development
HMG	Hanseatische Maschinenbaugesellschaft, Lübeck (Germany)
ISO	International Standardization Organization
LMW	Lakshmi Machine Works, Coimbatore (India)
Nm	Metric yarn count; 1 Tex = 1g/1 km
NSC	N. Schlumberger & Cie., Guebwiller (France)
OE	Open end = spinning process, e.g. using spinning rotors

Acknowledgments

Rieter Historical Archives.

Rieter Ingolstadt Archives.

Unikeller Archives.

Rieter Jubilee Publication 1945 (150th anniversary).

Rieter Jubilee Publication 1970 (175th anniversary).

Rieter house magazines since 1956.

Rieter leaflets for machines and systems.

Rieter publications on international textile machinery exhibitions.

Information publications by the textile machinery groups of the Association of Swiss Machinery Manufacturers (VSM) on exhibitions and symposia.

Dr. Peter Dudzik: Innovation and investment – technical development and corporate decision-making in the Swiss cotton spinning industry, 1800–1916.

Werner Klein: Various publications on textile technology.

Photo credits

Archives at Rieter Winterthur, Rieter Ingolstadt, Unikeller.

Thanks

The author wishes to thank the following Rieter personnel, past and present, for their valuable support:

Kurt Büchi, Niklaus Gartenmann, Felix Graf, Rolf Häfliger, Emil Hauser, Willi Müller, Emil Munz, Eduard Nüssli, Ernst Ott, Willy Soland, Georg Theiler and Kurt Tischhauser.

Address of the author:

Alfred J. Furrer, BSc (Eng.) FIT, Elchweg 8, CH-8405 Winterthur, Switzerland, former Research & Development Manager and member of Rieter executive management.