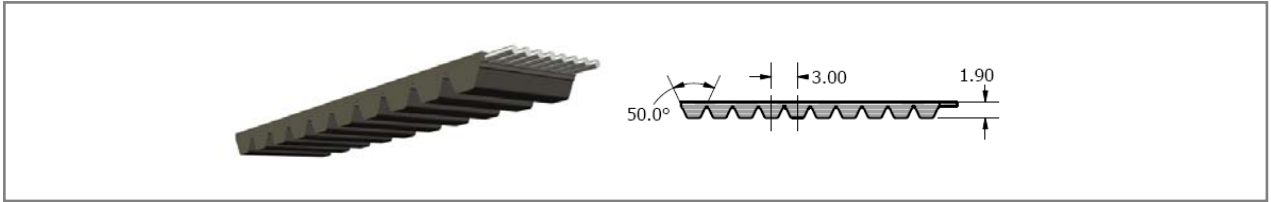


AT3 Pitch Timing Belt

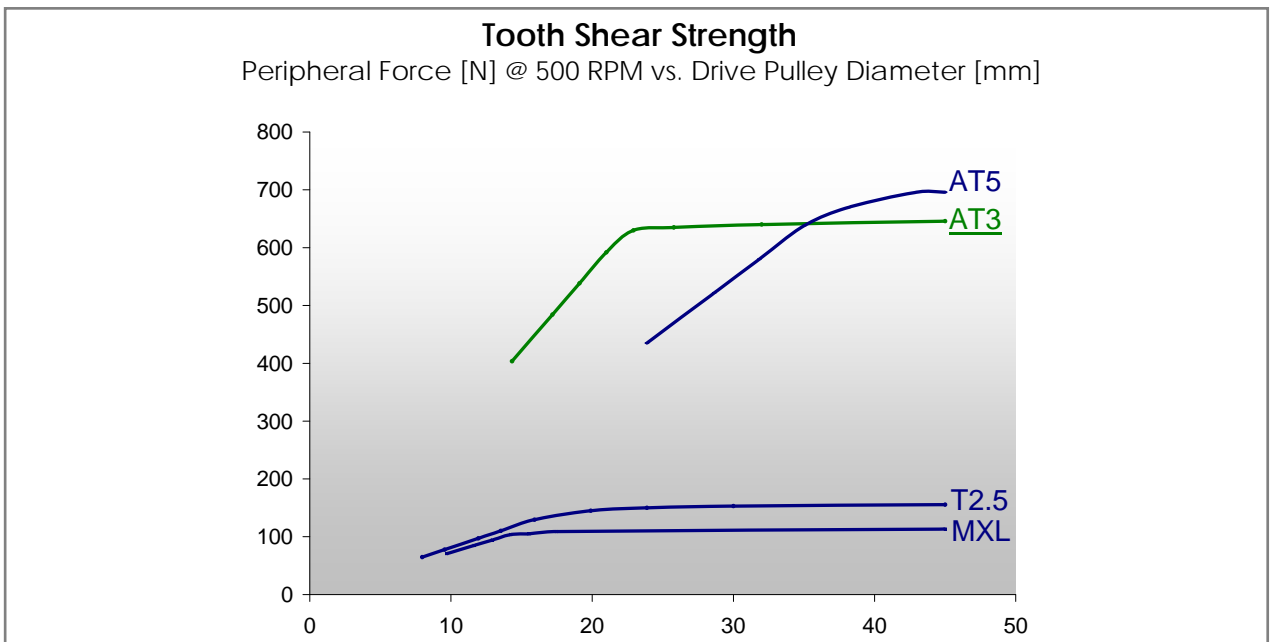
High power, high speed capabilities for small-scale systems



BRECOflex CO. L.L.C. introduces a complete product offering for high power, high speed, and small scale linear drives and power transmission applications.

Advantages include:

- Higher tensile and tooth shear strength than the MXL and T2.5 pitches.
- Smoother engagement and less polygonal effect than the T5 and AT5 pitches due to higher flexibility and an increased number of teeth in mesh.
- Less standard backlash than any other pitch.
- High belt stiffness and optional zero backlash pulleys allow for high precision and positioning accuracy.
- Bifilar cord arrangement for optimum tracking and unsurpassed belt life outperforms competitor's spiral-slit linear drive belts.



Conclusions(graph):

- AT3 tooth shear strength is higher compared to AT5 when utilizing pulleys smaller than 35 mm. (increased number of teeth in mesh)
- AT3 tooth shear strength is more than four times higher than MXL and T2.5.

Belts are available in:

Open Ended - M:

- Open ended is offered in standard widths of 6, 8, 10, 12, 16, 20 and 25 mm wide.
- Ideal for small scale and/or high speed linear drive applications

Welded - V:

- Cost effective solution ideal for small scale conveying.

(continued on the next page)

AT3 Pitch Timing Belt

Truly Endless – BFX:

- AT3 is available in truly endless lengths from 150 mm to 1710 mm, with in-between lengths available from 720 mm to 1710 mm.
- BFX is offered in standard widths of 6, 8, 10, 12, 16, 20, 25, 32, 50, 75 and 100mm.
- Ideal for small scale high speed power transmission applications.

Standard Truly Endless Lengths - BFX					
Pitch/Length Version	Number of Teeth	Pitch/Length Version	Number of Teeth	Pitch/Length Version	Number of Teeth
AT3/150 SFX	50	AT3/501 SFX	167	AT3/1017 BFX	339
AT3/201 SFX	67	AT3/549 SFX	183	AT3/1116 BFX	372
AT3/252 SFX	84	AT3/600 SFX	200	AT3/1215 BFX	405
AT3/267 SFX	89	AT3/639 SFX	213	AT3/1314 BFX	438
AT3/270 SFX	90	AT3/720 BFX	240	AT3/1413 BFX	471
AT3/300 SFX	100	AT3/816 SFX	272	AT3/1512 BFX	504
AT3/351 SFX	117	AT3/819 BFX	273	AT3/1611 BFX	537
AT3/399 SFX	133	AT3/900 SFX	300	AT3/1710 BFX	570
AT3/417 SFX	139	AT3/918 BFX	306		
AT3/450 SFX	150	AT3/1011 SFX	337		

Available Options



- Nylon tooth facing (PAZ) is available in M, V and BFX (BFX belts > 720 mm long).
- Stainless steel tension cords are available.

Pulleys and Clamps:

- Reduced and zero backlash pulleys are available for bidirectional applications.
- Stock pulleys are available for 6, 10, 16 mm belt widths and clamp plates for 10, 20, and 25 mm.
- Custom pulleys and clamps are offered as per customer specifications.

See our online calculation program for belt layout and power transmission or linear drive sizing at www.brecoflex.com.

Maximum Allowable Tensile Strength							
Belt Width	mm	6	10	16	25	50	100
Truly Endless - BFX (Steel cord)	N	190	440	645	1100	2200	4400
Truly Endless - BFX (Stainless Cord)	N	152	352	516	880	1760	3520
Open Ended - M (Steel cord)	N	240	400	640	1000	-	-
Open Ended - M (Stainless cord)	N	192	320	512	800	-	-

Flexibility, minimum number of pulley teeth, minimum idler diameter			
		Steel Cord	Stainless Cord
No back bending 	minimum number of teeth	15	20
	minimum diameter [mm]	20	30
Back bending 	minimum number of teeth	20	30
	minimum diameter [mm]	20	40