RIETER

The Rieter Ring Spinning Portfolio

Flexible solutions to suit all requirements

Comparison and selection
of the right machine

The Rieter Ring Spinning Portfolio in COMPARISON

	Conversion costs	Flexibility
G 37	 Max. 1824 spindles HPS 28 spindle Top quality aprons	 Compacting devices Special yarns Machine upgrade
G 37 1 200	 Max. 1200 spindles HPS 20 spindle Economic aprons	 Compacting devices Special yarns Machine upgrade
G 38	 Max. 1824 spindles HPS 28 spindle Top quality aprons	 Compacting devices Special yarns Unlimited yarn count range

Rieter offers a comprehensive ring spinning portfolio that meets a wide variety of customer needs and market requirements. With this portfolio, spinning mills can produce yarn in a more profitable, efficient and sustainable manner, as well as flexibly react to rapidly changing market requirements.

The ring spinning machines G 37 and G 38 and the configuration of the G 37 with 1 200 spindles have different advantages. Depending on the customer's current requirements, several solutions are available – solutions that can be flexibly upgraded with automation functions such as the piecing robot ROBOspin or with a compacting device that can be easily plugged in and out again. This means that every spinning mill can find the application that best suits its needs.

Automation	Productivity
	
Semi-electronic drafting drive ISM basic / ESSENTIAL ROBOspin	Spindle speed 28 000 rpm High-Speed package Main motor 90 kW (55-110 kW) Intermediate drive IMD
	
Semi-electronic drafting drive ISM basic / ESSENTIAL ROBOspin	Spindle speed 20 000 rpm 55 kW main motor No intermediate drive IMD
	
Fully electronic drafting drive ISM premium / ESSENTIAL ROBOspin Ring-Winder-Connect	Spindle speed 28 000 rpm High-Speed package Main motor 90 kW (55-110 kW) Intermediate drive IMD

Ring Spinning Machine G 37

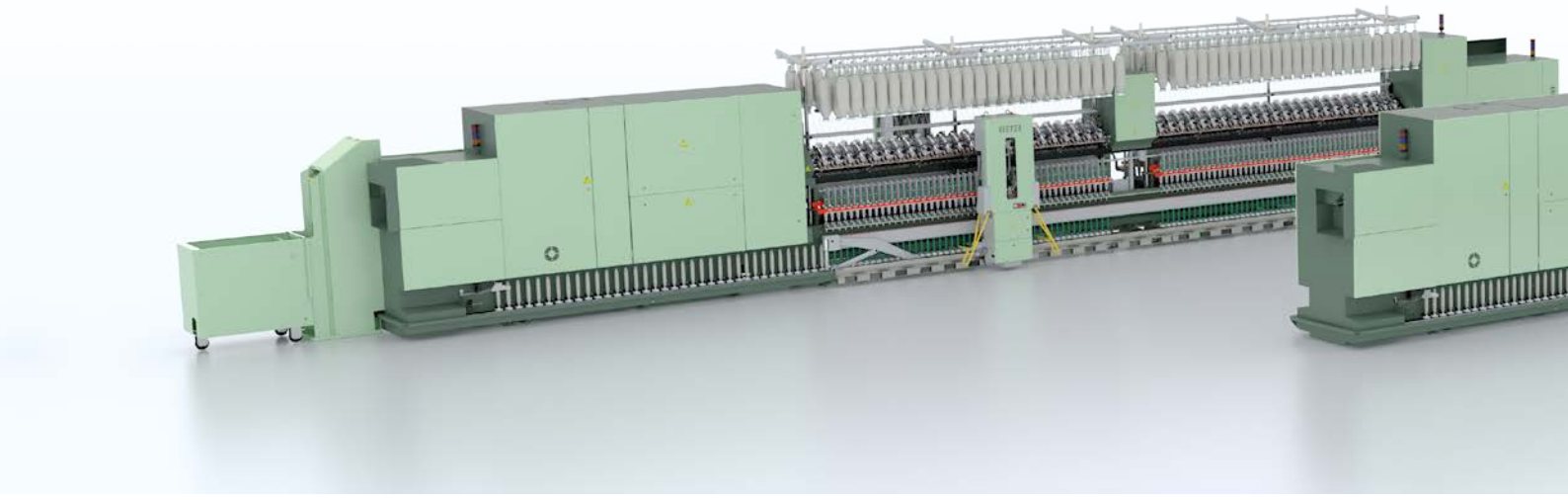
High-quality yarns produced with high efficiency

The economical solution for low production costs

The ring spinning machine G 37 with the semi-electronic drafting system meets all requirements for efficient yarn production. It is the perfect solution for spinning mills producing the same types of yarn over a long period of time. It scores points with its consistent performance and high productivity. The integrated individual spindle monitoring ISM basic guides the operator straight to the spindles with ends down, and saving personnel cost. The yarn parameters can be quickly and flexibly changed at the operating unit. The machine can be upgraded with the compacting devices COMPACTapron, COMPACTdrum or COMPACTeasy, or with the fully automated piecing robot ROBOspin, at any time. For all machine lengths, the G 37 can be supplied with systems for slub yarns, core yarns and twin yarns.

Best offer configuration of the G 37 with 1 200 spindles

The new configuration of the G 37 with 1 200 spindles offers an attractive level of value for money. It can be integrated into an existing system to save space or can replace older machines. This configuration uses the Novibra spindle HPS 28, which is capable of reaching speeds of up to 20 000 rpm. The durable Bräcker spinning rings and proven Rieter aprons ensure consistent yarn quality and a reduction in machine downtimes. Even on this shorter configuration, the individual spindle monitoring ISM basic is installed as standard.



Ring Spinning Machine G 38

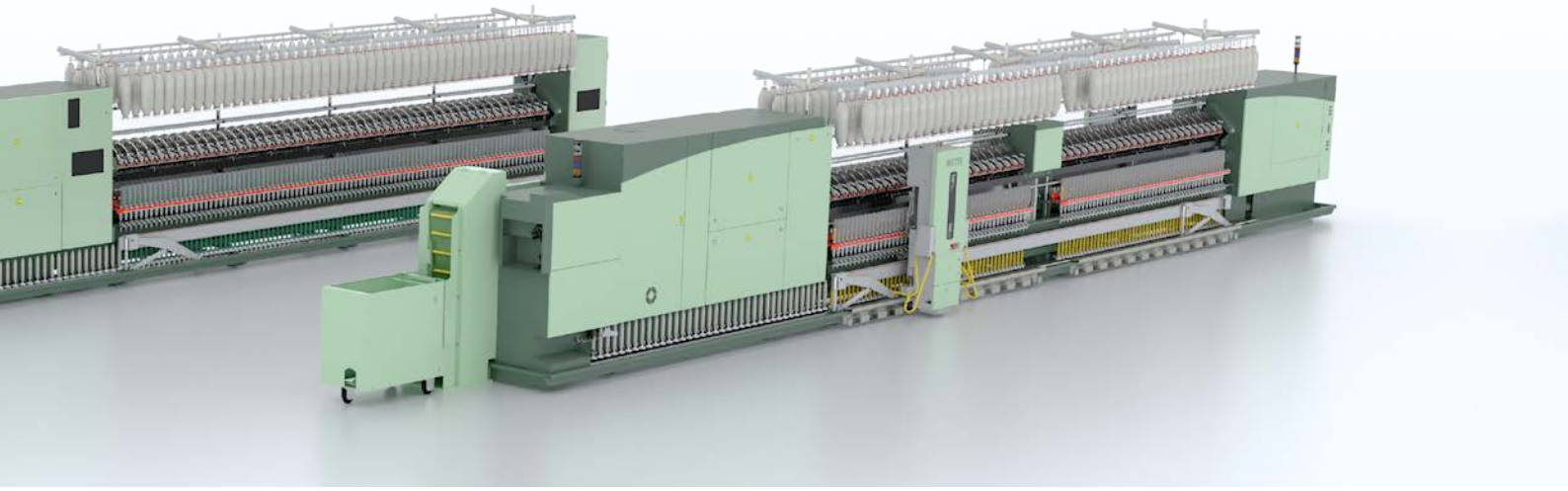
High-quality yarns produced with high flexibility and speed

The automated all-rounder for all yarn types

The ring spinning machine G 38 with up to 1 824 spindles and a fully electronic drafting system is setting new standards for the flexible production of high-quality yarns. It is particularly sought after by spinning mills that have to adapt quickly to new market conditions and therefore regularly switch yarn types. Parameters such as yarn count, yarn twist and twist direction can easily be adjusted on the operating unit. The G 38 features the integrated individual spindle monitoring system ISM premium. In comparison to ISM basic, ISM premium controls other parameters in addition to the ends down. The system can save additional personnel cost as unnecessary inspection rounds are eliminated. The process becomes even more efficient when ISM transmits information on the ends down position directly to the piecing robot ROBOspin. It is also possible to use compacting devices and produce special yarns.

The performance of the new G 38 generation with High-Speed package is remarkable. The energy-saving LENA spindles, the new ring/tube dimensions DUI 16 and the ring diameter of 34 mm enables highest spindle speeds up to 28 000 rpm.

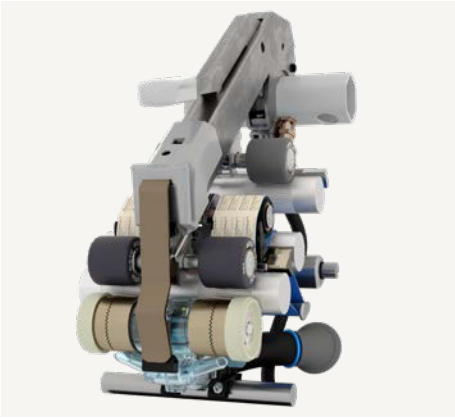
By integrating the winding machine into the Rieter portfolio, the process between the ring spinning machine G 38 and the Autoconer X6 can be optimized in real time. The necessary systems for the exchange of information are the individual spindle monitoring system ISM premium on the G 38 and the quality monitoring system SPID on the Autoconer. Both are proven technologies that can be combined via ESSENTIALoptimize.



Rieter Compacting Devices

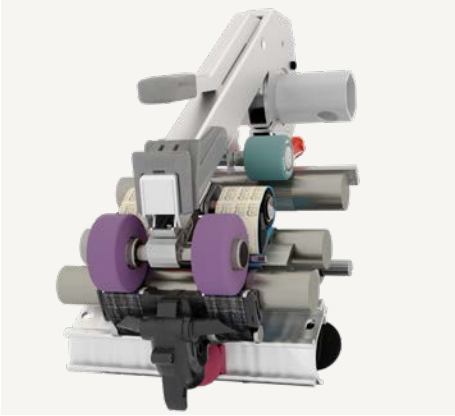
Spinning ring yarns and compact yarns using the same machine

Spin ring yarn one day and compact yarn the next – all on the same machine. The Rieter compacting devices COMPACTapron, COMPACTdrum and COMPACTeasy make it possible. They can be easily plugged into a ring spinning machine and unplugged just as quickly. The compacting devices can be incorporated into the specifications for new ring spinning machines and supplied as part of the machine. Machines that have already been installed can be easily retrofitted.



COMPACTdrum

A new dimension in reducing hairiness
COMPACTdrum is the ideal solution for products in which minimum yarn hairiness is important, as well as for markets where energy costs are relatively high and maximum productivity is essential. This compacting device uses less than one watt of energy per spindle. All technology components are durable and require little maintenance.



COMPACTapron

Optimal yarn strength thanks to new 3D technology
COMPACTapron is the perfect choice for customers who want to spin compacted yarns with maximum strength. Innovative 3D technology means that this compacting system is able to offer up to 1 cN/tex higher yarn tenacity than conventional compacting systems and is therefore setting new benchmarks in the sector. The three-dimensional compacting uses an airflow to compact the fibers from all sides.

COMPACTeasy

A mechanical system with low investment costs
COMPACTeasy is a mechanical compacting system for all standard applications. Despite the intensive double compacting, the system does not require any additional energy. It stands out thanks to its low investment cost. The yarn parameters are significantly improved in comparison to conventional ring yarns and other mechanical compacting systems. COMPACTeasy is the ideal solution for customers who want to spin standard fibers – in particular man-made fibers and their blends – into compact yarns.

Piecing Robot ROBOspin

Increased production through automation

ROBOspin is the piecing robot for Rieter ring spinning machines and compact-spinning machines. One fully automated robot per machine side very rapidly repairs ends down that occur while the machine is running or during doffing. The robot receives the required information from the integrated individual spindle monitoring system ISM. For cotton, the piecing efficiency in the first attempt reaches over 80%.

In the second attempt, auxiliary yarn is used. This achieves an additional 10% efficiency. Piecing with auxiliary yarn helps to protect the sensitive yarn layers and therefore improves quality. Automating this process with ROBOspin ensures a high level of productivity around the clock, reduces personnel cost and makes the operational organization of the spinning mill more straightforward.

Rieter Machine Works Ltd.
Klosterstrasse 20
CH-8406 Winterthur
T +41 52 208 7171
F +41 52 208 8320
machines@rieter.com
aftersales@rieter.com

Rieter India Private Ltd.
Gat No. 768/2, Village Wing
Shindewadi-Bhor Road
Taluka Khandala, District Satara
IN-Maharashtra 412 801
T +91 2169 664 141
F +91 2169 664 226

Rieter (China) Textile Instruments Co., Ltd.
390 West Hehai Road
Changzhou 213022, Jiangsu
P.R. China
T +86 519 8511 0675
F +86 519 8511 0673

www.rieter.com

3421-v1 en 2306