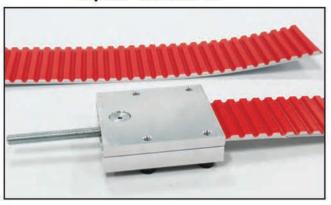
BRECO flex CO., L.L.C. High Precision Drive Components

move-series

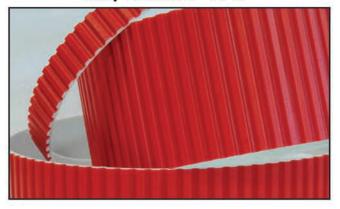
The New Generation of Timing Belts.

Unprecedented Cord Strength
Optimized Tooth Geometry
Low Friction Tooth Facing

Open-ended-M



Truly Endless - BFX



move-series is a superior strength timing belt designed for high-performance drives. It is available as open-ended code M for linear drive applications and truly endless code BFX for power transmission applications.

This new generation of timing belt delivers the power that modern applications require, with custom-engineered steel cord tension members and tooth geometry optimized-through 3D motion FEA. This allows for up to 75% more tensile strength and reduces areas of high stress.

move-series provides a durable solution, with a friction-optimizing laminate coating to minimize wear and increase service life.

move-series affords space and cost savings. With a higher transmittable force, belt drives can be more compact and powerful.

Advantages of move-series

- 75% higher stiffness and tensile strength
- 30% higher transmittable force
- permits reducing the belt width by one standard size
- narrower drive reduces drive inertia and noise
- reduced wear and increased service life
- more chain to belt conversions possible
- Significantly increases safety factor when staying with original width

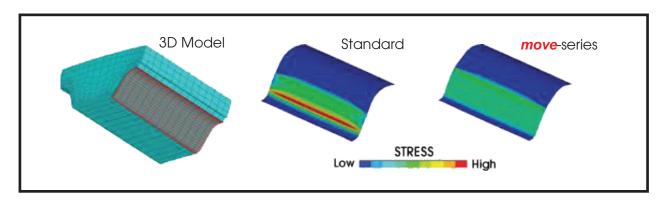
Unprecedented Cord Strength

Custom-engineered steel cord tension members deliver up to 75% more tensile strength compared to standard AT10 tension member.

AT10-move Belt Specifications										
		Belt width	25	32	50	75	100			
M open-ended	AT10-move Tension Member	F _{zul} [N]	7395	9135	14790	22185	29580			
	Specific Elasticity	C _{spec} [N]	1.85 - 10 ⁶	2.28 - 10 ⁶	3.70 - 10 ⁶	5.55 - 10 ⁶	7.40 - 10 ⁶			
	Belt Weight	[kg/m/cm]	0.070 kg per meter of belt lenght per cm of belt wid							
BFX	AT10-move Tension Member	F _{zul} [N]	6750	8625	13470	20200	26940			
truly endless	Belt Weight	[kg/m/cm]	0.069 kg per meter of belt length per cm of belt							

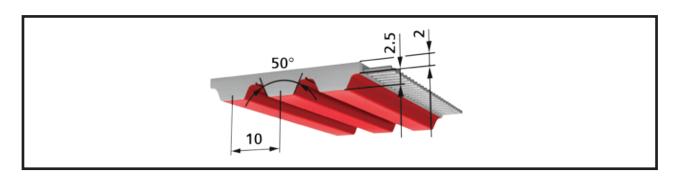
Optimized Tooth Geometry

A belt drive is often limited by the tooth shear strength. To reduce this limitation, the current tooth geometry was analyzed through 3D motion FEA (Finite Element Analysis). With this information, an optimized tooth geometry was designed to reduce areas of high stress. This results in allowable belt loads that are 30% greater than other AT10 designs. This optimal tooth geometry works with industry standard AT10 pulleys and outperforms when paired with high precision BRECOflex pulleys. NOTE: BRECOflex CO., L.L.C. highly recommends the use of hard anodized aluminum pulleys for the longest service life.



Low Friction Tooth Facing

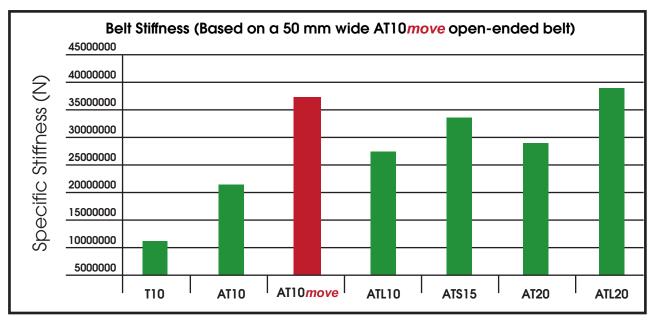
Another unique property of the **move** timing belts is a special laminate coating that is used to further reduce friction between belt and pulley. This minimizes wear and ensures quiet tooth engagement, and smooth running.

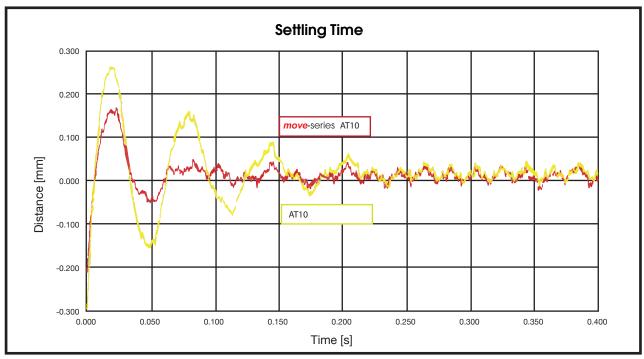


Unprecedented Stiffness

Belt stiffness is the most important parameter in linear drives and is often the limit of drive accuracy. High **move** stiffness provides reduced settling times over the standard AT10. When combined with our zero-backlash drive pulleys no belt comes close to the precision of **move** timing belts.

move AT10 Flexibility (minimum tooth count/minimum diameter)									
$Z_{\scriptscriptstyle min}$ $d_{\scriptscriptstyle min}$	000	No back bending	Z_{min} Q_{min} [mm]	18 60					
$Z_{\scriptscriptstyle min} \ d_{\scriptscriptstyle min}$	000	With back bending	Z_{min} $d_{min}[mm]$	25 120					





Truly Endless "BFX" Specifications

Standard Lengths (mm)												
720	980	1240	1600	1900	2240	2650	3150	3750	4500	5300	6300	7500
780	1080	1400	1700	2000	2360	2800	3350	4000	4750	5600	6700	8000
840	1150	1500	1800	2120	2500	3000	3550	4250	5000	6000	7100	9000
In-between lengths available from 1400 to 30500m												

AT10 move - BFX Tooth shear strength (specific belt tooth load bearing)									
R.P.M. n [min ⁻¹]	F _{USPEC} [N/cm]	M _{SPEC} [Ncm/cm]	P _{SPEC} [W/cm]	R.P.M. n [min ⁻¹]	F _{USPEC} [N/cm]	M _{SPEC} [Ncm/cm]	P _{SPEC} [W/cm]		
0	113.2	18.02	0.000	2000	62.1	9.89	20.698		
20	111.5	17.76	0.371	2200	60.1	9.55	22.022		
40	110.0	17.51	0.733	2400	58.2	9.26	23.254		
60	118.6	17.26	1.086	2600	56.4	8.98	24.424		
80	107.2	17.05	1.429	2800	54.7	8.72	25.533		
100	105.8	16.85	1.763	3000	53.1	8.47	26.596		
200	100.1	15.94	3.342	3200	51.7	8.24	27.597		
300	95.6	15.22	4.774	3400	50.4	8.01	28.536		
400	91.6	14.60	6.114	3600	49.1	7.81	29.429		
500	88.4	14.06	7.361	3800	47.9	7.61	30.292		
600	85.5	13.60	8.547	4000	46.7	7.42	31.108		
700	82.7	13.17	9.656	4500	43.9	6.99	32.956		
800	80.4	12.80	10.718	5000	41.4	6.61	34.650		
900	78.2	12.44	11.735	5500	39.3	6.25	36.036		
1000	76.2	12.14	12.705	6000	37.3	5.93	37.268		
1100	74.4	11.84	13.644	6500	35.4	5.62	38.346		
1200	72.7	11.57	14.538	7000	33.6	5.34	39.270		
1300	71.1	11.32	15.400	7500	32.0	5.08	40.040		
1400	69.6	11.07	16.232	8000	30.4	4.85	40.656		
1500	68.2	10.84	17.048	8500	29.0	4.62	41.118		
1600	66.8	10.64	17.818	9000	27.6	4.40	41.426		
1700	65.6	10.44	18.572	9500	26.4	4.19	41.734		
1800	64.4	10.24	19.312	10000	25.1	4.00	41.888		
1900	63.1	10.06	20.020						

Ordering Example:

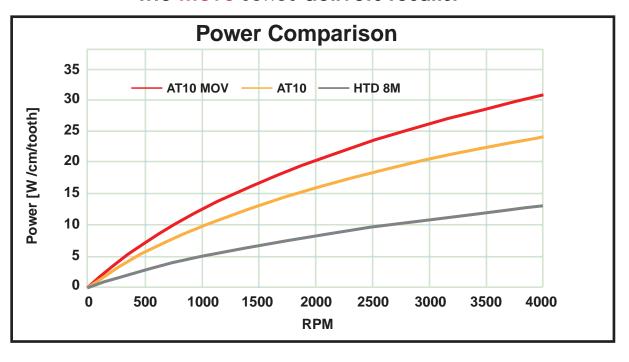
32 AT10 MOV / 1500 BFX

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

Open-Ended "M" Specifications

AT10 move - M										
R.P.M. n [min -1]	F _{USPEC} [N/cm]	R.P.M. n [min -1]	F _{USPEC} [N/cm]	R.P.M. n [min ⁻¹]	F _{USPEC} [N/cm]	R.P.M. n [min ⁻¹]	F _{USPEC} [N/cm]			
0	113.2	800	80.4	2000	62.1	5000	41.4			
20	111.5	900	78.2	2200	60.1	5500	39.3			
40	110.0	1000	76.2	2400	58.2	6000	37.3			
60	118.6	1100	74.4	2600	56.4	6500	35.4			
80	107.2	1200	72.7	2800	54.7	7000	33.6			
100	105.8	1300	71.1	3000	53.1	7500	32.0			
200	100.1	1400	69.6	3200	51.7	8000	30.4			
300	95.6	1500	68.2	3400	50.4	8500	29.0			
400	91.6	1600	66.8	3600	49.1	9000	27.6			
500	88.4	1700	65.6	3800	47.9	9500	26.4			
600	85.5	1800	64.4	4000	46.7	10000	25.1			
700	82.7	1900	63.1	4500	43.9					

The move-series delivers results!



Ordering Example:

32 AT10 MOV / 1500 M

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

Online Drive Sizing Calculator

Find out today how the BRECO flex CO., L.L.C. move-series brings the future of high performance timing belts to your drive application. To view the online drive sizing calculator go to www.brecoflex.com/engineering-support/calculations-program/.





Join the **move**-ment! For FREE engineering support call (732)460-9500, prompt #6 or email eng@brecoflex.com.

For orders and price quotes contact customer service at (732)460-9500, prompt #4 or email cs@brecoflex.com.

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