

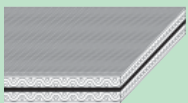
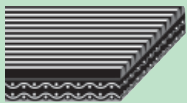
Power transmission belts HabaDRIVE®

The belt concept

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Habasit has developed the HabaDRIVE® range of power transmission belts to allow you to choose the most suitable belt for your specific application.

The concept is based on the three traction layer materials used:

	Polyester power transmission belts		Polyamide power transmission belts		Aramide power transmission belts
	The versatile belt		The hard-working belt		The sophisticated belt
	Outstanding price-to-value ratio First choice of machine manufacturers and end users worldwide		Well known for its reliability and long service life Robust and highly resilient, copes with intermittent overload and high temperatures (up to 100 °C)		Best choice for long belts Short take-up and highest accuracy for numbers of revolutions (rpm) and belt speed
	TC-	TCF-xxEL	S-	A-	TF-
	• Low energy consumption • Highly flexible • Simple to join • Reliable performance	• Low energy consumption • Grooves enable high grip • Highly flexible • Simple to join	• Resilient • Shock resistant	• Resilient • Shock resistant • Grooves enable high grip	• Low energy consumption • Highly flexible • Simple to join • High E-modulus
Application as/for					
Tangential drive	•	—	•	—	•
Multiple pulley drive	•	•	•	•	•
Live roller drive	•	—	•	—	•
Double-sided power transmission	•	—	•	—	•
Design and materials	e.g.: TC-55ER 	e.g.: TCF-20EL 	e.g.: S-250H 	e.g.: A-2 	e.g.: TF-50 
Friction cover (Material)	NBR-Rubber	NBR-Rubber	NBR-Rubber	NBR-Rubber	NBR-Rubber ¹⁾
Traction layer (Material)	Polyester		Polyamide		Aramide
Reverse cover (Material)	NBR-Rubber	Hamid	NBR-Rubber	NBR-Rubber (protection cover)	NBR-Rubber ¹⁾
Operating temperature admissible (continuous)	-20 °C/70 °C -4 °F/158 °F		-20 °C/100 °C -4 °F/212 °F		-20 °C/65 °C -4 °F/149 °F
Fabrication/ joining system	Flexproof (adhesive-free)		Thermofix		Flexproof (adhesive-free)

¹⁾ except TF-15H (Hamid)

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Product key data

The table below lists the key data of the most commonly used HabaDRIVE® belts.

For detailed and up-to-date product data, contact www.habasit.com

	Belt group	Belt code	Double-sided power transmission, tangential drives	Thickness [mm]	Pulley diameter minimum with counter flexion [mm]	Tensile force for 1% elongation per unit of width [N/mm] (k_1 % after running in)	Nominal peripheral force per unit of width [N/mm]
Polyester power transmission belts	TC-	TC-10EF	●	1.8	25	5	10
		TC-20EF	●	2.0	25	10	21
		TC-20/25EF	●	2.5	50	11	23
		TC-35ER	●	2.5	50	18	38
		TC-35/30ER	●	3.0	50	18	38
		TC-35/35ER	●	3.5	70	18	38
		TC-55ER	●	3.0	70	25	53
	TCF-	TCF-20EL	○	2.6	80	10	21
		TCF-35EL	○	3.0	100	18	38
		TCF-55EL	○	3.5	150	25	53
		TCF-20H	●	1.5	25	10	20
		TCF-50H	●	2.0	60	24	48
Polyamide power transmission belts	S-	S-10/15	●	1.5	40	4.4	12
		S-18/20	●	2.0	60	8	22
		S-18/30	●	3.0	60	8	22
		S-33/40	●	4.0	125	13	37
		S-33/50	●	5.0	125	13	37
		S-140H	●	1.7	40	4.8	13
		S-141H	●	2.3	40	4.8	13
		S-250H	●	2.3	100	11	29
		S-250HR	●	2.6	100	11	29
		S-251H	●	3.0	100	11	29
		S-321H	●	3.2	125	13	35
		S-390H	●	3.2	160	14	38
		S-391H	●	4.0	160	14	38
	A-	A-2	○	2.7	60	7.5	22
		A-3	○	3.4	125	12	36
		A-4	○	5.0	300	21	63
		A-5	○	6.8	450	30	92
Aramide power transmission belts	TF-	TF-10	●	1.7	25	10	10
		TF-15	●	2.0	30	15	15
		TF-15H	●	1.5	30	15	15
		TF-22	●	2.4	60	22	22
		TF-33	●	3.0	100	33	33
		TF-50	●	3.9	125	50	50
		TF-75T	○	4.4	200	75	75
		TF-75TE	○	4.4	200	75	75

● Applicable ○ Not applicable

All data are approximate values under standard climatic conditions: 23 °C/73 °F, 50% relative humidity (DIN 50005/ISO 554), and are based on the Habasit master joining method.