Save energy with TC-tangential belts

The state-of-the-art TC-tangential belt range with polyester tensile member set a new standard in energy and cost savings on spinning, twisting and texturizing machines.

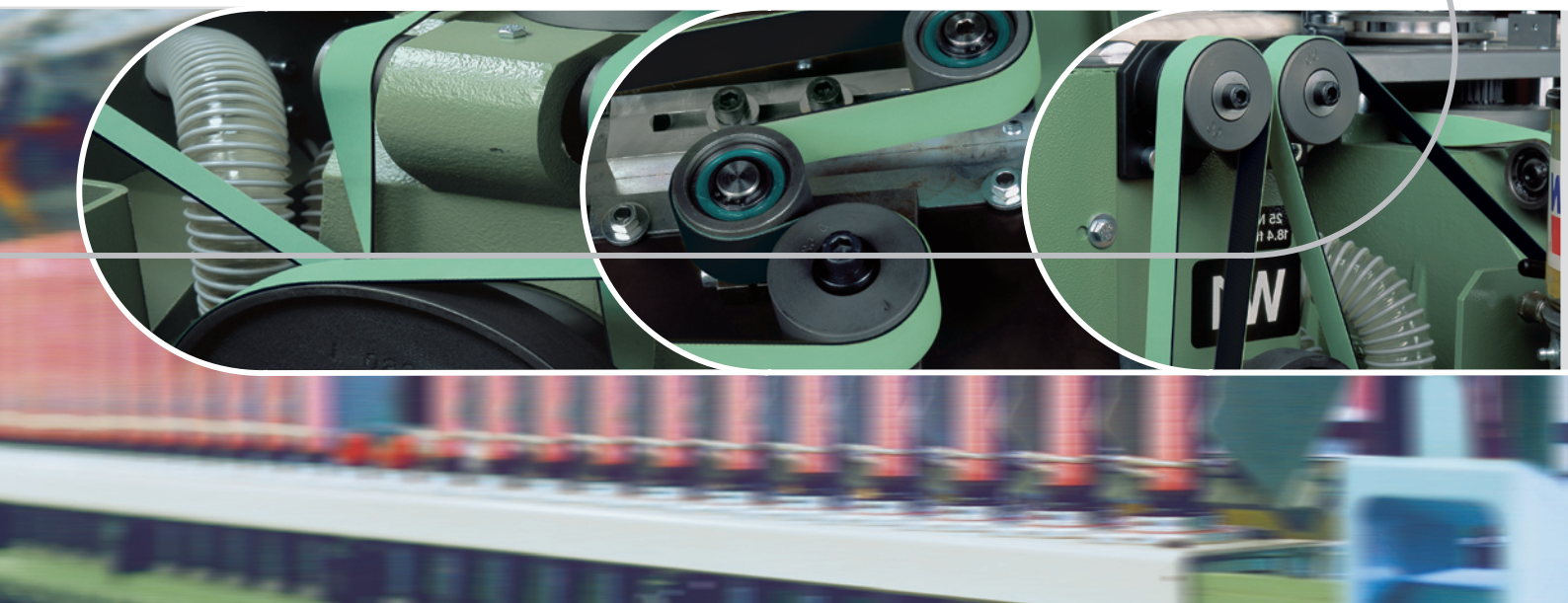
The extraordinary efficiency can be explained with the following facts:

- High longitudinal belt flexibility > low bending resistance
- High friction wear resistant cover > no slip, constant high spindle speed
- High dimensional stability > constant belt tension, consistent speed

Field tests and independent studies in many mills and on various machine types have proven that the replacement of polyamide belts with high-efficient TC-tangential belts result in **considerable energy cost savings!**

4–6%
energy savings

- **higher efficiency**
- **lower enegy consumption**
- **lower costs**



Comparison example

Power studies made on Leewha TFO two-for-one twisters on Rajasthan Spinning & Weaving Mills Ltd. in India between Habasit TC-belts and competitor polyamide belts:

	Competidor polyamide belt	Habasit TC-35R	Competidor polyamide belt	Habasit TC-35/30ER
Count	2/18s		2/30s	
Spindle speed (rpm)	9100		10100	
Units consumed power (kw)	465,7	432,7	560,0	536,0
Units consumed energy (kWh)	24,31	22,82	23,33	22,33
Energy saving with Habasit belt		**6,10%**		**4,30%**

Features and benefits of TC-belts in brief

- High efficiency > energy cost saving
- Adhesive-free joining method > simple and fast joining system
- Excellent joining quality > enables high spindle speed
- High elastic modulus > consistent yarn quality
- Optimized design > low noise emission

TC-belt range

	Belt thickness (mm)	Pulley diameter minimum (counter flection (mm)	Tensile force for 1 % elongation (k1 % after running in) per unit of width (N/mm)	Nominal peripheral force per unit of width (N/mm)	Operating temperature admissible (continuous)	Friction cover pulley side			Friction cover whirl side		
						Material	Color	Structure	Material	Color	Structure
TC-10EF	1.8	25	5	10	-20/+70 °C	NBR	black	rough	NBR	green	fine
TC-20EF	2.0	25	10	21	-20/+70 °C	NBR	black	rough	NBR	green	fine
TC-20/25EF	2.5	50	11	23	-20/+70 °C	NBR	black	rough	NBR	green	fine
TC-35ER	2.5	50	18	38	-20/+70 °C	NBR	black	rough	NBR	green	rough
TC-35/30ER	3.0	50	18	38	-20/+70 °C	NBR	black	rough	NBR	green	rough
TC-35/35ER	3.5	70	18	38	-20/+70 °C	NBR	black	rough	NBR	green	rough
TC-55ER	3.0	70	26	53	-20/+70 °C	NBR	black	rough	NBR	green	rough

Habasit – We are where you are

Headquarters
Habasit AG
CH-4153 Reinach-Basel
Phone +41 61 715 15 15
Fax +41 61 715 15 55
E-mail info@habasit.com
www.habasit.com

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