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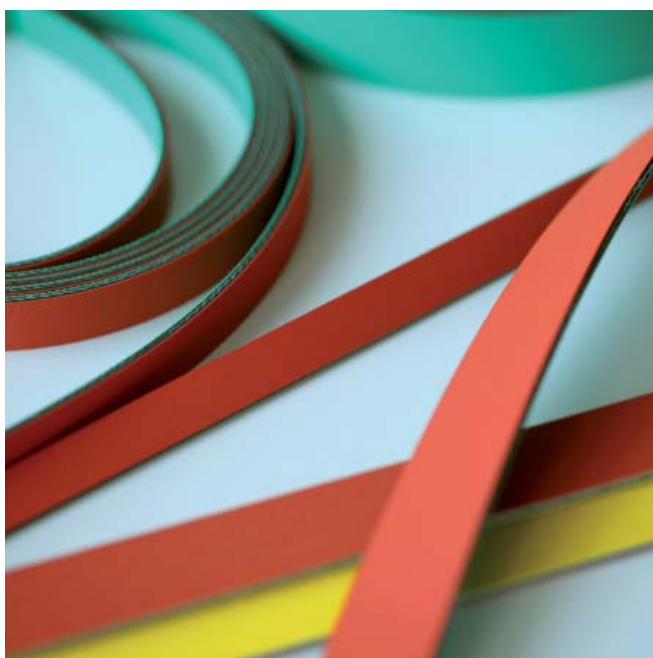
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Servicio de Att. al Cliente

Habasit – Solutions in motion



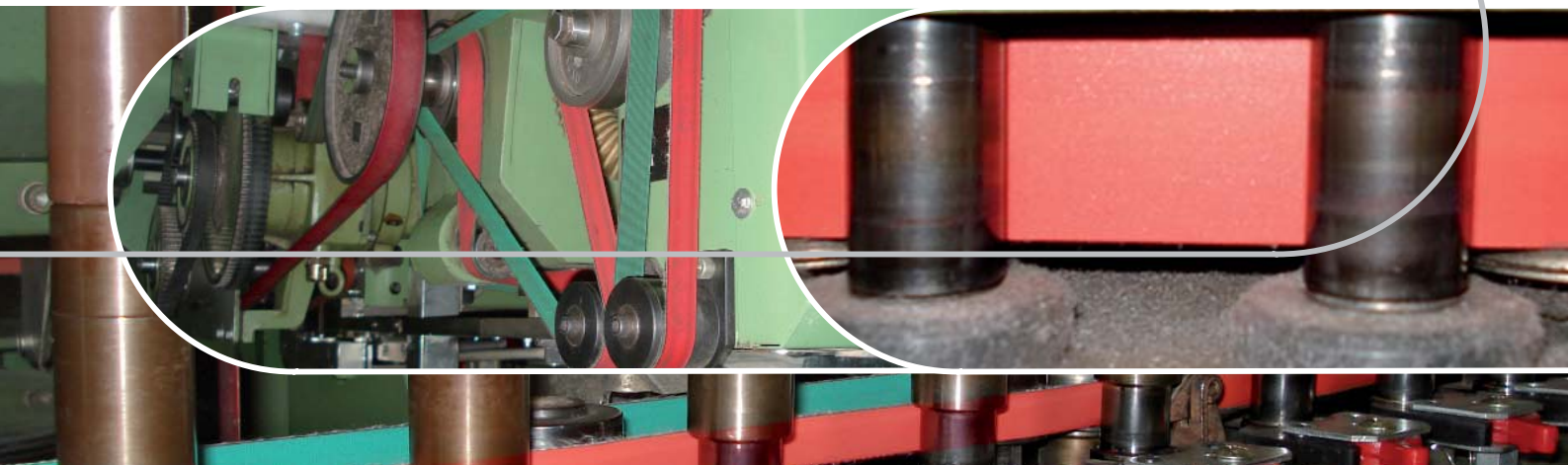
# HabaDRIVE® Quantum Leap TC Polyester Power Transmission Belts

New and revolutionary TC-20EFQ, TC-35ERQ and TC-35EFQO



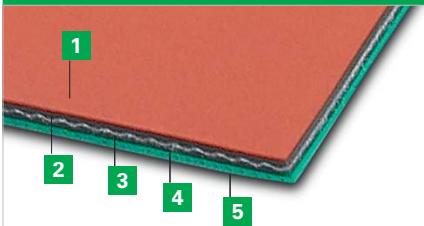
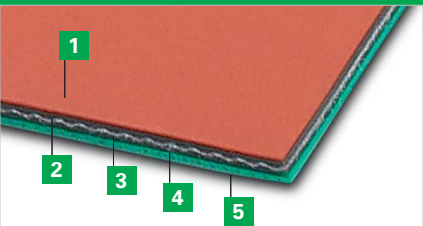
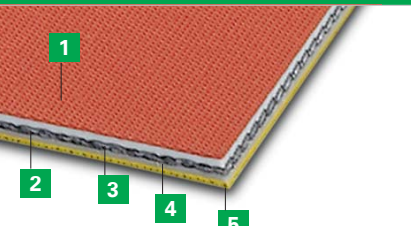



**Habasit introduces a revolutionary new generation of HabaDRIVE® power transmission belts with additional innovative features**

- Slow aging
- Energy/cost savings
- High cost/performance ratio
- Superior quality
- Simple and reliable Flexproof joining system
- Operational safety



## Belt types/Technical key data

2

TC-20EFQ	TC-35ERQ	TC-35EFQO (O=Open-end)
		
<b>1</b> <ul style="list-style-type: none"> <li>Red</li> <li>Habasit Quantum Leap rubber</li> <li>Fine structure</li> </ul>	<b>1</b> <ul style="list-style-type: none"> <li>Red</li> <li>Habasit Quantum Leap rubber</li> <li>Rough structure</li> </ul>	<b>1</b> <ul style="list-style-type: none"> <li>Red</li> <li>Habasit Quantum Leap rubber</li> <li>Fine structure</li> </ul>
<b>2</b> <ul style="list-style-type: none"> <li>Intermediate thermoplastic foil (TPU)</li> </ul>	<b>2</b> <ul style="list-style-type: none"> <li>Intermediate thermoplastic foil (Hamid)</li> </ul>	<b>2</b> <ul style="list-style-type: none"> <li>Intermediate thermoplastic foil (Hamid)</li> </ul>
<b>3</b> <ul style="list-style-type: none"> <li>Highly flexible polyester traction fabric</li> </ul>	<b>3</b> <ul style="list-style-type: none"> <li>Highly flexible polyester traction fabric</li> </ul>	<b>3</b> <ul style="list-style-type: none"> <li>Highly flexible polyester traction fabric</li> </ul>
<b>4</b> <ul style="list-style-type: none"> <li>Intermediate thermoplastic foil (TPU)</li> </ul>	<b>4</b> <ul style="list-style-type: none"> <li>Intermediate thermoplastic foil (Hamid)</li> </ul>	<b>4</b> <ul style="list-style-type: none"> <li>Intermediate thermoplastic foil (Hamid)</li> </ul>
<b>5</b> <ul style="list-style-type: none"> <li>Green</li> <li>Habasit Quantum Leap rubber</li> <li>Rough structure</li> </ul>	<b>5</b> <ul style="list-style-type: none"> <li>Green</li> <li>Habasit Quantum Leap rubber</li> <li>Rough structure</li> </ul>	<b>5</b> <ul style="list-style-type: none"> <li>Yellow</li> <li>Habasit Quantum Leap rubber</li> <li>Fine structure</li> </ul>
		

### Technical key data

Belt		TC-20EFQ	TC-35ERQ	TC-35EFQO
Thickness	[mm]	2	2,5	2,5
	[in]	0,08	0,10	0,10
Tensile force for 1% elongation (k1% after running-in) per unit of width (Habasit standard SOP3-013)	[N/mm]	10	18,0	18,0
	[lbs./in.]	57	103	103
Pulley diameter minimum with counter flecion	[mm]	25	50	50
	[in]	1,0	2,0	2,0
Surface structure pulley side	[embossing]	rough	rough	fine
Surface structure spindle/rotor side	[embossing]	fine	rough	fine

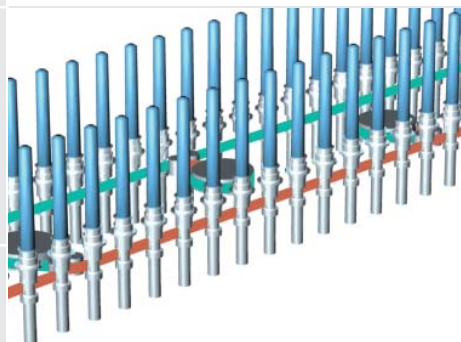
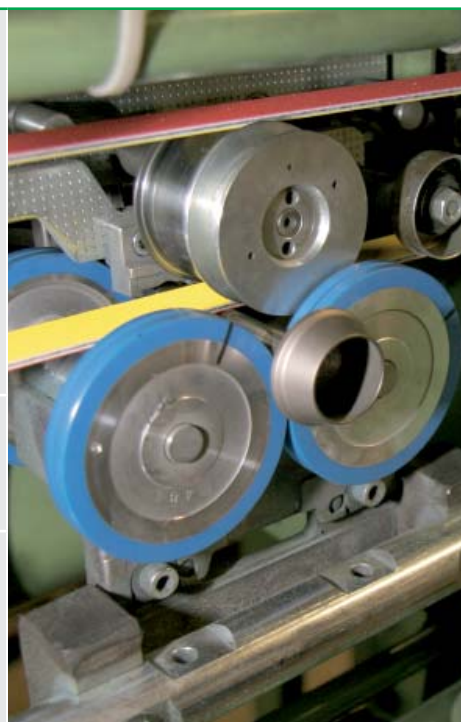


# Features and customer benefits

3

## Features and customer benefits of TC-20EFQ, TC-35ERQ and TC-35EFQO

Features	Reasons / Proof	Benefits
<ul style="list-style-type: none"> <li>Constant coefficient of friction</li> </ul>	Newly developed Quantum Leap rubber on both friction covers is tailored for high temperatures and mechanical stress	<ul style="list-style-type: none"> <li>→ <b>Longer service life than conventional belts</b></li> <li>→ <b>High reliability, no unexpected belt failures</b></li> <li>→ <b>High cost/performance ratio</b></li> <li>→ <b>Reduced operating costs</b></li> <li>→ <b>Constant running-up throughout belt life</b></li> </ul>
<ul style="list-style-type: none"> <li>Energy saving</li> </ul>	High belt flexibility	<ul style="list-style-type: none"> <li>→ <b>Lower energy consumption</b></li> <li>→ <b>Economical and ecological</b></li> <li>→ <b>Reduced operating costs</b></li> </ul>
<ul style="list-style-type: none"> <li>High dimensional stability</li> <li>Low sensitivity to humidity</li> </ul>	PET traction layer with special interlinked fabric construction enables stable modulus of elasticity	<ul style="list-style-type: none"> <li>→ <b>Constant belt tension</b></li> <li>→ <b>Uniform and reliable production</b></li> <li>→ <b>No re-tensioning</b></li> <li>→ <b>No slip / creep</b></li> </ul>
<ul style="list-style-type: none"> <li>Simple and fast Flexproof joining method</li> </ul>	Adhesive-free joint Easy and fast joint Homogeneous joining	<ul style="list-style-type: none"> <li>→ <b>Easy handling (no adhesives)</b></li> <li>→ <b>Minimum equipment required</b></li> <li>→ <b>Short machine downtimes</b></li> <li>→ <b>Reduced operating costs</b></li> </ul>
<ul style="list-style-type: none"> <li>Two colors for correct installation</li> </ul>	Red/yellow	<ul style="list-style-type: none"> <li>→ <b>Installation aid</b></li> <li>→ <b>Safe installation</b></li> <li>→ <b>Short downtimes</b></li> </ul>



### Testimonial

"TC-35EFQO belts are performing very well without any failure since the installation.  
... the after sales response and service support from Habasit lakoka is excellent."

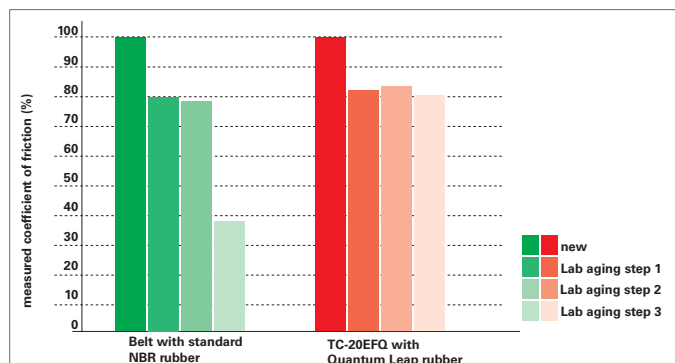
No of belts: 6  
Rotor speed: 120.000 rpm  
Running hrs Habasit belt: 12.000 and still in operation.  
Competitor belts replaced after 8.500 hours.



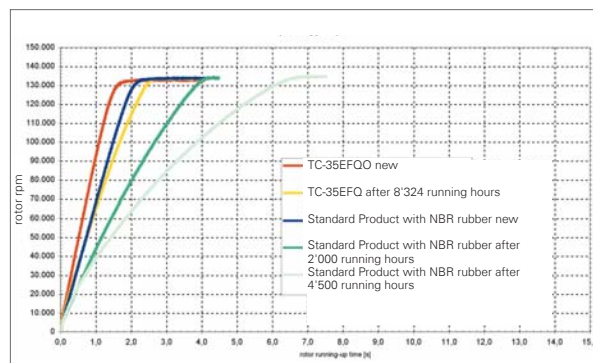





## Laboratory and field test results

### Rubber aging



### Measured rotor running-up time



Belt	Running hours	Belt condition
<b>TC-35ER</b> 	2000	<ul style="list-style-type: none"><li>• Start of surface glazing visible</li><li>• First abrasion of surface structure and reduction of coefficient of friction</li></ul>
<b>TC-35ER</b> 	4500	<ul style="list-style-type: none"><li>• Strong glazing visible</li><li>• Surface structure disappeared</li><li>• Further reduction of coefficient of friction</li></ul>
<b>TC-35EFQO</b> 	9000	<ul style="list-style-type: none"><li>• No glazing</li><li>• No abrasion</li><li>• Constant coefficient of friction</li><li>• Uniform machine operation</li></ul>

### Product liability, application considerations

If the proper selection and application of Habasit products are not recommended by an authorized Habasit sales specialist, the selection and application of Habasit products, including the related area of product safety, are the responsibility of the customer. All indications/information are recommendations and believed to be reliable, but no representations, guarantees, or warranties of any kind are made as to their accuracy or suitability for particular applications. The data provided herein are based on laboratory work with small-scale test equipment, running at standard conditions, and do not necessarily match product performance in industrial use. New knowledge and experiences can lead to modifications and changes within a short time without prior notice.

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