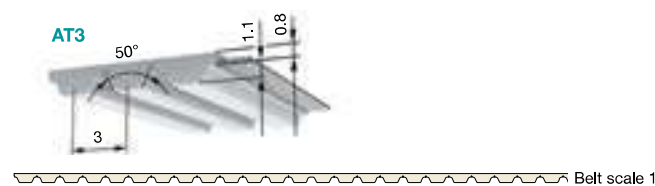
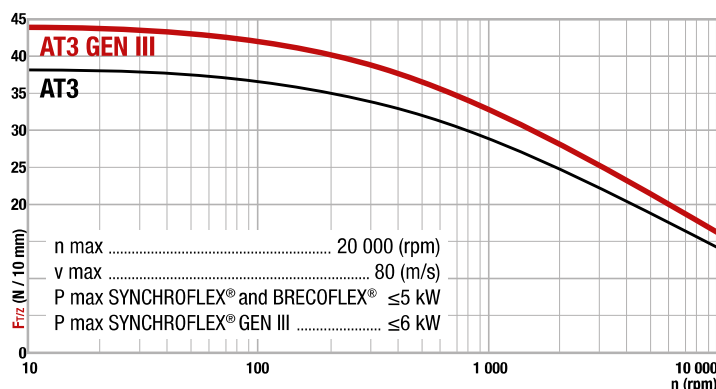


TIMING BELTS



Tangential force transmittable by the teeth



Tangential force transmittable by the tension members

Belt widths	b (mm)	6	8	10	12	16	20	25	32	50
SYNCHROFLEX® GEN III belt										
F_N	(N)	330	465	599	735	1002	1275	1608	2079	3300
Weight	(kg/m)	0.016	0.020	0.026	0.031	0.041	0.052	0.065	0.083	0.130
SYNCHROFLEX® and BRECOFLEX® belts										
F_N standard tens. members	(N)	190	370	380	480	645	850	1100	1406	2240
F_N stainless st. tens. members	(N)	165	280	335	460	656	810	970	1230	2130
Weight	(kg/m)	0.014	0.185	0.023	0.028	0.037	0.046	0.058	0.074	1.160

Standard widths in green.

Manufacturing capacities

	SYNCHROFLEX®	SYNCHROFLEX® GEN III	BRECOFLEX® AT3 - AT3 PAZ
Lengths smaller than 720 mm	Standard length only		
Lengths from 720 to 1701 mm	Standard length only		All intermediate lengths can be produced ¹ Min. quantity: 1 sleeve 100 mm
Polyurethanes ²	DEDU 8600	DADU9333	TPU ST1
Winding	Monofilar	Bifilar	Lengths from 720 to 1701 mm: bifilar
Tension members ³	Steel	Steel	Steel

1. Minimum order
 2. Other polyurethanes (see table "Characteristics of materials" page 5)
 3. Other tension members (aramide, high-flexibility tension members, stainless steel) } Consult us
 4. See "Coatings" page 56

Standard lengths profile / mm	No. of teeth	SYNCHROFLEX® and SYNCHROFLEX® GEN III	BRECOFLEX®
AT3 / 150	50	●	
AT3 / 201	67	●	
AT3 / 252	84	●	
AT3 / 267	89	●	
AT3 / 270	90	●	
AT3 / 300	100	●	
AT3 / 351	117	●	
AT3 / 399	133	●	
AT3 / 417	139	●	
AT3 / 450	150	●	
AT3 / 501	167	●	
AT3 / 549	183	●	
AT3 / 600	200	●	
AT3 / 639	213	●	
AT3 / 648	216	●	
AT3 / 714	238	○	
AT3 / 720	340		○
AT3 / 816	272	●	
AT3 / 819	273		○
AT3 / 900	300	●	
AT3 / 918	306		○
AT3 / 1011	337	●	
AT3 / 1017	339		○
AT3 / 1116	373		○
AT3 / 1215	405		○
AT3 / 1314	438		○
AT3 / 1413	471		○
AT3 / 1512	504		○
AT3 / 1611	537		○
AT3 / 1701	567		○

Width max. = 100 mm

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

Recommended pre-tension: see page 124

General tolerances: see page 81

General information: see page 4

BELT ORDERING EXAMPLES				
Designation	Width	Profile / length	Type	Particular specification
SYNCHROFLEX timing belt	12	AT3/549	SYN	GEN III
BRECOFLEX timing belt	12	AT3/1050	BFX	PAZ

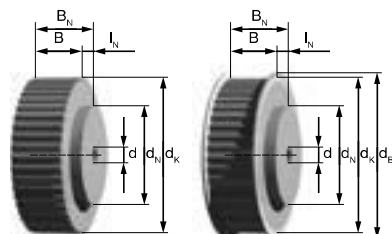
TOOTHED PULLEYS

■ Pulleys acc. to drawing see page 8

Standard pulleys

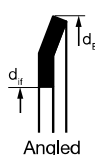
Version 2 (with flanges):
stock up to Z = 44

Version 0 (no flanges):
stock from Z = 45



Pulley widths	Belt widths									
	b	6	8	10	12	16	20	25	32	50
	B	10	13	15	17	22	26	32	40	58
Pulley without hub	B	10	13	15	17	22	26	32	40	58
Pulley with hub	B _N	16		21		28				

The pulleys in stock all have a hub. Standard widths in stock in green.



Flanges			
Z	Thickness	Shape	Mounting
All numbers of teeth	1	Angled	Rolled

Kinematics	Tension member type		AT3
 Monoflexure	Standard st. tens. member	Z min.	
		dia. min. (mm)	
	E tension member	Z min.	15
		dia. min. (mm)	20
 Contraflexure	Standard st. tens. member	Z min.	
		dia. min. (mm)	
	E tension member	Z min.	20
		dia. min. (mm)	20
	Stainless steel tension member*	Z min.	30
		dia. min. (mm)	40

*Special manufacture: minimum quantity

Comments

- Larger number of teeth possible
- Standard material 6026 conforming to RoHS, see page 8
- Flange: galvanised steel, see page 9
- d_{max}: maximum bore without keyway for flanged pulley.

Options

- The different materials such as steel and stainless steel and the surface treatment are shown on page 8
- Special flanges on request
- Special toothforms (zero or reduced backlash), see page 8

We recommended the use of HR aluminium to avoid deformation of the keyways in high-performance transmissions (GEN III).

PULLEY ORDERING EXAMPLES

Designation	Material	Width	Type/no. of teeth	Flanges	Hub	Dia. d
Aratron tooth pulley	AL	21	AT3/20-	2	E : 14 x 6	4H7

DELIVERY TIMES

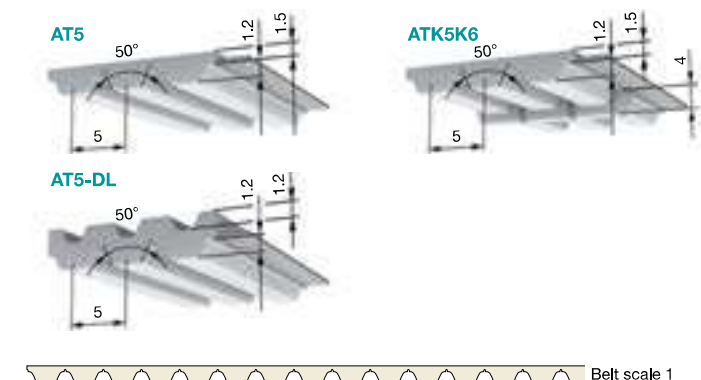
Pulleys in stock	●	3 days acc. to availability
Pulleys in stock with remachining ¹		2 weeks
Pulleys acc. to drawing		4 weeks

1. Only with a specific bore and / or keying.

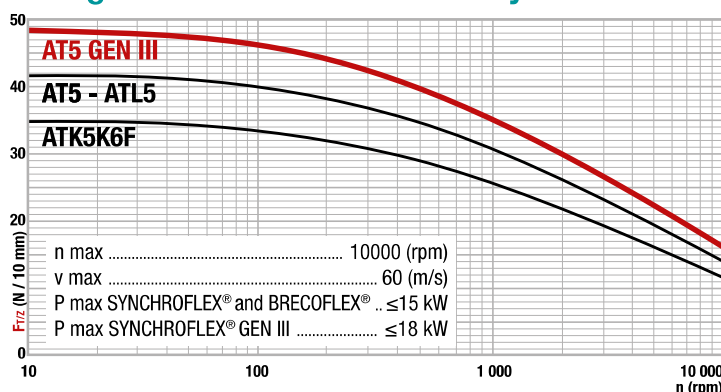
Width B _N			Z	d _K	d _N	Bore d (H7)		d _b	d _f Rolled flanges
16	21	28				min. stock	max.		
●	●	●	15	13,91	10	4	4	17	11
●	●	●	16	14,87	10	4	5	18	12
			17	15,82			6	19	13
●	●	●	18	16,78	12	4	7	21	14
			19	17,73			8	23	15
●	●	●	20	18,69	14	4	9	24	16
			21	19,64			10	25	17
●	●	●	22	20,60	14	6	11	26	18
			23	21,55			12	26	18
●	●	●	24	22,51	14	6	13	28	20
●	●	●	25	23,46	16	6	14	30	21
			26	24,42			15	30	21
●	●	●	27	25,37	16	6	15	30	21
			28	26,33			16	32	22
			29	27,28			17	34	24
●	●	●	30	28,24	20	6	18	34	24
			31	29,19			19	35	25
●	●	●	32	30,15	20	6	20	36	26
			33	31,10			21	36	26
			34	32,06			22	37	27
			35	33,01			23	39	29
●	●	●	36	33,97	22	6	24	40	30
			37	34,92			25	40	30
			38	35,88			26	42	30
			39	36,83			27	42	30
●	●	●	40	37,79	26	6	28	43	31
			41	38,74			29	45	33
			42	39,70			30	45	33
			43	40,65			31	47	35
●	●	●	44	41,61	30	6	32	47	35
●	●	●	45	42,56	30	6	33	48	36
			46	43,52			34	50	38
			47	44,47			35	50	38
●	●	●	48	45,43	34	6	36	52	40
			49	46,38			36	52	40
			50	47,34			37	53	41
			51	48,29			38	53	41
			52	49,25			39	55	43
			53	50,20			40	55	43
			54	51,16			41	56	44
			55	52,11			42	58	46
			56	53,07			43	58	46
			57	54,02			44	60	48
			58	54,98			45	60	48
			59	55,93			46	61	49
●	●	●	60	56,89			47	62	50
			61	57,84			48	64	52
			62	58,80			49	64	52
			63	59,75			50	66	52
			64	60,71			51	66	52
			65	61,66			52	68	54
			66	62,62			53	68	54
			67	63,57			54	70	56
			68	64,53			55	70	56
			69	65,48			56	72	58
			70	66,43			57	72	58
			71	67,39			58	74	60
●	●	●	72	68,34			58	74	60
			73	69,30			59	74	60
			74	70,25			60	75	61
			75	71,21			61	76	62
			76	72,16			62	78	64
			77	73,12			63	78	64
			78	74,07			64	80	66
			79	75,03			65	80	66
			80	75,98			66	82	68
			81	76,94			67	82	68
			82	77,89			68	84	70
			83	78,85			69	84	70
			84	79,80			70	86	72
			85	80,76			71	86	72
			86	81,71			72	88	74
			87	82,67			73	88	74
			88	83,62			74	90	76
			89	84,58			75	90	76
			90	85,53			76	91	77
			91	86,49			77	93	79
			92	87,44			78	93	79

Z: number of teeth.

TIMING BELTS



Tangential force transmittable by the teeth



Tangential force transmittable by the tension members

Belt widths	b (mm)	6	10	12	16	25	32	50	75	100
SYNCHROFLEX® GEN III belt										
F_N	(N)	417	787	940	1342	2175	2823	4489	6803	9117
Weight	(kg/m)	0.022	0.036	0.043	0.058	0.090	0.115	0.180	0.270	0.360
SYNCHROFLEX® and BRECOFLEX® belts										
F_N standard tension members	(N)	350	700	840	1260	2030	2660	4200	6370	8610
F_N stainless steel tension members	(N)	230	455	540	820	1320	1730	2730	4140	5597
Weight SYNCHROFLEX® and BRECOFLEX® AT5	(kg/m)	0.020	0.031	0.037	0.052	0.085	0.105	0.164	0.241	0.328
Weight BRECOFLEX® ATK5K6	(kg/m)							0.167		0.334
Weight BRECOFLEX® AT5-DL	(kg/m)	0.024	0.040	0.048	0.064	0.101	0.130	0.204	0.307	0.410

Standard widths in green.

Manufacturing capacities

	SYNCHROFLEX®	SYNCHROFLEX® GEN III	BRECOFLEX® AT5 - AT5 PAZ	BRECOFLEX® ATK5K6 - ATK5K6 PAZ
Lengths up to 700 mm	Standard length only		Standard length only	TPU ST1
Lengths from 720 to 22 000 mm			All intermediate lengths can be produced¹	
Versions DL and DL/PAZ²			All intermediate lengths can be produced¹	
Polyurethanes²	DEDU 8600	DADU 9333	Lengths smaller than 700 mm TPU ST3 Lengths greater than 720 mm TPU ST1	
Winding	Monofilar	Bifilar	Lengths from 720 to 15 000 mm: bifilar	Lengths from 1 075 to 15 000 mm: bifilar
Tension members³	Steel	Steel	Steel	Steel

1. Minimum order

2. Other polyurethanes (see table "Characteristics of materials" page 5)

3. Other tension members (aramide, high-flexibility tension members, stainless steel)

Consult us

4. See "Coatings" page 56

Standard lengths profile / mm	No. of teeth	SYNCHROFLEX® and SYNCHROFLEX® GEN III	BRECOFLEX®		
			SD	DL	ATK5 K6
AT 5 / 225	45	●	○		
AT 5 / 255	51	●	○		
AT 5 / 260	52	●			
AT 5 / 280	56	●	○		
AT 5 / 300	60	●			
AT 5 / 305	61		●		
AT 5 / 330	66	●			
AT 5 / 340	68	●	○		
AT 5 / 375	75	●			
AT 5 / 390	78	●	○		
AT 5 / 420	84	●	○		
AT 5 / 450	90	●			
AT 5 / 455	91		○		
AT 5 / 480	96	●			
AT 5 / 490	98	○			
AT 5 / 500	100	●	○		
AT 5 / 525	105	●			
AT 5 / 545	109	●	○		
AT 5 / 600	120	●	○		
AT 5 / 610	122	●	○		
AT 5 / 620	124	●			
AT 5 / 630	126	●			
AT 5 / 660	132	●	○		
AT 5 / 670	134	●			
AT 5 / 690	138	●			
AT 5 / 710	142	●			
AT 5 / 720	144	●	○		
AT 5 / 750	150	●			
AT 5 / 780	156	●	○		
AT 5 / 825	165	●	○		
AT 5 / 840	168		○		
AT 5 / 855	171		○		
AT 5 / 860	172	●	○		
AT 5 / 875	175	○	○		
AT 5 / 900	180	●	○		
AT 5 / 920	184	●	○		
AT 5 / 960	192		○		
AT 5 / 975	195	●			
AT 5 / 990	198		○		
AT 5 / 1005	201		○		
AT 5 / 1020	204		○		
AT 5 / 1050	210	●			
AT 5 / 1075	215		○		
AT 5 / 1090	218		○		
AT 5 / 1100	220		○		
AT 5 / 1125	225	●			
AT 5 / 1215	243		○		
AT 5 / 1230	246	●			
AT 5 / 1380	276		○		
AT 5 / 1400	280		○		
AT 5 / 1500	300	●	○		
AT 5 / 1600	320		○		
AT 5 / 1640	328		○		
AT 5 / 1700	340		○		
AT 5 / 1750	350	●			
AT 5 / 1800	360		○		
AT 5 / 1900	380		○		
AT 5 / 2000	400	●	○		
AT 5 / 2120	424		○		
AT 5 / 2240	448		○		
AT 5 / 2360	472		○		
AT 5 / 2500	500		○		
AT 5 / 2650	530		○		
AT 5 / 2800	560		○		
AT 5 / 3000	600		○		
AT 5 / 3150	630		○		
AT 5 / 3550	710		○		
AT 5 / 3750	750		○		
AT 5 / 3800	760	○	○		
AT 5 / 4000	800		○		
AT 5 / 4250	850		○		
AT 5 / 4500	900		○		
AT 5 / 4750	950		○		
AT 5 / 5000	1000		○		
AT 5 / 5300	1060		○		
AT 5 / 5600	1120		○		
AT 5 / 6000	1200		○		
AT 5 / 6300	1260		○		
AT 5 / 6700	1340		○		
AT 5 / 7100	1420		○		
AT 5 / 7500	1500		○		

SD: single sided. DL: double sided.

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

Recommended pre-tension: see page 124

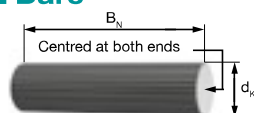
General tolerances: see page 81

General information: see page 4

BELT ORDERING EXAMPLES				
Designation	Width	Profile / length	Type	Particular specification
SYNCHROFLEX timing belt	50	AT5 / 900	SYN	GEN III
BRECOFLEX timing belt	50	AT5 / 1100	BFX	PAZ

TOOTHED PULLEYS

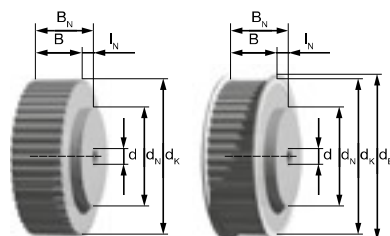
■ Bars



■ Standard pulleys

Version 2 (with flanges):
stock up to Z = 44

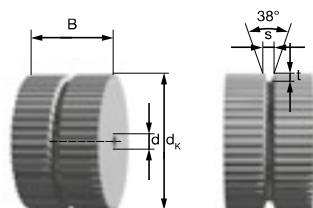
Version 0 (no flanges):
stock from Z = 48



■ Self-guiding pulleys

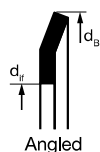
Pulleys on request and only
from Z = 18

K6	
s	t
6.5	5

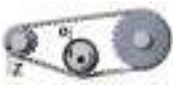


	Belt widths	b	6	10	12	16	25	32	50	75	100
Pulley widths	Pulley without hub	B	12	16	18	22	32	40	60	85	110
	Pulley with hub	B _N		22		28	38	46			
	Self-guiding pulley without hub	B						37	55		

The pulleys in stock all have a hub. **Standard widths in stock in green.**



Z	Flanges		
	Thickness	Shape	Mounting
	Z ≤ 63 Z > 63	1 1.5	Angled Angled

Kinematics	Tension member type		SYNCHROFLEX® and SYNCHROFLEX® GEN III	BRECOFLEX® SD	BRECOFLEX® DL	BRECOFLEX® ATK5 K6
 Monoflexure	Steel tension members	Z min.		18	25	25
		dia. min. (mm)		30	60	60
	E tension members	Z min.	15	12	20	25
		dia. min. (mm)	25	18	20	40
 Contraflexure	Steel tension members	Z min.		25	25	25
		dia. min. (mm)		60	60	80
	E tension members	Z min.	20	20	20	25
		dia. min. (mm)	60	50	50	80
	Stainless steel tension members*	Z min.	30	30	30	30
		dia. min. (mm)	70	60	60	80

*Special manufacture: minimum quantity

Comments

- Larger number of teeth possible
- Standard material 6026 conforming to RoHS, see [page 8](#)
- Standard flanges: galvanised steel, see [page 9](#)
- d_{max}: maximum bore without keyway for flanged pulley.

Options

- The different materials such as steel and stainless steel and the surface treatment are shown on [page 8](#)
- Special flanges on request
- Special toothforms (zero or reduced backlash), see [page 8](#)

We recommended the use of HR (7075) aluminium to avoid deformation of the keyways in high-performance transmissions (GEN III).

PULLEY ORDERING EXAMPLES

Designation	Material	Width	Type/no. of teeth	Flanges	Hub	Dia. d
Aratron tooth pulley	AL	38	AT5/25-	2	E : 26 X 6	4H7

DELIVERY TIMES

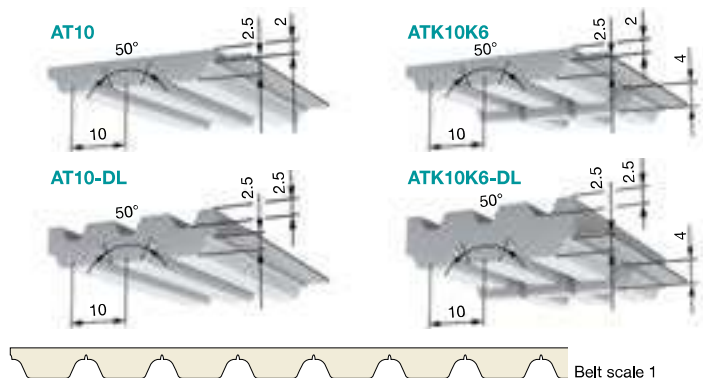
Pulleys in stock	●	3 days acc. to availability
Pulleys in stock with remachining ¹		2 weeks
Pulleys acc. to drawing		4 weeks

1. Only with a specific bore and / or keying.

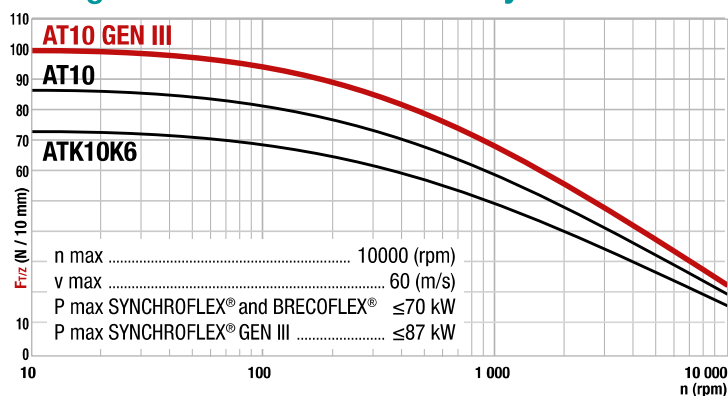
Width B _N					Z	d _k	d _N	Bore d (H7)		d _B	d _f Rolled flanges
22	28	38	46	Bars				min. stock	max.		
●	○	○	○		12	17.88	12	4	8	23	15
●	●	○	○		14	21.06	14	4	8	26	18
●	●	○	○	150	15	22.65	16	6	10	28	20
●	●	○	○	150	16	24.24	18	6	12	30	21
					17	25.84			14	32	22
●	●	●	○	150	18	27.43	20	6	16	34	24
●	●	●	○	150	19	29.02	22	6	16	35	25
●	●	●	○	180	20	30.61	24	6	18	36	26
					21	32.20			20	37	27
●	●	●	○	180	22	33.79	24	6	22	39	29
					23	35.39			24	40	30
●	●	●	○	180	24	36.98	26	8	24	42	30
●	●	●	○	180	25	38.57	26	8	25	43	31
					26	40.16			25	45	33
●	●	●	○	180	27	41.75	30	8	27	47	35
					28	43.34			29	48	36
					29	44.93			31	50	38
●	●	●	○	180	30	46.53	34	8	33	52	40
					31	48.12			35	53	41
●	●	●	○	180	32	49.71	38	8	37	55	43
					33	51.30			39	56	44
					34	52.89			39	58	46
					35	54.48			40	60	48
●	●	●	○	180	36	56.08	38	8	42	61	49
					37	57.67			43	62	50
					38	59.26			45	64	52
					39	60.85			45	66	52
●	●	●	○	180	40	62.44	40	8	47	68	54
					41	64.03			48	70	56
					42	65.63			50	72	58
					43	67.22			52	72	58
●	●	●	○	180	44	68.81	50	8	52	74	60
					45	70.40			54	75	61
					46	71.99			56	76	62
					47	73.58			58	78	64
●	●	●	○	180	48	75.17	50	8	60	80	66
					49	76.77			60	82	68
					50	78.36			60	84	70
					51	79.95			62	86	72
					52	81.54			64	86	72
					53	83.13			66	88	74
					54	84.72			66	90	76
					55	86.32			68	91	77
					56	87.91			70	93	79
					57	89.50			72	94	80
					58	91.09			74	96	82
					59	92.68			74	99	85
●	●	●	○	180	60	94.27	65	8	76	99	85
					61	95.86			79	100	86
					62	97.46			80	102	88
					63	99.05			82	104	90
					64	100.64			82	105	91
					65	102.23			84	107	93
					66	103.83			86	109	95
					67	105.41			88	112	98
					68	107.01			90	112	98
					69	108.60			90	115	101
					70	110.19			90	115	101
					71	111.78			92	117	103
●	●	●	○	180	72	113.37	80	8	94	118	104
					73	114.96			96	121	107
					74	116.55			96	121	107
					75	118.15			98	123	109
					76	119.74			100	125	111
					77	121.33			102	128	114
					78	122.92			104	128	114
					79	124.51			104	131	117
					80	126.10			106	131	117
					81	127.70			108	134	120
					82	129.29			110	134	120
					83	130.88			110	137	123
					84	132.47			112	137	123
					85	134.06			114	140	126
					86	135.65			116	142	128
					87	137.24			119	142	128
					88	138.84			119	144	130
					89	140.43			120	147	133

Z: number of teeth.

TIMING BELTS



Tangential force transmittable by the teeth



Tangential force transmittable by the tension members

Belt widths	b (mm)	16	20	25	32	50	75	100	150
SYNCHROFLEX® GEN III belt									
F_N	(N)	3000	4000	5000	6750	10750	16500	22000	33500
Weight	(kg/m)	0.117	0.146	0.183	0.234	0.365	0.548	0.730	1.095
SYNCHROFLEX® and BRECOFLEX® belts									
F_N standard tension members	(N)	2000	2750	3500	4750	7750	12000	16000	24500
F_N stainless steel tension members	(N)	1440	1980	2520	3420	5580	8640	11520	17640
Weight SYNCHROFLEX® and BRECOFLEX® AT10	(kg/m)	0.101	0.126	0.158	0.202	0.315	0.473	0.63	0.945
Weight BRECOFLEX® ATK10K6	(kg/m)					0.290		0.581	
Weight BRECOFLEX® AT10 DL	(kg/m)			0.184	0.233	0.375	0.566	0.755	
Weight BRECOFLEX® ATK10K6 DL	(kg/m)					0.386		0.766	

Standard widths in green.

Manufacturing capacities

	SYNCHROFLEX®	SYNCHROFLEX® GEN III	BRECOFLEX® AT10-AT10 PAZ	BRECOFLEX® AT-K10K6-ATK10K6 PAZ
Lengths up to 700 mm	Standard length only		Standard length only	
Lengths from 720 to 22 000 mm			All intermediate lengths can be produced ¹	
Versions DL and DL/PAZ ⁴			All intermediate lengths can be produced ¹	
Polyurethanes ²	DEDU 8600	DADU 9333	Lengths smaller than 700 mm TPU ST3 Lengths greater than 720 mm TPU ST1	TPU ST1
Winding	Monofilar	Bifilar	Lengths from 720 to 22 000 mm: bifilar	Bifilar
Tension members ³	Steel	Steel	Steel	Steel

¹ Minimum order

² Other polyurethanes (see table "Characteristics of materials" page 5)

³ Other tension members (aramide, high-flexibility tension members, stainless steel)

Consult us

⁴ See "Coatings" page 56

Standard lengths profile / mm	No. of teeth	SYNCHROFLEX® and SYNCHROFLEX® GEN III	BRECOFLEX® AT10 standard		BRECOFLEX® AT-K10K6 standard	
			SD	DL	SD	DL
AT10 / 400	40		•			
AT10 / 440	44	•				
AT10 / 460	46	•				
AT10 / 500	50	•	•			
AT10 / 530	53	•	•			
AT10 / 560	56	•	•			
AT10 / 570	57	•	•			
AT10 / 580	58	•	•			
AT10 / 600	60	•	•			
AT10 / 610	61	•	•			
AT10 / 630	63	•	•			
AT10 / 660	66	•	•			
AT10 / 700	70	•	•			
AT10 / 720	72	•	•			
AT10 / 730	73	•	•			
AT10 / 780	78	•	•			
AT10 / 800	80	•	•			
AT10 / 810	81	•	•			
AT10 / 840	84	•	•			
AT10 / 850	85	•	•			
AT10 / 880	88	•	•			
AT10 / 890	89	•	•			
AT10 / 920	92	•	•			
AT10 / 960	96	•	•			
AT10 / 970	97	•	•			
AT10 / 980	98	•	•			
AT10 / 1000	100	•	•			
AT10 / 1010	101	•	•			
AT10 / 1050	105	•	•			
AT10 / 1080	108	•	•			
AT10 / 1100	110	•	•			
AT10 / 1150	115	•	•	•		
AT10 / 1200	120	•	•	•		
AT10 / 1210	121	•	•	•		
AT10 / 1240	124	•	•	•		
AT10 / 1250	125	•	•	•		
AT10 / 1280	128	•	•	•		
AT10 / 1300	130	•	•	•		
AT10 / 1320	132	•	•	•		
AT10 / 1350	135	•	•	•		
AT10 / 1360	136	•	•	•		
AT10 / 1400	140	•	•	•		
AT10 / 1480	148	•	•	•		
AT10 / 1500	150	•	•	•	•	
AT10 / 1600	160	•	•	•	•	•
AT10 / 1700	170	•	•	•	•	•
AT10 / 1720	172	•	•	•	•	•
AT10 / 1800	180	•	•	•	•	•
AT10 / 1860	186	•	•	•	•	•
AT10 / 1900	190	•	•	•	•	•
AT10 / 1940	194	•	•	•	•	•
AT10 / 2000	200	•	•	•	•	•
AT10 / 2120	212	•	•	•	•	•
AT10 / 2240	224	•	•	•	•	•
AT10 / 2360	236	•	•	•	•	•
AT10 / 2500	250	•	•	•	•	•
AT10 / 2650	265	•	•	•	•	•
AT10 / 2800	280	•	•	•	•	•
AT10 / 3000	300	•	•	•	•	•
AT10 / 3150	315	•	•	•	•	•
AT10 / 3350	335	•	•	•	•	•
AT10 / 3550	355	•	•	•	•	•
AT10 / 3750	375	•	•	•	•	•
AT10 / 4000	400	•	•	•	•	•
AT10 / 4250	425	•	•	•	•	•
AT10 / 4500	450	•	•	•	•	•
AT10 / 4750	475	•	•	•	•	•
AT10 / 5000	500	•	•	•	•	•
AT10 / 5300	530	•	•	•	•	•
AT10 / 5600	560	•	•	•	•	•
AT10 / 6000	600	•	•	•	•	•
AT10 / 6300	630	•	•	•	•	•
AT10 / 6700	670	•	•	•	•	•
AT10 / 7100	710	•	•	•	•	•
AT10 / 7500	750	•	•	•	•	•
AT10 / 8000	800	•	•	•	•	•
AT10 / 9000	900	•	•	•	•	•

SD: single sided, DL: double sided.

DELIVERY TIMES		
Belts in stock	•	3 days acc. to availability
Standard belts	•	4 weeks
Special belts		Consult us

Recommended pre-tension: see page 124

General tolerances: see page 81

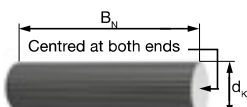
General information: see page 4

BELT ORDERING EXAMPLES				
Designation	Width	Profile / length	Type	Particular specification
SYNCHROFLEX timing belt	25	AT10 / 1500	SYN	GEN III
BRECOFLEX timing belt	50	ATK10K6 / 1600	BFX	PAZ

TOOTHED PULLEYS

■ Pulleys acc. to drawing see page 8

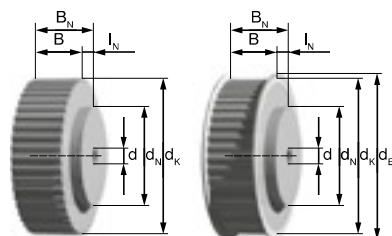
■ Bars



Standard pulleys

Version 2 (with flanges):
stock up to Z = 44

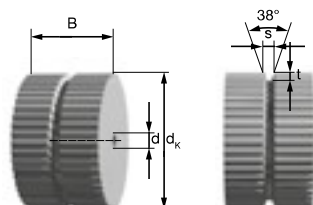
Version 0 (no flanges):
stock from Z = 48



Self-guiding pulleys

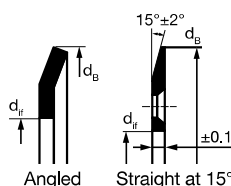
Pulleys on request and only
from Z = 20

K6	
s	t
6.5	5



Pulley widths	Belt widths						
	b	16	20	25	32	50	75
	Pulley without hub	B	23	27	32	40	60
	Pulley with hub	B_N			42	50	70

The pulleys in stock all have a hub. **Standard widths in stock in green.**



Flanges			
Z	Thickness	Shape	Mounting
Z ≤ 32	1	Angled	Rolled
32 < Z ≤ 93	1,5	Angled	Rolled
B_N ≥ 66 and Z ≤ 93	2	Angled	Screwed
Z > 93	2	Straight at 15°	Screwed

Kinematics	Tension member type		AT10	AT10-DL	ATK10K6	ATK10K6-DL
 Monoflexure	Steel tension members	Z min.	15	25	20	25
		dia. min. (mm)	50	80	80	80
	E tension members*	Z min.	12	20	18	20
		dia. min. (mm)	50	80	60	80
 Contraflexure	Steel tension members	Z min.	25	25	25	25
		dia. min. (mm)	120	120	120	120
	E tension members*	Z min.	20	20	20	22
		dia. min. (mm)	80	80	80	100
	Stainless steel tension members*	Z min.	40	40	40	40
		dia. min. (mm)	120	120	120	120

*Special manufacture: minimum quantity

Comments

- Larger number of teeth possible
- Standard material 6026 conforming to RoHS, see page 8
- Standard flanges: galvanised steel, see page 9
- d_max: maximum bore without keyway for flanged pulley.

Options

- The different materials such as steel and stainless steel and the surface treatment are shown on page 8
- Special flanges on request
- Special toothforms (zero or reduced backlash), see page 8

We recommended the use of HR (7075) aluminium to avoid deformation of the keyways in high-performance transmissions (GEN III).

PULLEY ORDERING EXAMPLES

Designation	Material	Width	Type/no. of teeth	Flanges	Hub	Dia. d
Aratron tooth pulley	AL	70	AT10/20-	2	E : 46 x 10	12H7

DELIVERY TIMES

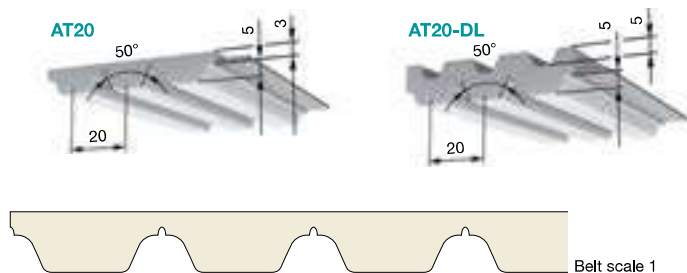
Pulleys in stock	●	3 days acc. to availability
Pulleys in stock with remachining ¹		2 weeks
Pulleys acc. to drawing		4 weeks

1. Only with a specific bore and / or keying.

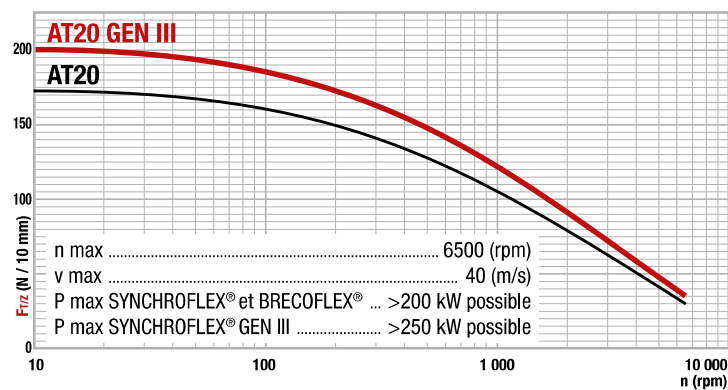
Width B_N				Z	d_K	d_N	Bore d (H7)		d_B	d_F
42	50	70	Bars 180				min.	max.		
○				12	36.38	28	8	25	42	30
○				14	42.74	32	8	30	48	36
●				15	45.93	32	8	34	52	40
○				16	49.11	35	8	36	55	43
				17	52.29			40	58	46
○	○	●		18	55.48	40	8	44	61	49
●	○	●		19	58.66	44	8	46	64	52
●	●	●		20	61.84	46	12	50	68	54
				21	65.03			52	72	58
●	●	●		22	68.21	50	12	56	74	60
				23	71.39			60	76	62
●	●	●		24	74.57	58	12	62	80	66
●	●	●		25	77.76	60	12	66	84	70
				26	80.94			68	86	72
●	●	●		27	84.12	60	12	72	90	76
				28	87.31			76	93	79
				29	90.49			78	96	82
●	●	●		30	93.67	60	12	82	99	85
				31	96.86			84	102	88
●	●	●		32	100.04	65	12	88	106	92
				33	103.22			88	109	95
				34	106.41			92	112	98
				35	109.59			96	115	101
●	●	●		36	112.77	70	16	98	118	104
				37	115.95			101	121	107
				38	119.14			104	125	111
				39	122.32			106	128	114
●	●	●		40	125.50	80	16	110	131	117
				41	128.69			110	134	120
				42	131.87			112	137	123
				43	135.05			114	140	126
●	●	●		44	138.24	90	16	118	144	130
				45	141.42			120	147	133
				46	144.60			122	150	136
				47	147.79			122	153	139
●	●	●		48	150.97	95	16	124	156	142
				49	154.15			126	160	146
				50	157.33			130	163	149
				51	160.52			134	166	152
				52	163.70			136	169	155
				53	166.88			140	172	158
				54	170.07			144	176	162
				55	173.25			146	179	165
				56	176.43			150	182	168
				57	179.62			152	185	171
				58	182.80			156	188	174
●	●	●		59	185.98			160	191	177
				60	189.17	110	16	162	195	181
				61	192.35			164	198	184
				62	195.53			166	201	187
				63	198.72			170	204	190
				64	201.90			171	207	193
				65	205.08			174	210	196
				66	208.26			175	214	200
				67	211.45			177	217	203
				68	214.63			181	220	206
				69	217.81			185	223	209
				70	221.00			187	226	212
				71	224.18			191	230	216
				72	227.36			193	233	219
				73	230.55			197	236	222
				74	233.73			201	239	225
				75	236.91			203	242	228
				76	240.10			207	246	232
				77	243.28			209	249	235
				78	246.46			213	252	238
				79	249.64			215	255	241
				80	252.83			219	258	244
				81	256.01			223	262	248
				82	259.19			225	265	251
				83	262.38			229	268	254
				84	265.56			231	271	257
				85	268.74			235	274	260
				86	271.93			239	277	263
				87	275.11			241	281	267
				88	278.29			245	284	270
				89	281.48			247	287	273
				90	284.66			251	290	276

Z: number of teeth.

TIMING BELTS



Tangential force transmittable by the teeth



Tangential force transmittable by the tension members

Belt widths	b (mm)	25	32	50	75	100	150
SYNCHROFLEX® GEN III belt							
F_N	(N)	6300	8550	13950	21600	28800	44100
Weight	(kg/m)	0,290	0,371	0,583	0,870	1,160	1,740
SYNCHROFLEX® belt							
F_N standard tension members	(N)	5200	6750	11250	17550	23850	36450
Weight	(kg/m)	0,264	0,339	0,530	0,795	1,060	1,590
BRECOFLEX® belts							
F_N standard tension members	(N)	4600	6000	10000	15600	21200	32400
F_N stainless steel tension members	(N)	3750	4800	8000	12480	16960	25920
Weight BRECOFLEX® AT20	(kg/m)	0,240	0,307	0,480	0,720	0,960	1,423
Weight BRECOFLEX® AT20-DL	(kg/m)	0,285	0,365	0,57	0,855	1,14	

Manufacturing capacities

	SYNCHROFLEX®	SYNCHROFLEX® GEN III	BREGOFLEX® AT20 - AT20 PAZ
Lengths from 1100 to 22,000 mm	Standard length only		All intermediate lengths can be produced¹
Versions DL and DL/PAZ²			
Polyurethanes²	DEDU 8600	DADU 9333	TPU ST1
Winding	Monofilar	Bifilar	Lengths from 1 500 to 22 000 mm: bifilar
Binding³	Steel	Steel	Steel

1. Minimum order
2. Other polyurethanes (see table "Characteristics of materials" [page 5](#))
3. Other bindings (aramide, high-flexibility tension members, stainless steel

Consult us

4. See "Coatings" [page 56](#)

Standard lengths profile / mm	No. of teeth	SYNCHROFLEX®	SYNCHROFLEX® GEN III	BRECOFLEX®	
				SD	DL
AT20 / 1000	50	○	○	width max. = 100 mm	
AT20 / 1100	55	○	○		
AT20 / 1200	60	○	○		
AT20 / 1260	63	○	○		
AT20 / 1500	75	○	○	width max. = 150 mm	width max. = 100 mm
AT20 / 1600	80	○	○		
AT20 / 1700	85	○	○		
AT20 / 1760	88	○	○		
AT20 / 1800	90	○	○	width max. = 150 mm	width max. = 100 mm
AT20 / 1900	95	○	○		
AT20 / 1960	98	○	○		
AT20 / 2000	100				
AT20 / 2120	106			○	○
AT20 / 2240	112			○	○
AT20 / 2360	118			○	○
AT20 / 2500	125			○	○
AT20 / 2660	133			○	○
AT20 / 2800	140			○	○
AT20 / 3000	150			○	○
AT20 / 3160	158			○	○
AT20 / 3360	168			○	○
AT20 / 3560	178			○	○
AT20 / 3760	188			○	○
AT20 / 4000	200			○	○
AT20 / 4260	213			○	○
AT20 / 4500	225			○	○
AT20 / 4760	238			○	○
AT20 / 5000	250			○	○
AT20 / 5300	265			○	○
AT20 / 5600	280			○	○
AT20 / 6000	300			○	○
AT20 / 6300	315			○	○
AT20 / 6700	335			○	○
AT20 / 7100	355			○	○
AT20 / 7500	375			○	○
AT20 / 8000	400			○	○
AT20 / 8500	425			○	○
AT20 / 9000	450			○	○

SD: single sided, DL: double sided.

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

Recommended pre-tension: see page 124

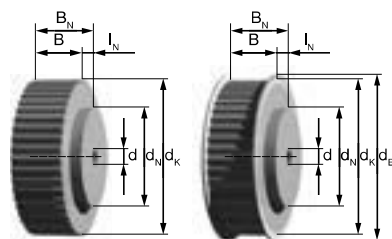
General tolerances: see page 81

General information: see page 4

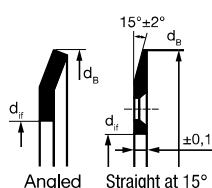
BELT ORDERING EXAMPLES				
Designation	Width	Profile / length	Type	Particular specification
SYNCHROFLEX timing belt	50	AT20/1000	SYN	GEN III
BRECOFLEX timing belt	50	AT20/1800	BFX	

TOOTHED PULLEYS

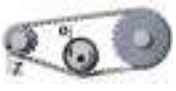
Standard pulleys



Belt widths	b	25	32	50	75	100	150
Widths of pulleys without hub	B	32	40	60	85	110	160



Flanges			
Z	Thickness	Shape	Mounting
Z ≤ 46	2	Angled	Screwed
Z > 46	2	Straight at 15°	Screwed

Kinematics	Tension member type	BRECOFLEX®	
		SD	DL
 Monoflexure	Steel tension members	Z min.	18
		dia. min. (mm)	120
	E tension members	Z min.	15
		dia. min. (mm)	100
 Contraflexure	Steel tension members	Z min.	25
		dia. min. (mm)	180
	E tension members	Z min.	22
		dia. min. (mm)	150
	Stainless steel tension members*	Z min.	40
		dia. min. (mm)	300

*Special manufacture: minimum quantity

Comments

- Standard material 6026 conforming to RoHS, see [page 8](#)
- Flange: galvanised steel, see [page 9](#)
- d_{max} : maximum bore without keyway for flanged pulley.

Options

- The different materials such as steel and stainless steel and the surface treatment are shown on [page 8](#)
- Special flanges on request
- Special toothforms (zero or reduced backlash), see [page 8](#)

We recommended the use of HR (7075) aluminium to avoid deformation of the keyways in high-performance transmissions (GEN III).

PULLEY ORDERING EXAMPLES

Designation	Material	Width	Type/no. of teeth	Flanges	Hub	Dia. d
Aratron tooth pulley	AL	60	AT20/27-	2	none	8H7

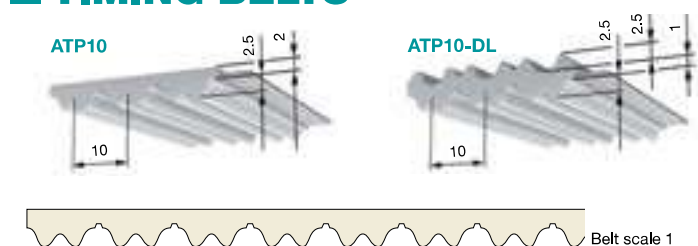
DELIVERY TIMES

Pulleys acc. to drawing	Consult us
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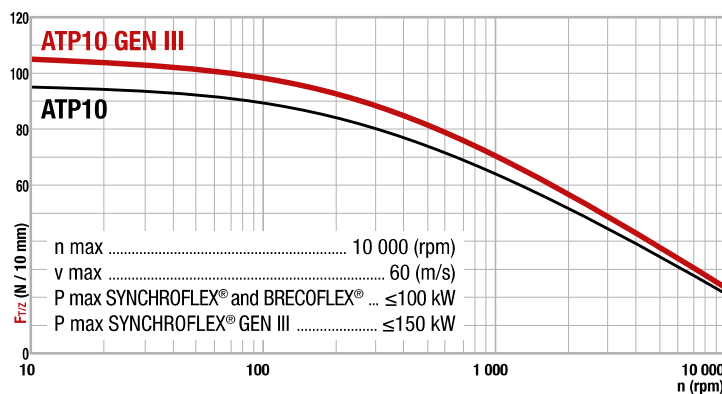
Z	d _k	Bore d (H7) max.	d _b	d _f Screwed flanges
18	111.77	86	121	77
19	118.14	93	128	83
20	124.50	100	134	89
21	130.87	105	140	96
22	137.24	112	147	102
23	143.60	118	153	109
24	149.97	125	160	115
25	156.33	131	166	121
26	162.70	137	172	128
27	169.07	144	179	134
28	175.43	150	185	140
29	181.80	156	192	147
30	188.17	163	198	153
31	194.53	169	204	159
32	200.90	175	210	166
33	207.26	182	217	172
34	213.63	188	223	179
35	220.00	195	229	185
36	226.36	201	236	191
37	232.73	207	242	198
38	239.10	214	249	204
39	245.46	220	255	210
40	251.83	226	261	217
41	258.19	233	268	223
42	264.56	239	274	229
43	270.93	245	280	236
44	277.29	252	287	242
45	283.66	258	293	249
46	290.03	265	300	255
47	296.39	271	306	261
48	302.76	278	312	268
49	309.12	284	319	274
50	315.49	290	325	280
51	321.86	296	331	287
52	328.22	303	338	293
53	334.59	310	344	299
54	340.95	315	350	306
55	347.32	322	357	312
56	353.69	328	363	319
57	360.05	335	370	325
58	366.42	341	376	331
59	372.79	347	382	338
60	379.15	354	389	344
61	385.52	360	395	350
62	391.88	366	401	357
63	398.25	373	408	363
64	404.62	379	414	370
65	410.98	385	420	376
66	417.35	392	427	382
67	423.72	398	433	389
68	430.08	405	440	395
69	436.45	406	446	401
70	442.81	412	452	408
71	449.18	419	459	414
72	455.55	425	465	420
73	461.91	431	471	427
74	468.28	438	478	433
75	474.64	444	484	440
76	481.01	450	490	446
77	487.38	457	497	452
78	493.74	463	503	459
79	500.11	470	510	465
80	506.48	476	516	471
81	512.84	482	522	478
82	519.21	485	529	484
83	525.57	495	535	490
84	531.94	501	541	497
85	538.31	503	548	503
86	544.67	509	554	510
87	551.04	516	561	516
88	557.41	522	567	522
89	563.77	528	573	529
90	570.14	535	580	535
91	576.50	541	586	541
92	582.87	548	592	548
93	589.24	554	599	554
94	595.60	580	605	561
95	601.97	566	611	567

Z: number of teeth.

TIMING BELTS



Tangential force transmittable by the teeth



Tangential force transmittable by the tension members

Belt widths	b (mm)	16	25	32	50	75	100	150
SYNCHROFLEX® GEN III belt								
F_N	(N)	3000	5000	6750	10750	16500	22000	33500
Weight	(kg/m)	0.109	0.170	0.218	0.340	0.510	0.680	1.020
BRECOFLEX® belts								
F_N standard tension members	(N)	2000	3500	4750	7750	12000	16000	
Weight BRECOFLEX® ATP10	(kg/m)	0.096	0.150	0.200	0.300	0.450	0.600	
Weight BRECOFLEX® ATP10-DL	(kg/m)	0.097	0.154	0.2	0.316	0.477	0.636	
SYNCHROFLEX® belts								
F_N standard tension members	(N)	2000	3500	4750	7750	12000	16000	24500
Weight SYNCHROFLEX® standard	(kg/m)	0.096	0.150	0.192	0.300	0.450	0.600	0.900

Manufacturing capacities

	SYNCHROFLEX®	SYNCHROFLEX® GEN III	BRECOFLEX® ATP10
Lengths up to 1 090 mm	Standard length only		
Lengths from 1 100 to 12 000 mm			All intermediate lengths can be produced ¹
Versions DL			All intermediate lengths can be produced ¹
Polyurethanes ²	DEDU 8600	DADU 9333	TPU SM1
Winding	Monofilaire	Bifilar	Lengths from 1 100 to 12 000 mm: bifilar
Tension members ³	Steel	Steel	Steel
¹ Minimum order ² Other polyurethanes (see table "Characteristics of materials" page 5) ³ Other tension members (aramide, high-flexibility tension members, stainless steel) } Consult us			
4. See "Coatings" page 56			

Standard lengths profile / mm	No. of teeth	SYNCHROFLEX® SD SYNCHROFLEX® GEN III	BRECOFLEX®	
			SD	DL
ATP10 / 630	63	•		
ATP10 / 660	66	•		
ATP10 / 700	70	•		
ATP10 / 780	78	•		
ATP10 / 840	84	•		
ATP10 / 890	89	•		
ATP10 / 920	92	•		
ATP10 / 1010	101	•		
ATP10 / 1080	108	•		
ATP10 / 1100	110			
ATP10 / 1150	115	•		
ATP10 / 1280	128	•		
ATP10 / 1400	140	•		
ATP10 / 1500	150		•	•
ATP10 / 1600	160		•	•
ATP10 / 1650	165	•	•	•
ATP10 / 1700	170		•	•
ATP10 / 1800	180	•	•	•
ATP10 / 1900	190		•	•
ATP10 / 2000	200		•	•
ATP10 / 2120	212		•	•
ATP10 / 2240	224		•	•
ATP10 / 2360	236		•	•
ATP10 / 2500	250		•	•
ATP10 / 2650	265		•	•
ATP10 / 2800	280		•	•
ATP10 / 3000	300		•	•
ATP10 / 3150	315		•	•
ATP10 / 3350	335		•	•
ATP10 / 3550	355		•	•
ATP10 / 3750	375		•	•
ATP10 / 4000	400		•	•
ATP10 / 4250	425		•	•
ATP10 / 4500	450		•	•
ATP10 / 4750	475		•	•
ATP10 / 5000	500		•	•
ATP10 / 5300	530		•	•
ATP10 / 5600	560		•	•
ATP10 / 6000	600		•	•
ATP10 / 6300	630		•	•

SD: single toothing, DL: double toothing.

DELIVERY TIMES		
Standard belts	•	3 days acc. to availability
Standard belts	•	4 weeks
Special belts		Consult us

Recommended pre-tension: see page 124

General tolerances: see page 81

General information: see page 4

BELT ORDERING EXAMPLES				
Designation	Width	Profile / Length	Type	Particular specification
SYNCHROFLEX timing belt	50	ATP10/2500	SYN	GEN III
BRECOFLEX timing belt	50	ATP10/4500	BFX	DL

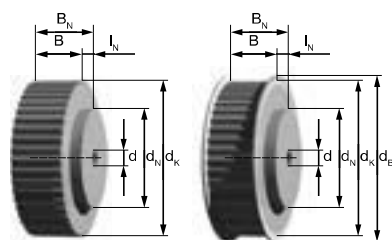
TOOTHED PULLEYS

■ Pulleys acc. to drawing see page 8

Standard pulleys

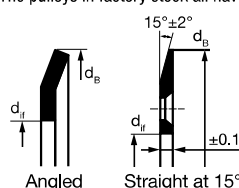
Version 2 (with flanges):
stock up to Z = 44

Version 0 (without flanges)



Pulley widths	Belt widths		b	16	25	32	50	75	100	150
	Pulley without hub		B	23	32	40	60	85	110	160
	Pulley with hub		B _H	33	42	50	70	95	120	170

The pulleys in factory stock all have a hub. **Standard width in stock in green.**



Flanges			
Z	Thickness	Shape	Mounting
Z ≤ 39	1.5	Angled	Rolled
39 < Z ≤ 93	2	Angled	Screwed
B _H ≥ 66 and Z < 40	2	Angled	Screwed
Z > 93	2	Straight at 15°	Screwed

Kinematics	Tension member type	Z min.	BRECOFLEX®	
			SD	DL
Monoflexure	Steel tension members	Z min.	15	25
		ø min (mm)	50	80
	E tension members*	Z min.	12	20
		ø min (mm)	50	60
Contraflexure	Stainless steel tension members	Z min.		
		ø min (mm)		
	Steel tension members	Z min.	25	25
		ø min (mm)	120	120
Contraflexure	E tension members*	Z min.	20	20
		ø min (mm)	80	100
	Stainless steel tension members	Z min.		
		ø min (mm)		

*Special manufacture: minimum quantity.

Width B _N			Z	d _k	d _H	Bore d (H7)		d _B	d _F	
42	50	70				min. stock	max.		Rolled flanges	Screwed flanges
			15	46.15			34	52	38	21
			16	49.33			36	55	41	25
			17	52.51			40	58	44	28
			18	55.70			44	61	47	31
			19	58.88			46	64	50	34
o	o	o	20	62.06	46	12	50	68	57	36
			21	65.25			52	72	58	37
			22	68.43			56	74	60	41
			23	71.61			60	78	64	44
o	o	o	24	74.79	58	12	62	80	66	47
			25	77.98			66	84	70	50
			26	81.16			68	86	73	53
			27	84.34			72	90	76	57
			28	87.53			76	93	79	60
			29	90.71			78	96	82	63
o	o	o	30	93.89	60	12	82	99	95	66
			31	97.08			84	102	88	69
o	o	o	32	100.26	65	12	88	105	91	73
			33	103.44			88	109	95	76
			34	106.63			92	112	98	79
			35	109.81			96	115	101	82
o	o	o	36	112.99	70	16	98	118	104	85
			37	116.17			101	121	107	88
			38	119.36			104	125	111	92
			39	122.54			106	128	114	95
o	o	o	40	125.72	80	16	110	131		98
			41	128.91			110	134		101
			42	132.09			112	137		104
			43	135.27			114	140		108
		o	44	138.46	90	16	118	144		111
			45	141.64			120	147		114
			46	144.82			122	150		117
			47	148.01			122	153		120
			48	151.19			124	156		123
			49	154.37			126	160		127
			50	157.56			130	163		130
			51	160.74			134	166		133
			52	163.92			136	169		136
			53	167.10			140	172		139
			54	170.29			144	176		143
			55	173.47			146	179		146
			56	176.65			150	182		149
			57	179.84			152	185		152
			58	183.02			156	188		155
			59	186.20			160	191		158
			60	189.39			162	195		162
			61	192.57			164	198		165
			62	195.75			166	201		168
			63	198.94			170	204		171
			64	202.12			171	207		174
			65	205.30			174	210		178
			66	208.48			175	214		181
			67	211.67			177	217		184
			68	214.85			181	220		187
			69	218.03			185	223		190
			70	221.22			187	226		193
			71	224.40			191	230		197
			72	227.58			193	233		200
			73	230.77			197	236		203
			74	233.95			201	239		206
			75	237.13				242		209

Z: number of teeth.

Comments

- Larger number of teeth possible
- Standard material: aluminium HR (7075), see page 8
- Flange: galvanised steel, see page 9
- d_{max}: max. mum bore without keyway for flanged pulley

Options

- The different materials such as steel and stainless steel and the surface treatment are shown on page 8
- Special flanges on request
- Special toothforms (zero or reduced backlash), see page 8

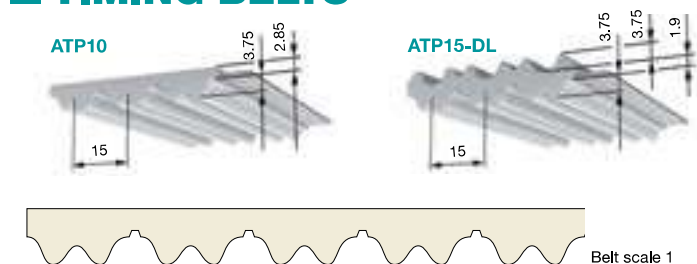
PULLEY ORDERING EXAMPLES

Designation	Material	Width	Type/No. of teeth	Flanges	Hub	Dia. d
Aratron tooth pulley	AL	60	ATP10/27-	2		8H7

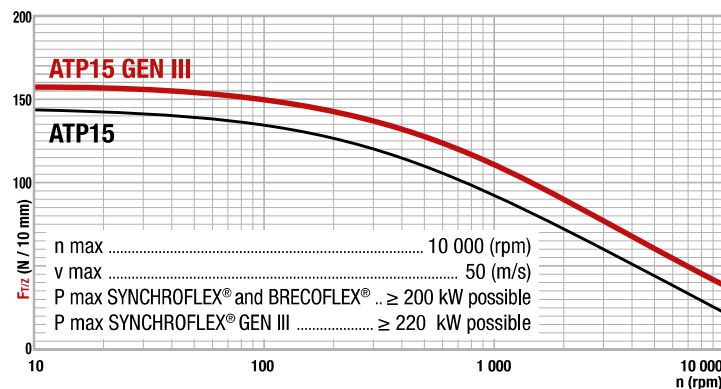
DELIVERY TIMES

Pulleys in factory stock	o	2 weeks
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TIMING BELTS



Tangential force transmittable by the teeth



Tangential force transmittable by the tension members

Belt widths	b (mm)	25	32	50	75	100	150
SYNCHROFLEX® GEN III belt							
F_N	(N)	6 300	8 550	13 950	21 600	28 800	44 100
Weight	(kg/m)	0,218	0,279	0,436	0,654	0,872	1,308
SYNCHROFLEX® et BRECOFLEX® belts							
F_N standard tension members	(N)	4 950	6 750	11 250	17 550	23 850	36 450
Weight BRECOFLEX® ATP15	(kg/m)	0,200	0,256	0,400	0,600	0,800	1,200
Weight BRECOFLEX® ATP15 DL	(kg/m)	0,21	0,272	0,432	0,654	0,876	

Manufacturing capacities

	SYNCHROFLEX®	SYNCHROFLEX® GEN III	BRECOFLEX® ATP15
Lengths from 1 500 to 12 000 mm	Standard length only		All intermediate lengths can be produced ¹
Versions DL and DL PAZ ¹			
Polyurethanes ²	DEDU 8600	DADU 9333	TPU SM1
Winding	Monofilar	Bifilar	Lengths from 1 500 to 12 000 mm: bifilar
Tension members ³	Steel	Steel	Steel

¹ Minimum order
² Other polyurethanes (see table "Characteristics of materials" page 5)
³ Other tension members (aramide, high-flexibility tension members, stainless steel) } Consult us
⁴ See "Coatings" page 56

Standard lengths profile / mm	No. of teeth	SYNCHROFLEX® and SYNCHROFLEX® GEN III	BRECOFLEX®	
			SD	DL
ATP15 / 1125	75	○		
ATP15 / 1185	79	○		
ATP15 / 1260	84	○		
ATP15 / 1500	100			
ATP15 / 1560	104	○		
ATP15 / 1740	116		○	○
ATP15 / 1965	131		○	○
ATP15 / 2100	140		○	○
ATP15 / 2250	150		○	○
ATP15 / 2385	159		○	○
ATP15 / 2520	168		○	○
ATP15 / 2670	178		○	○
ATP15 / 2805	187		○	○
ATP15 / 3000	200		○	○
ATP15 / 3225	215		○	○
ATP15 / 3450	230		○	○
ATP15 / 3675	245		○	○
ATP15 / 3900	260		○	○
ATP15 / 4125	275		○	○
ATP15 / 4500	300		○	○
ATP15 / 4875	325		○	○
ATP15 / 5250	350		○	○
ATP15 / 5625	375		○	○
ATP15 / 6000	400		○	○

SD: single toothing. DL: double toothing.

DELIVERY TIMES		
Standard belts	○	4 weeks
Special belts		Consult us

Recommended pre-tension: see [page 124](#)

General tolerances: see [page 81](#)

General information: see [page 4](#)

BELT ORDERING EXAMPLES				
Designation	Width	Profile / Length	Type	Particular specification
SYNCHROFLEX timing belt	50	ATP15/2500	SYN	GEN III
BRECOFLEX timing belt	50	ATP15/4500	BFX	DL

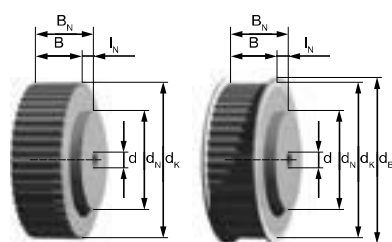
TOOTHED PULLEYS

Pulleys acc. to drawing see page 8

Standard pulleys

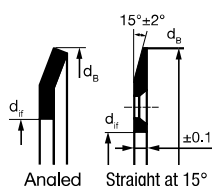
Version 2 (with flanges):
stock up to Z = 44

Version 0 (without flanges):
stock from Z = 45



Pulley widths	Belt widths					
	b	25	32	50	75	100
	150					
Pulley without hub	B	32	40	60	85	110
Pulley with hub	B _N	42	50	70	95	120

The pulleys in factory stock all have a hub. **Standard width in stock in green.**



Flanges			
Z	Thickness	Shape	Mounting
Z ≤ 62	2	Angled	Screwed
Z > 62	2	Straight at 15°	Screwed

Kinematics	Tension member type	SYNCHROFLEX® BRECOFLEX®	
		SD	DL
Monoflexure	Steel tension members	Z min.	20
		ø min (mm)	100
	E tension members*	Z min.	18
		ø min (mm)	80
Contraflexure	Stainless steel tension members	Z min.	
		ø min (mm)	
	Steel tension members	Z min.	30
		ø min (mm)	160
Contraflexure	E tension members*	Z min.	25
		ø min (mm)	120
	Stainless steel tension members	Z min.	
		ø min (mm)	

*Special manufacture: minimum quantity

Width B _N			Z	d _k	d _N	Bore d (H7)		d _b	d _f Screwed flanges
42	50	70				min, stock	max.		
○	○	○	20	93.39	46	12	62	100	66
			21	98.17			70	106	73
			22	102.94			74	109	76
			23	107.72			79	115	82
○	○	○	24	112.49	58	12	84	118	85
			25	117.27			89	125	92
			26	122.04			94	128	95
			27	126.82			96	134	101
			28	131.59			103	137	104
			29	136.36			108	144	111
○	○	○	30	141.14	60	12	113	147	114
			31	145.91			117	153	120
○	○	○	32	150.69	65	12	122	156	123
			33	155.46			127	163	130
			34	160.24			132	166	133
			35	165.01			137	172	139
○	○	○	36	169.79	70	16	141	176	143
			37	174.56			146	182	149
			38	179.34			151	185	152
			39	184.11			156	191	158
○	○	○	40	188.89	80	16	160	195	162
			41	193.66			165	201	168
			42	198.44			170	204	171
			43	203.21			175	210	178
	○		44	207.98	90	16	179	214	181
			45	212.76				220	187
			46	217.53			184	223	190
			47	222.31			187	230	197
			48	227.03			192	234	200
			49	231.56			197	239	206
			50	236.63			202	242	209
			51	241.41			207	249	216
			52	246.48			212	252	219
			53	250.96			216	258	225
			54	255.73			220	262	228
			55	260.51			225	268	235
			56	265.28			230	271	238
			57	270.05			235	277	244
			58	274.83			240	281	247
			59	279.60			245	287	254
			60	284.38			250	290	257
			61	289.15			255	296	263
			62	293.93			260	300	267
			63	298.70			265	306	273
			64	303.48			270	310	276
			65	308.25			275	315	283
			66	313.03			280	319	286
			67	317.80			285	325	292
			68	322.58			290	329	295
			69	327.35			295	335	302
			70	332.13			300	338	305
			71	336.90			305	344	311
			72	341.67			310	348	314
			73	346.45			315	354	321
			74	351.22			320	357	324
			75	356.00			330	363	330
			76	360.77			335	367	334
			77	365.55			340	372	335
			78	370.32			345	377	340
			79	375.10			350	382	345
			80	379.87			355	386	350

Z: number of teeth.

Comments

- Larger number of teeth possible
- Standard material: aluminium HR (7075), see page 8
- Flange: galvanised steel, see page 9
- d_{max}: max. mum bore without keyway for flanged pulley

Options

- The different materials such as steel and stainless steel and the surface treatment are shown on page 8
- Special flanges on request
- Special toothforms (zero or reduced backlash), see page 8

PULLEY ORDERING EXAMPLES

Designation	Material	Width	Type/No. of teeth	Flanges	Hub	Dia. d
Aratron tooth pulley	AL	60	ATP15/27-	2		8H7

DELIVERY TIMES

Pulleys in factory stock	○	2 weeks
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