



Truly Endless "BFX"		Specifications			
	Widths (inches) <small>In between widths available</small>	32	50	75	100
	Lengths	See Standard Lengths Below Additional lengths available up to 22,000mm. In between lengths available starting at a minimum length of 1,100mm. 50mm wide belts start at a minimum length of 720mm.			
	Available Options	White Nylon coating tooth side (PAZ)			
	Tension Member Options	Steel standard Hi-flex steel VA301 Stainless steel VA316 Hi-flex Stainless steel Kevlar®			

### Minimum Number of Pulley Teeth and Idler Diameter

Pitch (mm)	Min. # of Pulley Teeth (no back bending)	Min. # of Pulley Teeth (with back bending)	Min. Diameter of Flat Idler running on tooth side (mm)	Min. Diameter of Flat Idler running on belt back (mm)
BATK10	20	25	60	120

### Standard Material

TPUST1<sup>®</sup>

### Product Performance

Power Transmission	Rotational Speed	Peripheral Speed	Synchronous Pulley	Applications (Example)
≤ 70 kW	ca. 10000 min <sup>-1</sup>	ca. 60 ms <sup>-1</sup>	ab z=15	Construction machines, pumps, paper-making machines, compressors, textile machines, roller-table drives

### Specifications

Timing Belt	Pitch (mm)	Code	Ultimate Tensile Strength (N/10mm belt width)	Maximum Allowable Tensile Strength (N/10mm belt width)	Specific Belt Stiffness Steel Reinforced (Per unit width/length)	Specific Belt Mass (per 10mm belt width, steel reinforced)
ARC-Power® Series	<b>BATK10</b>	BFX	6400	1600	4.00 x 10 <sup>5</sup> N	0.058 kg/m

### Standard Lengths

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

### Ordering Example: Polyurethane Timing Belt

[WIDTH] [PITCH] / [LENGTH] [CONSTRUCTION]  
**32** **BATK10** / **5000** **BFX**

## Stock Pulleys

Tooth Type	Number of Teeth	Outside Diameter	Pitch Circle Diameter	Face Width	Pilot Bore	Part Number
BATK10	z	d <sub>e</sub> (mm)	d <sub>0</sub> (mm)	B (mm)	d <sub>v</sub> (mm)	
BELT WIDTH = 32 mm	20	61.84	63.66	37	12	LS 47 BATK10 / 20-0 hubs(2) 46x5
	22	68.21	70.03	37	12	LS 47 BATK10 / 22-0 hubs(2) 53x5
	24	74.57	76.39	37	12	LS 47 BATK10 / 24-0 hubs(2) 57x5
	25	77.76	79.58	37	12	LS 47 BATK10 / 25-0 hubs(2) 59x5
	27	84.12	85.94	37	12	LS 47 BATK10 / 27-0 hubs(2) 64x5
	30	93.67	95.49	37	12	LS 47 BATK10 / 30-0 hubs(2) 73x5
	32	100.04	101.86	37	12	LS 47 BATK10 / 32-0 hubs(2) 80x5
	36	112.77	114.59	37	16	LS 47 BATK10 / 36-0 hubs(2) 92x5
	40	125.50	127.32	37	16	LS 47 BATK10 / 40-0 hubs(2) 105x5
	48	150.97	152.79	37	20	LS 47 BATK10 / 48-0 hubs(2) 130x5
BELT WIDTH = 50mm	20	61.84	63.66	55	12	LS 65 BATK10 / 20-0 hubs(2) 46x5
	22	68.21	70.03	55	12	LS 65 BATK10 / 22-0 hubs(2) 53x5
	24	74.57	76.39	55	12	LS 65 BATK10 / 24-0 hubs(2) 57x5
	25	77.76	79.58	55	12	LS 65 BATK10 / 25-0 hubs(2) 59x5
	27	84.12	85.94	55	12	LS 65 BATK10 / 27-0 hubs(2) 64x5
	30	93.67	95.49	55	12	LS 65 BATK10 / 30-0 hubs(2) 73x5
	32	100.04	101.86	55	12	LS 65 BATK10 / 30-0 hubs(2) 80x5
	36	112.77	114.59	55	16	LS 65 BATK10 / 36-0 hubs(2) 92x5
	40	125.50	127.32	55	16	LS 65 BATK10 / 40-0 hubs(2) 105x5
	48	150.97	152.79	55	20	LS 65 BATK10 / 48-0 hubs(2) 130x5
BELT WIDTH = 75mm	20	61.84	63.66	80	12	LS 90 BATK10 / 20-0 hubs(2) 46x5
	22	68.21	70.03	80	12	LS 90 BATK10 / 22-0 hubs(2) 53x5
	24	74.57	76.39	80	12	LS 90 BATK10 / 24-0 hubs(2) 57x5
	25	77.76	79.58	80	12	LS 90 BATK10 / 25-0 hubs(2) 59x5
	27	84.12	85.94	80	12	LS 90 BATK10 / 27-0 hubs(2) 64x5
	30	93.67	95.49	80	12	LS 90 BATK10 / 30-0 hubs(2) 73x5
	32	100.04	101.86	80	12	LS 90 BATK10 / 32-0 hubs(2) 80x5
	36	112.77	114.59	80	16	LS 90 BATK10 / 36-0 hubs(2) 92x5
	40	125.50	127.32	80	16	LS 90 BATK10 / 40-0 hubs(2) 105x5
	48	150.97	152.79	80	20	LS 90 BATK10 / 48-0 hubs(2) 130x5
BELT WIDTH = 100mm	20	61.84	63.66	105	12	LS 115 BATK10 / 20-0 hubs(2) 46x5
	22	68.21	70.03	105	12	LS 115 BATK10 / 22-0 hubs(2) 53x5
	24	74.57	76.39	105	12	LS 115 BATK10 / 24-0 hubs(2) 57x5
	25	77.76	79.58	105	12	LS 115 BATK10 / 25-0 hubs(2) 59x5
	27	84.12	85.94	105	12	LS 115 BATK10 / 27-0 hubs(2) 64x5
	30	93.67	95.49	105	12	LS 115 BATK10 / 30-0 hubs(2) 73x5
	32	100.04	101.86	105	12	LS 115 BATK10 / 32-0 hubs(2) 80x5
	36	112.77	114.59	105	16	LS 115 BATK10 / 36-0 hubs(2) 92x5
	40	125.50	127.32	105	16	LS 115 BATK10 / 40-0 hubs(2) 105x5
	48	150.97	152.79	105	20	LS 115 BATK10 / 48-0 hubs(2) 130x5
60	189.17	190.99	105	20	LS 115 BATK10 / 60-0 hubs(2) 169x5	

### Ordering Example: Stock Pulleys

[MATERIAL] [WIDTH OVER HUB] [PITCH] / [# OF TEETH] [# OF FLANGES] [HUB DIAMETER] [HUB WIDTH]

LS 115 BATK10 / 48 - 0 hub 130 x 5