

Servicio de Att. al Cliente



Habasit TC and TCF Power Transmission Belts

For Textile, Printing & Paper, Letter Sorting and **Materials Handling**

Description

With the highest standards of quality and an extensive variety of products, Habasit really gets things moving. Our high efficiency flatand tangential belts are ideal for high power transmission, while further tasks are best fulfilled by spindle tapes, machine tapes and round belts. Seamless power transmission belts guarantee the highest degree of precision for specialized applications.

Your benefits

- Comprehensive product range meeting all customer requirements
- Suitable for a large variety of different applications
- Optimized technical solutions using most advanced materials and product design
- Outstanding price/value ratio
- Reduced energy consumption





The Right Choice Overview

Habasit has developed a comprehensive range of thermoplastic power transmission belts that allows customers to choose the most suitable belt for their specific application requirements.

Power Transmission Belts TC Polyester (PET) TCF-xxEL TCF-xxH • Black, antistatic White • Light green • Dark green • Hamid foil • Low-aging and abrasion resistant NBR • Low-aging NBR rubber • Thermoplastic • Longitudinal groove structure polyurethane foil • Fine structure • Rough or fine structure depending on • Fine structure belt type 2 2 2 • Intermediate thermoplastic foil • Intermediate thermoplastic foil (Hamid) • Highly flexible polyester traction fabric (Hamid or TPU) 3 3 3 White • Highly flexible polyester traction fabric • Dark green • Highly flexible polyester traction fabric • Hamid foil • Thermoplastic polyurethane foil • Fine structure • Fine structure • Intermediate thermoplastic foil • Green • Hamid foil (Hamid or TPU) • Fine structure • Black, antistatic Low-aging NBR rubber · Rough structure Application / drive configurations Application / drive configurations Application / drive configurations



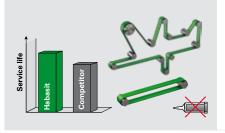
Features and Benefits The Unique TC and TCF Ranges

A product range with an outstanding price-to-value ratio

Habasit has developed the unique TC and TCF product ranges based on its experience, ongoing research, close contacts with the textile, printing & paper and materials handling industries, as well as long-term partnerships with leading machine manufacturers worldwide.

The result is a product range with an outstanding price-to-value ratio. PET power transmission belts (TC and TCF) are the perfect solution for compact driving configurations, serpentine drives and very high speeds.

Features



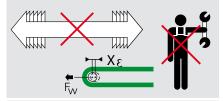
- Very flexible belt
- Uniform longitudinal flexibility thanks to adhesive-free joining system

Benefits

- Excellent resistance to flex fatigue
- Belt can cope with small pulley diameters and compact design
- Longest service life
- Outstanding reliability



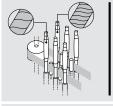
- Reduced energy consumption
- Maximum efficiency
- Economical production
- Energy cost savings



- Stable modulus of elasticity
- Low sensitivity to humidity
- High dimensional stability
- No retensioning
- No downtimes

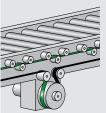


- Covers tailor-made for the application
- Best-in-class abrasion resistance
- Constant coefficient of friction
- Most economic, applicationoriented solution and optimized price/value ratio
- Uniform driving conditions
- Reliable conveying properties
- Long belt life



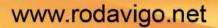


- Constant and uniform varn twist
- Best yarn quality
- Highest productivity





- Constant and uniform driving conditions
- Highest throughput
- Reliable sorting procedure



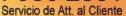


Application Table Belt Selection Guide and Technical Key Data (Selection Only)

		<u> </u>				
	TC and TCF Polyester power transmission belts (HabaDRIVE®)					
Industry processes / Belt applications	TC-10EF	TC-20EF	TC-20/25EF	TC-35ER	T	
General driving applications						
Driving belt	•	•	•	•		
Textile industry applications						
Tangential drive	•	•	•	•		
Rotor drive			•	•		
Combing roll drive		•	•	•		
Main drive	•	•	•	•		
Fan drive	•	•		•		
Dust cleaner belt		•		•		
Printing & paper						
Finishing systems / bookbinding	•	•	•			
Tube winder						
Tissue and diaper production	•	•				
Paper and cardboard converting, various kinds of applications	•	•	•	•		
Letter sorting						
Driving belts	•	•				
Materials handling						
Live roller conveyor	•	•		•		
Product construction/design						
Friction cover (material)	NBR	NBR	NBR	NBR		

	NBR	NBR	NBR	NBR	
	Fine structure	Rough structure	Rough structure	Rough structure	Ro
	Black	Black	Black	Black	
	PET	PET	PET	PET	
	NBR	NBR	NBR	NBR	
	Fine structure	Fine structure	Fine structure	Rough structure	Ro
	Light green	Light green	Light green	Light green	
	DSPT	DSPT	DSPT	DSPT	
	Yes	Yes	Yes	Yes	
[mm] <i>[in.]</i>	1.8 <i>0.07</i>	2 0.08	2.5 <i>0.1</i>	2.5 <i>0.1</i>	
[mm] <i>[in.]</i>	25 1	25 <i>1</i>	50 <i>2</i>	50 <i>2</i>	
[N/mm] [lbs./in.]	5 29	10 <i>57</i>	11 <i>63</i>	18 <i>103</i>	
[N/mm] [lbs./in.]	10 <i>57</i>	21 <i>120</i>	23 131	38 <i>217</i>	
[°C] <i>[°F]</i>	-20/70 -4/158	-20/70 <i>-4/158</i>	-20/70 <i>-4/158</i>	-20/70 <i>-4/158</i>	
[mm] <i>[in.]</i>	1100 <i>43</i>	1100 <i>43</i>	1100 <i>43</i>	1100 <i>43</i>	
	•	•	•	•	
	TC-10EF	TC-20EF	TC-20/25EF	TC-35ER	Т
	[in.] [mm] [in.] [N/mm] [lbs./in.] [N/mm] [lbs./in.] [°C] [°F] [mm]	Fine structure Black PET NBR Fine structure Light green DSPT Yes	Fine structure Rough structure Black PET PET NBR NBR Fine structure Light green DSPT DSPT Yes Yes [mm]	Fine structure Rough structure Rough structure	Fine structure

- This application / belt matrix is not exhaustive and serves an indication of potential solutions. For detailed material and belt selection please contact your local Habasit partner
- All data are approximate values under standard climatic conditions: 23°C / 73°F, 50% relative humidity (DIN 50005 / ISO 554), and are



C-35/30ER	TC-35/35ER	TC-55ER	TCF-20EL	TCF-35EL	TCF-55EL	TCF-20H	TCF-50H
•	•	•	•	•	•	•	•
_		•	•		•	•	
•	•	•					
•	•	•	•	•	•		
		•	•	•	•		
			•				
•	•		·				
_	-		•			•	
•	•		•			•	
						•	
		•	•	•	•	•	•
NBR	NBR	NBR	NBR	NBR	NBR	TPU	Hamid
			Longitudinal	Longitudinal	Longitudinal		
ugh structure	Rough structure	Rough structure		groove structure		Fine structure	Fine structure
Black	Black	Black	Black	Black	Black	Dark green	White
PET	PET	PET	PET	PET	PET	PET	PET
NBR	NBR	NBR	Hamid	Hamid	Hamid	TPU	Hamid
ugh structure	Rough structure	Rough structure	Fine structure	Fine structure	Fine structure	Fine structure	Fine structure
ight green	Light green	Light green	Green	Green	Green	Dark green	White
DSPT	DSPT	DSPT	OSPT	OSPT	OSPT	DSPT	DSPT
Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
100	100	100	100	103	100	100	103
3.0	3.5	3.0	2.6	3.0	3.5	1.5	2
0.12	0.14	0.12	0.1	0.12	0.14	0.06	0.08
50 <i>2</i>	70 <i>2.8</i>	70 <i>2.8</i>	80 <i>3.1</i>	100 <i>4</i>	150 <i>6</i>	25 1	60 <i>2.4</i>
18	18	25	10	18	25	10	24
103	103	143	57	103	143	57	137
38	38	53	21	38	53	20	48
<i>217</i> -20/70	<i>217</i> -20/70	<i>303</i> -20/70	<i>120</i> -20/70	<i>217</i> -20/70	<i>303</i> -20/70	114 -20/70	<i>274</i> -20/70
-4/158	-4/158	-4/158	-4/158	-4/158	-4/158	-4/158	-4/158
1100	1100	1100	1100	1100	1100	1100	1100
43	43	43	43	43	43	43	43
•	•	•	•	•	•	•	•
-		-	-		-		
C-35/30ER	TC-35/35ER	TC-55ER	TCF-20EL	TCF-35EL	TCF-55EL	TCF-20H	TCF-50H

Legend DSPT = Double-sided power transmission Hamid = Habasit thermoplastic compound NBR = Acrylonitrile-Butadiene-Rubber **OSPT** = One-sided power transmission

RODAVIGO, S.A.

PET = Polyester TPU

= Polvurethane thermoplastic

Transp. = Transparent (clear) Waffle struct. = Waffle structure

applicable

conditionally applicable

not applicable



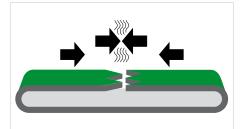
Fabrication Joining Method, Tools and Installation



All TC- and TCF- belt types can be joined with the adhesive-free Flexproof method.



- Simple handling steps
- Fast execution/joining



The Flexproof joining benefits are

- Easy handling
- Adhesive-free joint = high belt flexibility
- Minimum equipment needed
- Short machine downtimes



Tools, fabrication tools and auxiliaries

Offering superior fabrication capabilities is a key element in Habasit's service concept. Fabrication can take place either in the facilities of the belt supplier or on-site at the end-user. The joining can be done either by the customer or by Habasit's on-site service. These two approaches are based on two different principles. Habasit provides solutions for both: a well-adapted range of joining tools / systems and an extensive service network.

Installation services



Tools for on-site fabrication

Because we understand your processes, we can support you with cost-effective high-quality tools that keep your equipment up and running. In case of emergencies our tools will help you to minimize downtimes and efficiently support the joining process. Habasit offers zig-zag cutting devices to prepare polyester power transmission belts. A selection of hot pressing devices to fit your applications and to guarantee optimum quality complement the tool package.



On-site installation service

In cases where it is not economical to have the tools ready on-site, you can rely on a nearby Habasit affiliate or service partner who will provide the equipment necessary for the required fabrication and installing service.



The Habasit Solution

7

At Habasit, we listen to our customers, innovate continuously and deliver reliable solutions to meet your every need.

Customers come first

At Habasit we understand that our success depends on your success. This is why we offer solutions, not just products; partnership, not just sales.

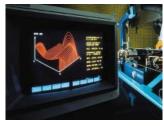
Since our foundation in 1946, Habasit has brought this understanding of customer needs to life every day and for every application. That's why we're the No. 1 in belting today. Worldwide.





Committed to innovation

Habasit is strongly committed to the continuous development of innovative, value-added solutions. Over 3% of our staff are dedicated exclusively to R&D, and our annual investment in this area exceeds 8% of turnover.





Certified for quality

We deliver the highest quality standards not only in our products and solutions, but also in our employees' daily work processes. Habasit AG is certified according to ISO 9001:2000.



Worldwide leading product range

Habasit offers the largest selection of belting, conveying, processing and complementary products in the industry. Our response to any request is nothing less than a specific, tailormade solution.

A selection of our product ranges:



HabaFLOW® Fabric based conveyor and processing belts



HabasitLINK® & KVP®
Plastic modular belts



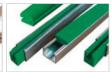
HabaDRIVE®
Power
transmission
belts



HabaSYNC® Timing belts



HabaCHAIN®
Chains (slat and conveyor chains)



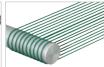
HabiPLAST®
Profiles
Guides
Wear strips



Machine tapes



Seamless belts



Round belts



Fabrication tools (joining tools)



Gear reducers Gearmotors Motion control



Electric motors

Worldwide support

Our extensive organization is ready to support you anywhere in the world. Engineering and emergency assistance, quotes and order status are just a phone call away. Wherever you are. Whenever you need us.

For additional information please visit: www.habasit.com



Services



Consulting and technical support

Habasit offers the best consulting and technical support on the belting market. Everything revolves around our customers. Each affiliate has its own experts. The Habasit team proudly provides the highest levels of support and top-quality products enjoyed by the global market for over 60 years.



Assistance with selection and calculation

We will select and calculate the most suitable belt for your specific application. You also may do this yourself with our state-of-the-art Habasit selection and calculation program "SeleCalc."

POWER-SeleCalc = Power transmission belt selection and calculation **CONVEY-SeleCalc** = Fabric conveyor belt selection and calculation **LINK-SeleCalc** = Plastic modular belt selection and calculation



Customer training programs

Habasit offers training programs and provides support tools to ensure optimal use of our products and to prolong their lifecycles. Training on fabrication, installation, assembly, maintenance and belt repair takes place at Habasit sites or at your location.



Belt monitoring, inspections, analyses and process optimization proposals

We organize and handle belt maintenance, inspections, analyses and surveys for your locations. On request we will also work with you to develop optimization proposals, e.g. to achieve added value from the machinery or process output.



Design assistance for customized solutions

Habasit believes in partnership. Our engineering team will work closely with your engineers on joint design developments, preferably from a very early stage. We particularly recommend this for projects involving new technologies or large-scale modifications and adaptations.



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. BECAUSE CONDITIONS OF USE ARE OUTSIDE OF HABASIT'S AND ITS AFFILIATED COMPANIES' CONTROL, WE CANNOT ASSUME ANY LIABILITY CONCERNING THE SUITABILITY AND PROCESS ABILITY OF THE PRODUCTS MENTIONED HEREIN. THIS ALSO APPLIES TO PROCESS RESULTS / OUTPUT / MANUFACTURING GOODS AS WELL AS TO POSSIBLE DEFECTS, DAMAGES, CONSEQUENTIAL DAMAGES, AND FURTHER-REACHING CONSEQUENCES.

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