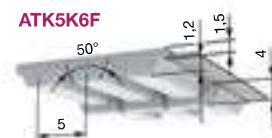
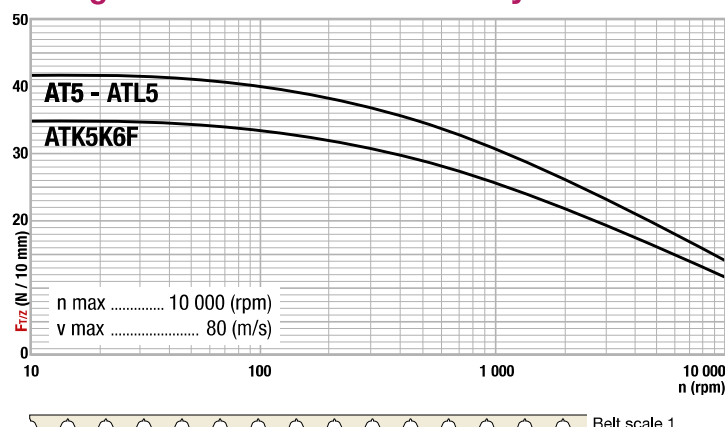


TIMING BELTS



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

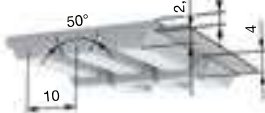
AT10 basic - AT10



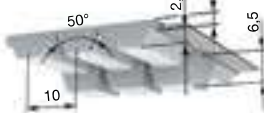
ATL10



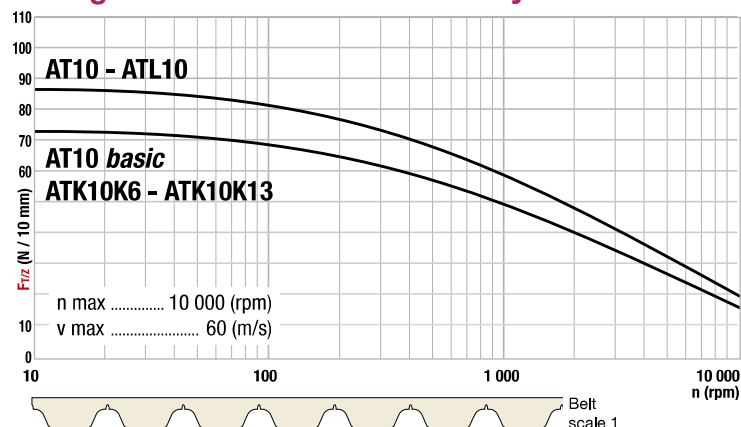
ATK10K6



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	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

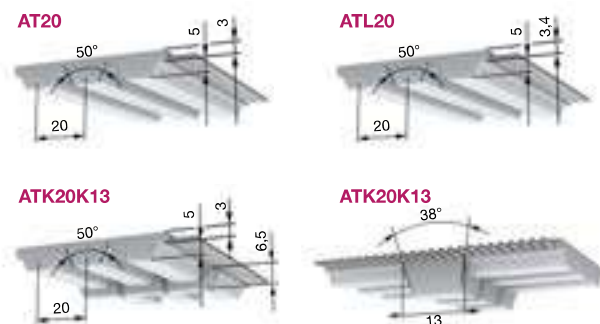
DELIVERY TIMES

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

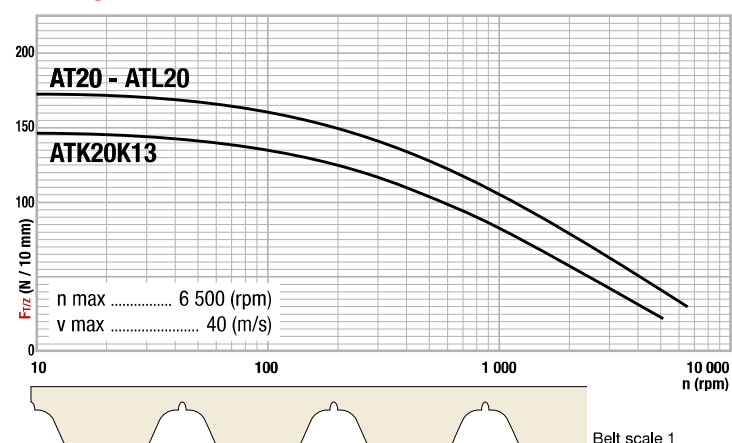
Recommended pre-tension: see page 4
General information: see page 4

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

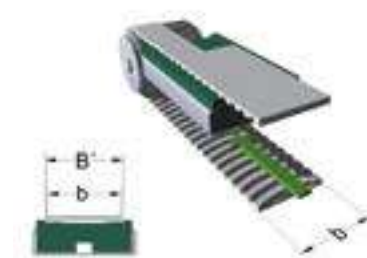
Profile/ pitch	Belt width (mm)	Weight (kg/m)	Linear belts (M)								Welded belts (V)	
			Tension members: standard steel - polyurethane:				Tension members: stainless steel - polyurethane:				Permissible force at the join F _N (N) standard tens. members	Permissible force at the join F _N (N) stainless 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 · 10 ⁶	●		4 480	1.40 · 10 ⁶			2 800	2 240
	32	0.307	7 200	1.80 · 10 ⁶	●		5 760	1.80 · 10 ⁶			3 600	2 880
	50	0.480	11 200	2.80 · 10 ⁶	●		8 960	2.80 · 10 ⁶			5 600	4 480
	75	0.720	16 800	4.20 · 10 ⁶	●		13 440	4.20 · 10 ⁶			8 400	6 720
	100	0.960	22 400	5.60 · 10 ⁶	●		17 920	5.60 · 10 ⁶			11 200	8 960
	150	1.423	32 000	8.00 · 10 ⁶			25 600	8.00 · 10 ⁶			16 000	12 800
HIGH-PERFORMANCE APPLICATIONS												
ATL20	32	0.050	9 800	2.45 · 10 ⁶	●		7 840	2.45 · 10 ⁶				
	50	0.550	15 400	3.85 · 10 ⁶	●		12 320	3.85 · 10 ⁶				
	75	0.840	23 800	5.95 · 10 ⁶	●		19 040	5.95 · 10 ⁶				
	100	1.110	31 500	7.88 · 10 ⁶	●		25 200	7.88 · 10 ⁶				
	150	1.665	47 250	11.81 · 10 ⁶	●		37 800	11.81 · 10 ⁶				
SELF-GUIDING PRECISION APPLICATIONS												
ATK20K13	50	0.497	11 200	2.80 · 10 ⁶			8 960	2.80 · 10 ⁶			5 600	4 480
	75	0.730	16 800	4.20 · 10 ⁶			13 440	4.20 · 10 ⁶			8 400	6 720
	100	0.995	22 400	5.60 · 10 ⁶			17 920	5.60 · 10 ⁶			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](#)