

BRECOFLEXmove -
More Power. Optimized tooth form. Versatile usable. Efficient.

BRECOFLEXmove - timing belts
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BRECOFLEXmove, that is

- a newly developed tension member for transmission of stronger forces
- a FEM-optimised tooth flank geometry
- minimised wear due to a laminate coating
- a space saver due to the option of choosing a narrower belt width



All of the relevant technical details about BRECOFLEXmove and its wide-ranging applications can be obtained from your BRECO sales partner.



BRECOFLEXmove AT10

The **BRECOFLEXmove** is a timing belt specifically designed for high-performance drives and traction drives with a particularly high stiffness requirement. A newly developed steel cord tension member increases belt stiffness and tear-resistance, making transmission of stronger forces possible. The tooth flank geometry has been optimised through the Finite Element Method (FEM). This leads to an optimisation of the contact pressure distribution and reduces the work of friction between the timing belts and tooth washer, thus minimising wear. In addition, a friction-optimised laminate coating is applied to the tooth side.

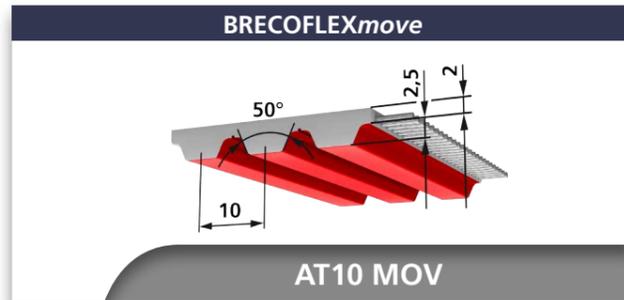
Selecting a narrower **BRECOFLEXmove** timing belt as an alternative to an endless standard timing belt makes a more compact drive design possible.

Your local BRECO sales partner can provide further information.



BRECO is member of Mulco Europe EWIV





Belt widths b [mm] (in-between belt widths on request)				
25	32	50	75	100

BRECOFLEXmove AT10 MOV	Available lengths and versions
Standard delivery lengths	see table on the right
Any number of teeth available from	1.400 - 30.500 mm
Intermediate lengths	Minimum order number on request
Standard material	TPUST1
move-tension member (Standard)	Steel
E-tension member	not available
VA-tension member	not available
Laminate coating on the tooth side (standard)	red
Belt colour	white / red

BRECOFLEXmove 75 AT10 MOV 2650

Width b

Type/pitch

Length in mm

Standard lengths [mm] / Number of teeth			
Length	Number of teeth	Length	Number of teeth
720	72	3000	300
780	78	3150	315
840	84	3350	335
980	98	3550	355
1080	108	3750	375
1150	115	4000	400
1240*	124	4250	425
1400	140	4500	450
1500	150	4750	475
1600	160	5000	500
1700	170	5300	530
1800	180	5600	560
1900	190	6000	600
2000	200	6300	630
2120	212	6700	670
2240	224	7100	710
2360	236	7500	750
2500	250	8000	800
2650	265	9000	900
2800	280		

* Expected availability from spring 02/2016

BRECOFLEXmove AT10 MOV				Tooth shear strength (specific belt tooth load bearing)			
R.p.m.	F _{Uspez}	M _{spec}	P _{spec}	R.p.m.	F _{Uspez}	M _{spec}	P _{spec}
n [min ⁻¹]	[N/cm]	[Ncm/cm]	[W/cm]	n [min ⁻¹]	[N/cm]	[Ncm/cm]	[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	108,6	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				

BRECOFLEXmove AT10 MOV		Admissible tension cord strength F _{zul} / Belt weight				
Belt width	b [mm]	25	32	50	75	100
move tension member	F _{zul} [N]	6750	8625	13470	20200	26940
Belt weight	[kg/m]	0,173	0,222	0,347	0,520	0,693

BRECOFLEXmove AT10 MOV		Flexibility (minimum tooth count/minimum diameter)	
		move-Zugträger	
		Standard	
	Without contraflexure	z _{min}	18
		d _{min} [mm]	50
	With contraflexure	z _{min}	25
		d _{min} [mm]	120