

Truly Endless "BFX"

Specifications



Widths (mm) <small>In between widths available</small>	6	10	12	16	20	25	32	50	75	100
Lengths	See Standard Lengths Below <small>Additional lengths available up to 15,000mm. In between lengths available starting at a minimum length of 720mm.</small>									
Available Options	Nylon coating tooth side (PAZ), Double-sided (DL), Extra thickness (DR)									
Tension Member Options	Steel standard Hi-flex steel VA301 Stainless steel VA316 Hi-flex Stainless steel Kevlar®									

Product Performance

Power Transmission ≤ 5 kW	Rotational Speed Approx. 10000 min ⁻¹	Peripheral Speed Approx. 80 ms ⁻¹	Synchronous Pulley From z=10	Applications (Example) Office machinery, do-it-yourself units, positioning and regulating drives.
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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)
T-Series	T5	BFX	1572	393	9.83 x 10 ⁴ N	0.021 kg/m

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)
T5	10	15	30	30

Standard Material

Up to 690 mm	TPUST3
From 720 mm	TPUST1 ¹⁾

Standard Lengths

Pitch/Length Version	Number of Teeth	Pitch/Length Version	Number of Teeth	Pitch/Length Version	Number of Teeth	Pitch/Length Version	Number of Teeth
T5 / 100 SFX	20	T5 / 410 BFX	82	T5 / 765 SFX	153	T5 / 2000 BFX	400
T5 / 150 SFX	30	T5 / 420 BFX	84	T5 / 780 BFX	156	T5 / 2120 BFX	424
T5 / 165 SFX	33	T5 / 435 BFX	87	T5 / 800 BFX	160	T5 / 2240 BFX	448
T5 / 180 SFX	36	T5 / 455 BFX	91	T5 / 815 BFX	163	T5 / 2360 BFX	472
T5 / 185 SFX	37	T5 / 460 SFX	92	T5 / 840 BFX	168	T5 / 2500 BFX	500
T5 / 200 BFX	40	T5 / 480 BFX	96	T5 / 850 BFX	170	T5 / 2650 BFX	530
T5 / 210 SFX	42	T5 / 500 BFX	100	T5 / 860 BFX	172	T5 / 2800 BFX	560
T5 / 215 BFX	43	T5 / 505 SFX	101	T5 / 900 BFX	180	T5 / 3000 BFX	600
T5 / 220 BFX	44	T5 / 510 BFX	102	T5 / 925 SFX	185	T5 / 3150 BFX	630
T5 / 225 BFX	45	T5 / 525 BFX	105	T5 / 940 SFX	188	T5 / 3350 BFX	670
T5 / 240 BFX	48	T5 / 545 BFX	109	T5 / 945 BFX	189	T5 / 3550 BFX	690
T5 / 245 BFX	49	T5 / 550 SFX	110	T5 / 980 BFX	196	T5 / 3750 BFX	750
T5 / 250 SFX	50	T5 / 560 BFX	112	T5 / 990 BFX	198	T5 / 4000 BFX	800
T5 / 255 BFX	51	T5 / 575 BFX	115	T5 / 1040 BFX	208	T5 / 4250 BFX	850
T5 / 260 BFX	52	T5 / 590 SFX	118	T5 / 1075 BFX	215	T5 / 4500 BFX	900
T5 / 270 BFX	54	T5 / 610 BFX	122	T5 / 1100 BFX	220	T5 / 4750 BFX	950
T5 / 280 BFX	56	T5 / 620 BFX	124	T5 / 1160 BFX	232	T5 / 5000 BFX	1000
T5 / 295 BFX	59	T5 / 630 BFX	126	T5 / 1215 BFX	243	T5 / 5300 BFX	1060
T5 / 305 BFX	61	T5 / 650 SFX	130	T5 / 1315 BFX	263	T5 / 5600 BFX	1120
T5 / 330 BFX	66	T5 / 660 BFX	132	T5 / 1380 BFX	276	T5 / 6000 BFX	1200
T5 / 340 BFX	68	T5 / 690 BFX	138	T5 / 1400 BFX	280	T5 / 6300 BFX	1260
T5 / 355 BFX	71	T5 / 700 SFX	140	T5 / 1500 BFX	300	T5 / 6700 BFX	1340
T5 / 365 BFX	73	T5 / 720 BFX	144	T5 / 1600 BFX	320	T5 / 7100 BFX	1420
T5 / 370 BFX	74	T5 / 725 SFX	145	T5 / 1700 BFX	340	T5 / 7500 BFX	1500
T5 / 390 BFX	78	T5 / 750 BFX	150	T5 / 1800 BFX	360		
T5 / 400 BFX	80	T5 / 755 BFX	151	T5 / 1900 BFX	380		

Stock Pulleys

Tooth Type	Number of Teeth	Outside Diameter	Pitch Circle Diameter	Face Width	Pilot Bore	Part Number
T5	z	d _k (mm)	d _o (mm)	B (mm)	d _v (mm)	
BELT WIDTH = 10 mm	10	15.05	15.92	15	4	LS 21 T5-SE / 10-2 hub 8x6
	12	18.25	19.10	15	4	LS 21 T5-SE / 12-2 hub 12x6
	14	21.45	22.28	15	6	LS 21 T5-SE / 14-2 hub 14x6
	15	23.05	23.87	15	6	LS 21 T5-SE / 15-2 hub 16x6
	16	24.60	25.46	15	6	LS 21 T5-SE / 16-2 hub 18x6
	18	27.80	28.65	15	6	LS 21 T5-SE / 18-2 hub 20x6
	19	29.40	30.24	15	6	LS 21 T5-SE / 19-2 hub 22x6
	20	31.00	31.83	15	6	LS 21 T5-SE / 20-2 hub 24x6
	24	37.35	38.20	15	6	LS 21 T5 / 24-2 hub 26x6
	25	38.95	39.79	15	6	LS 21 T5 / 25-2 hub 26x6
	27	42.15	42.97	15	8	LS 21 T5 / 27-2 hub 30x6
	30	46.90	47.75	15	8	LS 21 T5 / 30-2 hub 34x6
	32	50.10	50.93	15	8	LS 21 T5 / 32-2 hub 38x6
	36	56.45	57.30	15	8	LS 21 T5 / 36-2 hub 38x6
	40	62.65	63.66	15	8	LS 21 T5 / 40-2 hub 40x6
48	75.55	76.39	15	8	LS 21 T5 / 48-0 hub 50x6	
60	94.65	95.49	15	8	LS 21 T5 / 60-0 hub 65x6	
BELT WIDTH = 16 mm	10	15.05	15.92	21	4	LS 27 T5-SE / 10-2 hub 8x6
	12	18.25	19.10	21	4	LS 27 T5-SE / 12-2 hub 12x6
	14	21.45	22.28	21	6	LS 27 T5-SE / 14-2 hub 14x6
	15	23.05	23.87	21	6	LS 27 T5-SE / 15-2 hub 16x6
	16	24.60	25.46	21	6	LS 27 T5-SE / 16-2 hub 18x6
	18	27.80	28.65	21	6	LS 27 T5-SE / 18-2 hub 20x6
	19	29.40	30.24	21	6	LS 27 T5-SE / 19-2 hub 22x6
	20	31.00	31.83	21	6	LS 27 T5-SE / 20-2 hub 24x6
	24	37.35	38.20	21	6	LS 27 T5 / 24-2 hub 26x6
	25	38.95	39.79	21	6	LS 27 T5 / 25-2 hub 26x6
	27	42.15	42.97	21	8	LS 27 T5 / 27-2 hub 30x6
	30	46.90	47.75	21	8	LS 27 T5 / 30-2 hub 34x6
	32	50.10	50.93	21	8	LS 27 T5 / 32-2 hub 38x6
	36	56.45	57.30	21	8	LS 27 T5 / 36-2 hub 38x6
	40	62.65	63.66	21	8	LS 27 T5 / 40-2 hub 40x6
48	75.55	76.39	21	8	LS 27 T5 / 48-0 hub 50x6	
60	94.65	95.49	21	8	LS 27 T5 / 60-0 hub 65x6	
BELT WIDTH = 25 mm	10	15.05	15.92	30	4	LS 36 T5-SE / 10-2 hub 8x6
	12	18.25	19.10	30	4	LS 36 T5-SE / 12-2 hub 12x6
	14	21.45	22.28	30	6	LS 36 T5-SE / 14-2 hub 14x6
	15	23.05	23.87	30	6	LS 36 T5-SE / 15-2 hub 16x6
	16	24.60	25.46	30	6	LS 36 T5-SE / 16-2 hub 18x6
	18	27.80	28.65	30	6	LS 36 T5-SE / 18-2 hub 20x6
	19	29.40	30.24	30	6	LS 36 T5-SE / 19-2 hub 22x6
	20	31.00	31.83	30	6	LS 36 T5-SE / 20-2 hub 24x6
	24	37.35	38.20	30	6	LS 36 T5 / 24-2 hub 26x6
	25	38.95	39.79	30	6	LS 36 T5 / 25-2 hub 26x6
	27	42.15	42.97	30	8	LS 36 T5 / 27-2 hub 30x6
	30	46.90	47.75	30	8	LS 36 T5 / 30-2 hub 34x6
	32	50.10	50.93	30	8	LS 36 T5 / 32-2 hub 38x6
	36	56.45	57.30	30	8	LS 36 T5 / 36-2 hub 38x6
	40	62.65	63.66	30	8	LS 36 T5 / 40-2 hub 40x6
48	75.55	76.39	30	8	LS 36 T5 / 48-0 hub 50x6	
60	94.65	95.49	30	8	LS 36 T5 / 60-0 hub 65x6	

Ordering Example: Stock Pulleys

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

LS 36 T5 / 40 - 2 hub 40 x 6