

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.

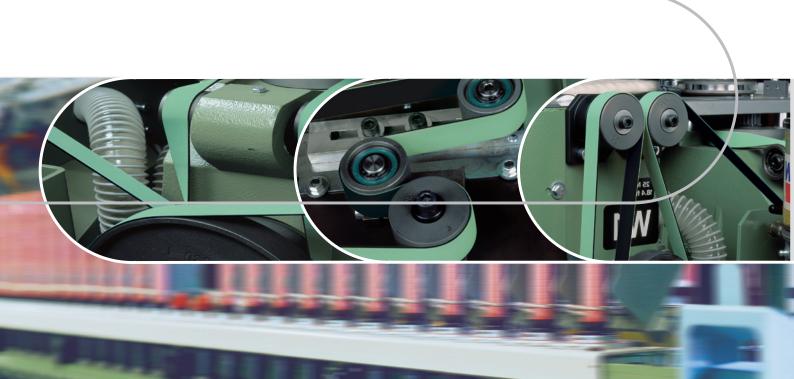
The extraordinary efficiency can be explained with the following facts:

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



- 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)	91	00	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
- Adhesive-free joining method
- Excellent joining quality
- High elastic modulus
- Optimized design

- > energy cost saving
- > simple and fast joining system
- > enables high spindle speed
- > consistent yarn quality
- > low noise emission

TC-belt range

			m)	e (ŝ	Friction cover pulley side			Friction cover whirl side			
	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)	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



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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