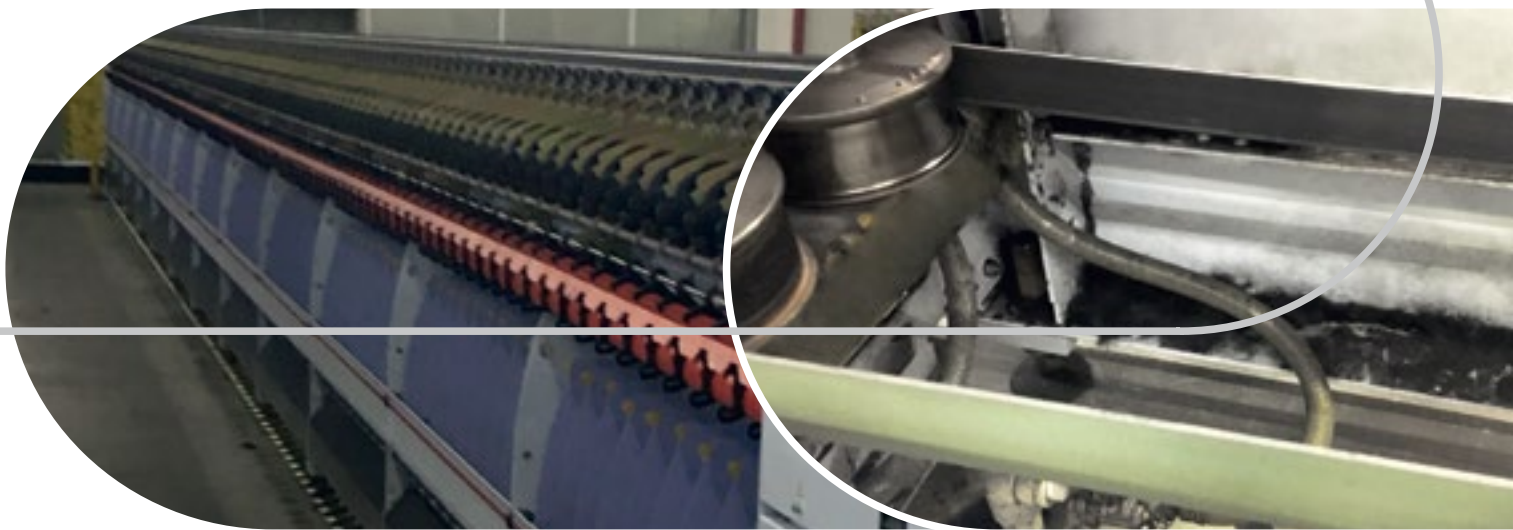


TC-55ERA

Advanced Version of TC-55ER



Habasit has now optimized the belt body materials and construction of the TC-55ER, and is setting new benchmarks for operational efficiency and reliability.

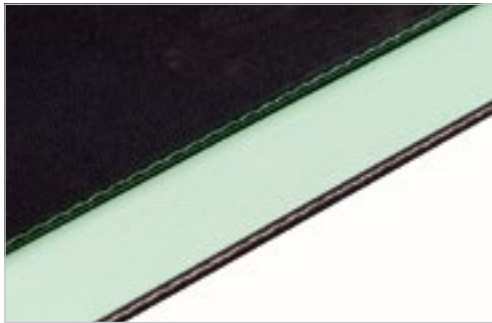
The new advanced version TC-55ERA is particularly suitable as a tangential belt for applications in yarn processing, e.g. for Two-for-One twisting machines.

Thanks to better longitudinal flexibility, customers benefit from the following additional advantages:

- Outstanding flex-fatigue properties
- Up to 4% lower energy consumption compared to the TC-55ER
- Highest reliability combined with long belt life
- All other properties remain unchanged: the TC-55ER can be replaced by the new advanced TC-55ERA without any application restrictions

TC-55ERA

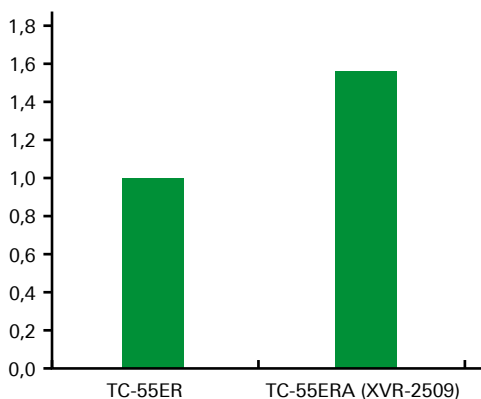
Optimized for operational efficiency and lifetime



The TC-55ERA has been extensively tested in the field for over a year on representative applications and under very demanding climatic conditions. Tests at leading yarn producers showed:

- Excellent machine performance and output
- Precise and uniform rpm spindle speeds and yarn quality
- Long belt service life even in hot and humid regions

Longitudinal flexibility



The TC-55ERA has more than 1.5 times better longitudinal flexibility than the TC 55ER. This results in substantial energy and cost savings.

Energy and cost savings

Compare the energy costs for Habasit's polyester TC-belts vs competitors' Polyamide tangential belts:

| | TC-55ER Former version | TC-55ERA Optimized version |
|---|---------------------------|-------------------------------|
| Average energy saving vs competitors' Polyamide tangential belt | 4% – 6% | 8% – 10% |
| Average energy cost savings per spindle/year | ~ 1.1 USD | ~ 2.0 USD |
| Average energy-saving potential per year in a spinning mill with 100,000 spindles | 110'000 USD | 200'000 USD |

Assumptions

Energy consumption per spindle: 25 W
Energy costs per kWh: 0.1 USD
Operation time: 24 hours / 360 days
Number of spindles per plant: 100,000

TC-55ERA: the right response to increasing energy costs!

TC-55ERA

Optimized for operational efficiency and lifetime

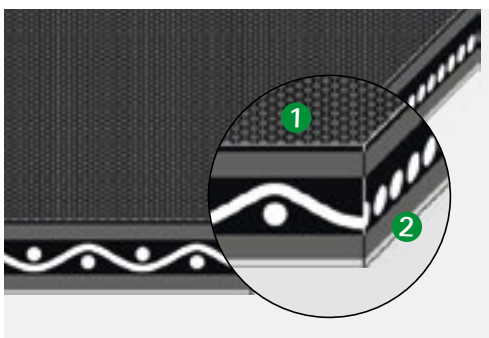
Performance summary

| Key features | Your benefits |
|---|--|
| <ul style="list-style-type: none"> Optimized belt body construction with new thermoplastic foil Longitudinal flexibility Excellent flex-fatigue properties | <ul style="list-style-type: none"> Low energy consumption Belt can cope with demanding climatic conditions, e.g. with hot and humid environments in Asia Long belt service life |
| <ul style="list-style-type: none"> Excellent dimensional stability No sensitivity to changing ambient humidity | <ul style="list-style-type: none"> No re-tensioning required after installation with adequate initial tension Reduced machine downtimes Consistent rpm Uniform yarn quality High machine performance Low operating costs |
| <ul style="list-style-type: none"> Durable and abrasion resistant elastomer cover Constant coefficient of friction Excellent flex-fatigue properties | <ul style="list-style-type: none"> Reliable and consistent grip Consistent rpm Uniform yarn quality High machine performance Long belt service life |
| <ul style="list-style-type: none"> Good belt tracking | <ul style="list-style-type: none"> No re-adjustments required Trouble-free machine operation Reduced machine downtimes High machine performance |
| <ul style="list-style-type: none"> Adhesive-free joining* Durable joint with excellent flex-fatigue properties | <ul style="list-style-type: none"> Easy on-site joining Low maintenance costs Long belt service life |

* Please be careful to follow the new joining instructions for the TC-55ERA

In brief: high machine performance, long belt life and low lifecycle costs

Cross-section



- 1 Rough structure on black pulley side
- 2 Rough structure on light green side

Apart from the surface structure and color, the product is symmetrical

Technical key data

| Type | Thickness | | k1% after running-in | | Color of pulley side | Color of opposite side |
|----------|-----------|------|----------------------|----------|----------------------|------------------------|
| | mm | inch | N/mm | lbs/inch | | |
| TC-55ERA | 3.0 | 0.12 | 25 | 143 | Black | Light green |

Solutions in motion



Comprehensive consulting and technical support

Profit from the best consulting and technical support in the lightweight belting industry. Local experts are always available to assist you with your belting needs. The Habasit team is proud to provide the highest level of support, together with top-quality products that have led the global market for decades.



Belt selection and calculation assistance

We are always glad to help you select the most suitable belt for any application for your convenience. We now also provide the free online tool 'SeleCalc' which allows you to easily make selections and calculations yourself. Simply register online at selecalc.habasit.com.



Fabrication, assembly and local installation services

As a full-service belting provider, we offer joining and assembly services either at our own locations or directly on your equipment.



Habasit has over 30 affiliates worldwide, each with its own inventory, fabrication, assembly and service facilities.

Together with representative offices and numerous qualified distributors, we can react quickly and efficiently to meet all your needs.



Customer training programs

To ensure the optimal performance and maximum lifespan of all our products, we offer training programs and various support tools. This includes proper procedures for fabrication, installation, assembly, maintenance and belt repair, all of which take place at a Habasit site or at your location.



Belt monitoring, inspections, analyses and process optimization proposals

We organize and handle belt maintenance, inspections, analyses and surveys at customers' sites. Upon request, we are ready to develop optimization proposals to ensure you're getting maximum value from your machinery and process output.



Design assistance for customized solutions

Habasit believes in building partnerships with our customers. Our engineering team will work closely with your engineers on joint design developments from initial design to final implementation. This expert service can be invaluable for projects involving new technologies or large-scale modifications and adaptations.

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