Suessen

COMPACTeasy

Compacting device COMPACTeasy

The mechanical
compacting solution

OUTSTANDING
ADVANTAGES

Low Investment Costs

For customers with a high cost awareness

No Additional Energy Required

Intensive double compacting thanks to invariable fiber guiding in the y-channel of the Compactor without additional energy consumption

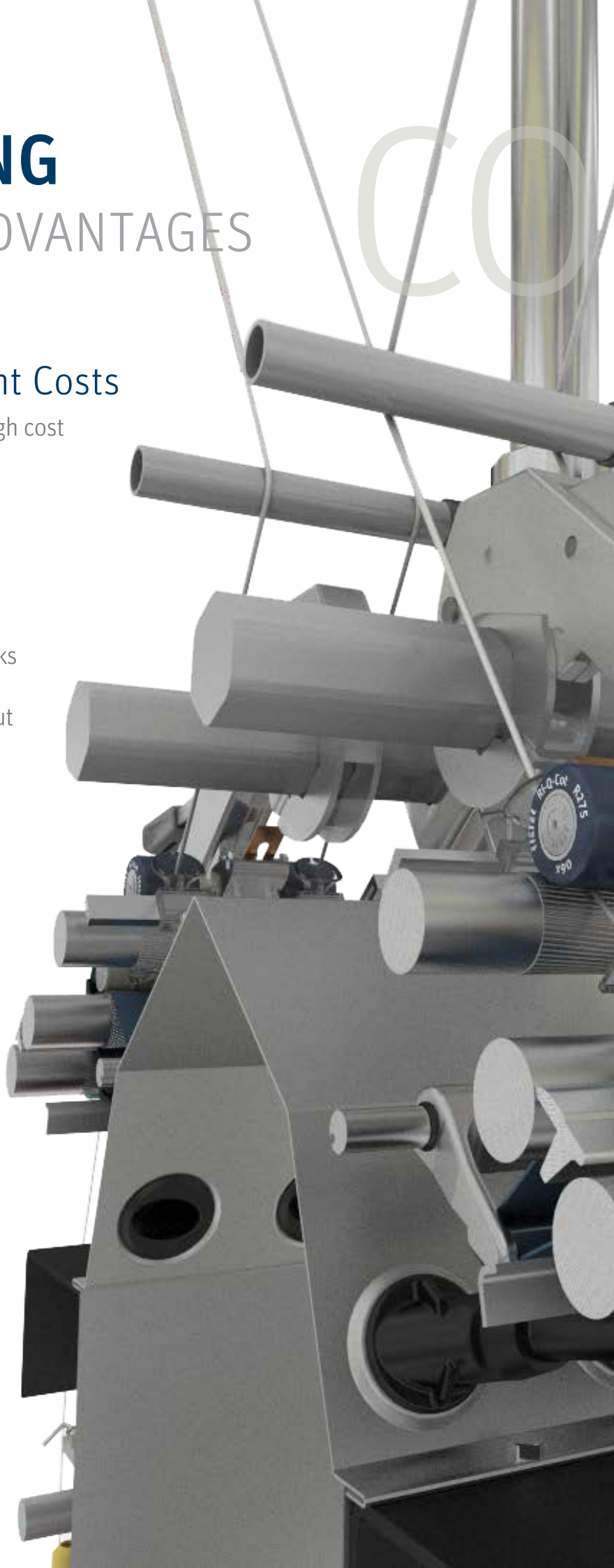
Excellent Yarn Characteristics

Similar levels in the yarn values and parameters as in pneumatic compact-spinning and with very low hairiness values

For Any Type of Ring Spinning Machine

New ring spinning machines can be equipped with the compacting device

Easy retrofit on machines that have already been installed



MPACTeasy

Consistent Yarn Quality

Same yarn quality from spindle to spindle thanks to the traverse motion support for yarn count ranges from Ne 16 to Ne 80

Reduction of Maintenance Work

Traverse motion of the Compactor leads to longer lifetime of cots and aprons

Processes All Standard Materials

For the most common applications, including the spinning of blends and 100% man-made fibers

Fast Plug in and Plug out

Quickly switching of production from ring yarn to compact yarn

Mechanical Compacting at Low Investment Costs

Real compacting with no additional energy

The compacting device COMPACTeasy is a mechanical compacting system which allows real compacting without additional energy consumption thanks to the y-channel in the Compactor. All standard raw materials such as cotton, man-made fibers and their blends can be processed with COMPACTeasy.

COMPACTeasy on Rieter P3-1 top weighing arm

COMPACTeasy retainer with COMPACTeasy Roller, easy-Spring and Compactor with y-channel

Reduction of maintenance work

Due to the traverse motion of the Compactor no grinding of the COMPACTeasy Roller is necessary. The cots are exchanged at the end of their service life. Depending on the fiber material spun, a lifetime of 1.5 years can be expected. This reduces the maintenance work significantly.

Less wear and tear

The device consists of the retainer holding the front top roller and the smaller COMPACTeasy Roller. The easy-Spring presses the COMPACTeasy Roller onto the bottom roller. Between the two top rollers there is the Compactor with the y-channel and the preceding Pin. The Compactor is pressed against the bottom roller by the Compactor spring with a low spring force. This causes considerably less wear on the Compactor than magnetically loaded compacting elements.

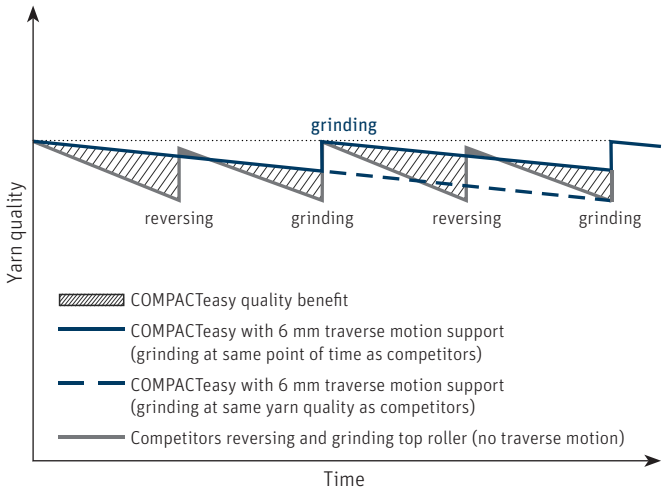
The retainer consists of the red body, the easy-Spring to apply the pressure to the COMPACTeasy Roller and the Compactor-spring to hold the Compactor and apply soft pressure to position it on the bottom roller. The retainer with the delivery top roller is clipped into the top arm. This top roller is part of the basic ring spinning machine and is reused. COMPACTeasy requires top roller cot dimensions of 29 x 25 mm.

Consistent Yarn Quality

Constant yarn quality thanks to traverse motion system

Part of COMPACTeasy is the traverse motion support. The traverse motion of the standard rod in the ring spinning machine is transferred along the drafting plane directly to the Compactor. This enables a traverse motion of 6 mm at the COMPACTeasy Roller. This is a considerable advantage over the flipping of the front top roller usual in mechanical systems. It extends the lifetime of cots and ensures in particular a permanently constant yarn quality.

To support the traverse motion system in the ring spinning machine, pneumatic or electronic drives are installed at each machine end. Each device moves the right and left traverse motion rod simultaneously. The pulling of the traverse motion rods prevents them from buckling.



Quality advantage of COMPACTeasy traverse motion support compared to flipping top rollers in other systems

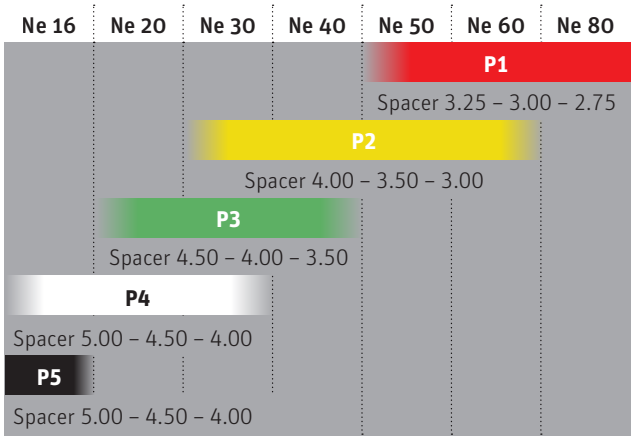
Transmission of the traverse motion to the Compactor (view from back side)

Excellent Yarn Characteristics

Improved yarn irregularity and increased yarn tenacity

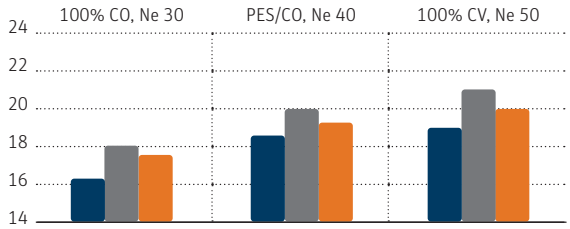
The function of the Pin is similar to the PINSpacer in conventional ring spinning. The yarn quality is determined not only by the Compactor, meaning the y-channel, but also by the integrated Pin. This Pin preceding the compacting channel takes effect in exactly that zone of the drafting system where the fibers have the least guidance. This process improves the yarn irregularity and increases yarn tenacity. Consequently, the yarn parameters reach a level similar to pneumatically spun compact yarns and a much better level compared to conventional ring yarn and other mechanical compacting systems.

Compactor with y-channel and Pin

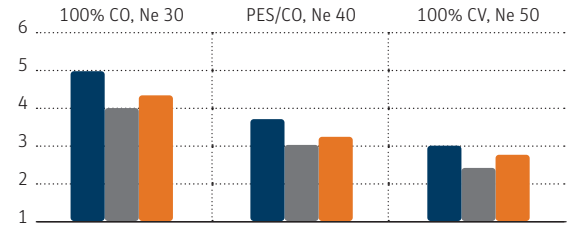


Four different Pin heights (1 – 4) and one without Pin (5) are assigned to yarn count ranges from Ne 16 to Ne 80

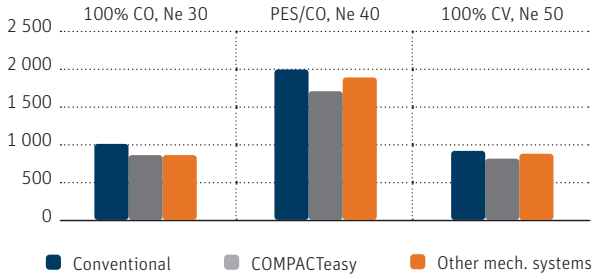
Tenacity in cN/tex



Hairiness H



IPI



Yarn values achieved with COMPACTeasy vs. conventional ring spinning resp. other mechanical compacting system for different yarn counts and materials

COMPACTeasy 2.0

Improved stability meets extended application range

COMPACTeasy 2.0 takes compact spinning to the next level by combining enhanced running stability with an extended application range. The latest generation improves running stability and significantly optimizes IPI performance. The key enhancement lies in the reliable double-spring design combined with optimized geometry. This ensures stable operation, higher productivity even under demanding conditions and with coarser yarn counts.

What's new in COMPACTeasy 2.0

- Modification of the COMPACTeasy system to improve running stability with less end breaks up to 10% and reduce IPIs up to 5%
- Fail-safe, stronger, newly designed double COMPACTeasy spring
- With support for coarser counts (e.g. Ne 16), COMPACTeasy 2.0 offers maximum flexibility across a wide range of applications
- Available as an option in addition to the standard COMPACTeasy

COMPACTeasy TWIN

Twin yarn production without suction energy for Compacting

COMPACTeasy TWIN expands the proven mechanical compacting concept of COMPACTeasy by enabling twin yarn production without any suction energy – a highly economical solution for mills aiming to enter or extend their twin yarn segment.

The system combines real mechanical compacting, improved yarn characteristics, and broad material and yarn count range Ne 16/2 to Ne 100/2 – no material restrictions (CO, CV, PES and blends).COMPACTeasy is the only Twin system which enables a traverse motion (limited to 2 mm for coarse counts and 3 mm for fine counts). Compatible and easy retrofittable on existing COMPACTeasy machines.

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