

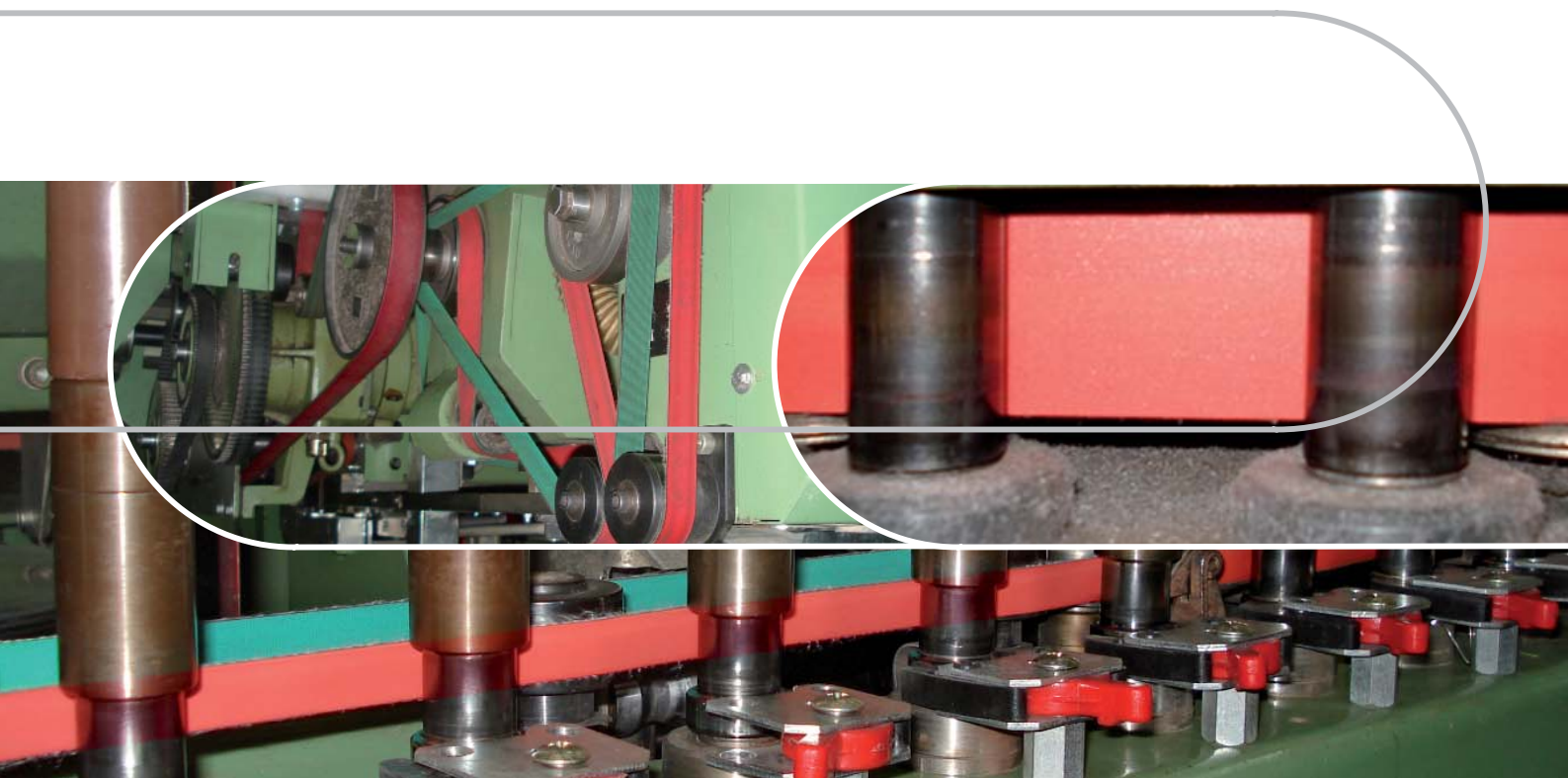
# HabaDRIVE® Quantum Leap TC Polyester Power Transmission Belts

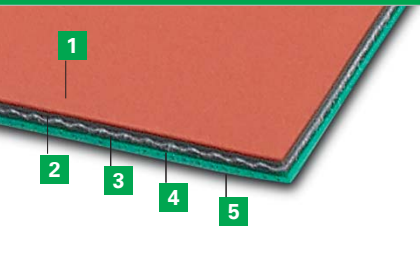
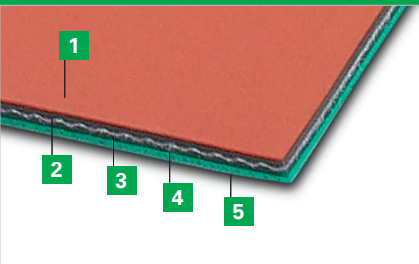
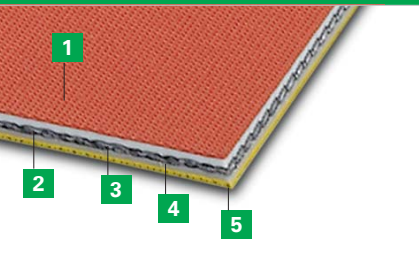



New and revolutionary TC-20EFQ, TC-35ERQ and TC-35EFQO



**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



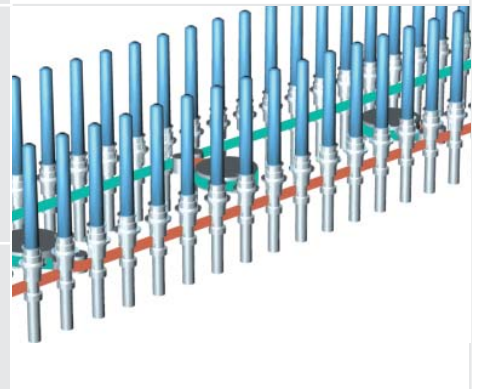
TC-20EFQ	TC-35ERQ	TC-35EFOO (O=Open-end)
		
<p><b>1</b></p> <ul style="list-style-type: none"> <li>Red</li> <li>Habasit Quantum Leap rubber</li> <li>Fine structure</li> </ul>	<p><b>1</b></p> <ul style="list-style-type: none"> <li>Red</li> <li>Habasit Quantum Leap rubber</li> <li>Rough structure</li>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

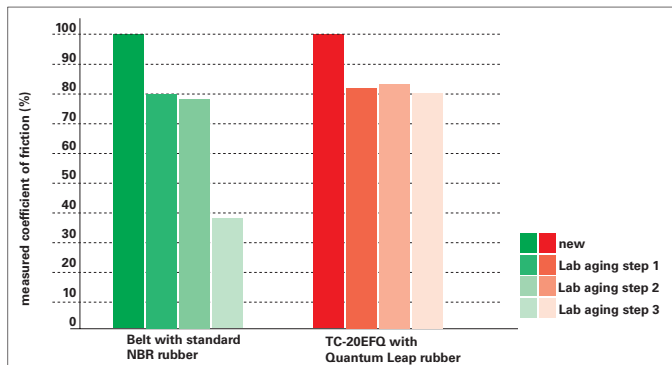
“TC-35EFQO belts are performing very well without any failure since the installation.  
... the after sales response and service support from Habasit lakoka is excellent.”

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.

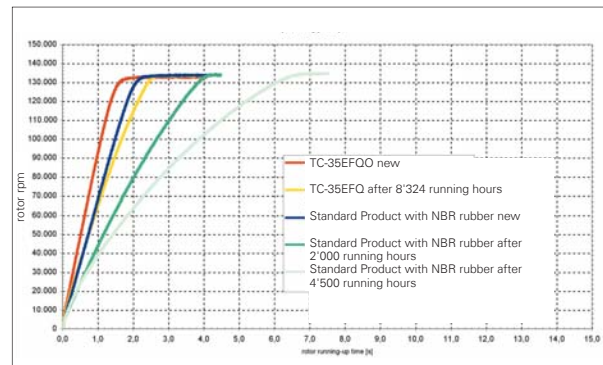




# Laboratory and field test results

## 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-35EFO</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>

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Printed in Switzerland  
 Publication Data  
 4265FLY.PTB-en1109HQR