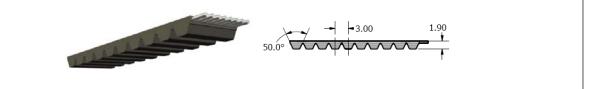
## BRECO*flex* CO., L.L.C.

## AT3 Pitch Timing Belt

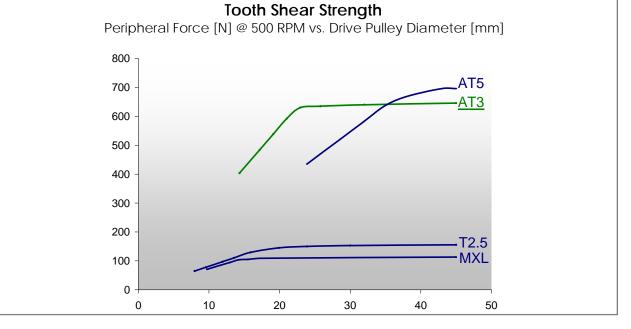
High power, high speed capabilities for small-scale systems



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)

Engineering

## 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	Number of	Pitch/Length	Number of	Pitch/Length	Number of			
Version	Teeth	Version	Teeth	Version	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 <u>www.brecoflex.com</u>.

Maximum Allowable Tensile Strength								
Belt Width	mm	6	10	16	25	50	100	
Truly Endless - BFX (Steel cord)	Ν	190	440	645	1100	2200	4400	
Truly Endless - BFX (Stainless Cord)	Ν	152	352	516	880	1760	3520	
Open Ended - M (Steel cord)	Ν	240	400	640	1000	-	-	
Open Ended - M (Stainless cord)	Ν	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				
000	minimum diameter [mm]	20	30				
Back bending	minimum number of teeth	20	30				
	minimum diameter [mm]	20	40				

letin Doc 1(

222 Industrial Way West • Eatontown, NJ 07724 Phone (732)460-9500 • Fax (732)542-6725 info@brecoflex.com • www.brecoflex.com