

R 70

Fully Automatic Rotor Spinning Machine R 70



The new benchmark for production
and raw material utilization

R70

OUTSTANDING ADVANTAGES

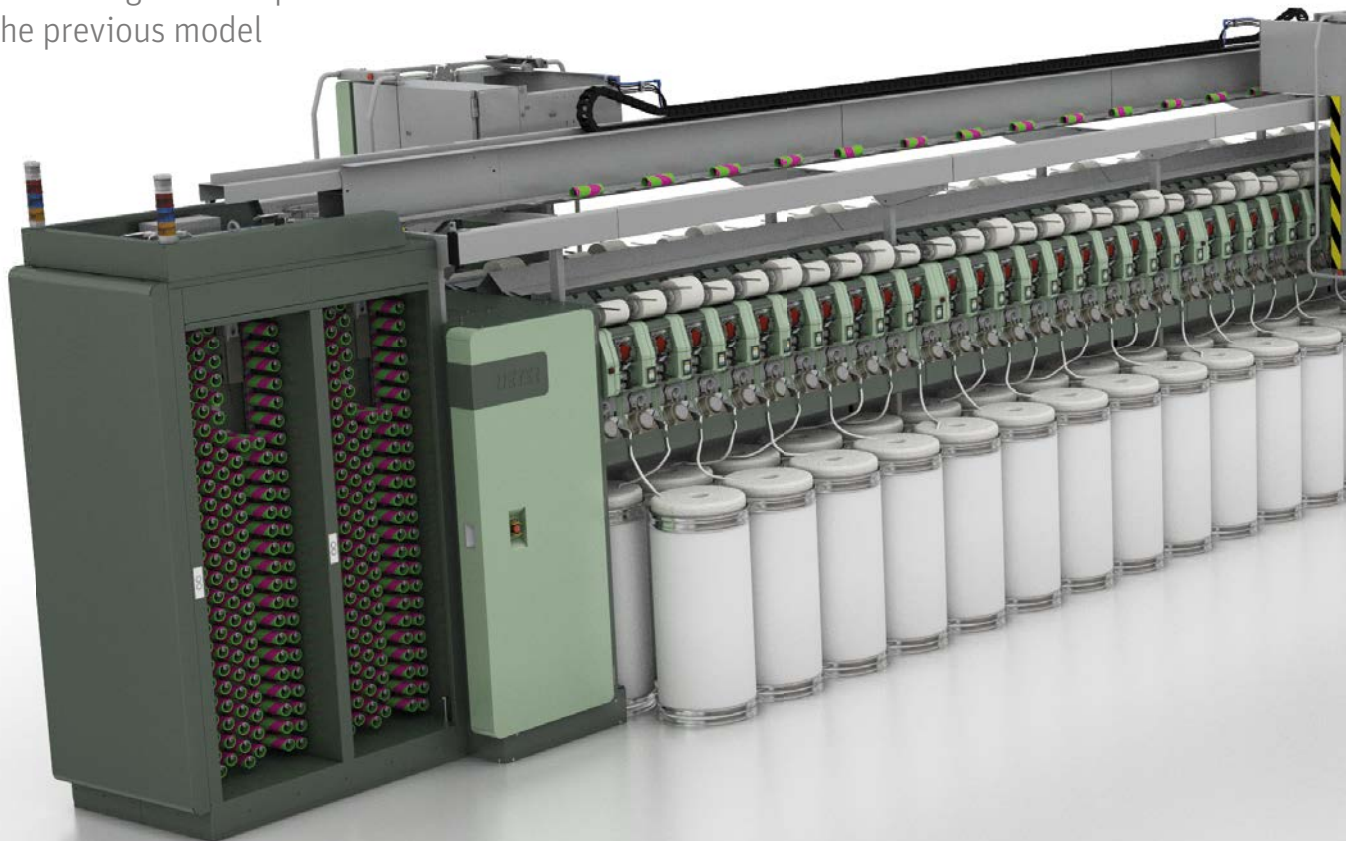
Space-Saving

More rotors on the same machine length in comparison to the previous model

Exceptional Package Quality

Flexible setting for package density

Prepared for packages with 350 mm diameter and 6 kg weight



Simple Operation and Maintenance

Easy-to-access spinning box

User-friendly maintenance

Energy Consumption Always in View

Interface to the ESSENTIAL – Rieter Digital Spinning Suite*

* Option

Higher Productivity and Raw Material Utilization

Higher trash extraction thanks to optimized BYpass

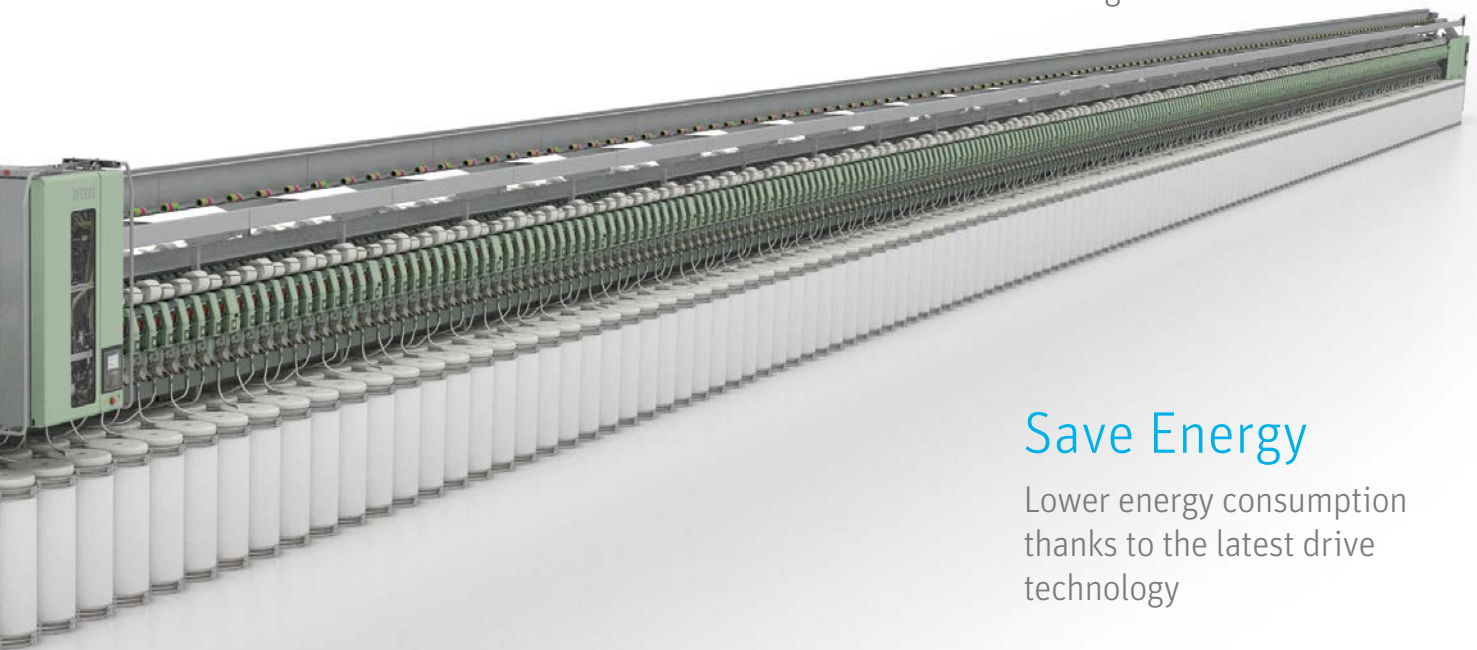
Unique spinning elements SPEEDpass and CHANNELpass with individual centering of the rotor and nozzle

Higher Efficiency

Higher productivity thanks to simultaneous yarn piecings on multiple spinning boxes

Quick start-up of the machine after a stop

Fast lot change



Save Energy

Lower energy consumption thanks to the latest drive technology

Decisive Advantages for Downstream Processing

Yarn-like piecings thanks to efficient rotor cleaning at every piecing and unique preparation of the yarn end

More Flexibility

Fast and flexible changing of the lots

Independent machine sides (VARIolot 2x1)

Multiple lots per machine side (VARIolot 2x2, 2x4)*

Up To 7% Higher Production

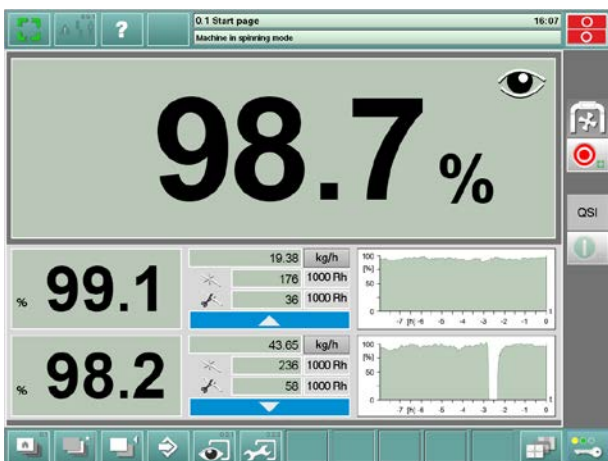
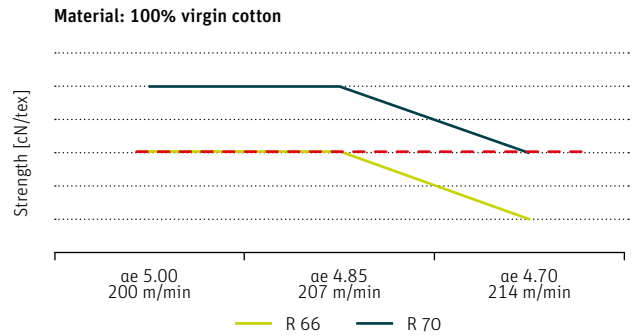
Innovations based on leading technology

Higher strength equals higher production

The new fully automatic rotor spinning machine R 70 combines the advantages of the improved spinning box with optimal deployment of individual drives at each spinning position. The results are high productivity, raw material savings, and low energy requirements.

The improved spinning box offers outstanding advantages in terms of productivity and raw material saving. It achieves better spinning stability and higher yarn strength compared to other machines. The potential for higher yarn strength can be converted directly into higher productivity. In certain cotton applications, the R 70 achieves even higher yarn strength and, at the same time, better spinning stability in comparison to competitors' machines. The higher strength enables yarn twisting to be reduced and consequently production to be increased.

Alternatively, other applications allow the rotor speed to be increased. Tests have shown that the R 70 is up to 7% more productive in comparison to the previous model. The excellent spinning stability ensures a low ends down level and consequently high machine efficiency.



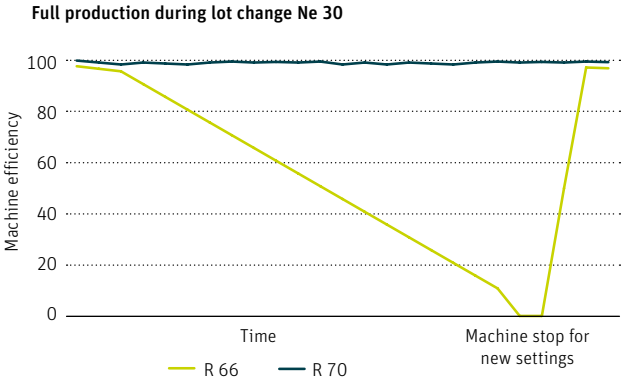
Higher efficiency with automation at every spinning position

Each spinning position is equipped with ultra-modern, electronically controlled individual drives and an innovative automation system. This enables multiple spinning positions to start spinning at the same time and allows more ends down to be eliminated without the efficiency being considerably affected. Production even remains high when external influences cause several ends down to occur.

Furthermore, this automation makes it possible to restart the R 70 within a short space of time after a stop. The production efficiency even remains high when there are frequent interruptions.

More production thanks to faster lot change

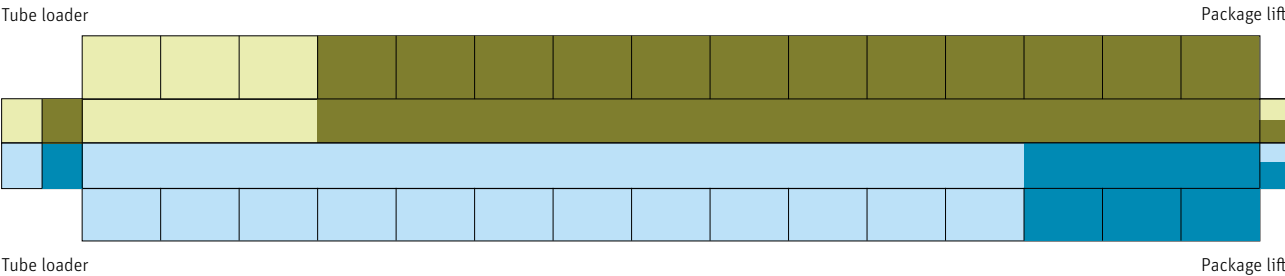
The new machine concept allows continuous lot change. Once the yarn has reached its target length on a package, the full package is replaced with an empty tube in a new color. The spinning position can then immediately produce a new lot with different settings. This principle saves the run-out times before the lot change that are required with centrally driven machines. This minimizes production losses. Depending on the frequency of this change, this enables annual production to be increased by more than 2%.



High flexibility with multiple lots per machine side

The R 70 is equipped with VARIOlot 2x1, which consists of an independent tube loader, a package conveyor belt and a package lift for each machine side. This enables a different lot to be spun on each side. As an option, the machine can also process multiple lots per side at the same time (e.g. VARIOlot 2x2). This means that there are no limits to the flexibility of the R 70.

VARIOlot 2x2: up to 2 lots per machine side



Save space

Despite having the same number of spinning positions, the R 70 requires less space than the previous model. This means that, even in existing buildings, maximum production in the space available can be achieved with the R 70.

Savings in the Raw Material

Modern spinning and piecing technology for high yarn quality

Leading quality thanks to unique technology components

The easy-to-access and maintenance-friendly spinning box in the R 70 is equipped with these unique, proven technology elements:

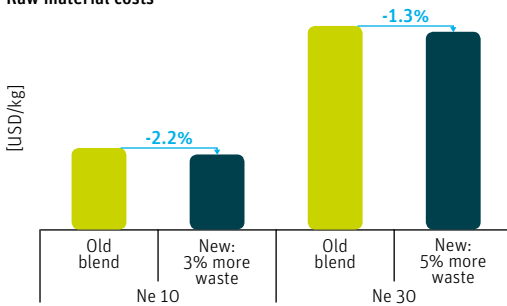
- TWISTunit and self-centering for exact positioning of the nozzle and rotor
- Cool-Nozzle technology for better heat dissipation
- CHANNELinsert with and without SPEEDpass for optimizing the fiber flow
- CHANNELpass for adjustment to the fiber types



Trash extraction improved again

The well-known and proven BYpass function for trash extraction has been redesigned. This enables even more trash particles to be extracted. The result is fewer ends down. The more efficient trash extraction means that the rotor groove gets less dirty. The yarn quality remains consistently high, even when the rotor is running for a long time.

Raw material costs



Further optimize raw material costs

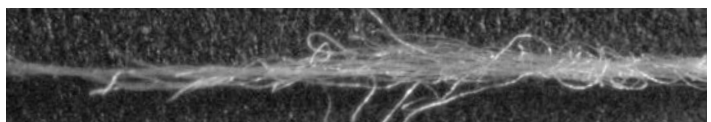
The increased productivity, the higher strength and the optimal utilization of the raw material result in previously unrivaled possibilities for optimizing costs with the R 70.

Greater reliability when piecing

The R 70 sets new benchmarks with its innovative piecing technology. The yarn end is processed uniformly and in such an optimal way that would otherwise only be possible by hand. The piecer is therefore stronger and looks better too. In conjunction with the rotor cleaning, this new technology ensures a high piecing success rate.

Decisive advantages for downstream processing

A clean rotor groove minimizes ends down and therefore piecings. The proven technology of the targeted pneumatic cleaning of the rotor groove at each piecing is integrated into the R 70. The yarns exhibit optimal running behavior in downstream processing.



Save up to 5% Energy

Latest technology and efficient solutions

Save energy with the modern machine concept

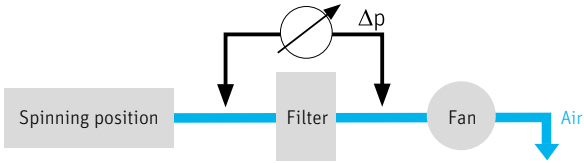
During the development of the R 70, great attention was paid to the saving potential with regard to energy consumption. The replacement of belt drives with deflection pulleys through modern individual drives fundamentally saves energy. The rotor drive, which runs on contactless bearings, utilizes the latest technology. As a result, the R 70 uses the additional advantages of the developments made in recent years in this field.

The negative pressure offers further saving potential. Optimal air routing and the avoidance of unnecessary volume flows from the spinning box into the filter save energy. Familiar advantages, such as the proven intelligent filter cleaning function, have been adopted from previous models.

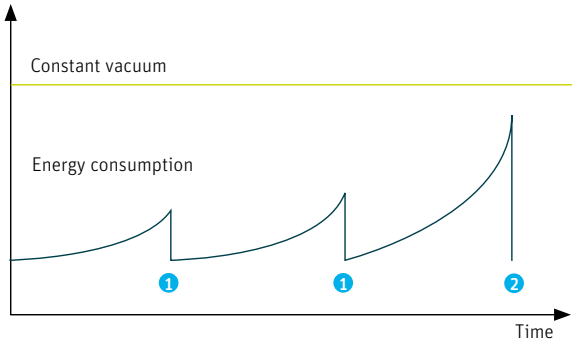
The particularly low energy consumption of the R 70 results in lower electrical losses, which means that less heat is generated. The spinning positions therefore heat up less, and less effort is needed to air-condition the spinning room.

Energy consumption always in view

With additional monitoring, the energy consumption of the R 70 can be measured and displayed as specific energy consumption in kilowatts per kilogram of produced yarn. The calculated data can be transmitted to the central data system of the ESSENTIAL – Rieter Digital Spinning Suite.*

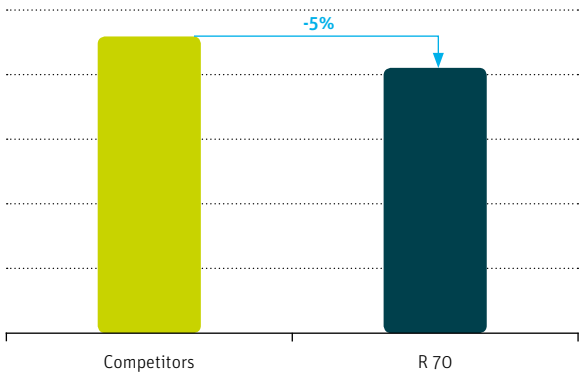


Differential pressure measurement (Δp) initiating automatic filter cleaning



1 Automatic filter cleaning 2 Suction box cleaning

Energy consumption



* Option



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