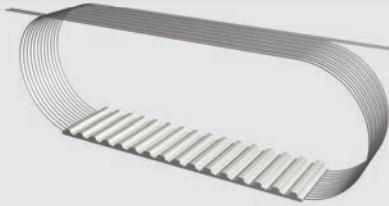


## Truly Endless "BFX"

## Specifications



<b>Widths (inches)</b> <small>In between widths available</small>	.5	.75	1.0	1.5	2.0	3.0	4.0
<b>Widths (mm)</b>	12.7	19.05	25.4	38.1	50.8	76.2	101.6
<b>Lengths</b>	See Standard Lengths Below Additional lengths available up to 16,002mm (630"). In between lengths available starting at a minimum length of 723.9mm (28.5").						
<b>Available Options</b>	Nylon coating tooth side (PAZ), Polyurethane cover (T-cover), Double-sided (DL), Extra thickness (DR)						
<b>Tension Member Options</b>	Steel standard Hi-flex steel VA301 Stainless steel VA316 Hi-flex Stainless steel						

## Product Performance

Power Transmission	Rotational Speed	Peripheral Speed	Synchronous Pulley	Applications (Example)
≤ 30 kW	Approx. 10000 min <sup>-1</sup>	Approx. 60 ms <sup>-1</sup>	From z=12	Machine tools, main and subsidiary drives, textile machines, printing machinery

## 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)
Imperial Series	H (T1/2")	BFX	3108	777	1.94 x 10 <sup>5</sup> N	0.043 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)
H (T1/2")	14	20	60	80

## Standard Material

From 723.9 mm	TPUST1 <sup>1)</sup>
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## Standard Lengths

Pitch/Length Version	Length in mm	Number of Teeth	Pitch/Length Version	Length in mm	Number of Teeth	Pitch/Length Version	Length in mm	Number of Teeth
285 H	723.9	57	480 H	1219.2	96	900 H	2286.0	180
300 H	762.0	60	510 H	1295.4	102	1000 H	2540.0	200
315 H	800.1	63	540 H	1371.6	108	1100 H	2794.0	220
330 H	838.2	66	570 H	1447.8	114	1250 H	3175.0	250
345 H	876.3	69	600 H	1524.0	120	1400 H	3556.0	280
360 H	914.4	72	630 H	1600.2	126	1700 H	4318.0	340
375 H	952.5	75	660 H	1676.4	132	2000 H	5080.0	400
390 H	990.6	78	700 H	1778.0	140	2300 H	5842.0	460
405 H	1028.7	81	750 H	1905.0	150	2600 H	6604.0	520
420 H	1066.8	84	800 H	2032.0	160	3000 H	7620.0	600
450 H	1143.0	90	850 H	2159.0	170			

## Ordering Example: Polyurethane Timing Belt

[WIDTH] [PITCH] / [LENGTH] [CONSTRUCTION]

EX 1: 50.8 T1/2" / 1905 BFX

EX 2: 750 H / 200 BFX

## Stock Pulleys

Tooth Type	Number of Teeth	Outside Diameter	Pitch Circle Diameter	Face Width	Pilot Bore	Part Number
T5	z	d <sub>k</sub> (mm)	d <sub>0</sub> (mm)	B (mm)	d <sub>v</sub> (mm)	
BELT WIDTH = 25.4 mm	14	55.23	56.60	32	12	LS 42 T1/2" / 14-2 hub 40x10
	16	63.31	64.68	32	15	LS 42 T1/2" / 16-2 hub 46x10
	18	71.39	72.77	32	15	LS 42 T1/2" / 18-2 hub 54x10
	20	79.48	80.85	32	15	LS 42 T1/2" / 20-2 hub 62x10
	22	87.56	88.94	32	15	LS 42 T1/2" / 22-2 hub 70x10
	24	95.65	97.02	32	15	LS 42 T1/2" / 24-2 hub 75x10
	26	103.73	105.11	32	15	LS 42 T1/2" / 26-2 hub 75x10
	28	111.82	113.19	32	15	LS 42 T1/2" / 28-2 hub 75x10
	30	119.90	121.28	32	15	LS 42 T1/2" / 30-2 hub 80x10
	32	127.99	129.36	32	20	LS 42 T1/2" / 32-2 hub 85x10
BELT WIDTH = 38.1 mm	14	55.23	56.60	44	12	LS 54 T1/2" / 14-2 hub 40x10
	16	63.31	64.68	44	15	LS 54 T1/2" / 16-2 hub 46x10
	18	71.39	72.77	44	15	LS 54 T1/2" / 18-2 hub 54x10
	20	79.48	80.85	44	15	LS 54 T1/2" / 20-2 hub 62x10
	22	87.56	88.94	44	15	LS 54 T1/2" / 22-2 hub 70x10
	24	95.65	97.02	44	15	LS 54 T1/2" / 24-2 hub 75x10
	26	103.73	105.11	44	15	LS 54 T1/2" / 26-2 hub 75x10
	28	111.82	113.19	44	15	LS 54 T1/2" / 28-2 hub 75x10
	30	119.90	121.28	44	15	LS 54 T1/2" / 30-2 hub 80x10
	32	127.99	129.36	44	20	LS 54 T1/2" / 32-2 hub 85x10
BELT WIDTH = 50.8 mm	14	55.23	56.60	59	12	LS 69 T1/2" / 14-2 hub 40x10
	16	63.31	64.68	59	15	LS 69 T1/2" / 16-2 hub 46x10
	18	71.39	72.77	59	15	LS 69 T1/2" / 18-2 hub 54x10
	20	79.48	80.85	59	15	LS 69 T1/2" / 20-2 hub 62x10
	22	87.56	88.94	59	15	LS 69 T1/2" / 22-2 hub 70x10
	24	95.65	97.02	59	15	LS 69 T1/2" / 24-2 hub 75x10
	26	103.73	105.11	59	15	LS 69 T1/2" / 26-2 hub 75x10
	28	111.82	113.19	59	15	LS 69 T1/2" / 28-2 hub 75x10
	30	119.90	121.28	59	15	LS 69 T1/2" / 30-2 hub 80x10
	32	127.99	129.36	59	20	LS 69 T1/2" / 32-2 hub 85x10
BELT WIDTH = 76.2 mm	14	55.23	56.60	84	12	LS 96 T1/2" / 14-2 hub 40x12
	16	63.31	64.68	84	15	LS 96 T1/2" / 16-2 hub 46x12
	18	71.39	72.77	84	15	LS 96 T1/2" / 18-2 hub 54x12
	20	79.48	80.85	84	15	LS 96 T1/2" / 20-2 hub 62x12
	22	87.56	88.94	84	15	LS 96 T1/2" / 22-2 hub 70x12
	24	95.65	97.02	84	15	LS 96 T1/2" / 24-2 hub 75x12
	26	103.73	105.11	84	15	LS 96 T1/2" / 26-2 hub 75x12
	28	111.82	113.19	84	15	LS 96 T1/2" / 28-2 hub 75x12
	30	119.90	121.28	84	15	LS 96 T1/2" / 30-2 hub 80x12
	32	127.99	129.36	84	20	LS 96 T1/2" / 32-2 hub 85x12
	36	144.16	145.53	84	20	LS 96 T1/2" / 36-2 hub 90x12
	40	160.33	161.70	84	20	LS 96 T1/2" / 40-2 hub 95x12

### Ordering Example: Stock Pulleys

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

LS 96 T(1/2") / 36 - 2 hub 90 x 12