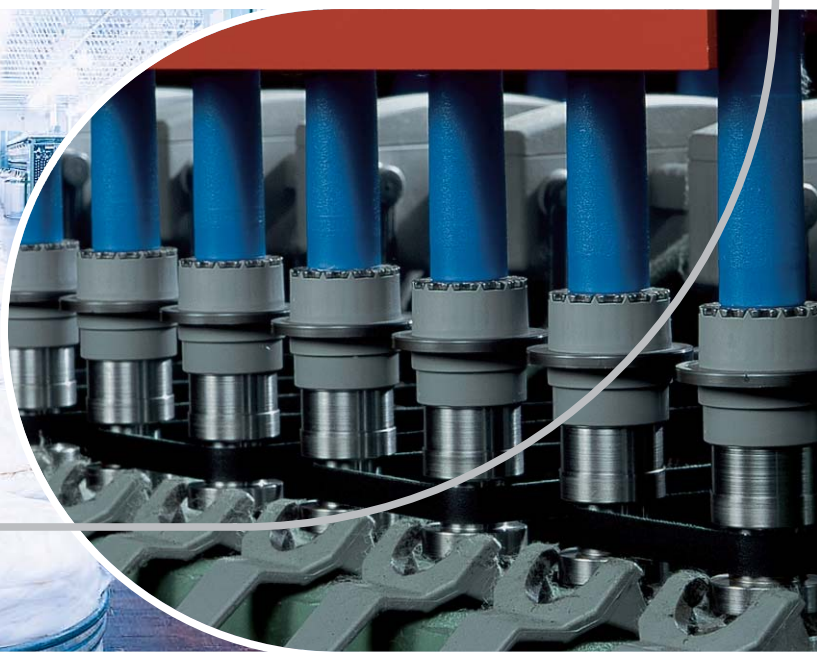
Industries
Media No. 2006

habasit

# Textile Industry
# Power Transmission and Conveyor Belts for Yarn Processing

## Habasit – Solutions in motion







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# Innovative solutions for the textile industry

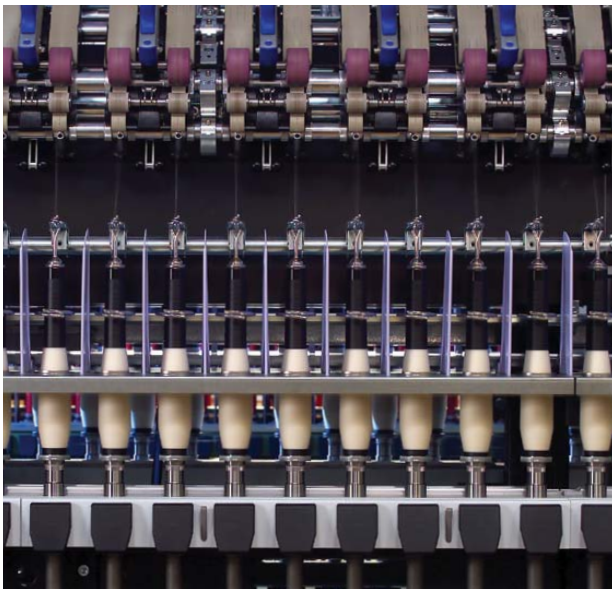
**Innovation is a key word at Habasit**
Yarn manufacturing requires a wide range of power transmission belts, spindle tapes and conveyor belts. Habasit's extensive offering allows customers to choose the best product for their application. The focus of all our developments is on increased service life, higher reliability, reduced energy consumption, and improved price/value ratios.

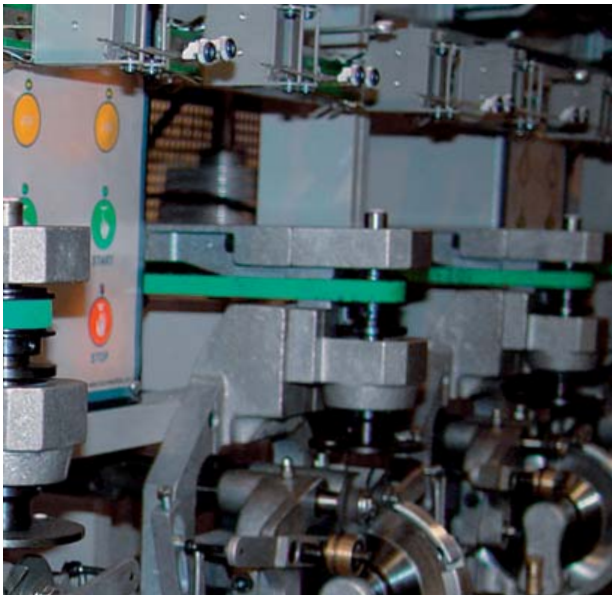
Habasit works closely with leading machine manufacturers and end-user groups to ensure customer-oriented product and service developments that deliver high quality and fast time to market. For example: TC thermoplastic power transmission belts with polyester (PET) fabric as the traction layer.

**Focus on yarn processing**
Habasit is the leading belt manufacturer worldwide, offering a complete product range for all applications in the short- and long staple, as well as in the man-made fiber industries. From bale opening to winding and twisting.

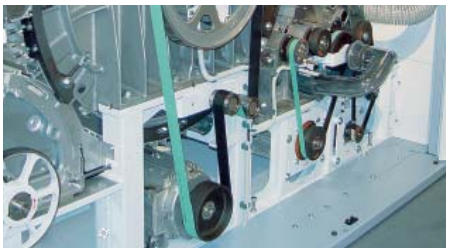
**The right solution for every application**
Our extensive range of solutions enables our customers to choose the best product for their applications.

**Competence and experience**
Habasit's application engineers, technicians and joining specialists provide professional consulting, superb customer service and excellent support. Founded in 1946, Habasit has proven its understanding of customer needs for more than 60 years. With our extensive global network, Habasit is able to respond to any request that you may have with world-class, premium quality belting solutions tailored to your specific needs.

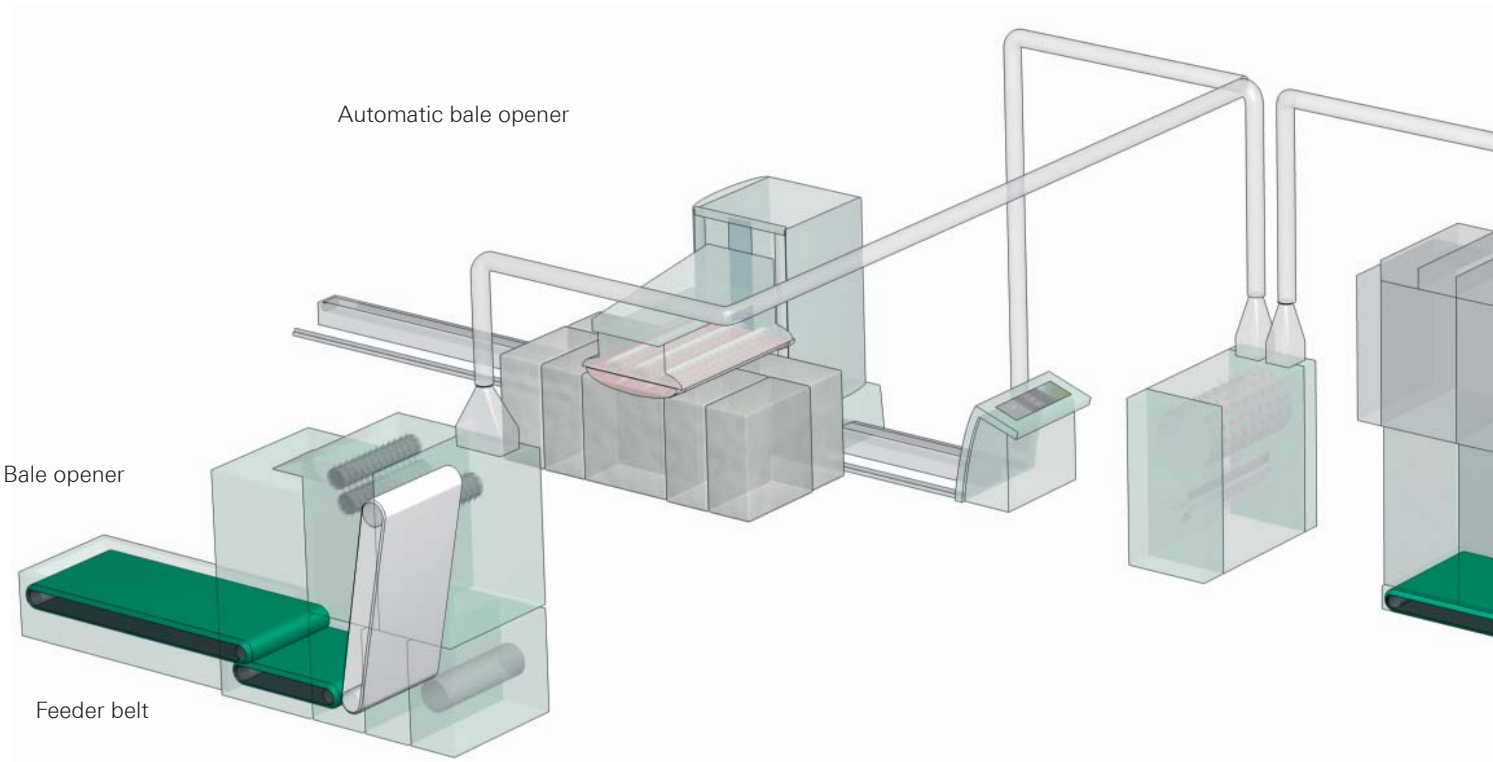






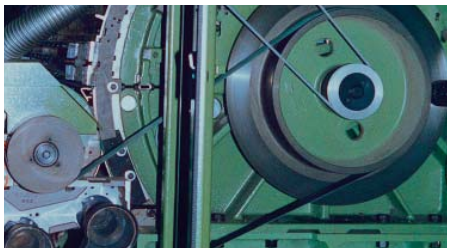
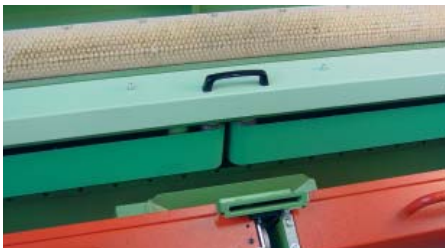



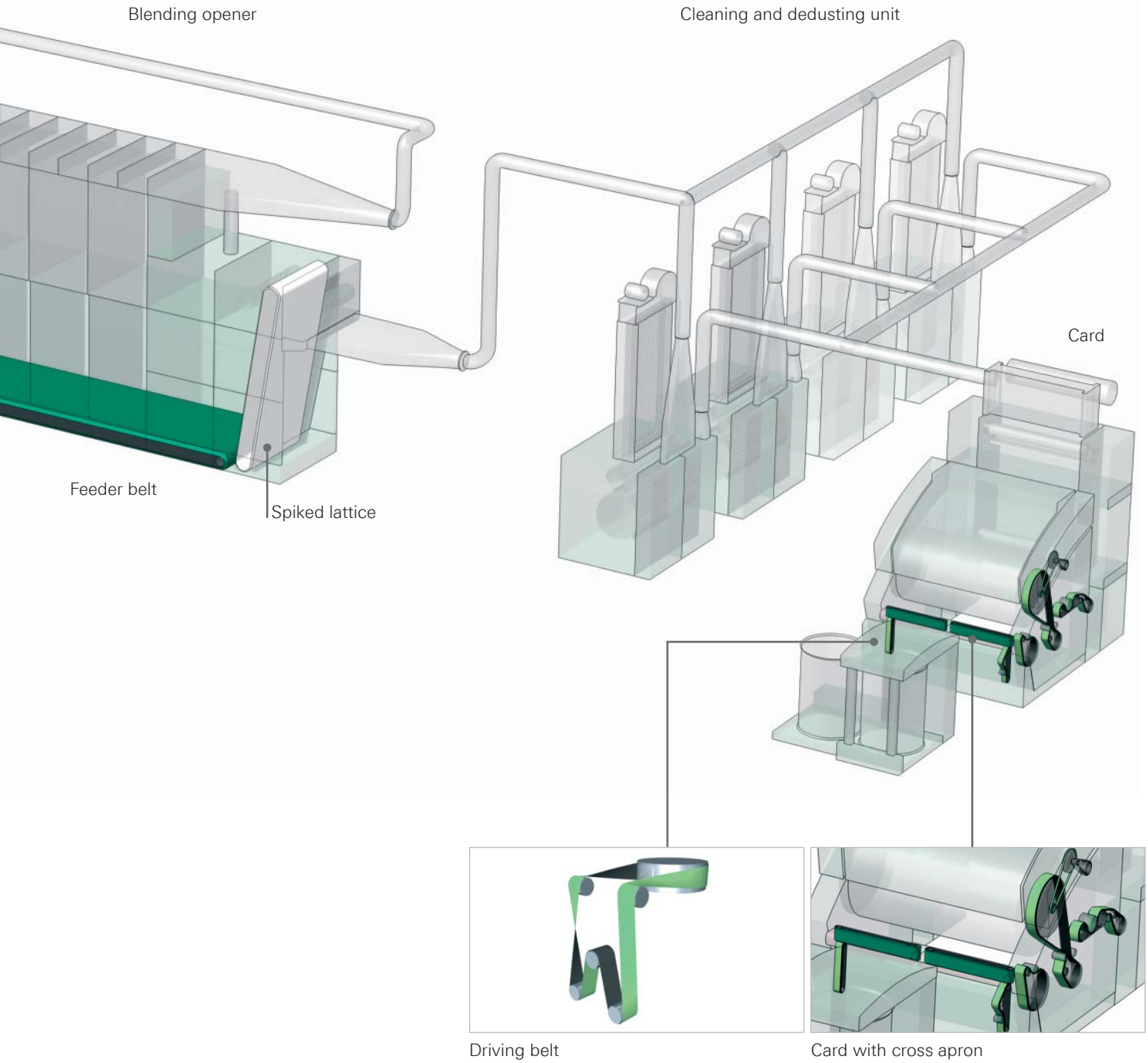





These drawings show schematic examples of selected applications and processes, and are neither complete nor comprehensive. The belt recommendations (use/application/layout) can only be considered as a general suggestion. Due to the complexity of the various processes and technical requirements, and external influences such as the nature or properties of the transported goods, process speeds, stages of treatment/handling, environmental or process temperatures, humidity, chemicals, additives, ingredients, and recipes, etc. there are many possible solutions.



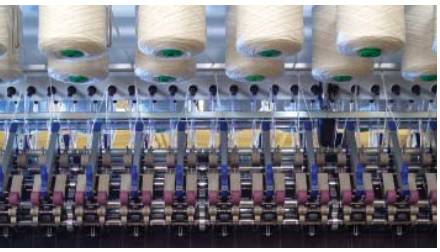







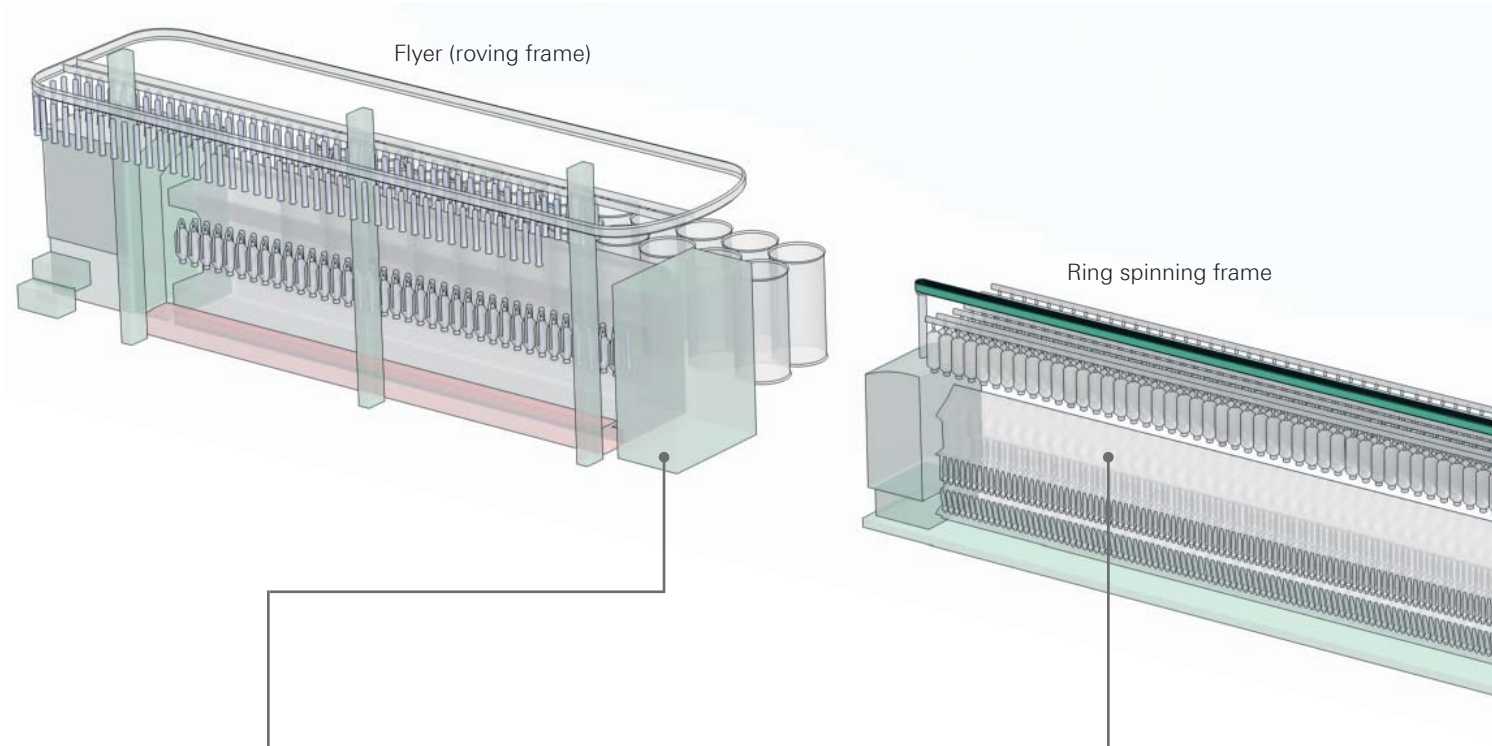
Driving belt

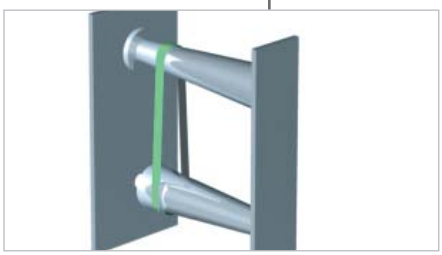

Card with cross apron



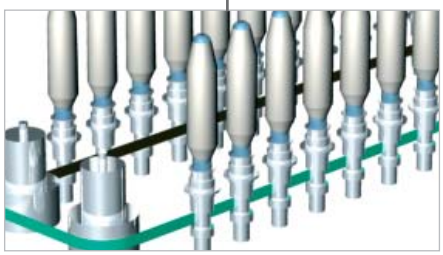




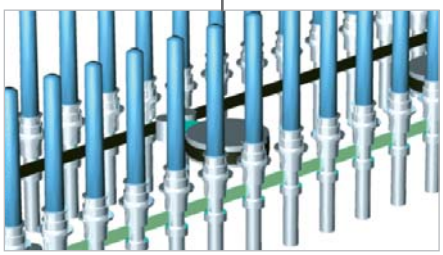


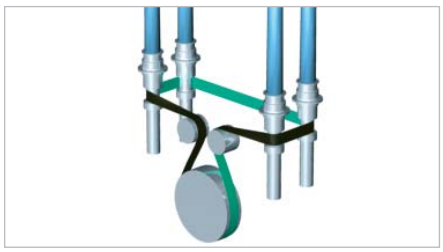
Cone drive



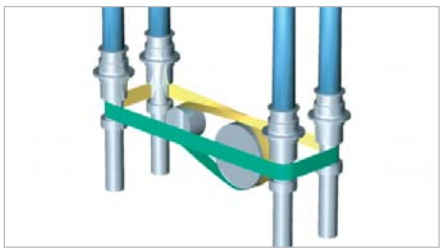
Tangential belt drive



Group/selection drive



Four-spindle drive (two jockey pulleys)

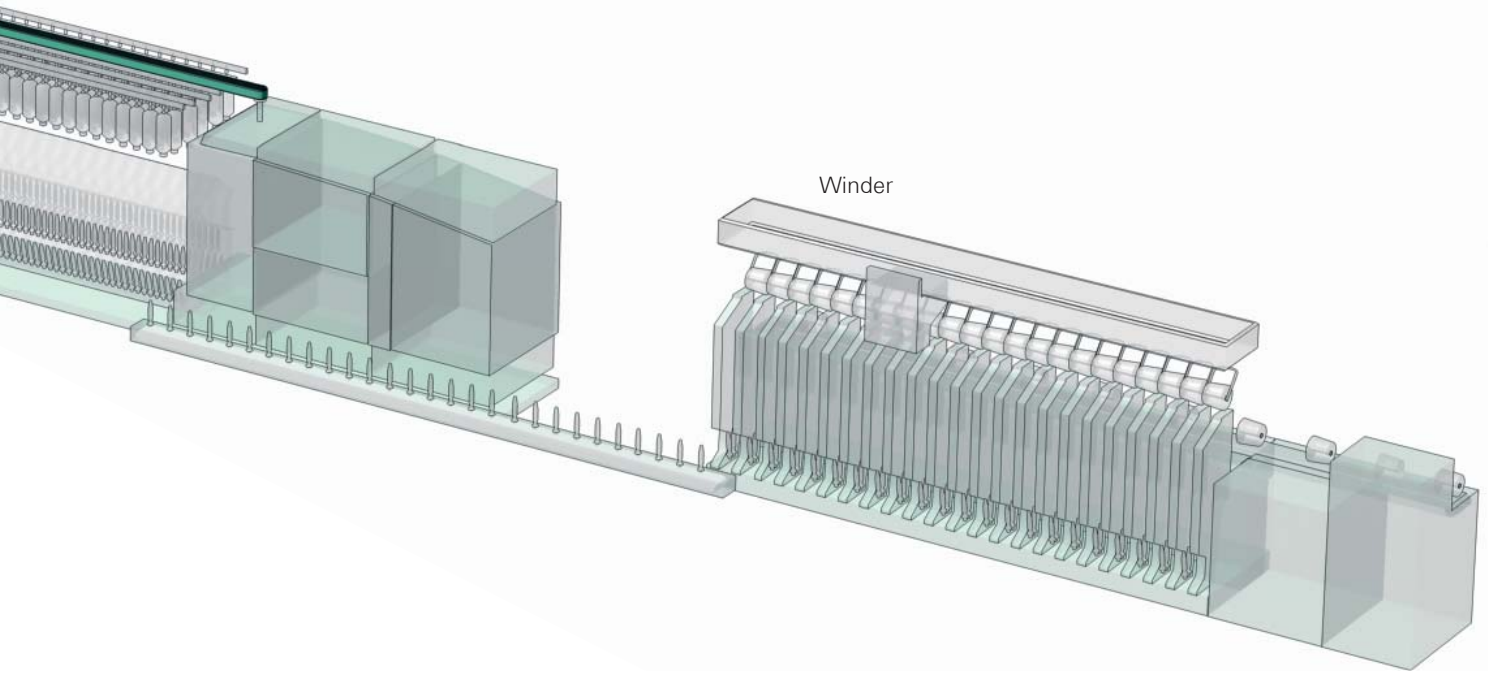


Four-spindle drive (one jockey pulley)

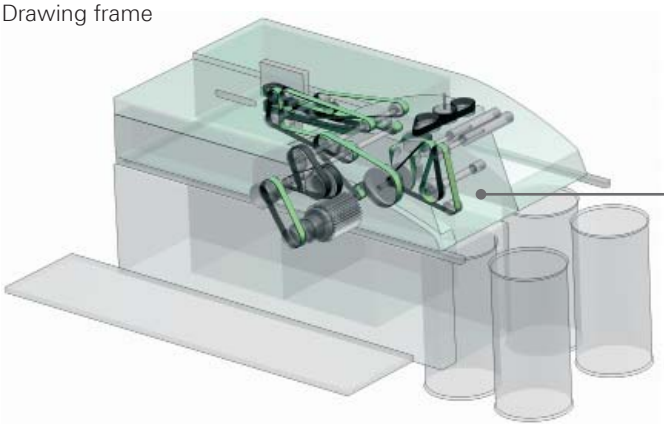


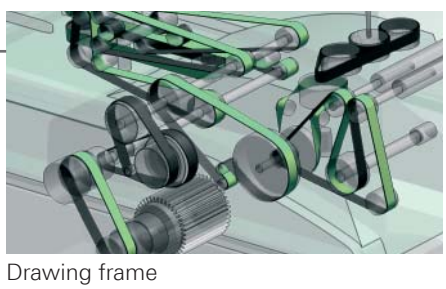






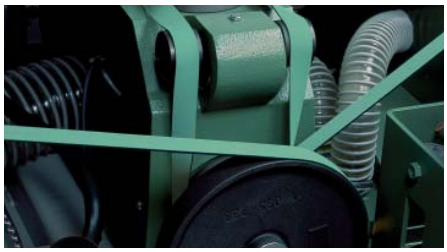

Drawing frame





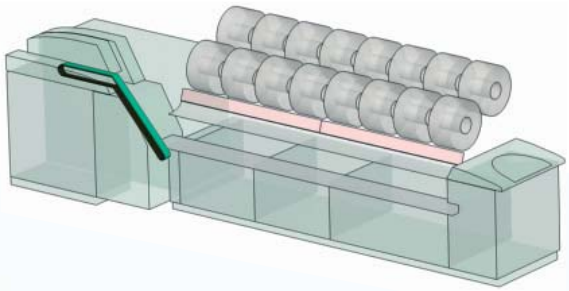
Drawing frame

# Ring spinning for combed yarn

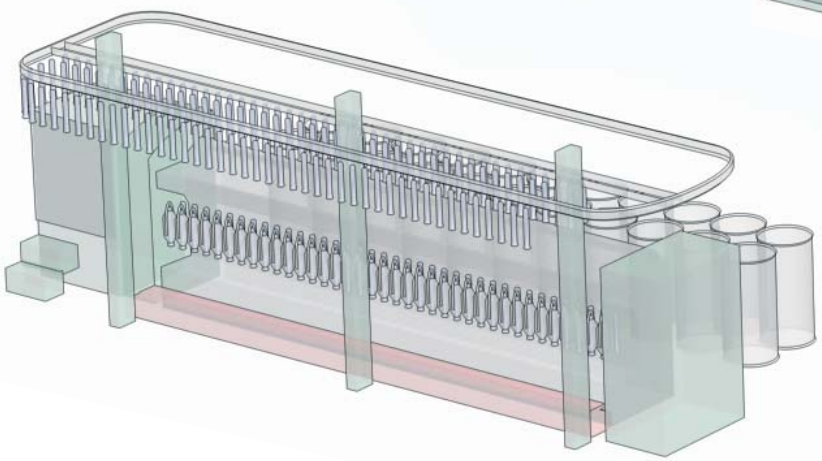





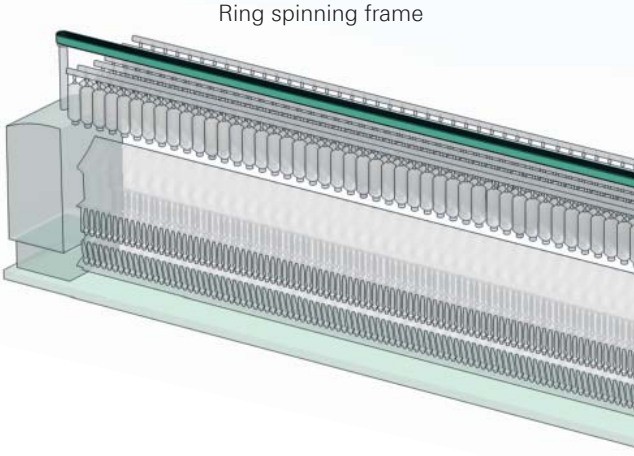
Comber



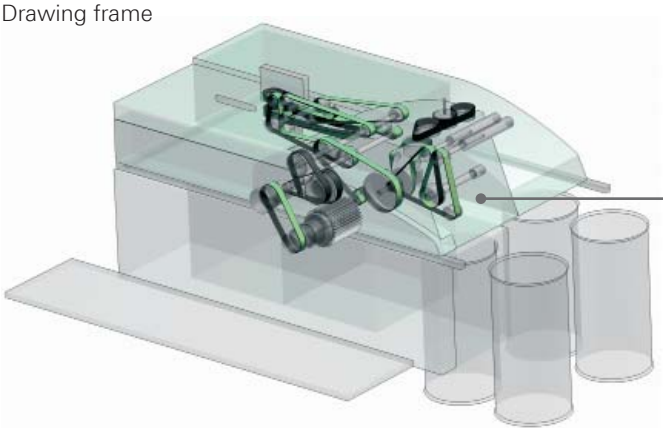
Flyer (roving frame)

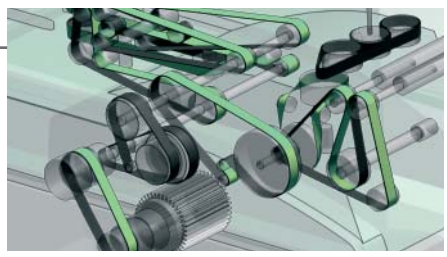


Ring spinning frame



Drawing frame





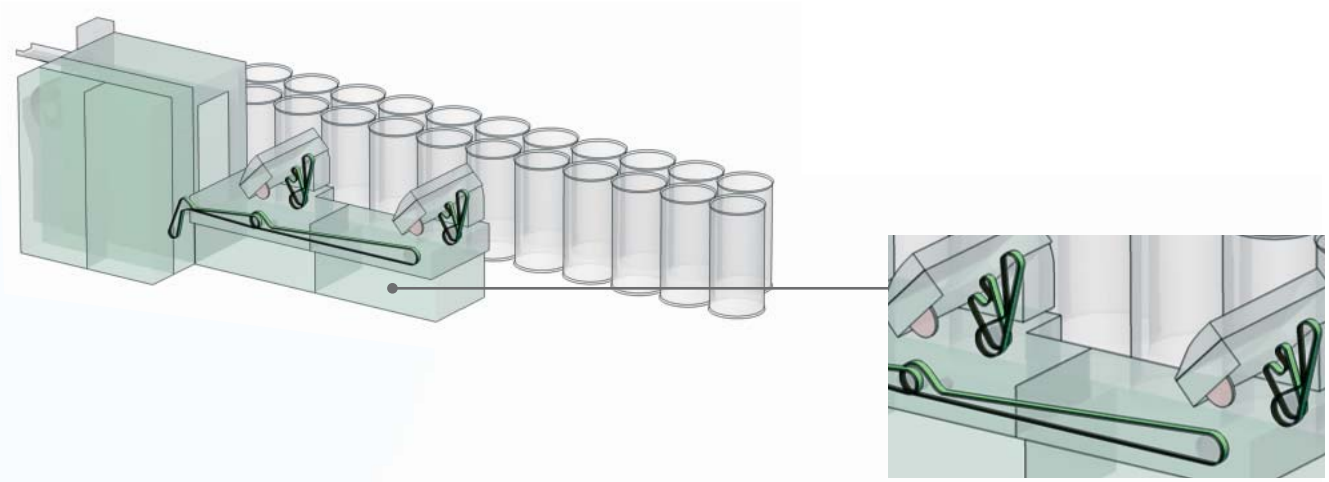
Drawing frame





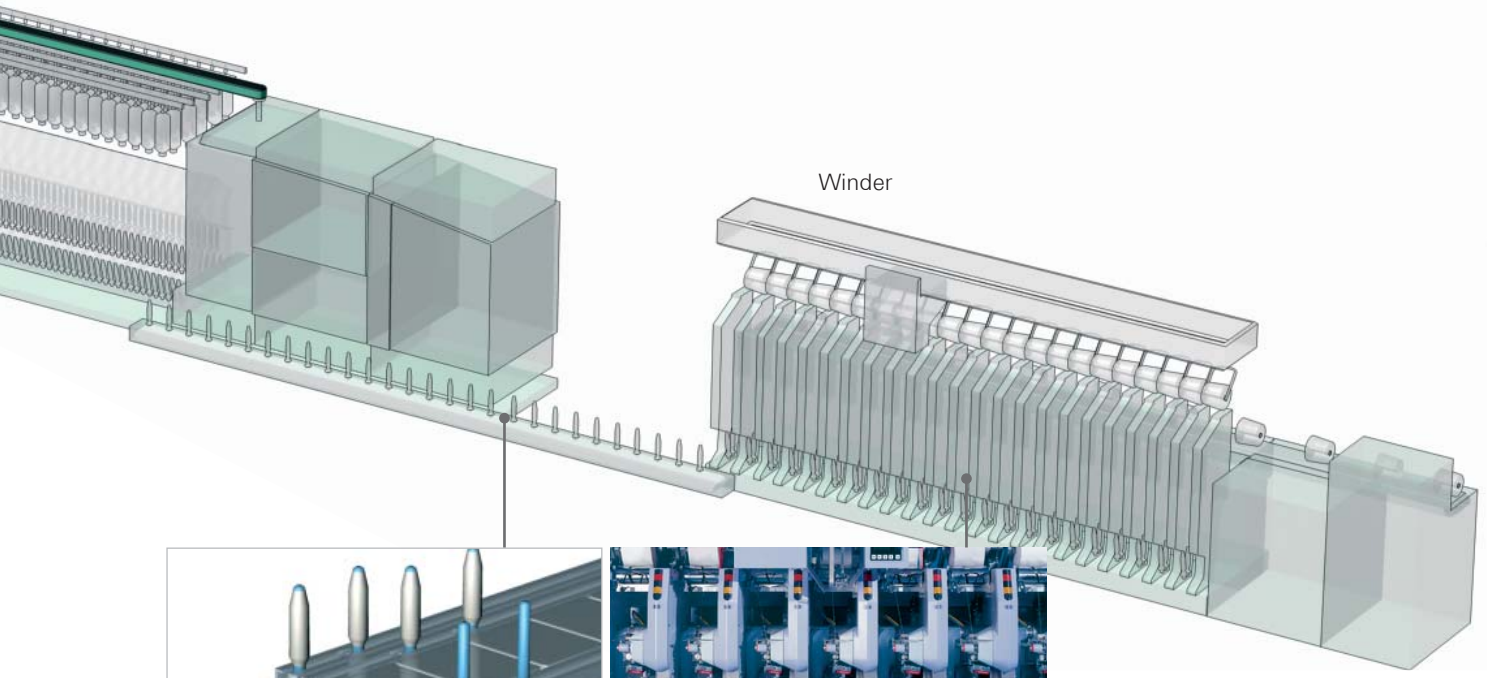



Ribbon lap machine



Driving belt

Winder





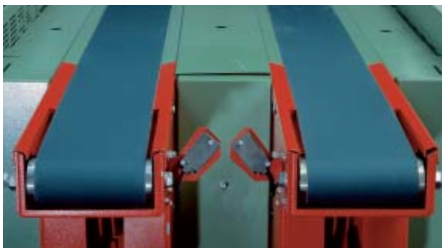
Bobbin conveyor belt



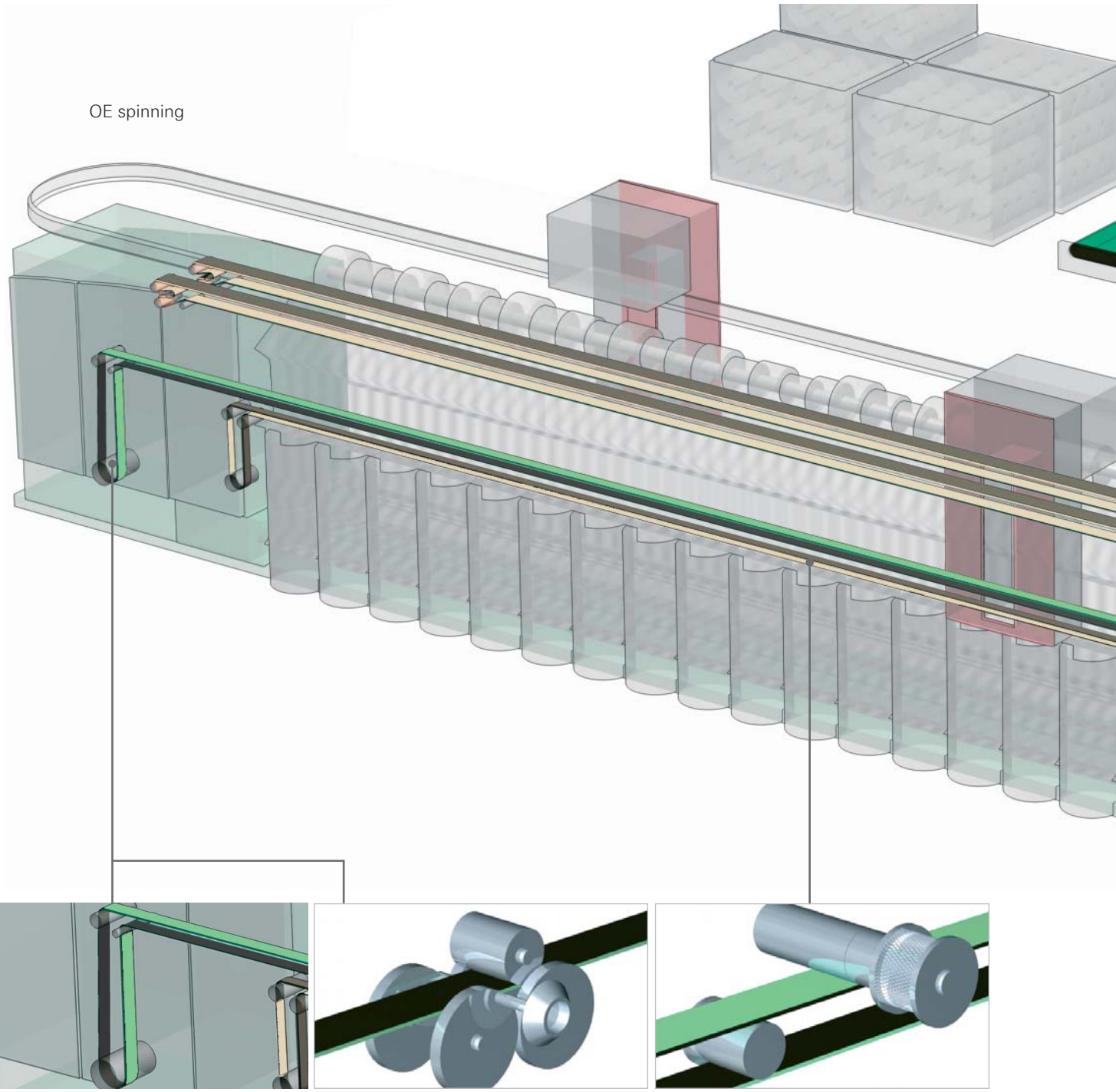
Winder











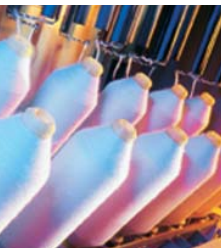
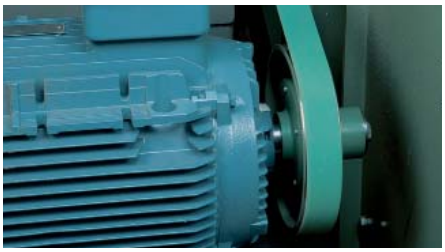

Rotor belt



OE drive

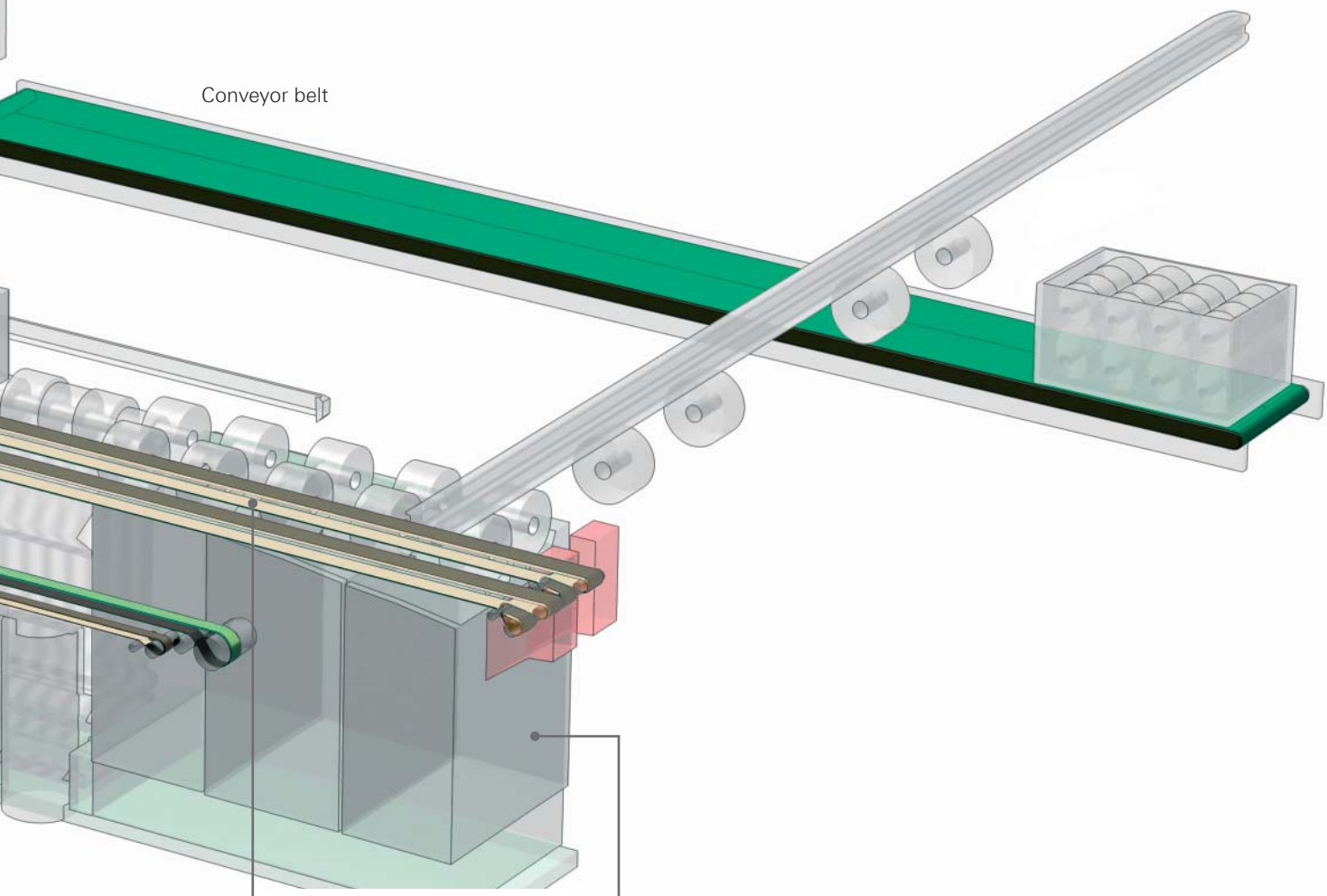


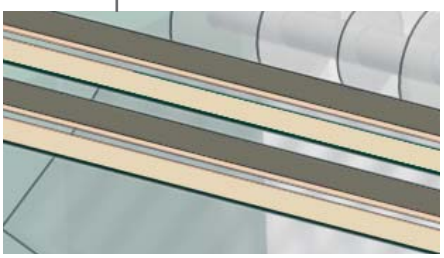
Combing roller belt



Conveyor belt





Bobbin conveyor belt

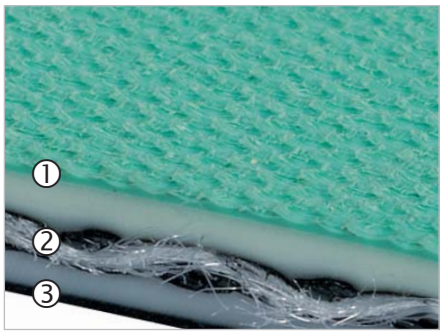


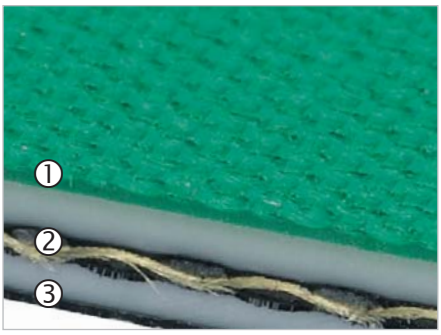
Main drive

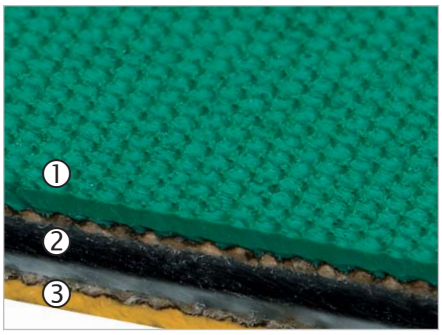
**The right choice**
Habasit has developed an extensive variety of different power transmission belts that allows you to choose the most suitable belt for your specific application requirements.

| TC-<br>Polyester (PET) belts | TF-<br>Aramide (AR) belts | S-<br>Polyamide (PA) belts |
|---|---|---|

### Belt cross section



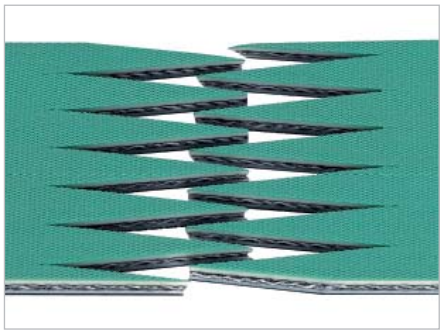



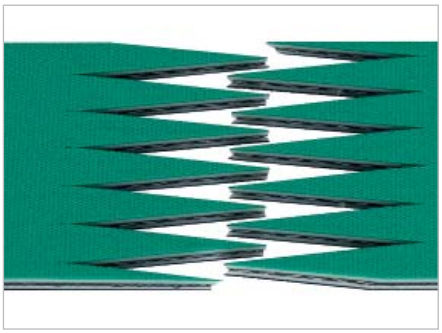

### Belt characteristics

| | | |
|---|---|---|
| ① Light green, low aging and abrasion-resistant NBR rubber | ① Green, low aging and abrasion-resistant NBR rubber | ① Green, low aging and abrasion-resistant NBR rubber |
| ② Highly flexible polyester traction fabric with high modulus of elasticity | ② Highly flexible aramide traction fabric with the highest modulus of elasticity | ② Highly stretched, resilient and dimensionally stable polyamide traction layer |
| ③ Black, antistatic, low aging NBR rubber | ③ Black, antistatic, low aging NBR rubber | ③ Yellow, low aging and abrasion-resistant NBR rubber |

### Belt joining methods



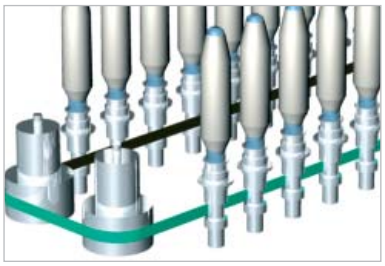
Flexproof



Flexproof



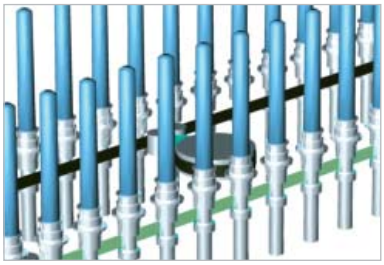
Thermofix



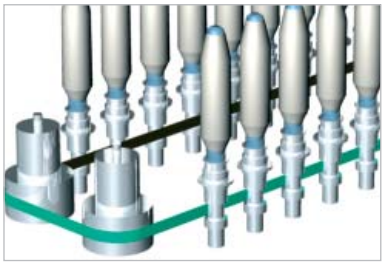
**Polyamide power transmission belts (PA)**
Polyamide power transmission belts from Habasit, the market leader, are found on spinning, twisting and texturing machines all over the world. They have an extremely long service life during which they guarantee consistently high power transmission.

We supply the required length and width on request, offering total freedom of design to engineers.

| Key features | Your benefits |
|---|---|
| • Good dimensional stability | → Long service life of the belt<br>→ Constant and uniform spindle rpm<br>→ High productivity |
| • Stable modulus of elasticity after running-in | → No retensioning<br>→ No downtimes<br>→ No maintenance |
| • Two colors as installation aid | → Easy insertion<br>→ No twisting of the belt<br>→ No installation errors<br>→ Short machine downtimes |
| • Forgiving | → Belt can handle intermittent overloads<br>→ Process reliability<br>→ Long belt life |



**Polyester TC power transmission belts (PET)**
Habasit developed this unique product range through our close contacts with the textile industry, partnerships with leading machine manufacturers worldwide, and ongoing research. Habasit has gained vast experience with polyester products in different industries and applications over the years. The result is an energy-saving product range with a perfect price/value ratio.



**Aramide power transmission belts (AR)**
TF tangential/flat belts are used for future-oriented and extremely compact driving configurations at very high speeds. Aramide power transmission belts are popular in the market due to their high efficiency, energy-saving features, and high power transmission. They run at a very low initial working tension with little noise. Aramide belts have greater dimensional stability, which saves time during installation, reduces maintenance work, and guarantees a long service life for the belt.

| Key features | TC | TF | Your benefits |
|---|---|---|---|
| • Low energy consumption | ● | ● | → Energy and cost savings<br>→ Energy consumption reduced by 4% to 6%<br>→ Efficient production<br>→ Good price/value ratio<br>→ Reduced operating costs<br>→ Maximum efficiency |
| • Two colors as installation aid<br>• Simple and fast joining<br>• Adhesive-free joining method | ● | ● | → Easy handling<br>→ Short machine downtimes<br>→ Minimum equipment required |
| • Reliable and homogeneous joining quality | ● | ● | → High spindle speeds (rpm)<br>→ No vibration<br>→ Consistent yarn quality |
| • TC range: high elastic modulus | ● | | → High accuracy of spindle rpm<br>→ Consistent yarn quality |
| • TF range: top-grade elastic modulus | | ● | → Highest accuracy of spindle rpm even with very long belts<br>→ Consistent yarn quality |
| • Very flexible belt | ● | ● | → Excellent flex-fatigue properties<br>→ Longest service life<br>→ Outstanding reliability<br>→ Suitable for small pulley diameters |

**Energy savings with Habasit TC tangential belts compared with competitors' polyamide belts**

Compare the energy cost-saving potential of Habasit polyester TC and TF tangential belts with competitors' polyamide tangential belts.

**Your savings**

| | |
|---|---|
| Average energy-saving potential **in percentage** of power to be transmitted | 4% to 6% |
| Average energy cost-saving potential **per spindle/year** | ~ USD 1 |
| Average energy cost-saving potential **per year** in a spinning mill with around 200,000 spindles | ~ USD 200,000 |

**Energy consumption comparisons – showing savings**

**Examples from India**

Energy consumption comparison between competitor polyamide tangential belts and Habasit polyester TC tangential belts. Made on Leewha TFO two-for-one twisters at Rajasthan Spinning & Weaving Mills Ltd. in India:

| | Example 1 | | Example 2 | |
|---|---|---|---|---|
| | **Competitor polyamide belt** | **Habasit TC-35ER belt** | **Competitor polyamide belt** | **Habasit TC-35/30ER belt** |
| Spindle speed (rpm) | 9,100 rpm | | 10,100 rpm | |
| Consumed energy | 24.32 kWh | 22.82 kWh | 23.3 kWh | 22.3 kWh |
| **Energy savings with Habasit TC belts** | | **6.2%** | | **4.3%** |

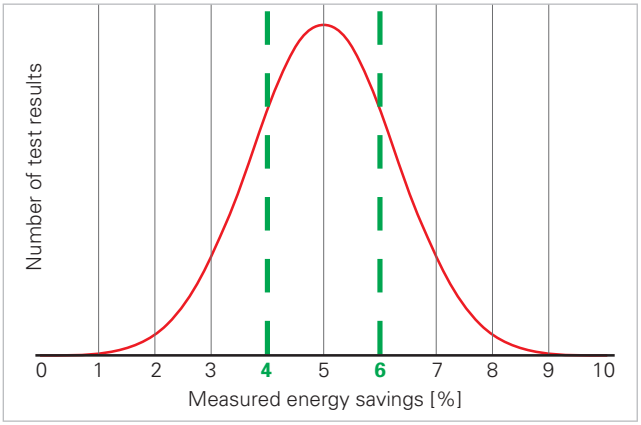
**Examples from China**

Energy consumption comparison between competitor polyamide tangential belts and Habasit polyester TC tangential belts. Made on Zhejiang Weifeng WF-168 covering machines (840 spindles) in China:

| | Example 1 | | Example 2 | |
|---|---|---|---|---|
| | **Yiwu Hangfei Covering Yarn Co. Ltd.** | | **Shantou Covering Yarn Factory** | |
| Energy savings per machine and day | 24 kWh | | 21 kWh | |
| Average working days per year | 300 | | 360 | |
| Energy costs per kWh | CNY 0.7 | USD 0.11 | CNY 0.7 | USD 0.11 |
| Energy cost-savings per machine and year | CNY 5,040 | USD 792 | CNY 5,292 | USD 832 |
| Number of machines installed | 275 | | 250 | |
| Number of spindles per machine | 840 | | 840 | |
| **Total energy savings per year** | CNY 1,386,000 | USD 217,800 | CNY 1,323,000 | USD 207,900 |
| **Energy savings per year and spindle** | **CNY 6.00** | **USD 0.94** | **CNY 6.3** | **USD 0.99** |

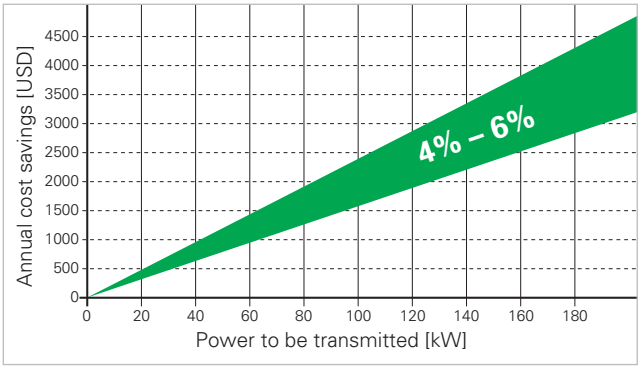
# Energy savings with HabaDRIVE® power transmission belts

## Energy savings with Habasit TC and TF flat belt drives compared with V-belt drives




**For peripheral equipment and plant infrastructure**
(e.g. fans, compressors, vacuum pumps, blowers, etc.)

Habasit also provides optimized driving belt solutions. Conversion campaigns at over 2,000 sites have demonstrated that switching from V-belts to Habasit's flat belts reduces energy consumption by **4% to 6%.**



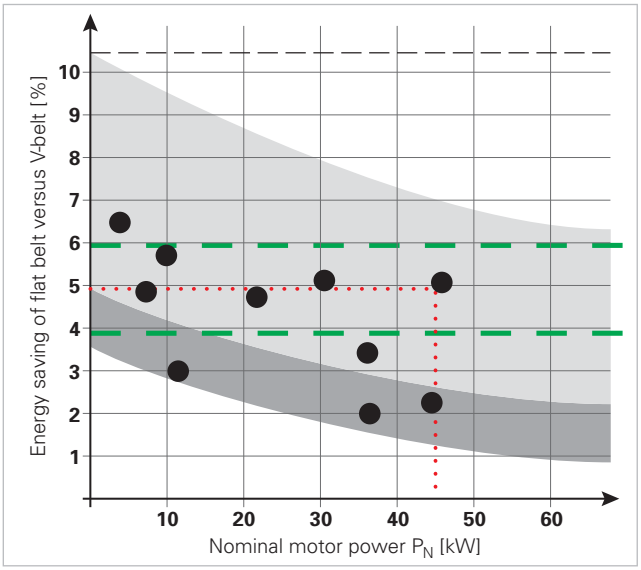

**Check your approximate energy cost-saving potential**

Assumption:
12 h/day
330 days/year
0.10 USD/kWh

4% - 6% energy and cost savings



**Energy savings on fan drives**
The energy-saving properties of the flat belt drive compared to the V-belt drive have been proved during practical tests.




- The illustration indicates the saved energy as a percentage, depending on the nominal power of the installed motor.
- Partial load range
- Rated load (full load) range

**Example (red dotted line):**
Energy saving of a fan drive equipped with flat belts on a 45 kW motor:
– at rated load (full load) about 2%
– at partial load about 5%

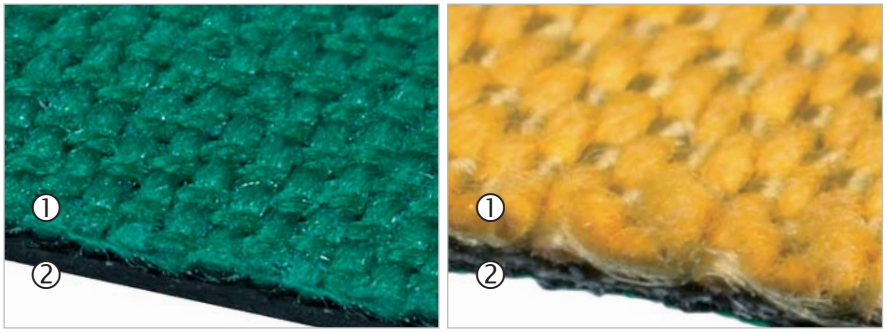
As electric motors usually work at partial load, the energy-saving potential of a flat belt drive is considerable.
Average: **4% to 6% energy savings.**

# Habasit spindle tapes

**The right choice**
Habasit has developed an extensive variety of spindle tapes that allows you to choose the most suitable tape for your specific application requirements.

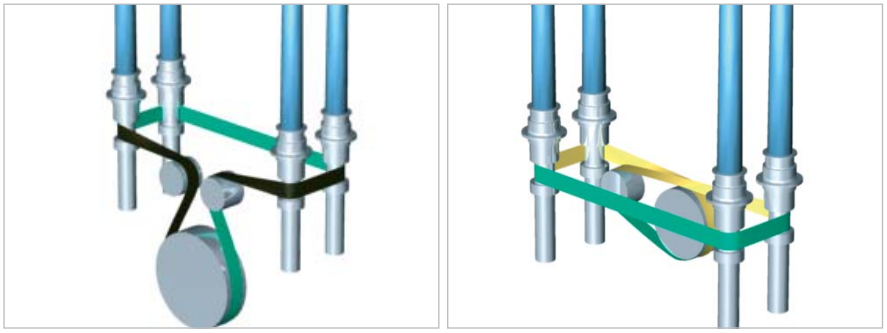
| W-<br>Polyester (PET) spindle tapes | TS-/HS-<br>Polyamide (PA) spindle tapes |
|---|---|

## Belt cross section




## Belt characteristics

| | |
|---|---|
| ① Green impregnated polyester traction fabric (whirl side) | ① Yellow polyamide traction fabric (whirl side) |
| ② Black, antistatic, thermoplastic friction cover (driving pulley side) | ② Green NBR rubber friction cover (driving pulley side) |



W-8/W-16 four-spindle drive with two jockey pulleys

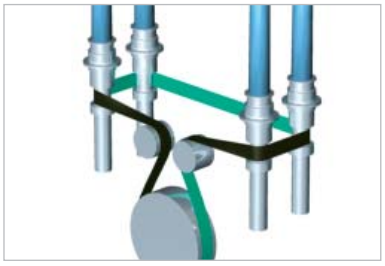
TS/HS four-spindle drive with one jockey pulley

## Belt joining methods



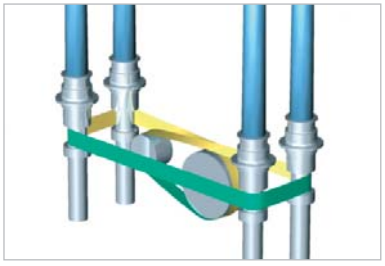
Flexproof

Thermofix



**Polyester spindle tapes (PET)**
Habasit W-spindle tapes were developed in intensive cooperation with leading OEMs and EUs and first introduced to the market in the late 80's. The main focus was suitability for spindle speeds (rpm) over 20,000 rpm, no fiber fly accumulation, as well as a long and reliable service life. These development goals were all achieved, which is why leading machine manufacturers in Switzerland, Japan, China and India today use W-spindle tapes for their original equipment.

| Key features | Your benefits |
|---|---|
| • Low engergy consumption<br>• Excellent flex-fatigue properties | → Suitable for highest spindle rpm (> 20,000 rpm)<br>→ Long service life<br>→ Cost savings |
| • Minimized speed loss during spindle stop | → Uniform yarn quality<br>→ Increased efficiency<br>→ Cost savings |
| • Simple and fast joining method (Flexproof)<br>• Adhesive-free joint | → Easy handling<br>→ Short machine downtimes<br>→ S and Z direction possible |
| • No fiber accumulation | → Constant spindle speed (rpm)<br>→ No need for cleaning<br>→ No interruption of production<br>→ Uniform yarn quality |



**Polyamide spindle tapes (PA)**

| | |
|---|---|
| • Robust tape | → Long service life |
| • Good price/value ratio | → Efficient production<br>→ Cost savings |
| • No fiber accumulation | → Constant spindle speed (rpm)<br>→ No need for cleaning<br>→ No interruption of production<br>→ Uniform yarn quality |

# Energy savings with Habasit spindle tapes

**Saving energy**
Saving energy is an important issue for the textile industry today, as power requirements are continuously increasing due to high-speed operations. The ring spinning frame is a major consumer of energy, taking 40% to 60% of total spinning mill energy consumption.

Of this, one third of the power is used to drive the spindles. Spinning mill power costs currently account for about 12% to 18% of the total cost of production.

As a result, saving energy with the spindle tape has become even more vital in the spinning industry. Studies conducted by a leading research institute in South India on modern ring spinning frames at higher spindle speeds (rpm) have shown convincing results.

**Proven in field tests**
Field tests at reputed spinning mills have confirmed that the replacement of polyamide spindle tapes with the highly efficient Habasit polyester W-8 spindle tape provides **substantial energy and cost savings.**



# Application table

| | HabaDRIVE® power transmission belts | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | TC-20EF | TC-20/25EF | TC-35ER | TC-35/30ER | TC-35/35ER | TC-55ER | TCF-20EL | TCF-35EL | TCF-55EL | TC-20EFQ | TC-35EFQO | TF-15 | TF-22 | TF-33 | TF-50 | S-140H | S-141H |
| Tangential drive | ● | ● | ● | ● | ● | ● | | | | ● | ● | ● | ● | ● | ● | ● | ● |
| Rotor drive | | ● | ● | | | | | | | | ● | | | | | | |
| Combing roll drive | ● | ● | ● | | | | | | | | | | | | | ● | ● |
| Main drive | ● | ● | ● | | | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● |
| Cross drive | | | | | | | | | | | | | | | | | |
| Fan drive | ● | | ● | | | ● | ● | ● | ● | | | | | | | ● | |
| Dust cleaner belt | ● | | ● | | | | | | | | | | | | | ● | |

| | Spindle tapes | | | | | | | Machine tapes | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | W-8 | W-16 | DS-8 | TS-5 | TS-55 | HS-5 | HS-55 | MNM-3H | MAM-04H | MAM-5E | MAM-5P | FNB-2E | FNB-5E | FNI-12E |
| Four/two/one spindle drive | ● | ● | ● | ● | ● | ● | ● | | | | | | | |
| Cross apron | | | | | | | | ● | ● | ● | ● | ● | | |
| Bobbin conveying | | | | | | | | | | | | | | ● |
| Cops conveying | | | | | | | | | | | | | | ● |
| Feeder belt | | | | | | | | | | | | | ● | |
| Delivery belt | | | | | | | | | | | | | ● | |
| Trash belt | | | | | | | | | | | | | | |

This application/belt matrix is neither complete nor comprehensive and serves only as a guide to potential solutions.
For detailed material and belt selection, please contact your local Habasit partner: www.habasit.com

| | | | | | | | | | | | | | Leather belts | | | Habicord round belts | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| S-200HRN | S-250H | S-250HR | S-321H | S-390H | S-391H | S-10/15 | S-18/20 | S-18/30 | S-33/40 | A-2 | A-3 | A-4 | A-2LL | A-3LL | A-4LL | R-6 | R-8 | R-10 | R-12 | R-15 |
| ● | ● | ● | ● | ● | ● | | ● | | ● | | | | | | | | | | | |
| ● | ● | ● | | | | | ● | | | | | | | | | | | | | |
| ● | ● | | | | | | ● | | | | | | | | | | | | | |
| ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● |
| | | | | | | | | | | | | | ● | ● | ● | | | | | |
| | ● | | | | | | | | | | | | | | | | | | | |
| | ● | | | | | | | | | | | | | | | | | | | |

| HabaFLOW® fabric-based conveyor belts | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| ENI-10E 07 | NAB-8EEDV 11 | NAB-12EEDV 11 | NHM-10EKBV 11 | NHB-10EKBV 11 | NNT-8EEWE 11 | NNT-10EEWE 11 | SAB-5E 07 | SNB-5E 07 | SNB-8E 07 | SNB-12E 07 | |
| | | | | | | | | | | | Four/two/one spindle drive |
| | | | | | | | | | | | Cross apron |
| ● | ● | ● | ● | ● | ● | ● | | ● | ● | ● | Bobbin conveying |
| ● | ● | ● | ● | ● | ● | ● | | | | | Cops conveying |
| | ● | ● | | ● | | | | | | | Feeder belt |
| | ● | ● | | ● | | | | | | | Delivery belt |
| | | | | | | | ● | ● | ● | | Trash belt |

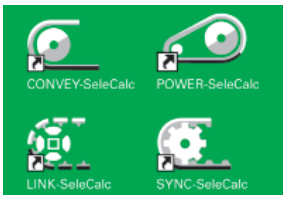
**Comprehensive services are central to Habasit's belting solution approach.**

**As committed partners to our customers, we are dedicated to sharing our knowledge and to providing full support.**



### Comprehensive consulting and technical support

Habasit offers the best consulting and technical support on the belting market. Everything revolves around our customers: each affiliate has its own belting experts. The Habasit team is proud to provide the highest levels of support, together with top-quality products that have been leaders on the global market for decades.




### Assistance with belt selection and calculation

We will select and calculate the most suitable belt for your specific application. You can also do this yourself with our state-of-the-art Habasit selection and calculation program "SeleCalc". To order this program free of charge, simply call your nearest Habasit partner or contact: info@habasit.com.



### Fabrication, assembly and local installation services for quick reaction times

We make belts endless or assemble modular belts or chains, either at our own locations or on-site directly on your machine or system. Habasit operates over 30 affiliated companies worldwide, each with its own inventory, fabrication, assembly and service facilities. Together with our representative offices and numerous qualified distributors, we can react quickly, competently and reliably to satisfy all your demands.



### Tools for on-site fabrication

Because we understand your processes, we can support you with cost-effective, high-quality tools that keep your equipment up and running. In case of emergency our tools will help to minimize breakdown time and support the joining process.

Habasit offers skivers to prepare the belt ends of polyamide power transmission belts and spindle tapes prior to joining. Finger cutting devices to prepare aramide and polyester power transmission belts and TPU spindle tapes are also available. A selection of hot pressing devices to fit your applications and guarantee optimum quality of joining complement the range.



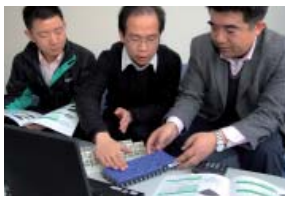
### Customer training programs

Habasit offers training programs and provides support tools to ensure optimal use of our products and to prolong their lifetimes. Training on fabrication, installation, assembly, maintenance and belt repair takes place at Habasit sites or at your location.



### Belt monitoring, inspections, analyses and process optimization proposals

We organize and handle belt maintenance, inspections, analyses and surveys for your locations. On request we will also work with you to develop optimization proposals, for example, to achieve added value from your machinery or process output.



### Design assistance for customized solutions

Habasit believes in partnership. Our engineering team will work closely with your engineers on joint design developments, preferably from a very early stage. We particularly recommend this for projects involving new technologies or large-scale modifications and adaptations.



**Customers first**
At Habasit we understand that our success depends on your success. This is why we offer solutions, not just products; partnership, not just sales.

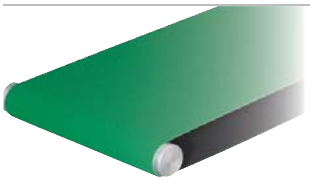
Since our foundation in 1946, Habasit has brought this understanding of customer needs to life every day and for every application. That's why we're the No. 1 in belting today. Worldwide.

Learn more at www.habasit.com

**Committed to innovation**
Because our customers' belting challenges and needs never cease, we consistently dedicate a substantial percentage of our employees and resources to the research and development of new products and solutions.

**Certified for quality**
We deliver the highest quality standards not only in our products and solutions, but also in our employees' daily work processes. Habasit AG is certified according to ISO 9001:2008.

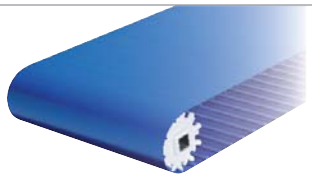
**Worldwide leading product range**
Habasit offers the largest selection of belting, conveying, processing and complementary products in the industry. Our response to any request is always a specific, tailor-made solution.



Fabric-based conveyor and processing belts
**HabaFLOW®**



Plastic modular belts
**HabasitLINK®**



Positive drive conveyor and processing belts
**Habasit Cleandrive™**



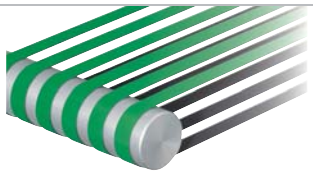
Power transmission belts
**HabaDRIVE®**



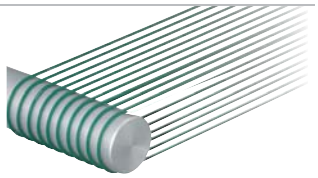
Timing belts
**HabaSYNC®**



Chains (slat and conveyor chains)
**HabaCHAIN®**



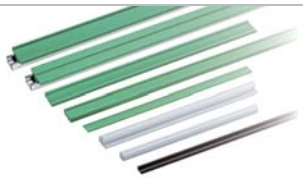
Machine tapes



Round belts



Seamless belts



Profiles, Guides, Wear strips
**HabiPLAST®**



Fabrication tools (joining tools)



Gearmotors
Electric motors
Motion control

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