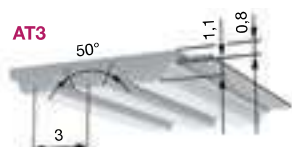
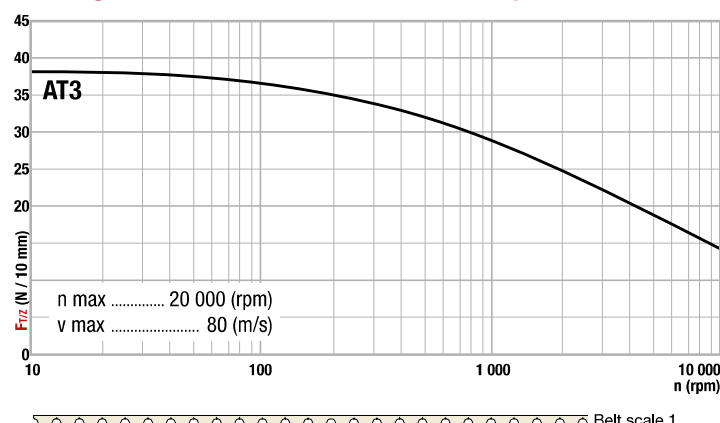


TIMING BELTS



Tangential force transmittable by the teeth



Tangential force transmittable by the tension members

Profile/ pitch	Belt width (mm)	Weight (kg/m)	Linear belts (M)								Welded belts (V)	
			Tension members: standard steel - polyurethane: TPU ST1 ²				Tension members: stainless steel - polyurethane: TPU AU1 ²				Permissible force at the join F _N (N) standard tens. members	Permissible force at the join F _N (N) stainless st. tens. members
			Permissible force F _N (N)	Specific elasticity of tension member Cspe (N)	Stock		Permissible force F _N (N)	Specific elasticity of tension member Cspe (N)	Stock			
					Standard	PAZ ¹			Standard	PAZ ¹		
PRECISION APPLICATIONS												
AT3	6	0.013	240	0.6 . 105	●		180	0.6 . 105			120	90
	8	0.018	320	0.8 . 105	○		240	0.8 . 105			160	120
	10	0.022	400	1.0 . 105	●		300	1.0 . 105			200	150
	12	0.026	480	1.2 . 105	○		360	1.2 . 105			240	180
	16	0.035	640	1.6 . 105	●		480	1.6 . 105			320	240
	20	0.044	800	2.0 . 105	●		600	2.0 . 105			400	300
	25	0.054	1 000	2.5 . 105	○		750	2.5 . 105			500	375
	32	0.070	1 280	3.2 . 105	○		960	3.2 . 105			640	480

AT3 tolerances

Profile	Width (mm)	Length (mm/m)	Total thickness (mm)	Thickness of tooth (mm)
AT3	+/- 0.5	+/- 0.8	- 0.1 / + 0.3	0 / - 0.1

Option : PAZ¹

Polyamide on tooth side.



Standard lengths and widths available

Linear belts (M)

- Every length tooth to tooth possible
- In stock: rolls of 50 or 100 m
- Lengths greater than 100 m on request

Options

- Stainless steel or aramide tension member, see page 6 (on request)
- Polyurethane see page 5 (on request)
- Coatings see pages 56 to 63

Welded belts (V)

- Minimum length: 880 mm

BELT ORDERING EXAMPLES

Designation	Width	Profile / Length	Particular specifications
Open linear BRECO belt	50	AT3/1600 M	
Welded linear BRECO belt	50	AT3/1600 V	PAZ ¹

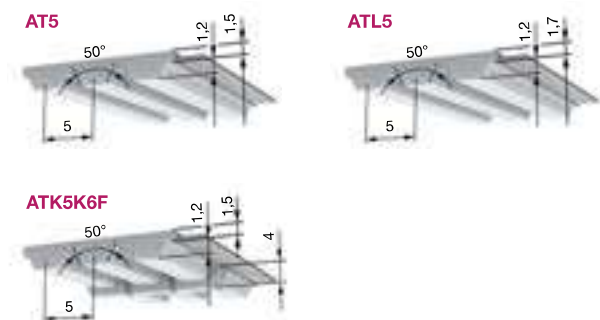
DELIVERY TIMES

Belts in stock	●	3 days acc. to availability
Standard belts	○	4 to 6 weeks
Special belts		consult us

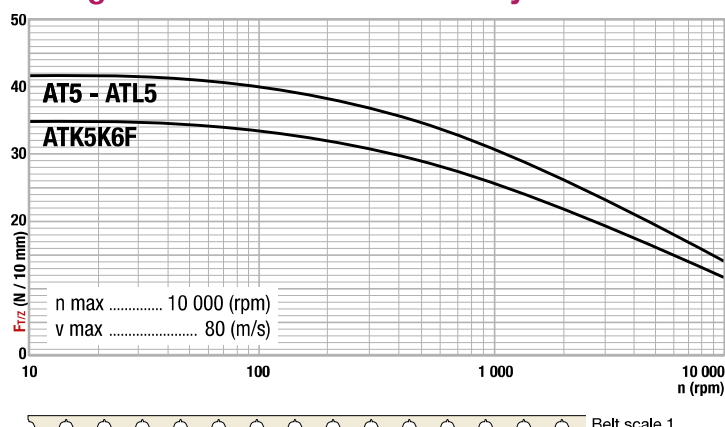
Recommended pre-tension: see page 4
General information: see page 4

1. Backing (PAZ): see page 56
2. Polyurethane: see characteristics page 5

TIMING BELTS



Tangential force transmittable by the teeth



Tangential force transmittable by the tension members

Profile/ pitch	Belt width (mm)	Weight (kg/m)	Linear belts (M)								Welded belts (V)	
			Tension members: standard steel - polyurethane: TPU ST1 ²				Tension members: stainless steel - polyurethane: TPU AU1 ²				Permissible force at the join F _N (N) standard tens. members	Permissible force at the join F _N (N) stainless st. tens. members
			Permissible force F _N (N)	Specific elasticity of binding Cspe (N)	Stock		Permissible force F _N (N)	Specific elasticity of binding Cspe (N)	Stock			
					Standard	PAZ ¹			Standard	PAZ ¹		
PRECISION APPLICATIONS												
AT5	6	0.020	420	0.105 . 106	●		270	0.105 . 106			210	135
	8	0.026	560	0.140 . 106	●		360	0.140 . 106			280	180
	10	0.033	700	0.175 . 106	●		455	0.175 . 106			350	227
	12	0.039	840	0.210 . 106	●		540	0.210 . 106			420	270
	16	0.052	1 120	0.280 . 106	●		730	0.280 . 106			560	365
	20	0.065	1 400	0.350 . 106	●		900	0.350 . 106			700	450
	25	0.082	1 750	0.440 . 106	●		1 140	0.440 . 106			875	570
	32	0.105	2 240	0.560 . 106	●		1 460	0.560 . 106			1 120	730
	50	0.164	3 500	0.875 . 106	●		2 280	0.875 . 106			1 750	1 140
	64	0.209	4 480	1.120 . 106	●		2 880	1.120 . 106			2 240	1 440
75	0.245	5 250	1.310 . 106	●		3 420	1.310 . 106			2 625	1 710	
100	0.327	7 000	1.750 . 106	●		4 500	1.750 . 106			3 500	2 250	
HIGH-PERFORMANCE APPLICATIONS												
ATL5	16	0.059	1 300	0.330 . 106	●							
	20	0.075	1 680	0.420 . 106	●							
	25	0.09	2 000	0.500 . 106	●							
	32	0.119	2 800	0.650 . 106	●							
	50	0.187	4 200	1.050 . 106	●							
SELF-GUIDING PRECISION APPLICATIONS												
ATK5K6	25	0.089	1 750	0.438 . 106	●		1 140	0.438 . 106			875	570
	32	0.118	2 240	0.560 . 106			1 460	0.560 . 106			1 120	730
	50	0.177	3 500	0.875 . 106	●		2 280	0.875 . 106			1 750	1 140

AT5 tolerances

Profile	Width (mm)	Length (mm/m)	Total thickness (mm)	Thickness of tooth (mm)
AT5	+/- 0.5	+/- 0.8	- 0.1 / + 0.3	0 / - 0.05
ATL5	+/- 0.5	- 0.1 / - 0.4	- 0.1 / + 0.3	0 / - 0.1
ATK5K6F	+/- 0.5	+/- 0.8	- 0.1 / + 0.3	0 / - 0.1

Manufacturing method: locking system

Welded linear BRECO® belt



Standard lengths and widths available

Linear belts (M)

- Every length tooth by tooth possible
- In stock: rolls of 50 or 100 m
- Lengths greater than 100 m on request

Welded belts (V)

- Minimum length: 880 mm

Options

- Stainless steel or aramide tension member, see page 6 (on request)
- Polyurethane see page 5 (on request)
- Coatings see pages 56 to 63

Self-guiding

- Intermediate widths (on request)

BELT ORDERING EXAMPLES

Designation	Width	Profile / Length	Particular specifications
Welded linear BRECO belt	50	AT10K6/1600 V	
Open linear BRECO belt	50	AT10/2000 BAS M	PAZ ¹

DELIVERY TIMES

Belts in stock	●	3 days acc. to availability
Standard belts	○	4 to 6 weeks
Special belts		consult us

Recommended pre-tension: see page 4
General informations: see page 4

1. Backing (PAZ): see page 56
2. Polyurethane: see characteristics page 5

TIMING BELTS

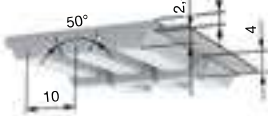
AT10 basic - AT10



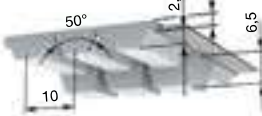
ATL10



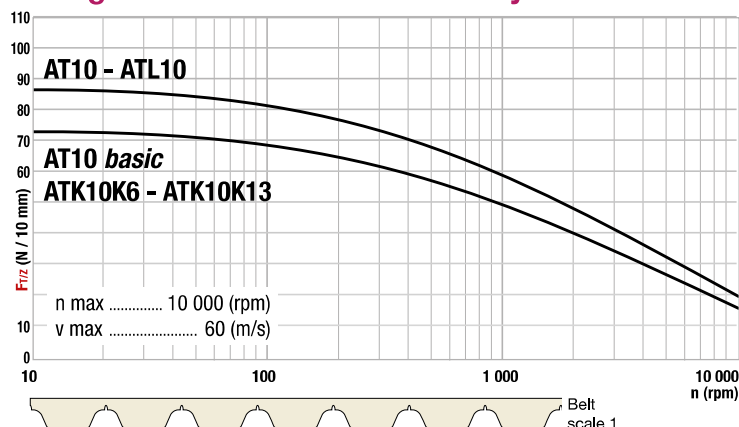
ATK10K6



ATK10K13



Tangential force transmittable by the teeth



Tangential force transmittable by the tension members

Profile/ pitch	Belt width (mm)	Weight (kg/m)	Linear belts (M)						Welded belts (V)	
			Tension members: standard steel - polyurethane: TPU ST1 ²			Tension members: stainless steel - polyurethane: TPU AU1 ²			Permissible force at the join F _N (N) standard tens. members	Permissible force at the join F _N (N) stainless st. tens. members
			Permissible force F _N (N)	Specific elasticity of tension member Cspe (N)	Stock	Permissible force F _N (N)	Specific elasticity of tension member Cspe (N)	Stock		
					Standard	PAZ ¹				
SIMPLE APPLICATIONS										
AT10 basic ³	16	0.093	2 750	0.69 · 106	●				1 375	
	25	0.158	4 250	1.06 · 106	●				2 125	
	32	0.186	5 500	1.37 · 106	●				2 750	
	50	0.290	8 500	2.12 · 106	●				4 250	
	75	0.436	12 750	3.18 · 106	○				6 375	
	100	0.581	17 000	4.25 · 106	○				8 500	
PRECISION APPLICATIONS										
AT10	12	0.070	2 040	0.51 · 106	○		1 520	0.51 · 106	1 020	760
	16	0.093	2 750	0.69 · 106	●		2 000	0.69 · 106	1 375	840
	20	0.120	3 400	0.85 · 106	●		2 560	0.85 · 106	1 700	1 280
	25	0.158	4 250	1.06 · 106	●		3 190	1.06 · 106	2 125	1 595
	32	0.186	5 500	1.37 · 106	●		4 125	1.37 · 106	2 750	2 065
	50	0.290	8 500	2.12 · 106	●		6 375	2.12 · 106	4 250	3 190
	75	0.436	12 750	3.18 · 106	●		9 560	3.18 · 106	6 375	4 780
	100	0.581	17 000	4.25 · 106	○		12 750	4.25 · 106	8 500	6 375
	150	0.839	22 000	5.50 · 106	○		19 125	5.50 · 106	11 000	9 565
HIGH-PERFORMANCE APPLICATIONS										
ATL10	25	0.17	5 600	1.4 · 108	●		4 480	1.4 · 108		
	32	0.22	7 200	1.8 · 108	●		5 760	1.8 · 108		
	50	0.34	11 200	2.8 · 108	●	●	8 960	2.8 · 108		
	75	0.51	16 800	4.2 · 108	○		13 440	4.2 · 108		
	100	0.68	22 400	5.6 · 108	○		17 920	5.6 · 108		
	150	1.02	36 000	9.0 · 108	○		28 800	9.0 · 108		
SELF-GUIDING PRECISION APPLICATIONS										
ATK10K6	50	0.302	7 500	1.87 · 106			5 625	1.87 · 106	3 750	2 815
ATK10K13	32	0.227	4 500	1.20 · 106			3 375	1.20 · 106	2 250	1 690
	50	0.331	7 500	1.87 · 106			5 625	1.87 · 106	3 750	2 815
	75	0.465	10 500	2.80 · 106			7 875	2.80 · 106	5 250	3 940
	100	0.621	16 000	3.74 · 106			12 000	3.74 · 106	8 000	6 000
	150	0.889	22 000	5.61 · 106			16 500	5.61 · 106	11 000	8 250

AT10 tolerances

Profile	Width (mm)	Length (mm/m)	Total thickness (mm)	Thickness of tooth (mm)
AT10	+/- 0.8	+/- 0.5	- 0.1 / + 0.3	0 / - 0.1
ATL10	- 1 / + 0.4	+/- 1	- 0.1 / + 0.3	0 / - 0.15
ATK10K6	+/- 0.8	+/- 0.5	- 0.1 / + 0.3	0 / - 0.1
ATK10K13	+/- 0.8	+/- 0.5	- 0.1 / + 0.3	0 / - 0.1

Option:

tension plate
See page 123



Standard lengths and widths available

Linear belts (M)

- Every length tooth to tooth possible
- In stock: rolls of 50 or 100 m
- Lengths greater than 100 m on request

Welded belts (V)

- AT10: widths ≤ 100 mm, from 880 mm
- AT10: width 150 mm, from 1000 mm
- ATK10: all widths from 1000 mm

Options

- Stainless steel or aramide tension member, see page 6 (on request)
- Polyurethane see page 5 (on request)
- No option possible for BRECObasic®
- Coatings see pages 56 to 63

Self-guiding

- Intermediate widths (on request)

BELT ORDERING EXAMPLES

Designation	Width	Profile / Length	Particular specifications
Welded linear BRECO belt	50	AT10K6/1600 V	
Open linear BRECO belt	50	AT10/2000 BAS M	PAZ ¹

DELIVERY TIMES

Belts in stock	●	3 days acc. to availability
Standard belts	○	4 to 6 weeks
Special belts		consult us

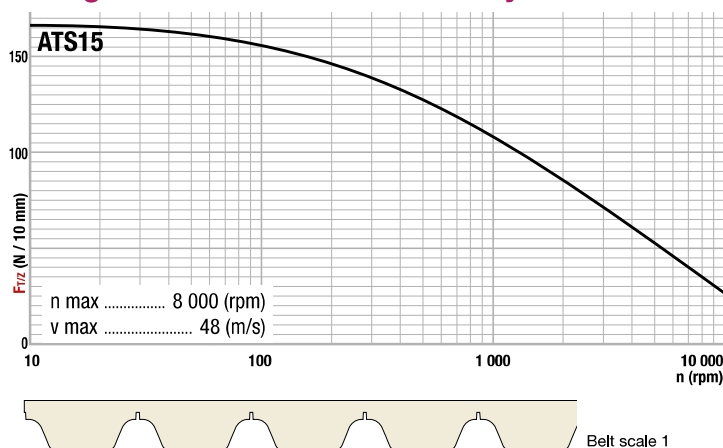
Recommended pre-tension: see page 4
General information: see page 4

1. Backing (PAZ): see page 56
2. Polyurethane: see characteristics page 5
3. Polyurethane: TPUBAS partly recycled.

TIMING BELTS



Tangential force transmittable by the teeth



Tangential force transmittable by the tension members

Profile/ pitch	Belt width (mm)	Weight (kg/m)	Linear belts (M)							Welded belts (V)		
			Tension members: standard steel - polyurethane: TPU ST1 ²				Tension members: stainless steel - polyurethane: TPU AU1 ²			Permissible force at the join F _N (N) standard tens. members	Permissible force at the join F _N (N) stainless st. tens. members	
			Permissible force F _N (N)	Specific elasticity of tension member Cspe (N)	Stock		Permissible force F _N (N)	Specific elasticity of tension member Cspe (N)	Stock			
					Standard	PAZ ¹			Standard			PAZ ¹
HIGH-PERFORMANCE APPLICATIONS												
ATS15	25	0.250	6 765	0.172 . 107			5 390	0.172 . 107				
	50	0.500	13 530	0.343 . 107			10 780	0.343 . 107				
	75	0.750	20 295	0.515 . 107			16 170	0.515 . 107				
	100	1.000	27 080	0.686 . 107			21 560	0.686 . 107				
	150	1.500	40 590	1.030 . 107			32 340	1.030 . 107				

ATS15 tolerances

Profile	Width (mm)	Length (mm/m)	Total thickness (mm)	Thickness of tooth (mm)
ATS15	+/- 1	+/- 0.8	- 0.1 / + 0.3	0 / - 0.15

BRECOProtect® belt

Adapted to extreme environments and food applications.
Available in T10, AT10, AT15 profiles and pitches: see [page 12](#)



Standard lengths and widths available

Linear belts (M)

- Every length tooth to tooth possible
- In stock: rolls of 50 or 100 m
- Lengths greater than 100 m on request

Options

- Stainless steel or aramide tension member, see [page 6](#) (on request)
- Polyurethane see [page 5](#) (on request)
- Coatings see [pages 56 to 63](#)

BELT ORDERING EXAMPLE

Designation	Width	Profile / Length	Particular specifications
Open linear BRECO belt	50	ATS15/4500 M	

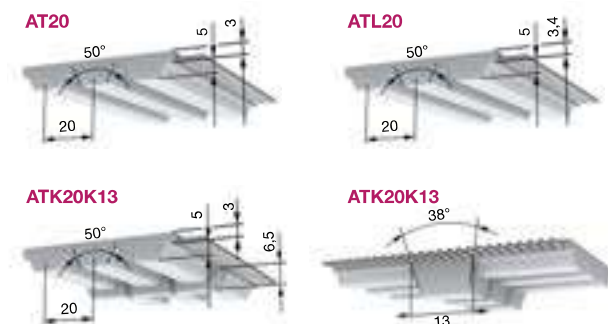
DELIVERY TIMES

Standard belts	4 to 6 weeks
Special belts	Consult us

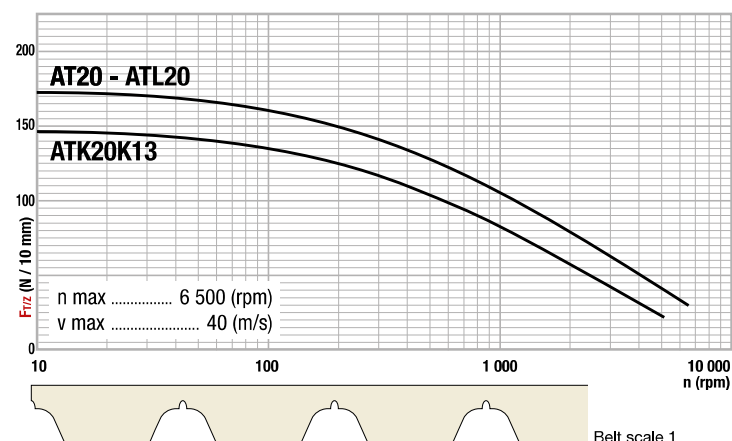
Recommended pre-tension: see [page 4](#)
General information: see [page 4](#)

1. Backing (PAZ): see [page 56](#)
2. Polyurethane: see characteristics [page 5](#)

TIMING BELTS



Tangential force transmittable by the teeth



Tangential force transmittable by the tension members

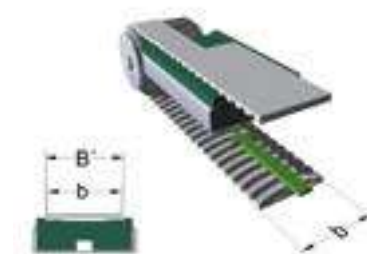
Profile/ pitch	Belt width (mm)	Weight (kg/m)	Linear belts (M)								Welded belts (V)	
			Tension members: standard steel - polyurethane: TPU ST1 ²				Tension members: stainless steel - polyurethane: TPU AU1 ²				Permissible force at the join F _N (N) standard tens. members	Permissible force at the join F _N (N) stainless st. tens. members
			Permissible force F _N (N)	Specific elasticity of tension member Cspe (N)	Stock		Permissible force F _N (N)	Specific elasticity of tension member Cspe (N)	Stock			
					Standard	PAZ ¹			Standard	PAZ ¹		
PRECISION APPLICATIONS												
AT20	25	0,240	5 600	1·40 · 106	●		4 480	1·40 · 106			2 800	2 240
	32	0,307	7 200	1·80 · 106	●		5 760	1·80 · 106			3 600	2 880
	50	0,480	11 200	2·80 · 106	●		8 960	2·80 · 106			5 600	4 480
	75	0,720	16 800	4·20 · 106	●		13 440	4·20 · 106			8 400	6 720
	100	0,960	22 400	5·60 · 106	●		17 920	5·60 · 106			11 200	8 960
	150	1,423	32 000	8·00 · 106			25 600	8·00 · 106			16 000	12 800
HIGH-PERFORMANCE APPLICATIONS												
ATL20	32	0,050	9 800	2·45 · 106	●		7 840	2·45 · 106				
	50	0,550	15 400	3·85 · 106	●		12 320	3·85 · 106				
	75	0,840	23 800	5·95 · 106	●		19 040	5·95 · 106				
	100	1,110	31 500	7·88 · 106	●		25 200	7·88 · 106				
	150	1,665	47 250	11·81 · 106	●		37 800	11·81 · 106				
SELF-GUIDING PRECISION APPLICATIONS												
ATK20K13	50	0,497	11 200	2·80 · 106			8 960	2·80 · 106			5 600	4 480
	75	0,730	16 800	4·20 · 106			13 440	4·20 · 106			8 400	6 720
	100	0,995	22 400	5·60 · 106			17 920	5·60 · 106			11 200	8 960

AT20 tolerances

Profile	Width (mm)	Length (mm/m)	Total thickness (mm)	Thickness of tooth (mm)
AT20	+/- 0.1	+/- 0.8	- 0.1 / + 0.3	0 / - 0.15
ATL20	+/- 0.1	- 1.5 / - 0.4	- 0.2 / + 0.4	0 / - 0.15
ATK20K13	+/- 0.1	+/- 0.8	- 0.1 / + 0.3	0 / - 0.15

Our other options

BAT self-guiding belts: see [pages 30 to 34](#)
Belt slider bed plates: see [page 127](#)



Standard lengths and widths available

Linear belts (M)

- Every length tooth to tooth possible
- In stock: rolls of 50 or 100 m
- Lengths greater than 100 m on request

Options

- High-flexibility stainless steel or aramide tension members, see [page 6](#) (on request)
- Polyurethane, see [page 5](#) (on request)
- Coatings [pages 56 to 63](#)

Welded belts (V)

- Minimum length: 1,000 mm

BELT ORDERING EXAMPLES

Designation	Width	Profile / length	Particular specifications
Open linear BRECO belt	50	AT20/2000 M	PAZ ¹
Welded linear BRECO belt	32	AT20/1600 V	
Open linear BRECO belt	50	ATL20/5000 M	
Open linear BRECO belt	50	ATK20K13/2000 M	PAZ ¹

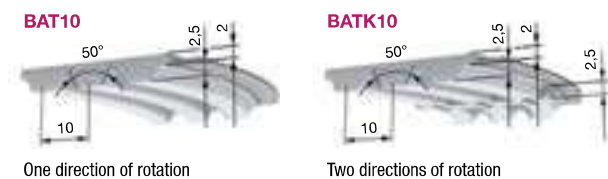
DELIVERY TIMES

Belts in stock	●	3 days acc. to availability
Standard belts	○	4 weeks
Special belts		consult us

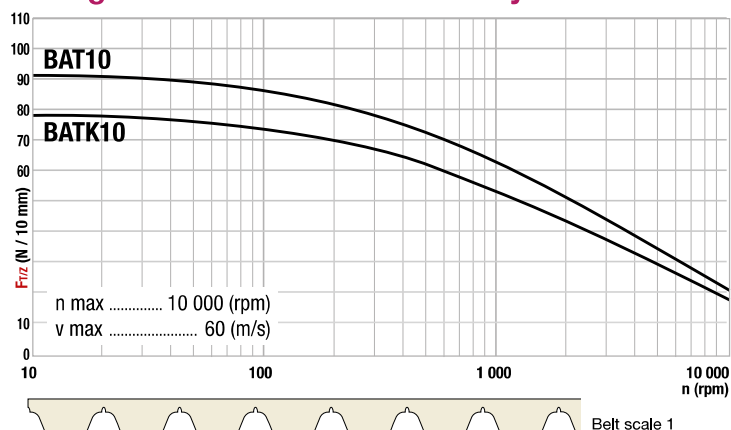
Recommended pre-tension: see [page 4](#)
General information: see [page 4](#)

1. Backing (PAZ): see [page 56](#)
2. Polyurethane: see characteristics [page 5](#)

■ SELF-GUIDING TIMING BELTS



■ Tangential force transmittable by the teeth



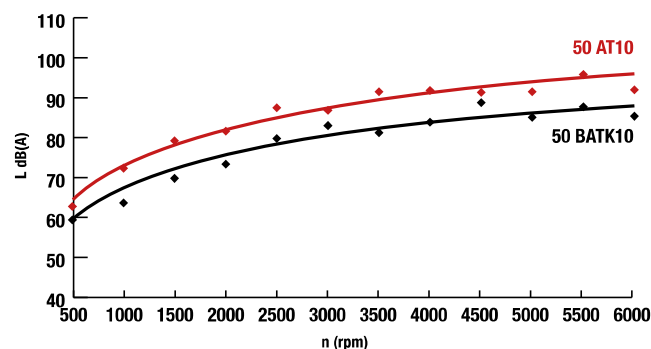
■ Tangential force transmittable by the tension members

Profile/pitch	Belt width (mm)	Weight (kg/m)	Linear belts (M)							Welded belts (V)		
			Tension members: standard steel - polyurethane: TPU ST1 ²				Tension members: stainless steel - polyurethane: TPU AU1 ²			Permissible force at the join F ^N (N) standard tens. members	Permissible force at the join F ^N (N) stainless st. tens. members	
			Permissible force F _N (N)	Specific elasticity of tension member Cspe (N)	Stock		Permissible force F _N (N)	Specific elasticity of tension member Cspe (N)	Stock			
					Standard	PAZ ¹			Standard			PAZ ¹
SELF-GUIDING PRECISION APPLICATIONS												
BAT10	25	0.158	3 750	1·06 · 10 ⁶			3 000	1·06 · 10 ⁶		1 875	1 500	
	32	0.180	5 000	1·37 · 10 ⁶			4 000	1·37 · 10 ⁶		2 500	2 000	
	50	0.290	7 500	2·12 · 10 ⁶			6 000	2·12 · 10 ⁶		3 750	3 000	
	75	0.436	12 000	3·18 · 10 ⁶			9 000	3·18 · 10 ⁶		6 000	4 500	
	100	0.581	17 000	4·25 · 10 ⁶			12 000	4·25 · 10 ⁶		8 500	6 000	
BATK10	32	0.192	5 000	1·37 · 10 ⁶			4 000	1·37 · 10 ⁶		2 500	2 000	
	50	0.300	7 500	2·12 · 10 ⁶			6 000	2·12 · 10 ⁶		3 750	3 000	
	75	0.450	12 000	3·18 · 10 ⁶			9 000	3·18 · 10 ⁶		6 000	4 500	
	100	0.600	17 000	4·25 · 10 ⁶			12 000	4·25 · 10 ⁶		8 500	6 000	

■ Advantages

- Self-guiding: pulleys with no flanges.
- Very low noise level: less vibration during meshing.
- Very low polygon effect.
- Permanent contact during meshing: helicoidal meshing type.
- Suppressed vibrations when toothed support rollers or tension rollers are used.

Acoustic curve 50 AT10 and 50 BATK10



■ BAT10 tolerances

Profile	Width (mm)	Length (mm/m)	Total thickness (mm)	Thickness of tooth (mm)
BAT10	+/- 0.5	+/- 0.8	- 0.1 / + 0.3	0 / - 0.1
BATK10	+/- 0.5	+/- 0.8	- 0.1 / + 0.3	0 / - 0.1

■ Belt-pilot calculation software

See link on our website



Standard lengths and widths available

Linear belts (M)

- Every length tooth to tooth possible
- In stock: rolls of 50 or 100 m
- Lengths greater than 100 m on request

Welded belts (V)

- Minimum length: 880 mm

Options

- Stainless steel or aramide tension members, see page 6 (on request)
- Polyurethane, see page 5 (on request)
- Coatings, see pages 56 to 63

Self-guiding

- Intermediate widths (on request)

BELT ORDERING EXAMPLE

Designation	Width	Profile / length	Particular specifications
Open linear BRECO belt	50	BATK10/5200 M	

DELIVERY TIMES

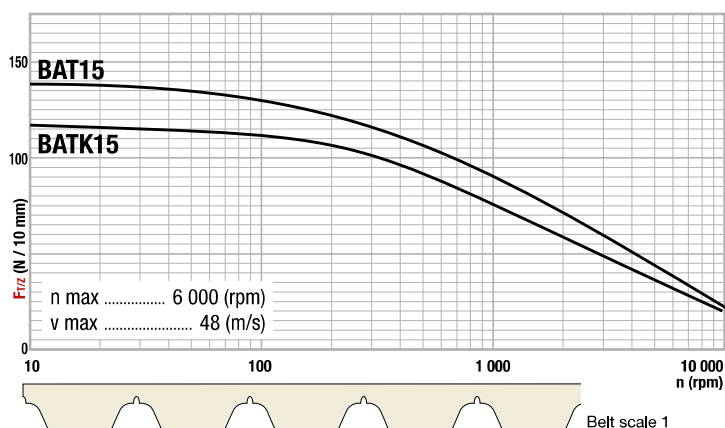
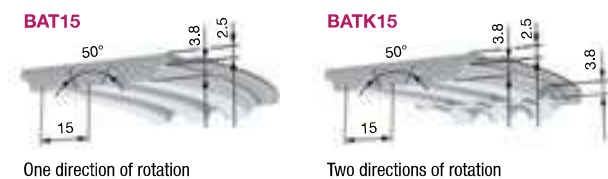
Standard belts	4 to 6 weeks
Special belts	Consult us

Recommended pre-tension: see page 4
General information: see page 4

1. Backing (PAZ) see page 56
2. Polyurethane: see characteristics page 5

■ SELF-GUIDING TIMING BELTS

■ Tangential force transmittable by the teeth



■ Tangential force transmittable by the tension members

Profile/pitch	Belt width (mm)	Weight (kg/m)	Linear belts (M)							Welded belts (V)	
			Tension members: standard steel - polyurethane: TPU ST1 ²				Tension members: stainless steel - polyurethane: TPU AU1 ²			Permissible force at the join F ^N (N) standard tens. members	Permissible force at the join F ^N (N) stainless st. tens. members
			Permissible force F _N (N)	Specific elasticity of tension member C _{spe} (N)	Stock		Permissible force F _N (N)	Specific elasticity of tension member C _{spe} (N)	Stock		
Standard	PAZ ¹	Standard			PAZ ¹						
SELF-GUIDING PRECISION APPLICATIONS											
BAT15	50	0.428	11 200	2.8 . 106			9 000	2.8 . 106		5 600	4 500
	75	0.642	16 800	4.2 . 106			13 500	4.2 . 106		8 400	6 750
	100	0.856	22 400	5.6 . 106			18 000	5.6 . 106		11 200	9 000
BATK15	50	0.428	11 200	2.8 . 106			9 000	2.8 . 106		5 600	4 500
	75	0.642	16 800	4.2 . 106			13 500	4.2 . 106		8 400	6 750
	100	0.856	22 400	5.6 . 106			18 000	5.6 . 106		11 200	9 000

■ Advantages

- Self-guiding: pulleys with no flanges.
- Very low noise level: less vibration during meshing.
- Very low polygon effect.
- Permanent contact during meshing: helicoidal meshing type.
- Suppressed vibrations when toothed support rollers or tension rollers are used.

■ BAT15 tolerances

Profile	Width (mm)	Length (mm/m)	Total thickness (mm)	Thickness of tooth (mm)
BAT15	+/- 0.5	+/- 0.8	- 0.1 / + 0.3	0 / - 0.15
BATK15	+/- 0.5	+/- 0.8	- 0.1 / + 0.3	0 / - 0.15

■ Accessory: tension roller

see pages 130-133



Standard lengths and widths available

Linear belts (M)

- Every length tooth to tooth possible
- In stock: rolls of 50 or 100 m
- Lengths greater than 100 m on request

Options

- Stainless steel or aramide tension members. see page 6 (on request)
- Polyurethane. see page 5 (on request)
- Coatings see pages 56 to 63

Welded belts (V)

- Minimum length: 960 mm

BELT ORDERING EXAMPLE

Designation	Width	Profile / length	Particular specifications
Welded linear BRECO belt	50	BAT15/1600 V	
Open linear BRECO belt	75	BATK15/2000 M	PAZ ¹
Open linear BRECO belt	50	BATK10/5200 M	PAZ ¹

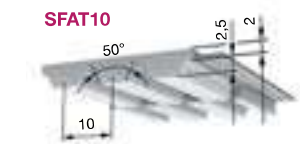
DELIVERY TIMES

Standard belts	4 to 6 weeks
Special belts	Consult us

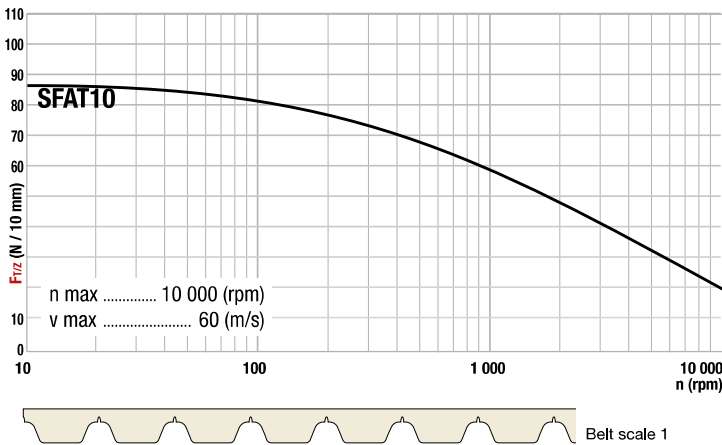
Recommended pre-tension: see page 4
General information: see page 4

1. Backing (PAZ) see page 56
2. Polyurethane: see characteristics page 5

SELF-GUIDING TIMING BELTS



Tangential force transmittable by the teeth



Tangential force transmittable by the tension members

Profil/pas	Largeur de courroie (mm)	Poids (kg/m)	Linear belts (M)						Welded belts (V)			
			Tension members: standard steel - polyurethane: TPU ST1 ²				Tension members: stainless steel - polyurethane: TPU AU1 ²				Permissible force at the join F ^N (N) standard tens. members	Permissible force at the join F ^N (N) stainless st. tens. members
			Permissible force F _N (N)	Specific elasticity of tension member Cspe (N)	Stock		Permissible force F _N (N)	Specific elasticity of tension member Cspe (N)	Stock			
					Standard	PAZ ¹			Standard	PAZ ¹		
HIGH-PERFORMANCE APPLICATIONS												
SFAT10	50	0.290	7 500	1·87 · 106			5 625	1·87 · 106		3 750	2 810	
	75	0.436	10 500	2·62 · 106			7 875	2·62 · 106		5 250	3 940	
	100	0.581	16 000	4·00 · 106			12 000	4·00 · 106		8 000	6 000	

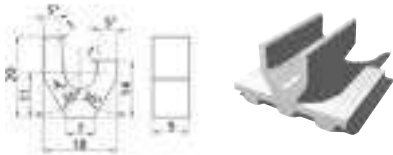
Advantages

- Better meshing quality and therefore increased service life.
- Self-guiding: pulleys with no flanges.
- Reduced noise level: the meshing shock is limited, therefore the transmission is quieter.
- Maximum transmittable power: the full width of the teeth is utilised.
- Reduced polygon effect.
- Reduced vibration: when toothed support rollers or tension rollers are used.

SFAT10 tolerances

Profile	Width (mm)	Length (mm/m)	Total thickness (mm)	Thickness of tooth (mm)
SFAT10	+/- 0.5	+/- 0.8	- 0.1 / +0.3	0 / - 0.1

Example of a flight that can be welded to the back of the belt



Standard lengths and widths available

Linear belts (M)

- Every length tooth to tooth possible
- In stock: rolls of 50 or 100 m
- Lengths greater than 100 m on request

Options

- Stainless steel or aramide tension members, see [page 6](#) (on request)
- Polyurethane, see [page 5](#) (on request)
- Coatings, see [pages 56 to 63](#)

Welded belts (V)

- Minimum length: 880 mm

BELT ORDERING EXAMPLE

Designation	Width	Profile / length	Particular specifications
Welded linear BRECO belt	50	SFAT10/1600 V	
Open linear BRECO belt	50	SFAT10/2000 M	PAZ ¹

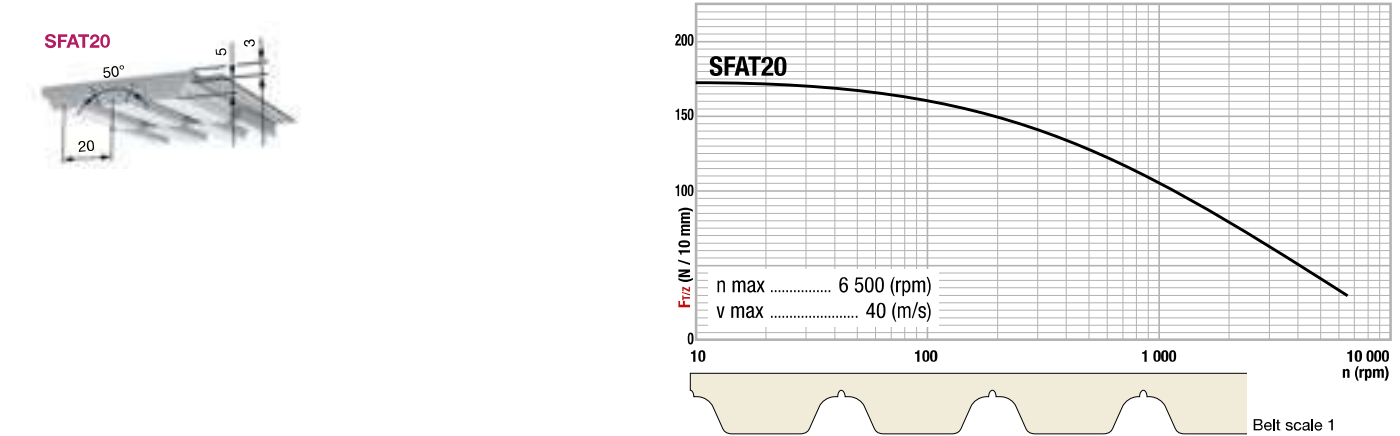
DELIVERY TIMES

Standard belts	4 to 6 weeks
Special belts	Consult us

Recommended pre-tension: see [page 4](#)
General information: see [page 4](#)

1. Backing (PAZ) see [page 56](#)
2. Polyurethane: see characteristics [page 5](#)

■ SELF-GUIDING TIMING BELTS ■ Tangential force transmittable by the teeth



■ Tangential force transmittable by the tension members

Profile/pitch	Belt width (mm)	Weight (kg/m)	Linear belts (M)							Welded belts (V)		
			Tension members: standard steel - polyurethane: TPU ST1 ²				Tension members: stainless steel - polyurethane: TPU AU1 ²			Permissible force at the join F ^N (N) standard tens. members	Permissible force at the join F ^N (N) stainless st. tens. members	
			Permissible force F _N (N)	Specific elasticity of tension member Cspe (N)	Stock		Permissible force F _N (N)	Specific elasticity of tension member Cspe (N)	Stock			
					Standard	PAZ ¹			Standard			PAZ ¹
HIGH-PERFORMANCE APPLICATIONS												
SFAT20	50	0.480	11 200	2·8 . 106			8 960	2·8 . 106			5 600	4 480
	75	0.720	16 800	4·2 . 106			13 440	4·2 . 106			8 400	6 720
	100	0.960	22 400	5·6 . 106			17 920	5·6 . 106			11 200	8 960

■ Advantages

- Better meshing quality and therefore increased service life.
- Self-guiding: pulleys with no flanges.
- Reduced noise level: the meshing shock is limited, therefore the transmission is quieter.
- Maximum transmittable power: the full width of the teeth is utilised.
- Reduced polygon effect.
- Reduced vibration: when toothed support rollers or tension rollers are used.

■ SFAT20 tolerances

Profile	Width (mm)	Length (mm/m)	Total thickness (mm)	Thickness of tooth (mm)
SFAT20	+/- 1.0	+/- 0.8	- 0.1 / + 0.3	0 / - 0.15

■ Machining for integrating a metal tooth

see page 65



Standard lengths and widths available

Linear belts (M)

- Every length tooth to tooth possible
- In stock: rolls of 50 or 100 m
- Lengths greater than 100 m on request

Welded belts (V)

- Minimum length: 1 500 mm

Options

- Stainless steel or aramide tension members, see page 6 (on request)
- Polyurethane, see page 5 (on request)
- Coatings, see pages 56 to 63

BELT ORDERING EXAMPLE

Designation	Width	Profile / length	Particular specifications
Welded linear BRECO belt	50	SFAT20/1600 V	
Open linear BRECO belt	50	SFAT20/2000 M	PAZ ¹

DELIVERY TIMES

Standard belts	4 to 6 weeks
Special belts	Consult us

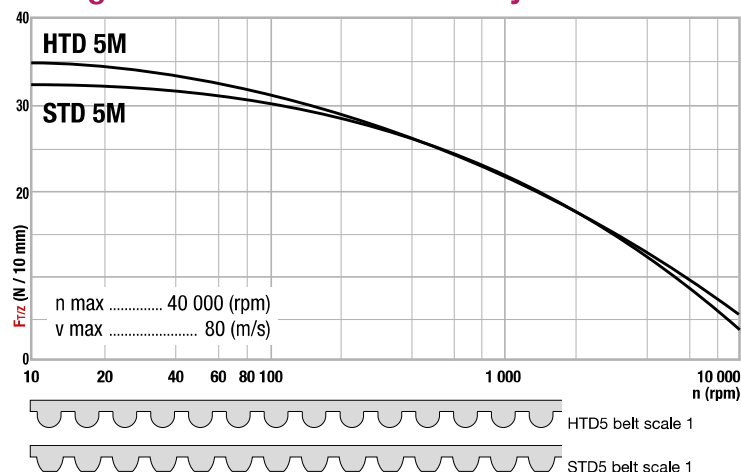
Recommended pre-tension: see page 4
General information: see page 4

1. Backing (PAZ) see page 56
2. Polyurethane: see characteristics page 5

TIMING BELTS



Tangential force transmittable by the teeth



Tangential force transmittable by the tension members

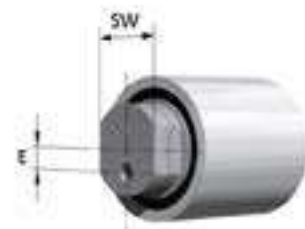
Profile/pitch	Belt width (mm)	Weight (kg/m) HTD	CONTI® SYNCHRODRIVE linear belts						HF welded belts (V)	
			Tension members: standard steel - polyurethane ²			Tension members: stainless steel - polyurethane ²			Permissible force at the join F_N (N) standard tens. members	Permissible force at the join F_N (N) stainless st. tens. members
			Permissible force F_N (N)	Specific elasticity of tension member C_{spe} (N)	Stock	Permissible force F_N (N)	Specific elasticity of tension member C_{spe} (N)	Stock		
					Standard	PAZ ¹				
HIGH-FLEXIBILITY APPLICATIONS										
HTD5 HF STD5 HF	5	0.017	150	3.75 · 10 ⁴						
	10	0.034	300	7.50 · 10 ⁴						
	15	0.050	450	11.25 · 10 ⁴						
	20	0.067	600	15.00 · 10 ⁴					300	
	25	0.084	750	18.75 · 10 ⁴					375	
	30	0.101	900	22.50 · 10 ⁴					450	
	40	0.134	1 200	30.00 · 10 ⁴					600	
	50	0.168	1 500	37.50 · 10 ⁴					750	
HIGH-PERFORMANCE APPLICATIONS										
HTD5 HPE ³ STD5 HPE ³	10	0.041	650	2.00 · 10 ⁵						
	15	0.061	975	3.00 · 10 ⁵						
	20	0.081	1 300	4.00 · 10 ⁵						
	25	0.102	1 625	5.00 · 10 ⁵						
	30	0.122	1 950	6.00 · 10 ⁵						
	40	0.162	2 600	8.00 · 10 ⁵						
	50	0.203	3 250	10.00 · 10 ⁵						
HIGH-RESISTANCE APPLICATIONS										
HTD5 HS ⁴ HTD5 HSE ³ STD5 HSE ³	10	0.0470	1 200	0.350 · 10 ⁶						
	15	0.0705	1 800	0.525 · 10 ⁶						
	20	0.0940	2 400	0.700 · 10 ⁶						
	25	0.1175	3 000	0.875 · 10 ⁶						
	30	0.1410	3 600	1.050 · 10 ⁶						
	40	0.1880	4 800	1.400 · 10 ⁶						
	50	0.2350	6 000	1.750 · 10 ⁶						

Tolerances

Profile	Belt width (mm)	Width (mm)	Length (mm/m)	Total thickness (mm)
HTD5	up to 25	+/- 0.5	+/- 1	+/- 0.25
	> 25-50	+/- 0.6	+/- 1	+/- 0.25
STD5	up to 25	+/- 0.5	+/- 1	+/- 0.25
	> 25-50	+/- 0.6	+/- 1	+/- 0.25

Accessory: tension roller with eccentric

see page 130



Standard lengths and widths available

Linear belts (M)

- In stock: rolls of 30 or 60 m
- Lengths greater than 60 m on request

BELT ORDERING EXAMPLES

Designation	Width	Profile / length	Particular specifications
Welded CONTI SYNCHRODRIVE belt	50	HTD5M/2000 V HF	
Open CONTI SYNCHRODRIVE belt	20	HTD5M/30000 HP	

DELIVERY TIMES

Standard belts	4 to 6 weeks
Special belts	Consult us

Recommended pre-tension: see page 4

General information: see page 4

1. Coatings (PAZ) see page 56

2. Polyurethane: see characteristics page 5

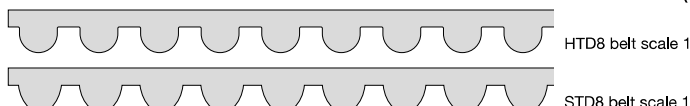
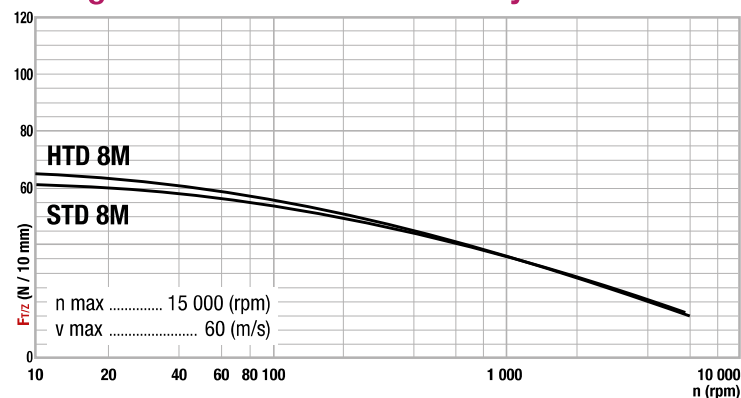
3. High-flexibility tension members (E)

4. Version without PAZ

TIMING BELTS



Tangential force transmittable by the teeth



Tangential force transmittable by the tension members

Profile/pitch	Belt width (mm)	Weight (kg/m) HTD	CONTI® SYNCHRODRIVE linear belts						HF welded belts (V)	
			Tension members: standard steel - polyurethane ²				Tension members: stainless steel - polyurethane ²		Permissible force at the join F _N (N) standard tens. members	Permissible force at the join F _N (N) stainless st. tens. members
			Permissible force F _N (N)	Specific elasticity of tension member Cspe (N)	Stock		Permissible force F _N (N)	Specific elasticity of tension member Cspe (N)		
Standard	PAZ ¹	Standard			PAZ ¹					
HIGH-FLEXIBILITY APPLICATIONS										
HTD8 HF STD8 HF	10	0,054	650	0·2 . 10 ⁶						
	15	0,081	975	0·3 . 10 ⁶						
	20	0,108	1 300	0·4 . 10 ⁶						
	25	0,135	1 625	0·5 . 10 ⁶					750	
	30	0,162	1 950	0·6 . 10 ⁶					900	
	40	0,216	2 600	0·8 . 10 ⁶					1 200	
	50	0,270	3 250	1·0 . 10 ⁶					1 500	
	55	0,297	3 575	1·1 . 10 ⁶					1 650	
	85	0,459	5 525	1·7 . 10 ⁶					2 550	
100	0,540	6 500	2·0 . 10 ⁶					3 000		
HIGH-PERFORMANCE APPLICATIONS										
HTD8 HP STD8 HP HTD8 HPE ³ HTD8 HP-Niro ⁴	10*	0,063	1 200	0·350 . 10 ⁶						
	15	0,095	1 800	0·525 . 10 ⁶			1 620	0·473 . 10 ⁶		
	20	0,126	2 400	0·700 . 10 ⁶			2 160	0·630 . 10 ⁶		
	25	0,158	3 000	0·875 . 10 ⁶			2 700	0·788 . 10 ⁶		
	30	0,190	3 600	1·050 . 10 ⁶			3 240	0·945 . 10 ⁶		
	40	0,253	4 800	1·400 . 10 ⁶			4 320	1·260 . 10 ⁶		
	50	0,316	6 000	1·750 . 10 ⁶			5 400	1·580 . 10 ⁶		
	55	0,348	6 600	1·930 . 10 ⁶			5 940	1·730 . 10 ⁶		
	85	0,537	10 200	2·980 . 10 ⁶			9 180	2·680 . 10 ⁶		
100	0,632	12 000	3·500 . 10 ⁶			10 800	3·150 . 10 ⁶			
HIGH-RESISTANCE APPLICATIONS										
HTD8 HS ⁵ STD8 HS	20*	0,142	4 200	1·06 · 10 ⁶						
	25	0,181	5 250	1·33 · 10 ⁶						
	30	0,217	6 300	1·59 · 10 ⁶						
	40	0,289	8 400	2·12 · 10 ⁶						
	50	0,361	10 500	2·65 · 10 ⁶						
	55	0,397	11 550	2·92 · 10 ⁶						
	85	0,614	17 850	4·51 · 10 ⁶						
	100	0,722	21 000	5·30 · 10 ⁶						
	115*	0,830	24 150	6·10 · 10 ⁶						
120*	0,866	25 200	6·36 · 10 ⁶							

Tolerances

Profile	Belt width (mm)	Width (mm)	Length (mm/m)	Total thickness (mm)
HTD8 STD8	up to 25	+/- 0.6	+/- 1	+/- 0.4
	> 25-50	+/- 0.7	+/- 1	+/- 0.4
	> 50	+/- 0.8	+/- 1	+/- 0.4

Option: expanding hubs

see page 134



Standard lengths and widths available

Linear belts (M)

- In stock: rolls of 30 or 60 m
- Lengths greater than 60 m on request

BELT ORDERING EXAMPLES

Designation	Width	Profile / length	Particular specifications
Welded CONTI SYNCHRODRIVE belt	50	HTD8M/2000 V HF	
Open CONTI SYNCHRODRIVE belt	20	HTD8M/30000 M HP	

DELIVERY TIMES

Standard belts	4 to 6 weeks
Special belts	Consult us

Recommended pre-tension: see page 4

General information: see page 4

1. Coatings (PAZ) see page 56

2. Polyurethane: see characteristics page 5

3. High-flexibility tension members

4. Stainless steel tension members

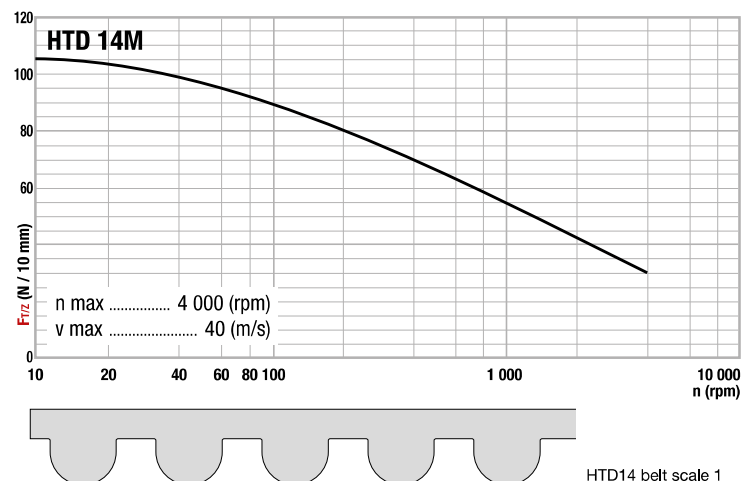
5. Version without PAZ

* Only for the STD profile

■ TIMING BELTS



■ Tangential force transmittable by the teeth



■ Tangential force transmittable by the tension members

Profile/pitch	Belt width (mm)	Weight (kg/m) HTD	CONTI® SYNCHRODRIVE linear belts						HF welded belts (V)	
			Tension members: standard steel - polyurethane ²			Tension members: stainless steel - polyurethane ²			Permissible force at the join F _N (N) standard tens. members	Permissible force at the join F _N (N) stainless st. tens. members
			Permissible force F _N (N)	Specific elasticity of tension member Cspe (N)	Stock		Permissible force F _N (N)	Specific elasticity of tension member Cspe (N)		
Standard	PAZ ¹	Standard			PAZ ¹					
HIGH-FLEXIBILITY APPLICATIONS										
HTD14 HF HTD14 HF NIRO ⁴	20	0,207	2 400	0·700 · 10 ⁶			2 160	630 · 10 ³		
	25	0,259	3 000	0·875 · 10 ⁶			2 700	788 · 10 ³		
	30	0,311	3 600	1·050 · 10 ⁶			3 240	945 · 10 ³		1 800
	40	0,415	4 800	1·400 · 10 ⁶			4 320	1 026 · 10 ³		2 400
	50	0,519	6 000	1·750 · 10 ⁶			5 400	1 058 · 10 ³		3 000
	55	0,570	6 600	1·930 · 10 ⁶			5 940	1 073 · 10 ³		3 300
	85	0,881	10 200	2·980 · 10 ⁶			9 180	2 068 · 10 ³		5 100
100	1,037	12 000	3·500 · 10 ⁶			10 800	3 015 · 10 ³		6 000	
HIGH-PERFORMANCE APPLICATIONS										
HTD14 HP	25	0,282	5 250	1·33 · 10 ⁶						
	30	0,338	6 300	1·59 · 10 ⁶						
	40	0,451	8 400	2·12 · 10 ⁶						
	50	0,564	10 500	2·65 · 10 ⁶						
	55	0,620	11 550	2·92 · 10 ⁶						
	85	0,958	17 850	4·51 · 10 ⁶						
	100	1,127	21 000	5·30 · 10 ⁶						
	110	1,240	23 100	5·83 · 10 ⁶						
115	1,296	24 150	6·10 · 10 ⁶							
120	1,352	25 200	6·36 · 10 ⁶							
HIGH-RESISTANCE APPLICATIONS										
HTD14 HS	50	0,57	12 500	3·15 · 10 ⁶						
	55	0,627	13 750	3·47 · 10 ⁶						
	85	0,969	21 250	5·36 · 10 ⁶						
	100	1,14	25 000	6·30 · 10 ⁶						
	110	1,254	27 500	6·93 · 10 ⁶						
	115	1,311	28 750	7·25 · 10 ⁶						
120	1,368	30 000	7·56 · 10 ⁶							
EXTREMELY HIGH-RESISTANCE APPLICATIONS										
HTD14 XHP-PAZ	40	0,56	19 000	4·80 · 10 ⁶						
	50	0,70	23 800	6·00 · 10 ⁶						
	55	0,77	26 100	6·60 · 10 ⁶						
	85	1,19	40 400	1·02 · 10 ⁷						
	100	1,40	47 600	1·20 · 10 ⁷						
	115	1,61	54 700	1·38 · 10 ⁷						
	120	1,68	57 100	1·44 · 10 ⁷						
150	2,10	71 400	1·80 · 10 ⁷							

■ Tolerances

Profile	Belt width (mm)	Width (mm)	Length (mm/m)	Total thickness (mm)
HTD14	up to 25	+/- 0.6	+/- 1	+/- 0.6
	> 25 à -50 mm	+/- 1.0	+/- 1	+/- 0.6
	> 50 mm	+/- 1.2	+/- 1	+/- 0.6

Standard lengths and widths available

Linear belts (M)

- In stock: rolls of 30 or 60 m
- Lengths greater than 60 m on request

BELT ORDERING EXAMPLES

Designation	Width	Profile / length	Particular specifications
Welded CONTI SYNCHRODRIVE belt	25	HTD14M/2000 V HF	
Open CONTI SYNCHRODRIVE belt	110	HTD14M/30000 M XHP	PAZ ¹

DELIVERY TIMES

Standard belts	4 to 6 weeks
Special belts	Consult us

Recommended pre-tension: see [page 4](#)

General information: see [page 4](#)

1. Coatings (PAZ) see [page 56](#)

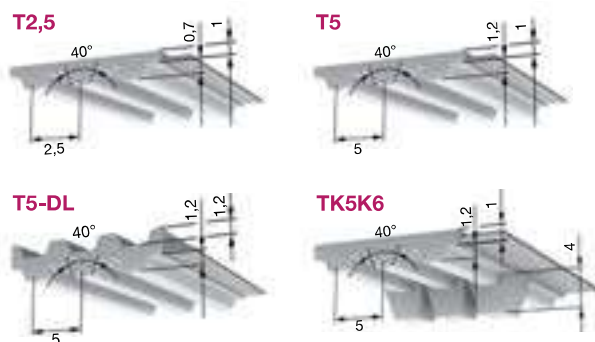
2. Polyurethane: see characteristics [page 5](#)

3. High-flexibility tension members

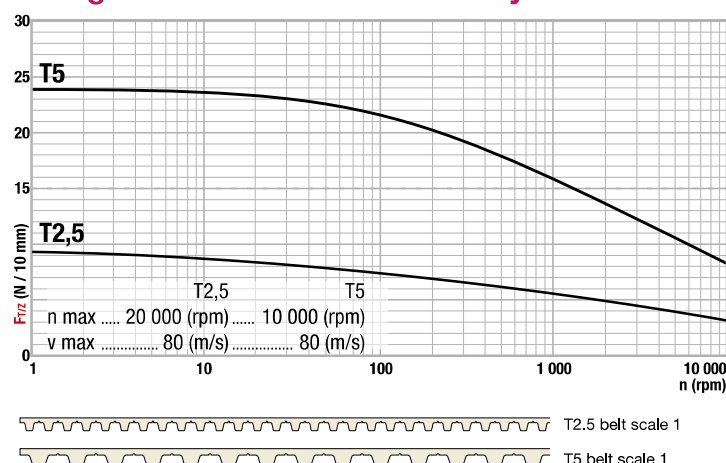
4. Stainless steel tension members

5. Version without PAZ

TIMING BELTS



Tangential force transmittable by the teeth



Tangential force transmittable by the tension members

Profile/ pitch	Belt width (mm)	Weight (kg/m)		Linear belts (M)						Welded belts (V)		
				Tension members: standard steel - polyurethane: TPU ST1 ²			Tension members: stainless steel - polyurethane: TPU AU1 ²			Permissible force at the join F _N (N) standard tens. members	Permissible force at the join F _N (N) stainless st. tens. members	
		Permissible force F _N (N)	Specific elasticity of tension members Cspe (N)	Stock		Permissible force F _N (N)	Specific elasticity of tension members Cspe (N)	Stock				
Standard	PAZ ¹			Standard	PAZ ¹							
MICROMECHANICAL APPLICATIONS												
T2.5	6	0.009		60	1·50 · 10 ⁴	●				30		
	8	0.012		77	1·93 · 10 ⁴	○				39		
	10	0.015		98	2·45 · 10 ⁴	○				49		
	12	0.018		120	3·00 · 10 ⁴	●				60		
	16	0.024		160	4·00 · 10 ⁴	○				80		
	20	0.030		196	4·90 · 10 ⁴	○				98		
PRECISION APPLICATIONS												
T5 T5-DL	6	0.013		180	4·5 · 10 ⁴	●		135	4·5 · 10 ⁴		90	70.0
	8	0.017		240	6·0 · 10 ⁴	○		180	6·0 · 10 ⁴		120	90.0
	10	0.021	0.030	300	7·5 · 10 ⁴	●		230	7·5 · 10 ⁴		150	115.0
	12	0.025	0.036	360	9·0 · 10 ⁴	○		280	9·0 · 10 ⁴		180	140.0
	16	0.034	0.044	540	13·5 · 10 ⁴	●*		410	13·5 · 10 ⁴		270	205.0
	20	0.042	0.060	600	15·0 · 10 ⁴	○		500	15·0 · 10 ⁴		300	230.0
	25	0.053	0.070	840	21·0 · 10 ⁴	●*		640	21·0 · 10 ⁴		420	320.0
	32	0.067	0.090	1 080	27·0 · 10 ⁴	○		820	27·0 · 10 ⁴		540	420.0
	50	0.105	0.139	1 680	42·0 · 10 ⁴	○		1 280	42·0 · 10 ⁴		840	640.0
	64	0.134	0.192	1 920	48·0 · 10 ⁴	○		1 500	48·0 · 10 ⁴		960	750.0
	75	0.160	0.208	2 520	63·0 · 10 ⁴	○		1 915	63·0 · 10 ⁴		1 260	960.0
	100	0.233		3 360	84·0 · 10 ⁴			2 580	84·0 · 10 ⁴		1 680	1 290.0
SELF-GUIDING PRECISION APPLICATIONS												
TK5K6	25	0.067		840	21 · 10 ⁴			640	21 · 10 ⁴		420	320.0
	32	0.082		1 080	27 · 10 ⁴			820	27 · 10 ⁴		540	410.0
	50	0.119		1 680	42 · 10 ⁴	●		1 280	42 · 10 ⁴		840	640.0

* DL version not in stock.

T2.5 and T5 tolerances

Profile	Width (mm)	Length (mm/m)	Total thickness (mm)	Thickness of tooth (mm)
T2,5	+/- 0.5	+/- 0.8	- 0.1 / + 0.2	+/- 0.05
T5 T5-DL	+/- 0.5	+/- 0.8	- 0.1 / + 0.3	0 / - 0.1
TK5K6	+/- 0.5	+/- 0.8	- 0.1 / + 0.3	0 / - 0.1

Our belt machining options

Longitudinal machining, see [page 64](#)



Standard lengths and widths available

Linear belts (M)

- Every length tooth by tooth possible
- T2,5: In stock: rolls of 100 m
- T5: In stock: rolls of 50 or 100 m
- Lengths greater than 100 m on request

T5: 880 mm (minimum width: 10 mm)
T5-DL: 1,000 mm

Options

- Stainless steel or aramide tension members, see [page 6](#) (on request) T5 only
- Polyurethane, see [page 5](#) (on request)
- Coatings, see [pages 56 to 63](#)

Welded belts (V)

- Minimum length:
T2,5: standard from 880 mm
(on request from 350 to 877.5 mm)

BELT ORDERING EXAMPLES

Designation	Width	Profile / length	Particular specifications
Open linear BRECO belt	16	T2,5/2000 M	
Welded linear BRECO belt	25	T5/2500 V	PAZ ¹

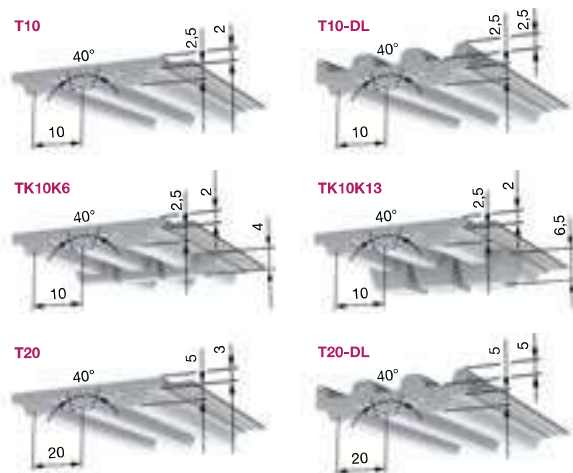
DELIVERY TIMES

Belts in stock	●	3 days acc. to availability
Standard belts	○	4 to 6 weeks
Special belts		Consult us

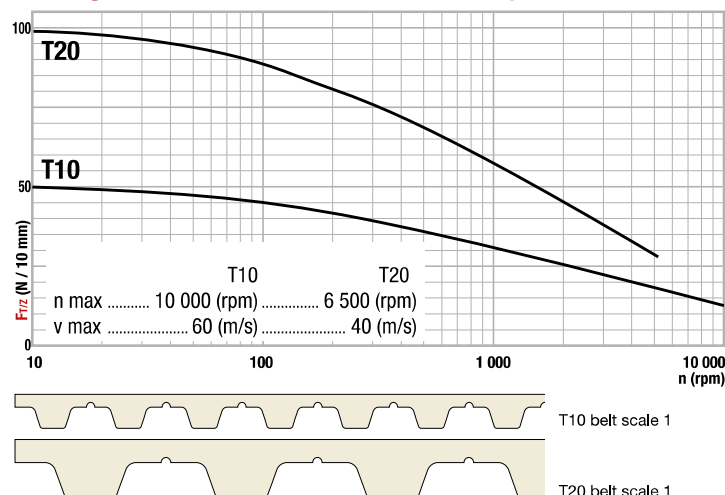
Recommended pre-tension: see [page 4](#)
General information: see [page 4](#)

1. Backing (PAZ) see [page 56](#)
2. Polyurethane: see characteristics [page 5](#)

TIMING BELTS



Tangential force transmittable by the teeth



Tangential force transmittable by the tension members

Profile/ pitch	Belt width (mm)	Weight (kg/m)		Linear belts (M)						Welded belts (V)	
				Tension members: standard steel - polyurethane: TPU ST1 ²			Tension members: stainless steel - polyurethane: TPU AU1 ²			Permissible force at the join F _j (N) standard tens. members	Permissible force at the join F _j (N) stainless st. tens. members
		Permissible force F _N (N)	Specific elasticity of tension members Cspe (N)	Stock		Permissible force F _N (N)	Specific elasticity of tension members Cspe (N)	Stock			
				Standard	PAZ ¹			Standard	PAZ ¹		
SIMPLE APPLICATIONS											
T10 basic ³	16	0.073		1 400	0.35 · 10 ⁶	●				700	
	25	0.114		2 200	0.55 · 10 ⁶	●				1 100	
	32	0.145		2 800	0.70 · 10 ⁶	●				1 400	
	50	0.227		4 400	1.10 · 10 ⁶	●				2 200	
	75	0.341		6 600	1.65 · 10 ⁶	●				3 300	
	100	0.454		8 800	2.20 · 10 ⁶	●				4 400	
PRECISION APPLICATIONS											
T10 T10-DL	10	0.045		880	0.220 · 10 ⁶			700	0.220 · 10 ⁶		
	12	0.054		1 056	0.264 · 10 ⁶			840	0.264 · 10 ⁶		
	16	0.073	0.094	1 400	0.350 · 10 ⁶	●		1 120	0.350 · 10 ⁶	700	560
	25	0.114	0.147	2 200	0.550 · 10 ⁶	●		1 760	0.550 · 10 ⁶	1 100	880
	32	0.145	0.188	2 800	0.700 · 10 ⁶	●		2 240	0.700 · 10 ⁶	1 400	1 120
	50	0.227	0.293	4 400	1.100 · 10 ⁶	●		3 520	1.100 · 10 ⁶	2 200	1 760
	75	0.341	0.440	6 600	1.650 · 10 ⁶	●		5 280	1.650 · 10 ⁶	3 300	2 640
	100	0.454	0.586	8 800	2.200 · 10 ⁶	●		7 040	2.200 · 10 ⁶	4 400	3 520
	150	0.681		13 200	3.300 · 10 ⁶			10 560	3.300 · 10 ⁶	6 600	5 280
SELF-GUIDING PRECISION APPLICATIONS											
TK10K6	25	0.129		2 400	0.55 · 10 ⁶			1 920	0.55 · 10 ⁶	1 200	960
	50	0.239		4 200	1.10 · 10 ⁶			3 360	1.10 · 10 ⁶	2 100	1 680
TK10K13	32	0.282		2 600	0.70 · 10 ⁶	●		2 080	0.70 · 10 ⁶	1 300	1 040
	50	0.407		4 200	1.10 · 10 ⁶	●		3 360	1.10 · 10 ⁶	2 100	1 680
	75	0.569		5 200	1.65 · 10 ⁶	●		4 160	1.65 · 10 ⁶	2 600	2 080
	100	0.735		8 400	2.20 · 10 ⁶	●		6 720	2.20 · 10 ⁶	4 200	3 360
PRECISION APPLICATIONS											
T20 T20-DL	20	0.147		2 800	0.70 · 10 ⁶			2 000	0.70 · 10 ⁶	1 400	1 000
	25	0.184	0.247	3 500	0.87 · 10 ⁶	●		2 520	0.87 · 10 ⁶	1 750	1 260
	32	0.236	0.316	4 500	1.13 · 10 ⁶	●		3 240	1.13 · 10 ⁶	2 250	1 620
	50	0.368	0.493	7 000	1.75 · 10 ⁶	●		5 040	1.75 · 10 ⁶	3 500	2 520
	75	0.552	0.793	10 500	2.63 · 10 ⁶	●		7 560	2.63 · 10 ⁶	5 250	3 780
	100	0.736	0.986	14 000	3.50 · 10 ⁶	●		10 080	3.50 · 10 ⁶	7 000	5 040
	150	1.095		20 000	5.00 · 10 ⁶	●		14 400	5.00 · 10 ⁶	10 000	7 200

DL version not in stock

T10 and T20 tolerances

Profile	Width (mm)	Length (mm/m)	Total thickness (mm)	Thickness of tooth (mm)
T10 T10-DL	+/- 0.5	+/- 0.8	- 0.1 / + 0.3	0 / - 0.1
TK10K6	+/- 0.5	+/- 0.8	- 0.1 / + 0.3	0 / - 0.1
TK10K13	+/- 0.5	+/- 0.8	- 0.1 / + 0.3	0 / - 0.1
T20 T20-DL	+/- 1.0	+/- 0.8	- 0.1 / + 0.3	0 / - 0.15

Option: locking system

T10 DC rapid attachment (operating principle), see page 72



Standard lengths and widths available

Linear belts (M)

- Every length tooth by tooth possible
- In stock: rolls of 50 or 100 m
- Lengths greater than 100 m on request

Options

- Stainless steel or aramid tension members, see page 6 (on request)
- Polyurethane, see page 5 (on request)
- Coatings, see pages 56 to 63

Welded belts (V)

- Minimum length: 1000 mm (1200 mm for width 150 in T20)

BELT ORDERING EXAMPLES

Designation	Width	Profile / length	Particular specifications
Open linear BRECO belt	25	T10/1600 M	PAZ ¹
Welded linear BRECO belt	25	T10/1600 V	PAZ ¹
Open linear BRECO belt	25	TK10K6/1600 M	
Welded linear BRECO belt	25	T10DC/2000	NOT FITTED

DELIVERY TIMES

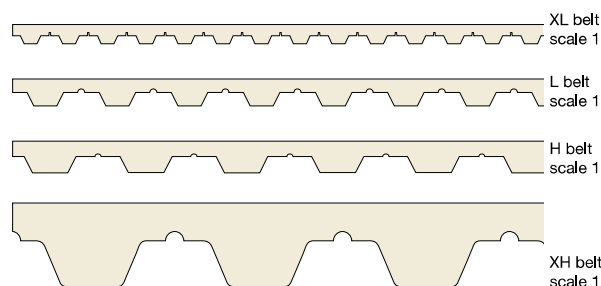
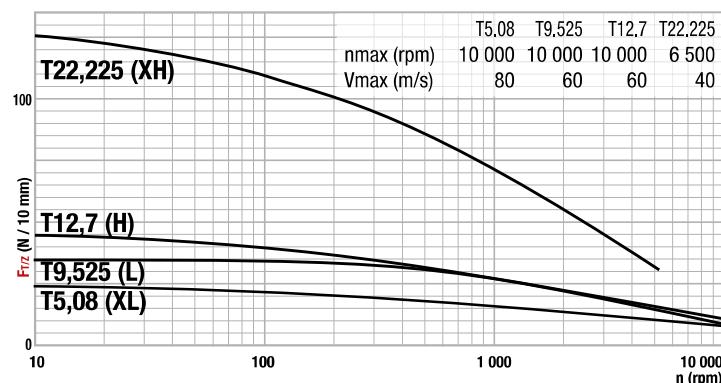
Belts in stock	●	3 days acc. to availability
Standard belts	○	4 to 6 weeks
Special belts		Consult us

Recommended pre-tension: see page 4
General information: see page 4

1. Backing (PAZ) see page 56
2. Polyurethane: see characteristics page 5
3. Polyurethane: TPUBAS partly recycled.

TIMING BELTS

Tangential force transmittable by the teeth



Tangential force transmittable by the tension members

Profile/pitch	Belt width (mm)	Weight (kg/m)	Linear belts (M)						Welded belts (V)	
			Tension members: standard steel - polyurethane: TPU ST1 ²			Tension members: stainless steel - polyurethane: TPU AU1 ²			Permissible force at the join F _N (N) standard tens. members	Permissible force at the join F _N (N) stainless st. tens. members
			Permissible force F _N (N)	Specific elasticity of tension members Cspe (N)	Stock Standard PAZ ¹	Permissible force F _N (N)	Specific elasticity of tension members Cspe (N)	Stock Standard PAZ ¹		
T5.08 (XL) T1/5"	6.35	0.015	210	5.25 · 10 ⁴						
	7.94	0.019	240	6.00 · 10 ⁴					120	
	9.53	0.023	330	8.25 · 10 ⁴					165	
	12.7	0.03	390	9.75 · 10 ⁴					195	
	19.1	0.046	660	16.50 · 10 ⁴					330	
	25.4	0.061	840	21.00 · 10 ⁴					420	
T9.525 (L) T3/8"	9.53	0.033	630	15.80 · 10 ⁴					315	
	12.7	0.044	840	21.00 · 10 ⁴					420	
	19.1	0.066	1 260	31.50 · 10 ⁴					630	
	25.4	0.08	1 680	42.00 · 10 ⁴					840	
	38.1	0.133	2 520	63.00 · 10 ⁴					1 260	
	50.8	0.178	3 500	87.00 · 10 ⁴					1 750	
	76.2	0.266	5 040	126.00 · 10 ⁴					2 520	
T12.7 (H) T1/2"	12.7	0.53	1 000	0.25 · 10 ⁶		800	0.25 · 10 ⁶		500	400
	19.1	0.081	1 600	0.40 · 10 ⁶		1280	0.40 · 10 ⁶		800	640
	25.4	0.108	2 200	0.55 · 10 ⁶		1760	0.55 · 10 ⁶		1 100	880
	38.1	0.161	3 200	0.80 · 10 ⁶		2560	0.80 · 10 ⁶		1 600	1 280
	50.8	0.216	4 400	1.10 · 10 ⁶		3520	1.10 · 10 ⁶		2 200	1 760
	76.2	0.324	6 600	1.65 · 10 ⁶		5280	1.65 · 10 ⁶		3 300	2 640
	101.6	0.432	8 800	2.20 · 10 ⁶		7040	2.20 · 10 ⁶		4 400	3 520
	152.4	0.648	13 200	3.30 · 10 ⁶		10560	3.30 · 10 ⁶		6 600	5 280
T12.7 K13 (HK) TK1/2"	38.1	0.222	3 200	0.80 · 10 ⁶		2560	0.80 · 10 ⁶		1 600	1 280
	50.8	0.338	4 400	1.10 · 10 ⁶		3360	1.10 · 10 ⁶		2 100	1 680
	76.2	0.507	4 800	1.65 · 10 ⁶		3840	1.65 · 10 ⁶		2 400	1 920
	101.6	0.469	6 200	2.20 · 10 ⁶		4960	2.20 · 10 ⁶		3 100	2 480
T22.225 (XH) T7/8"	25.4	0.265	3 500	0.87 · 10 ⁶					1 750	
	38.1	0.398	5 250	1.31 · 10 ⁶					2 625	
	50.8	0.530	7 000	1.75 · 10 ⁶					3 500	
	76.2	0.795	10 500	2.63 · 10 ⁶					5 250	
	101.6	1.059	14 000	3.50 · 10 ⁶					7 000	

Tolerances

Profile	Width (mm)	Length (mm/m)	Total thickness (mm)	Thickness of tooth (mm)
T5.08 (XL)	+/- 0.5	+/- 0.8	- 0.1 / + 0.3	0 / - 0.05
T9.525 (L)	+/- 0.5	+/- 0.8	- 0.1 / + 0.3	0 / - 0.1
T12.7 (H)	+/- 0.5	+/- 0.8	- 0.1 / + 0.3	0 / - 0.1
T22.225 (XH)	+/- 1.0	+/- 0.8	- 0.1 / + 0.3	0 / - 0.15

Our belt machining options

Water jet machining, see [page 60](#)



Standard lengths and widths available

Linear belts (M)

- Every length tooth by tooth possible
- In stock: rolls of 50 or 100 m
- Lengths greater than 100 m on request

Options

- Stainless steel or aramide tension members, according to pitches, see [page 6](#) (on request)
- Polyurethane, see [page 5](#) (on request)
- Coatings, see [pages 56 to 63](#)

Welded belts (V)

- Minimum length: 880 mm

BELT ORDERING EXAMPLES

Designation	Width	Profile / length	Particular specifications
Open linear BRECO belt	12,7	T12.7/2000 M	PAZ ¹
Welded linear BRECO belt	25,4	T22.225/3600 V	

DELIVERY TIMES

Standard belts	4 to 6 weeks
Special belts	Consult us

Recommended pre-tension: see [page 4](#)

2. Polyurethane: see characteristics [page 5](#)

General information: see [page 4](#)

1. Backing (PAZ) see [page 56](#)