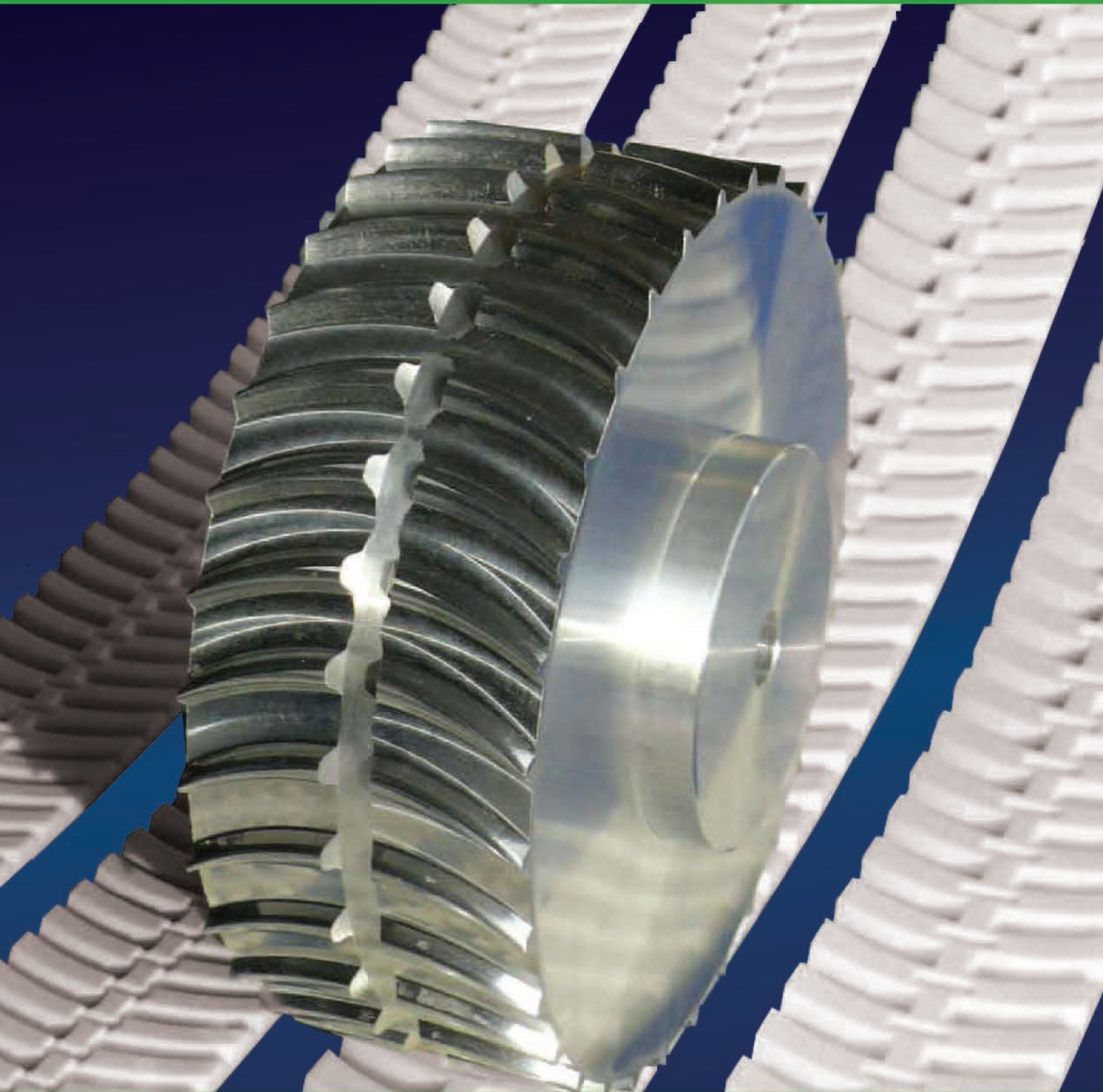


BRECO *flex* CO., L.L.C.

High Precision Drive Components



ARC-POWER TECHNOLOGY

ARC-POWER TECHNOLOGY

REINFORCED POLYURETHANE ARC-POWER TIMING BELTS

The revolutionary "arc" shaped state-of-the-art timing belt design represents the most unique and efficient timing belt available. This world-wide patented timing belt technology incorporates numerous performance advantages.

ADVANTAGES

The ARC-POWER design allows design engineers to incorporate the most efficient and smooth performing timing belt technology available leading to the following advantages:

- Continuous Tooth Engagement
- Smooth Meshing of Belt and Pulleys
- Less Vibration
- Reduced Noise Level
- Self-Tracking, No Flanges
- No Pulley Flanges
- Decreased Polygonal Effect
- No Lateral Movement
- Increased Power Range
- Improved Repeatability
- Friction Reduced Tracking
- Smooth Idler Interaction
- More Compact Design
- Tangential Belt Drive Possible

APPLICATIONS

Numerous high performance special applications can now be accomplished by utilizing the ARC-POWER timing belt technology. The ARC-POWER Technology is the preferred choice for following applications:

- Linear Drives
- Power Transmission Applications
- Conveying
- Indexing
- Positioning and Driving Applications

REINFORCED POLYURETHANE ARC-POWER TIMING BELTS

ARC-POWER is available in **Open Ended**, **Welded** and **Truly Endless** (homogeneous-no splice) with steel cord tension members and is offered in AT10 and AT15 tooth profile and with an integrated tracking guide. This design offers the ideal timing belt for high precision linear drives, conveying and power transmission applications.

ARC-POWER VERSION “BATK” - (with tracking guide)



BATK10 / BATK15

TRACKING GUIDE

← BI-DIRECTIONAL →

Nylon Facing Options:

Version		PAZ (TOOTH SIDE)	PAR (BACK SIDE)	PAZ-PAR
BATK10	M (open ended)	white	green	white / green
	V (welded)	white	green	white / green
	BFX (truly endless)	white	green	white / green
BATK15	M (open ended)	white	green	white / green
	V (welded)	white	green	white / green
	BFX (truly endless)	white	green	white / green

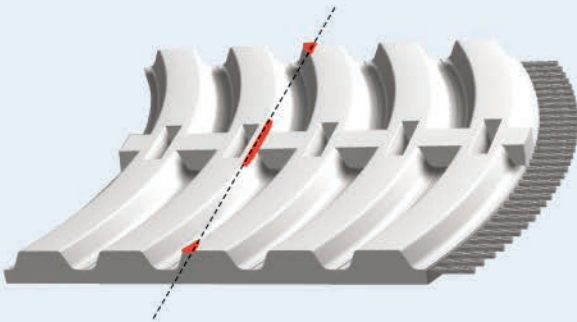
NOTE: For ARC-POWER timing belts with backings or ARC-POWER timing belts with profiles, call applications engineering.

ARC-POWER TECHNOLOGY

TECHNOLOGY CHARACTERISTICS

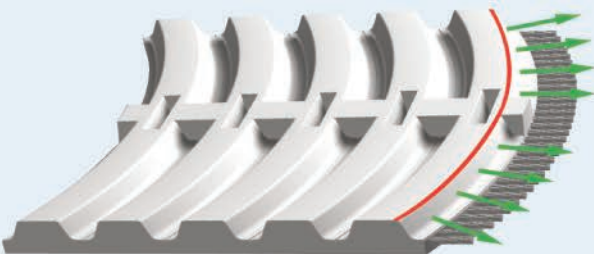
The circular tooth design is specifically developed to provide drive components for state-of-the-art applications requiring highest positioning accuracy and reliability. The outstanding performance is based on the extremely low friction during belt and pulley engagement.

Smooth Tooth Engagement



The unique circular "arc" tooth meshing enables the transmission of force dynamically during the point of engagement of belt and pulley. While the radial point of tooth engagement is constantly shifting and the "arc" shaped timing belt tooth passes the pulley centerline, the succeeding tooth is already engaged and avoids tooth snapping into the pulley tooth gap. This results in smooth self-tracking intermeshing and leads to optimal drive characteristics by reducing the polygonal surface of belt and pulley. This also leads to reduced vibration and less noise which is of high importance in today's high demanding design criterias.

Circular Power Distribution

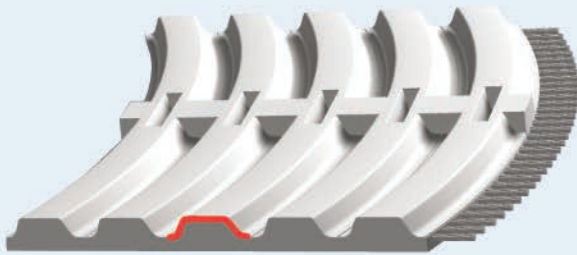


The circular "arc" tooth shape has been scientifically developed to optimize belt and pulley meshing, therefore improving the dynamics and drive performance by minimizing friction during belt and pulley tooth intermeshing and by the circular distribution of the force. The direction of the power distribution changes with the running direction of the timing belt from the belt center towards the belt edges and vice versa.

TECHNOLOGY CHARACTERISTICS

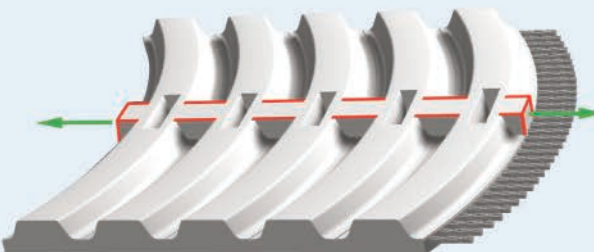
The performance advantages of the ARC-POWER Technology is resulting in vibration reduced belt drives with increased power ratings along with increased noise reduction. The ARC-POWER Technology provides also a reduction of the polygonal effect adding to the smoothness of the belt drive (reduced oscillation).

Reliable “AT” Tooth Profile



The high torque “AT” tooth profile meets the wide range of today’s demanding high-tech applications and provides increased tooth shear strength. The “AT” tooth profile also incorporates an enlarged running surface for outstanding drive performance.

Bi-Directional Self Tracking

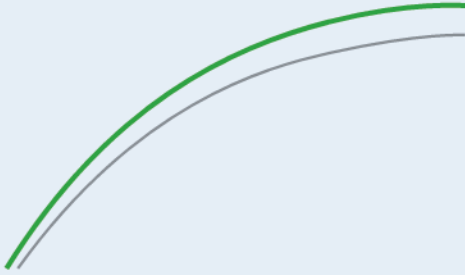


Due to its superior tooth structure, combined with the integrated tracking guide, the ARC-POWER Technology is truly self-tracking in both running directions. The tracking guide engages precisely with the centered pulley tracking groove. No pulley flanges are needed.

PERFORMANCE CHARACTERISTICS

Improved strength and power

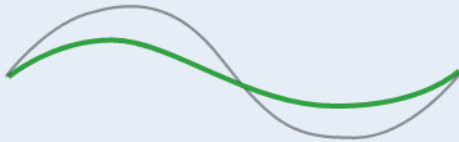
Increased Power



The ARC-POWER circular tooth design offers increased tooth shear strength of up to 10%. Sources of friction are minimized by the reduced polygonal effect, decreased tooth friction and the elimination of pulley flange interference.

Reduced polygon effect

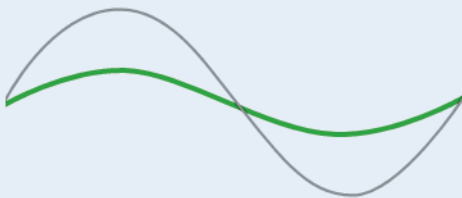
Reduced Vibration



The polygonal effect in a timing belt drive induces belt oscillation. The ARC-POWER Technology substantially reduces vibration due to the unique belt and pulley tooth meshing at the point of tooth engagement.

Reduced friction

Reduced Noise Level

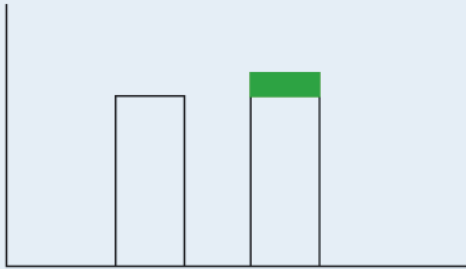


The "Arc" tooth design prevents "noise" created by friction and compressed air. The friction is reduced by the dynamics of the technology and air is vented towards the belt edges while belt and pulley teeth are meshing. ARC-POWER Technology further eliminates noise due to the absence of pulley flange friction.

PERFORMANCE CHARACTERISTICS

Built in safety

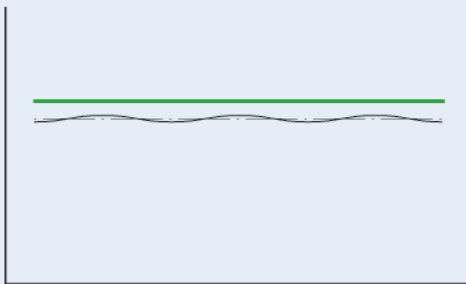
Higher Safety Factor



The unique design of the circular ARC-POWER tooth offers increased tooth shear strength adding approximately 10% more tooth shear safety compared to a conventional strait AT-Series belt tooth design with the same belt width.

Continuous tooth engagement

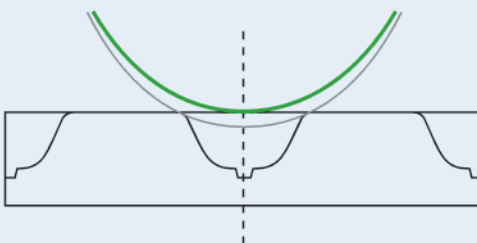
Uninterrupted Power Transfer



The ARC-POWER tooth design provides continuous tooth engagement with a constant minimum of 2 guiding teeth in mesh (tangential drive), improving the consistency of power transfer and the smoothness of the belt drive.

Vibration reduced tensioning

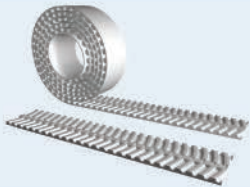
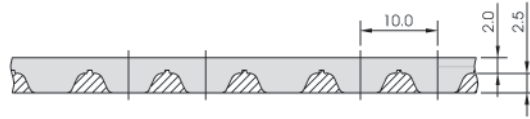
Smooth Idler Interaction



The circular ARC-POWER Technology permits quiet and vibration-free operation with flat idlers and tensioners running on the toothed side of the timing belt. The smooth running performance is based on the continuous tooth support providing an uninterrupted running surface eliminating belt bouncing.

ARC-POWER

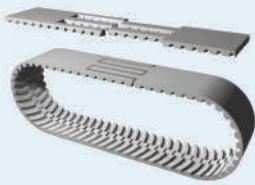
BATK10



OPEN ENDED - M

Widths: 32 50 75 100 mm

Lengths: Any lengths available - Stock Rolls: 50 meters

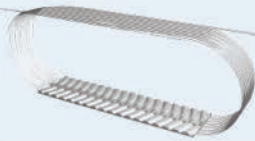


SPLICED AND WELDED ENDLESS - V

Widths: 32 50 75 100 mm

Lengths: Minimum joined Length: 880 mm

Length of timing belt can be specified in one tooth increments



TRULY ENDLESS - BFX

Widths: 32 50 75 100 mm

Pitch/Length Version	Number of Teeth
BATK10 / 1100 BFX	110
BATK10 / 1150 BFX	115
BATK10 / 1210 BFX	121
BATK10 / 1240 BFX	124
BATK10 / 1250 BFX	125
BATK10 / 1320 BFX	132
BATK10 / 1400 BFX	140
BATK10 / 1500 BFX	150
BATK10 / 1600 BFX	160

Pitch/Length Version	Number of Teeth
BATK10 / 1700 BFX	170
BATK10 / 1800 BFX	180
BATK10 / 1900 BFX	190
BATK10 / 2000 BFX	200
BATK10 / 2240 BFX	224
BATK10 / 2500 BFX	250
BATK10 / 2800 BFX	280
BATK10 / 3000 BFX	300
BATK10 / 3550 BFX	355

Pitch/Length Version	Number of Teeth
BATK10 / 4000 BFX	400
BATK10 / 4500 BFX	450
BATK10 / 5000 BFX	500
BATK10 / 5600 BFX	560
BATK10 / 6000 BFX	600
BATK10 / 6700 BFX	670
BATK10 / 7100 BFX	710
BATK10 / 7500 BFX	750

Further Lengths up to 20,000 mm available.

Length of belt can be increased in increments of one tooth from minimum length of 1,100 mm.

Ordering example: Polyurethane Timing Belt 50 BATK10 / 5000 BFX

Belt Width _____

Pitch _____

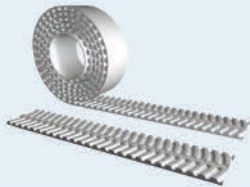
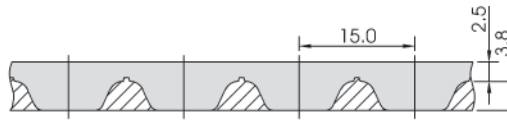
Length _____

Versions "M", "V" or "BFX" _____

NOTE: Options for NYLON facing see page 3

ARC-POWER

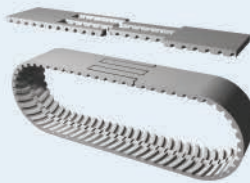
BATK15



OPEN ENDED - M

Widths: 50 75 100 mm

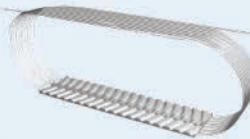
Lengths: Any lengths available - Stock Rolls: 50 meters



SPLICED AND WELDED ENDLESS - V

Widths: 50 75 100 mm

Lengths: Minimum joined Length: 1005 mm
Length of timing belt can be specified in one tooth increments



TRULY ENDLESS - BFX

Widths: 50 75 100 mm

Pitch/Length Version	Number of Teeth
BATK15 / 1500 BFX	100
BATK15 / 1590 BFX	106
BATK15 / 1710 BFX	114
BATK15 / 1800 BFX	120
BATK15 / 1905 BFX	127
BATK15 / 1995 BFX	133
BATK15 / 2250 BFX	150
BATK15 / 2505 BFX	167

Pitch/Length Version	Number of Teeth
BATK15 / 2790 BFX	186
BATK15 / 3000 BFX	200
BATK15 / 3495 BFX	233
BATK15 / 3750 BFX	250
BATK15 / 4005 BFX	267
BATK15 / 4500 BFX	300
BATK15 / 4995 BFX	333
BATK15 / 5295 BFX	353

Pitch/Length Version	Number of Teeth
BATK15 / 5595 BFX	373
BATK15 / 6000 BFX	400
BATK15 / 6300 BFX	420
BATK15 / 6705 BFX	447
BATK15 / 7095 BFX	473
BATK15 / 7500 BFX	500

Further Lengths up to 20,000 mm available.
Length of belt can be increased in increments of one tooth from minimum length of 1,500 mm.

Ordering example: Polyurethane Timing Belt 50 BATK15 / 6000 BFX

Belt Width _____
 Pitch _____
 Length _____
 Versions "M", "V" or "BFX" _____

NOTE: Options for NYLON facing see page 3

SPECIFIC TOOTH SHEAR STRENGTH TABLE - BATK10

R.p.m. n (rpm)	F _{Uspez} (N/cm)	M _{spez} (Ncm/cm)	P _{spez} (W/cm)	R.p.m. n (rpm)	F _{Uspez} (N/cm)	M _{spez} (Ncm/cm)	P _{spez} (W/cm)
0	93.49	14.87	0.00	1600	55.20	8.78	14.71
20	92.09	14.66	0.31	1700	54.19	8.63	15.34
40	90.82	14.46	0.60	1800	53.17	8.46	15.95
60	89.68	14.26	0.90	1900	52.15	8.30	16.54
80	88.54	14.08	1.18	2000	51.26	8.17	17.10
100	87.38	13.92	1.45	2200	49.61	7.88	18.19
200	82.68	13.16	2.76	2400	48.08	7.64	19.21
300	79.00	12.56	3.95	2600	46.56	7.42	20.17
400	75.68	12.06	5.05	2800	45.16	7.20	21.08
500	73.01	11.62	6.08	3000	43.88	7.00	21.97
600	70.60	11.23	7.06	3200	42.74	6.80	22.80
700	68.30	10.87	7.98	3400	41.59	6.61	23.57
800	66.40	10.57	8.86	3600	40.57	6.44	24.31
900	64.62	10.27	9.70	3800	39.56	6.29	25.02
1000	62.96	10.02	10.50	4000	38.54	6.13	25.69
1100	61.44	9.78	11.27	4500	36.64	5.77	27.22
1200	60.04	9.55	12.01	5000	34.21	5.46	28.62
1300	58.76	9.35	12.72	5500	32.44	5.16	29.76
1400	57.49	9.14	13.40	6000	30.78	4.90	30.78
1500	56.35	8.95	14.08	6500	29.26	4.64	31.67

SPECIFIC TOOTH SHEAR STRENGTH TABLE - BATK15

R.p.m. n (rpm)	F _{Uspez} (N/cm)	M _{spez} (Ncm/cm)	P _{spez} (W/cm)	R.p.m. n (rpm)	F _{Uspez} (N/cm)	M _{spez} (Ncm/cm)	P _{spez} (W/cm)
0	140.24	37.21	0.00	1600	76.51	19.34	32.44
20	140.24	36.53	0.77	1700	74.60	18.88	33.62
40	137.76	35.92	1.50	1800	72.89	18.42	34.74
60	135.53	35.32	2.23	1900	71.48	18.02	35.81
80	133.43	34.78	2.92	2000	70.21	17.57	36.84
100	132.16	34.25	3.59	2200	68.05	16.79	38.74
200	126.50	32.03	6.72	2400	65.26	16.10	40.46
300	121.34	30.26	9.52	2600	62.65	15.42	42.04
400	114.86	28.80	12.06	2800	60.17	14.86	43.46
500	109.33	27.50	14.40	3000	58.26	14.24	44.76
600	104.69	26.42	16.57	3200	55.72	13.72	45.92
700	100.55	25.42	18.61	3400	53.75	13.16	46.97
800	97.12	24.50	20.51	3600	51.84	12.71	47.89
900	93.49	23.65	22.30	3800	50.05	12.24	48.72
1000	90.50	22.88	23.99	4000	48.97	11.78	49.45
1100	87.71	22.20	25.60	4500	46.75	10.78	50.86
1200	85.16	21.58	27.11	5000	45.10	9.86	51.74
1300	82.74	20.96	28.55	5500	43.44	8.72	52.75
1400	80.58	20.41	29.90	6000	41.92	7.81	53.83
1500	78.48	19.87	31.20	6500	40.39	6.66	54.71

CALCULATION - TOOTH SHEAR STRENGTH

Belt width b

$$b = \frac{F_U}{z_e \cdot F_{U\text{spez}}} \quad \text{cm}$$

$$b = \frac{100 \cdot M}{z_1 \cdot z_e \cdot M_{\text{spez}}} \quad \text{cm}$$

$$b = \frac{1000 \cdot P}{z_1 \cdot z_e \cdot P_{\text{spez}}} \quad \text{cm}$$

Load ratings

$$F_U = F_{U\text{spez}} \cdot z_e \cdot b \quad \text{N}$$

$$M = \frac{M_{\text{spez}} \cdot z_1 \cdot z_e \cdot b}{100} \quad \text{Nm}$$

$$P = \frac{P_{\text{spez}} \cdot z_1 \cdot z_e \cdot b}{1000} \quad \text{kW}$$

Number of teeth in mesh

$$z_{e\text{max}} = 12 \quad (\text{BFX and Open Ended Belts})$$

$$z_{e\text{max}} = 6 \quad (\text{Welded Belts})$$

$$z_e = \frac{z_1}{180} \cdot \arccos \frac{t \cdot (z_2 - z_1)}{2\pi \cdot a}$$

- b - belt width in cm
- $F_{U\text{spez}}$ - Specific peripheral force in N/cm
- M_{spez} - Specific torque in Ncm/cm
- P_{spez} - Specific power in W/cm
- z_1 - No. of teeth on the small pulley
- z_2 - No. of teeth on the large pulley
- z_e - No. of teeth in mesh
- t - pitch in mm
- a - center distance in mm

NOTE: Values see page 10-11

PERFORMANCE PARAMETERS

BATK10 Open Ended (M) and Welded (V)



Type	Tension-Member	Belt Width (mm)				Dimension
		32	50	75	100	
BRECO M	F_{all} (steel cord)	5000	7500	12000	17000	F_{all} (N)
BRECO V	F_{all} (steel cord)	2500	3750	6000	8500	F_{all} (N)
spec. spring rate	(steel cord)	1370000	2120000	3180000	4250000	(N)
BRECO M	F_{all} (stainless steel cord)	4000	6000	9000	12000	F_{all} (N)
BRECO V	F_{all} (stainless steel cord)	2000	3000	4500	6000	F_{all} (N)
spec. spring rate	(stainless steel cord)	990000	1530000	2300000	3060000	(N)
Belt weight (approx.)	BATK10	0.192	0.300	0.450	0.600	(kg/m)

PERFORMANCE PARAMETERS



BATK10 Truly Endless (BFX)

Type	Tension-Member	Belt Width (mm)				Dimension
		32	50	75	100	
BFX	F _{all} (steel cord)	4750	7750	12000	16000	F _{all} (N)
BFX	F _{all} (stainless steel cord)	3400	5600	8650	11200	F _{all} (N)
Belt weight (approx.)	BATK10	0.192	0.300	0.450	0.600	(kg/m)



BATK15 Open Ended (M) and Welded (V)

Type	Tension-Member	Belt Width (mm)			Dimension
		50	75	100	
BRECO M	F _{all} (steel cord)	11200	16800	22400	F _{all} (N)
BRECO V	F _{all} (steel cord)	5600	8400	11200	F _{all} (N)
spec. spring rate	(steel cord)	2800000	4200000	5600000	(N)
BRECO M	F _{all} (stainless steel cord)	9000	13500	18000	F _{all} (N)
BRECO V	F _{all} (stainless steel cord)	4500	6750	9000	F _{all} (N)
spec. spring rate	(stainless steel cord)	2800000	4200000	5600000	(N)
Belt weight (approx.)	BATK15	0.428	0.642	0.856	(kg/m)

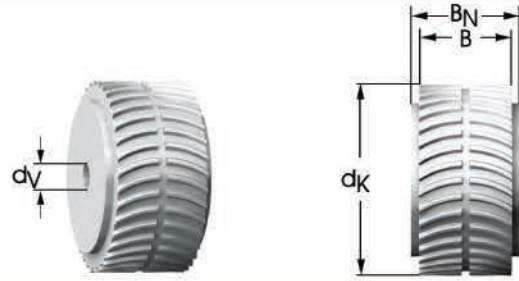


BATK15 Truly Endless (BFX)

Type	Tension-Member	Belt Width (mm)			Dimension
		50	75	100	
BFX	F _{all} (steel cord)	10400	16000	21600	F _{all} (N)
BFX	F _{all} (hi-flex cord)	10400	16000	21600	F _{all} (N)
BFX	F _{all} (stainless steel cord)	8300	12800	17300	F _{all} (N)
Belt weight (approx.)	BATK15	0.420	0.629	0.836	(kg/m)

ALUMINUM PULLEYS

BATK10



Tooth Type	Number of Teeth	Outside Diameter	Pitch Diameter	Root Diameter	Face Width	Width w/2 Hubs	Pilot Bore	Part Number
BATK10	z	d _k (mm)	d _p (mm)	d _r (mm)	B (mm)	B _N (mm)	d _v (mm)	
BELT WIDTH = 32 mm	20	61.84	63.84	57.14	37	47	12H7	AL 47 BATK10 / 20 hubs 46x5
	24	74.57	76.57	69.87	37	47	12H7	AL 47 BATK10 / 24 hubs 57x5
	25	77.76	79.76	73.06	37	47	12H7	AL 47 BATK10 / 25 hubs 59x5
	27	84.12	86.12	79.42	37	47	12H7	AL 47 BATK10 / 27 hubs 64x5
	30	93.67	95.67	88.97	37	47	12H7	AL 47 BATK10 / 30 hubs 73x5
	32	100.04	102.04	95.34	37	47	12H7	AL 47 BATK10 / 32 hubs 80x5
	36	112.77	114.77	108.07	37	47	16H7	AL 47 BATK10 / 36 hubs 92x5
	40	125.50	127.50	120.80	37	47	16H7	AL 47 BATK10 / 40 hubs 105x5
	48	150.97	152.97	146.27	37	47	20H7	AL 47 BATK10 / 48 hubs 130x5
60	189.17	191.17	184.47	37	47	20H7	AL 47 BATK10 / 60 hubs 169x5	
BELT WIDTH = 50 mm	20	61.84	63.84	57.14	55	65	12H7	AL 65 BATK10 / 20 hubs 46x5
	24	74.57	76.57	69.87	55	65	12H7	AL 65 BATK10 / 24 hubs 57x5
	25	77.76	79.76	73.06	55	65	12H7	AL 65 BATK10 / 25 hubs 59x5
	27	84.12	86.12	79.42	55	65	12H7	AL 65 BATK10 / 27 hubs 64x5
	30	93.67	95.67	88.97	55	65	12H7	AL 65 BATK10 / 30 hubs 73x5
	32	100.04	102.04	95.34	55	65	12H7	AL 65 BATK10 / 32 hubs 80x5
	36	112.77	114.77	108.07	55	65	16H7	AL 65 BATK10 / 36 hubs 92x5
	40	125.50	127.50	120.80	55	65	16H7	AL 65 BATK10 / 40 hubs 105x5
	48	150.97	152.97	146.27	55	65	20H7	AL 65 BATK10 / 48 hubs 130x5
60	189.17	191.17	184.47	55	65	20H7	AL 65 BATK10 / 60 hubs 169x5	
BELT WIDTH = 75 mm	20	61.84	63.84	57.14	80	90	12H7	AL 90 BATK10 / 20 hubs 46x5
	24	74.57	76.57	69.87	80	90	12H7	AL 90 BATK10 / 24 hubs 57x5
	25	77.76	79.76	73.06	80	90	12H7	AL 90 BATK10 / 25 hubs 59x5
	27	84.12	86.12	79.42	80	90	12H7	AL 90 BATK10 / 27 hubs 64x5
	30	93.67	95.67	88.97	80	90	12H7	AL 90 BATK10 / 30 hubs 73x5
	32	100.04	102.04	95.34	80	90	12H7	AL 90 BATK10 / 32 hubs 80x5
	36	112.77	114.77	108.07	80	90	16H7	AL 90 BATK10 / 36 hubs 92x5
	40	125.50	127.50	120.80	80	90	16H7	AL 90 BATK10 / 40 hubs 105x5
	48	150.97	152.97	146.27	80	90	20H7	AL 90 BATK10 / 48 hubs 130x5
60	189.17	191.17	184.47	80	90	20H7	AL 90 BATK10 / 60 hubs 169x5	

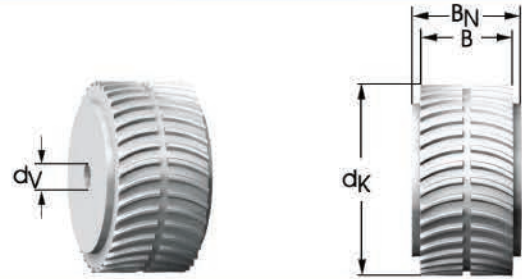
Stock items are indicated by bold type. Other pulley sizes, pulley materials, or custom pulleys on request. Please contact BRECOflex-Engineering for further information.

NOTE: All pulleys must have same running direction! (To be considered with pulley modifications, i.e. hubs, counterbores, etc.)

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ALUMINUM PULLEYS

BATK10



Tooth Type	Number of Teeth	Outside Diameter	Pitch Diameter	Root Diameter	Face Width	Width w/2 Hubs	Pilot Bore	Part Number
BATK10	z	d _k (mm)	d _o (mm)	d _i (mm)	B (mm)	B _N (mm)	d _v (mm)	
BELT WIDTH = 100 mm	20	61.84	63.84	57.14	105	115	12H7	AL 115 BATK10 / 20 hubs 46x5
	24	74.57	76.57	69.87	105	115	12H7	AL 115 BATK10 / 24 hubs 57x5
	25	77.76	79.76	73.06	105	115	12H7	AL 115 BATK10 / 25 hubs 59x5
	27	84.12	86.12	79.42	105	115	12H7	AL 115 BATK10 / 27 hubs 64x5
	30	93.67	95.67	88.97	105	115	12H7	AL 115 BATK10 / 30 hubs 73x5
	32	100.04	102.04	95.34	105	115	12H7	AL 115 BATK10 / 32 hubs 80x5
	36	112.77	114.77	108.07	105	115	16H7	AL 115 BATK10 / 36 hubs 92x5
	40	125.50	127.50	120.80	105	115	16H7	AL 115 BATK10 / 40 hubs 105x5
	48	150.97	152.97	146.27	105	115	20H7	AL 115 BATK10 / 48 hubs 130x5
	60	189.17	191.17	184.47	105	115	20H7	AL 115 BAKT10 / 60 hubs 169x5

Flexibility BATK10 (Minimum number of teeth, minimum diameter)

Drive Type			Steel Cord		Stainless Steel Cord	
			M / BFX	V	M / BFX	V
 z _{min} d _{min}	without back bending	z _{min}	20	25	25	25
		d _{min} (mm)	60	80	80	80
 z _{min} d _{min}	with back bending	z _{min}	25	25	40	40
		d _{min} (mm)	120	120	130	130

Stock items are indicated by bold type. Other pulley sizes, pulley materials, or custom pulleys on request. Please contact BRECOflex-Engineering for further information.

Ordering example: Aluminum Pulleys **AL 65 BATK10 / 25** hub 59x5 **dv=12H7**

Aluminum Pulley _____

Width over 2 Hubs _____

Type/Pitch _____

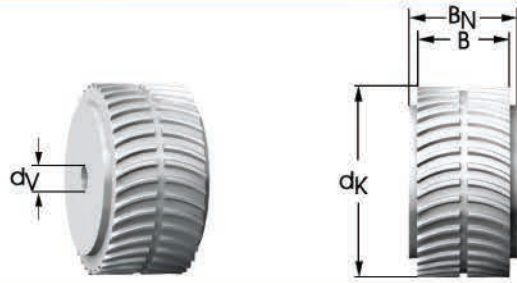
Number of Teeth _____

Hub Dimensions _____

Pilot Bore _____

ALUMINUM PULLEYS

BATK15



Tooth Type	Number of Teeth	Outside Diameter	Pitch Diameter	Root Diameter	Face Width	Width w/2 Hubs	Pilot Bore	Part Number
BATK15	z	d _k (mm)	d _o (mm)	d _r (mm)	B (mm)	B _N (mm)	d _v (mm)	
BELT WIDTH = 50 mm	20	93.01	95.71	85.91	55	75	12H7	AL 75 BATK15 / 20 HUBS (2) 46x10
	24	112.11	114.81	105.01	55	75	12H7	AL 75 BATK15 / 24 HUBS (2) 58x10
	25	116.89	119.58	109.79	55	75	12H7	AL 75 BATK15 / 25 HUBS (2) 58x10
	27	126.44	129.13	119.34	55	75	12H7	AL 75 BATK15 / 27 HUBS (2) 58x10
	30	140.76	143.46	133.66	55	75	12H7	AL 75 BATK15 / 30 HUBS (2) 60x10
	32	150.31	153.01	143.21	55	75	12H7	AL 75 BATK15 / 32 HUBS (2) 65x10
	36	169.41	172.10	162.31	55	75	16H7	AL 75 BATK15 / 36 HUBS (2) 70x10
	40	188.51	191.20	181.41	55	75	16H7	AL 75 BATK15 / 40 HUBS (2) 80x10
	48	226.70	229.40	219.60	55	75	16H7	AL 75 BATK15 / 48 HUBS (2) 140x10
60	284.00	286.70	276.90	55	75	16H7	AL 75 BATK15 / 60 HUBS (2) 160x10	
BELT WIDTH = 75 mm	20	93.01	95.71	85.91	80	100	12H7	AL 100 BATK15 / 20 HUBS (2) 46x10
	24	112.11	114.81	105.01	80	100	12H7	AL 100 BATK15 / 24 HUBS (2) 58x10
	25	116.89	119.58	109.79	80	100	12H7	AL 100 BATK15 / 25 HUBS (2) 58x10
	27	126.44	129.13	119.34	80	100	12H7	AL 100 BATK15 / 27 HUBS (2) 58x10
	30	140.76	143.46	133.66	80	100	12H7	AL 100 BATK15 / 30 HUBS (2) 60x10
	32	150.31	153.01	143.21	80	100	12H7	AL 100 BATK15 / 32 HUBS (2) 65x10
	36	169.41	172.10	162.31	80	100	16H7	AL 100 BATK15 / 36 HUBS (2) 70x10
	40	188.51	191.20	181.41	80	100	16H7	AL 100 BATK15 / 40 HUBS (2) 80x10
	48	226.70	229.40	219.60	80	100	16H7	AL 100 BATK15 / 48 HUBS (2) 140x10
60	284.00	286.70	276.90	80	100	16H7	AL 100 BATK15 / 60 HUBS (2) 160x10	
BELT WIDTH = 100 mm	20	93.01	95.71	85.91	105	125	12H7	AL 125 BATK15 / 20 HUBS (2) 46x10
	24	112.11	114.81	105.01	105	125	12H7	AL 125 BATK15 / 24 HUBS (2) 58x10
	25	116.89	119.58	109.79	105	125	12H7	AL 125 BATK15 / 25 HUBS (2) 58x10
	27	126.44	129.13	119.34	105	125	12H7	AL 125 BATK15 / 27 HUBS (2) 58x10
	30	140.76	143.46	133.66	105	125	12H7	AL 125 BATK15 / 30 HUBS (2) 60x10
	32	150.31	153.01	143.21	105	125	12H7	AL 125 BATK15 / 32 HUBS (2) 65x10
	36	169.41	172.10	162.31	105	125	16H7	AL 125 BATK15 / 36 HUBS (2) 70x10
	40	188.51	191.20	181.41	105	125	16H7	AL 125 BATK15 / 40 HUBS (2) 80x10
	48	226.70	229.40	219.60	105	125	16H7	AL 125 BATK15 / 48 HUBS (2) 140x10
60	284.00	286.70	276.90	105	125	16H7	AL 125 BATK15 / 60 HUBS (2) 160x10	

Other pulley sizes, pulley materials, or custom pulleys on request. Please contact BRECOflex-Engineering for further information.

NOTE: All pulleys must have same running direction! (To be considered with pulley modifications, i.e. hubs, counterbores, etc.)

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Flexibility BATK15 (Minimum number of teeth, minimum diameter)

Drive Type			Steel Cord		Stainless Steel Cord	
			M / BFX	V	M / BFX	V
	without back bending	z_{min}	20	25	25	25
		d_{min} (mm)	100	120	120	120
	with back bending	z_{min}	30	35	35	40
		d_{min} (mm)	150	180	180	190

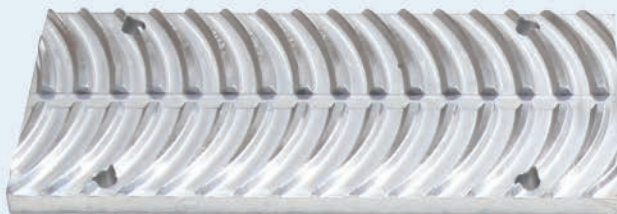
Clamps and Tensioners

For clamps and tensioning clamps, please contact BRECOflex-Engineering.

Clamps



Without Mounting Holes

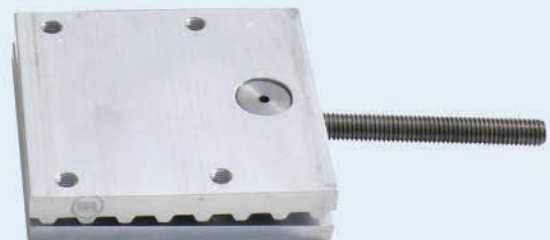


With Mounting Holes

Tensioning Clamps



With Slotted Mounting Holes



With Mounting Holes

Ordering example: Aluminum Pulleys AL 75 BATK15 / 27 HUBS (2) 58x10 dv=12H7

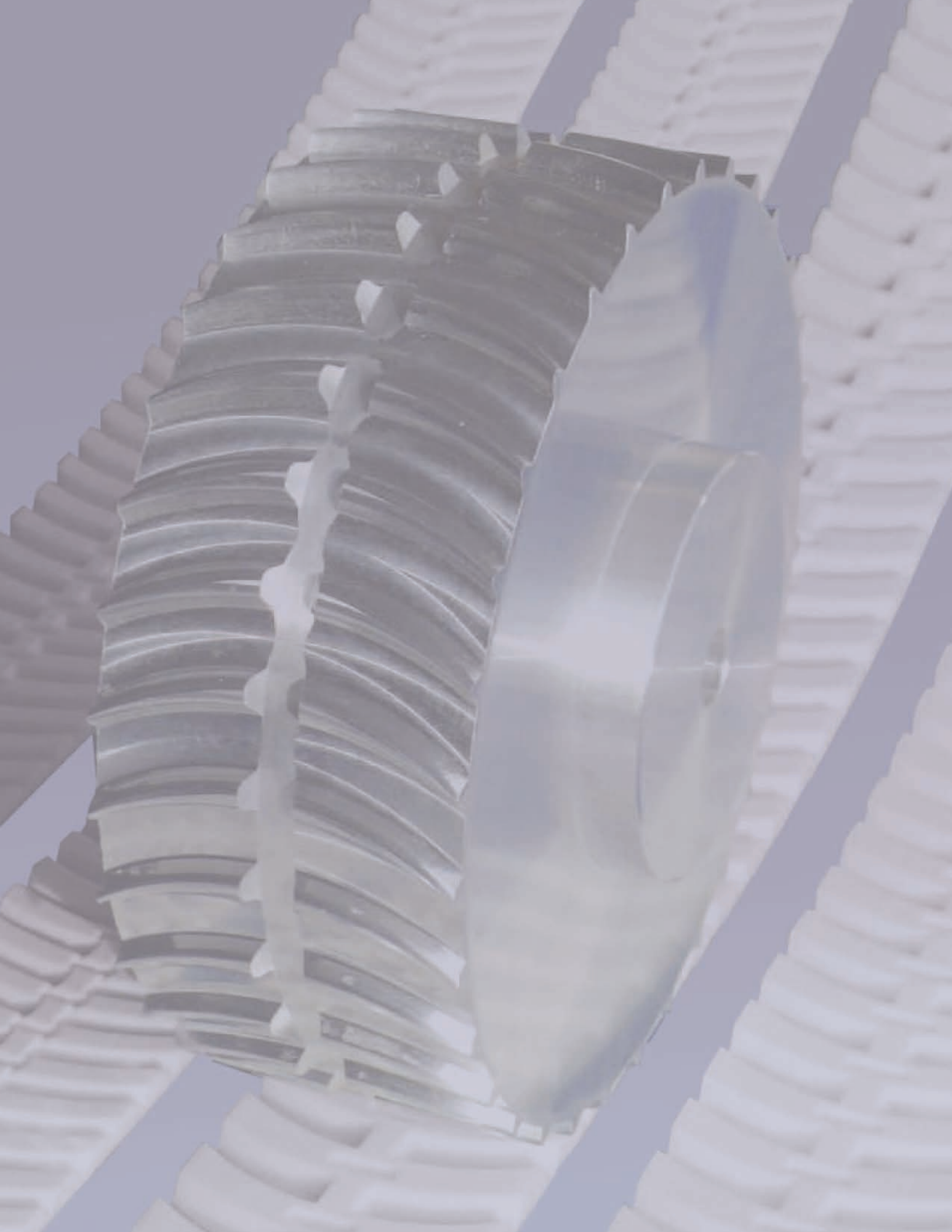
Aluminum Pulley _____
 Width over 2 Hubs _____
 Type/Pitch _____
 Number of Teeth _____
 Hub Dimensions _____
 Pilot Bore _____

TIMING BELT STANDARDS DEFINED

	Standard	Cold Flexible	FDA Conforming	
Material Combinations	TPU-ST1 ¹⁾ steel cord	TPU-KF1 steel cord	TPU-FDA1 ²⁾ stainless steel cord	TPU-AU1 ²⁾ stainless steel cord
Products	all belt types, BFX-belts > 720mm, profiles	all belt types, BFX-belts > 720mm, profiles	all belt types, all BFX-belt sizes, profiles	all belt types, BFX-belts > 720mm, profiles
Color	white (special colors available)	transparent	transparent	transparent
Hardness	92 Shore A	85 Shore A	92 Shore A	92 Shore A
Temperature Range	0°C to +80°C (+32°F to +176°F)	-25°C to +5°C (-13°F to +41°F)	0°C to +80°C (+32°F to +176°F)	0°C to +50°C (+32°F to +122°F)
Comment	great performance characteristics, suitable for most applications, standard material with steel cord	reduced strength during cold start up, high resistance to hydrolysis and bacteria	suitable for <u>intermittent</u> cleaning with diluted cleaning agents, meets FDA-Regulations	suitable for <u>continuous</u> cleaning with diluted cleaning agents, meets FDA-Regulations

¹⁾ TPU-ST1 with hi-flex tension member available

²⁾ Stainless steel cord in BRECOFLEX timing belts over 7500 mm on request



BRECOflex Product Catalogs

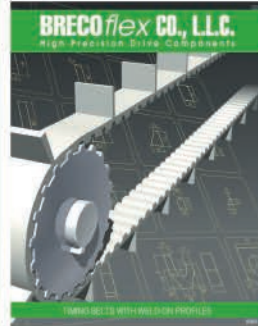
ISO 9001
CERTIFIED
COMPANY



Polyurethane Timing Belts

Industry leading polyurethane timing belts in Metric and English pitches. Widest range of available options.

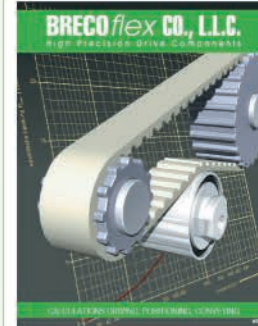
Catalog #B212



Polyurethane Timing Belts with Weld-on Profiles

Dividing, Stepping, Positioning.

Catalog #B203



Calculations Driving, Positioning, Conveying

Power, Torque, and Peripheral Force calculations.

Catalog #B204



Accessory Items for Polyurethane Timing Belts

Pulleys, Tensioners, Clamps, Tensioning Clamps.

Catalog #B205



Tension Meter

Improve Performance, lifetime, positioning accuracy, bearing load, and noise level.

Catalog #B207



Timing Belts Backings

Polyurethane Timing Belts in Metric and English pitches with a wide range of cover materials.

Catalog #B208



ATN® - Convertible Timing Belt System

ATN technology allows the reconfiguration of profiled timing belts at the customer site.

Catalog #B209



ESBAND Truly Endless Woven Flat Belts

Wide variety of Polyurethane, Neoprene and Silicone state-of-the-art flat belts.

Catalog #B210



Pulleys for Polyurethane and Neoprene Timing Belts

Finished pulleys and stock pulley program.

Catalog #B216



ARC-POWER Technology

ARC-POWER Technology Best Performing Timing Belts Available.

Catalog #B217

BRECOflex CO., L.L.C.

High Precision Drive Components

222 Industrial Way West • Eatontown • NJ 07724

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email: info@brecoflex.com

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