

Save Energy and Costs with Power Transmission Belts

With energy costs increasing continuously, Habasit has the right solutions for energy and cost savings.

Our belts and tapes offer:



- High efficiency
- High machine performance
- Low energy consumption
- Low costs

4% - 6% energy and cost savings



Outstanding benefits: TC and TF power transmission belts

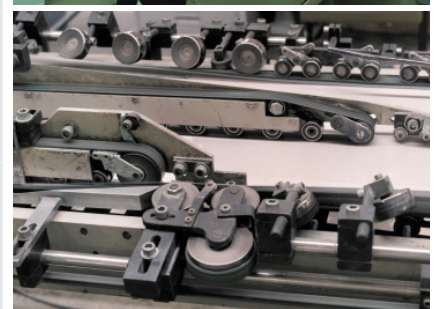
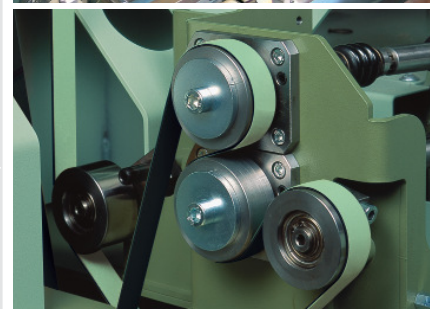
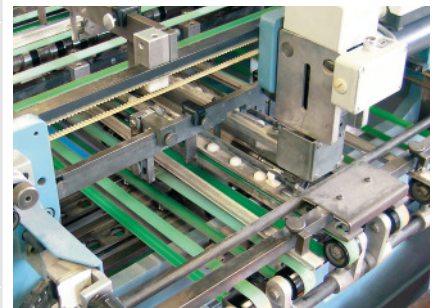
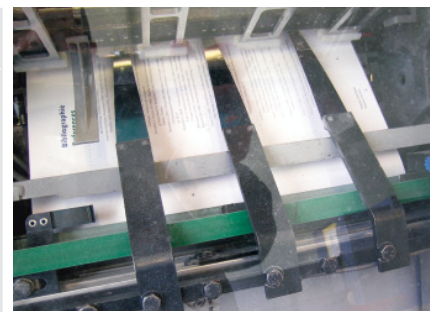
Developed for excellence

Habasit has developed its unique TC and TF belt ranges based on experience, ongoing research, close contacts with the industry, and long-term partnerships with leading machine manufacturers.

TC power transmission belts: The high-efficiency power transmission belts with a **polyester** traction layer, which provide accurate machine speed and perfect quality of machine output.

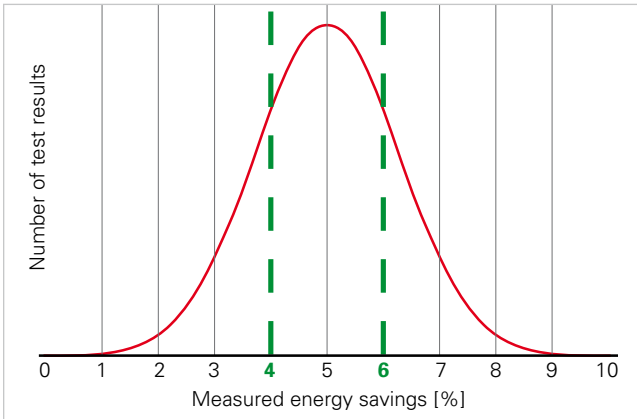
TF power transmission belts: The high-efficiency power transmission belts with an **aramide** traction layer are perfectly suitable for very long belts, and shortest take-up combined with accurate machine speed and perfect quality of output.

Features	TC	TF	Benefits
<ul style="list-style-type: none"> High efficiency 	●	●	<ul style="list-style-type: none"> → Energy and cost savings → Energy consumption reduced by 4% – 6% → Economical → Reduced operating costs
<ul style="list-style-type: none"> Adhesive-free joining method 	●	●	<ul style="list-style-type: none"> → Simple and fast joining → Easy handling (no adhesives) → Minimum equipment required → Short machine downtimes → Reduced operating costs
<ul style="list-style-type: none"> Reliable and homogeneous joining quality 	●	●	<ul style="list-style-type: none"> → High machine speeds → No vibration → Consistent quality of produced goods
<ul style="list-style-type: none"> TC range: high elastic modulus 	●	●	<ul style="list-style-type: none"> → High accuracy of speed → Consistent quality of produced goods
<ul style="list-style-type: none"> TF range: top-grade elastic modulus 		●	<ul style="list-style-type: none"> → Highest accuracy of speed even with very long belts
<ul style="list-style-type: none"> Optimized design 	●	●	<ul style="list-style-type: none"> → Low noise emissions



For technical details or further information, please contact your local Habasit representative:
www.habasit.com

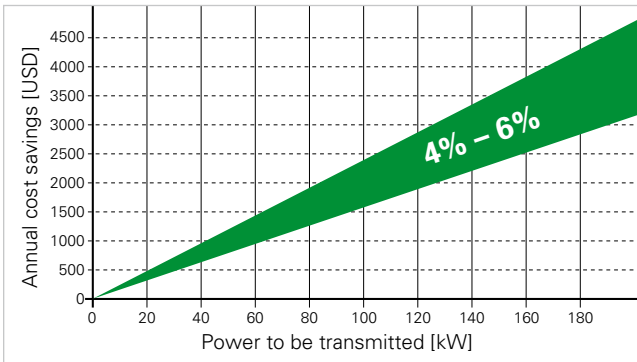
TC and TF flat belt drives compared with V-belt drives



Join the energy-saving campaign

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

Habasit 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%**.



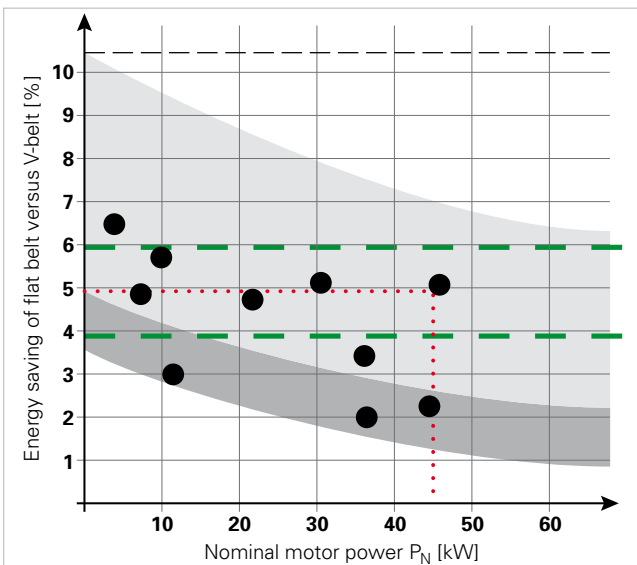
Check your approximate energy cost-saving potential

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



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 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.**

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Rossi is one of Europe's largest manufacturers of gear reducers, gearmotors, inverters, standard and brakemotors, and is a member of the Habasisit Group.

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