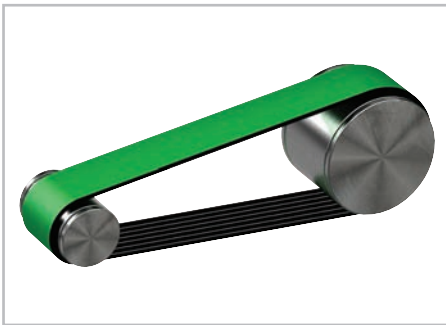


TCF-20EL, TCF-35EL, TCF-55EL power transmission belts



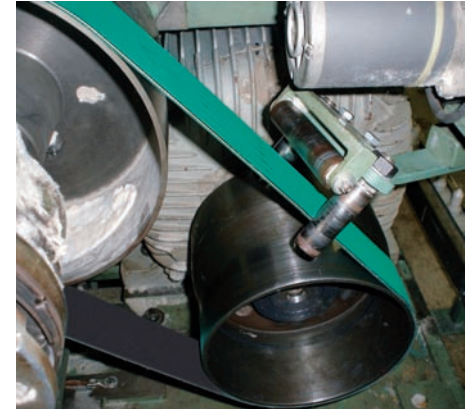
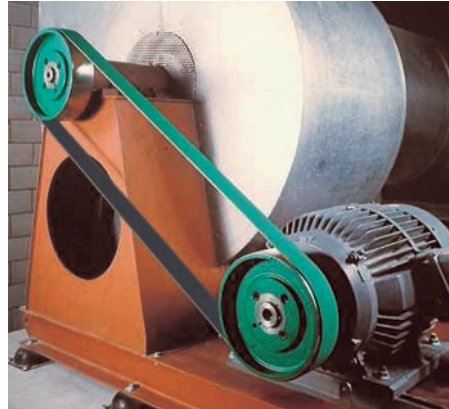
TCF power transmission belts are the perfect solution for long service life, high reliability and for reduced energy consumption.



Applications, belt types

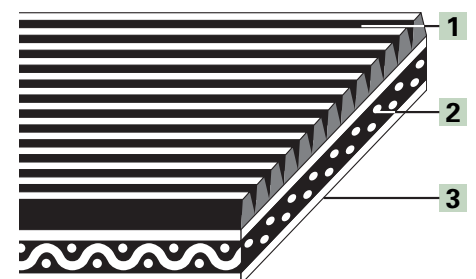
Technical key data

	TCF-20EL	TCF-35EL	TCF-55 EL
Belt application			
Materials Handling	•	•	•
Paper processing	•	•	•
Textile	•	•	•
Wood processing	•	•	•



	TCF-20EL	TCF-35EL	TCF-55 EL	
Product construction / design				
Friction cover (Material)	NBR ¹⁾	NBR ¹⁾	NBR ¹⁾	
Friction cover (Surface)	Longitudinal groove structure	Longitudinal groove structure	Longitudinal groove structure	
Friction cover (Color)	Black	Black	Black	
Traction layer (Material)	PET	PET	PET	
Reverse cover (Material)	Hamid foil	Hamid foil	Hamid foil	
Reverse cover (Surface)	Fine structure	Fine structure	Fine structure	
Reverse cover (Color)	Green	Green	Green	
Product characteristics				
Drive determination	One-sided power transmission	One-sided power transmission	One-sided power transmission	
Permanently antistatic	Yes	Yes	Yes	
Technical key data				
Thickness	[mm]	2.6	3	3.5
	[in.]	0.01	0.12	0.14
Mass of belt (belt weight)	[kg/m ²]	2.8	3.2	3.8
	[lbs./sq.ft.]	0.57	0.66	0.78
Pulley diameter minimum with counterflexion	[mm]	80	100	150
	[in.]	3.1	3.9	5.9
Tensile force for 1% elongation	[N/mm]	10	18	25
	[lbs./in.]	57	103	143
(k1% after running-in) per unit of width (Habasit standard 320.013)				
Nominal peripheral force per unit of width	[N/mm]	21	38	53
	[lbs./in.]	120	217	303
Operating temperature, admissible (continuous)	[°C]	-20 / 70	-20 / 70	-20 / 70
	[°F]	-4 / 158	-4 / 158	-4 / 158
Seamless manufacturing width	[mm]	1100	1100	1100
	[in.]	43	43	43
Joining system				
Flexproof	•	•	•	

Product Design (enlarged)




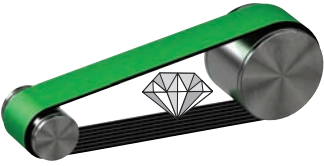
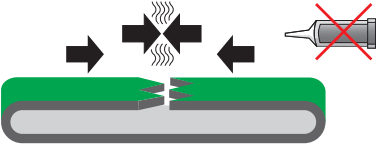
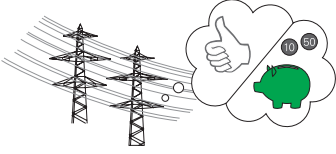
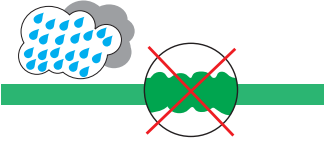
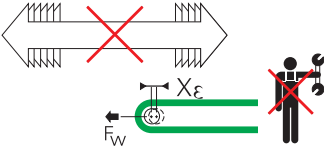
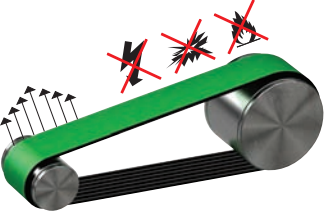
Legend

- NBR¹⁾ Acrylonitrile-Butadiene-Rubber as friction cover (pulley / cylinder side)
 PET Polyester fabric

Legend

- 1 Friction cover
 2 Traction layer
 3 Reverse cover

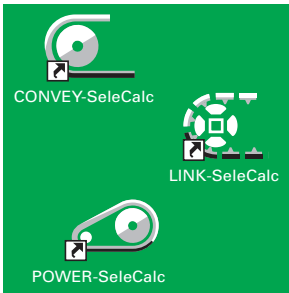
Features and benefits

	
Features	Benefits
 <ul style="list-style-type: none"> • NBR longitudinal groove structure cover • Excellent abrasion resistance • Constant coefficient of friction 	<ul style="list-style-type: none"> → Excellent power transmission in difficult external environment → High efficiency, energy saving → Long belt life
 <ul style="list-style-type: none"> • Simple and fast joining method (Flexproof) • Adhesive-free joint 	<ul style="list-style-type: none"> → Easy handling adhesive-free joint → Minimum equipment needed → Short machine downtimes
 <ul style="list-style-type: none"> • High longitudinal flexibility 	<ul style="list-style-type: none"> → Lower energy cost
 <ul style="list-style-type: none"> • Low sensitivity to humidity 	<ul style="list-style-type: none"> → High dimensional stability → No re-tensioning → No downtimes
 <ul style="list-style-type: none"> • Stable modulus of elasticity 	<ul style="list-style-type: none"> → High dimensional stability → No re-tensioning → No downtimes
 <ul style="list-style-type: none"> • Permanently antistatic 	<ul style="list-style-type: none"> → Less dust and dirt attraction → Process reliability → Low maintenance cost



Consulting and technical support

Habasit offers the best consulting and technical support on the belting market for fabric based belts and plastic modular belts founded on the experience and competence acquired in more than 50 years.



Belt selection and calculation

For our customers we select and calculate the most suitable belt for a specific application. However, customers may do it themselves thanks to the state-of-the-art Habasit selection and calculation programs "SeleCalc". For ordering these programs free of charge simply call the nearest Habasit partner or contact: info@habasit.com

CONVEY-SeleCalc = Fabric conveyor belt selection and calculation

LINK-SeleCalc = Plastic modular belt selection and calculation

POWER-SeleCalc = Power transmission belt selection and calculation (available from April 2005)



Testing offer for customers

We offer R&D expertise, laboratory and test equipment for the customer's specific process needs like mechanical endurance testing, influence of process used chemicals / ingredients or thermal influence behavior on belts.



Designing the future: "Partner in Design"

Habasit believes in partnership. For joint design developments our engineering team is looking for strong cooperation with the customer's engineering team, preferably at a very early stage. We recommend this cooperation in particular for projects involving new technologies or large-scale modifications / adaptations. Co-design: We work together for success.



Guaranteed performance

Our faith in our products is such that if one of our sales specialists has recommended a belt for a specific application, we will guarantee its performance. Should for any reason that belt not perform optimally, your money will be refunded unconditionally.



Green areas represent the density of the Habasit sales and service network.

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Printed in Switzerland

Publication data:
 4115FLY.PTB-en0206HQR