

BRECO*vacuum* - timing belt

[powerfull suction & irresistible]

BRECO*vacuum*, that is

- product transport by negative pressure.
- a system all "made in one piece".
- systematic combination of drive tracks, suction channels and sealing strips.
- reduction of signs of wear and tear and increase in the service life of the system.



BRECO*vacuum*:

In a large number of applications, products such as foils, paper, glass panes or thin sheet metal are attached to a timing belt per negative pressure and transported. The timing belts and associated components used for this, are almost always special developements by design engineers and application engineers. Everyone develops their own system, consisting of timing belts, toothed pulleys and suction and sliding rails.

The new product with the name BRECO*vacuum*, takes a different path. BRECO has developed a toothed belt and pulley system that combines the drive tracks, i.e. the tothing, the suction channels and the necessary sealing strips. A coordinated component system is available. The geometries of the individual parts of the pulley are precisely matched to the suction area on the timing belt. In this way, for example, wear and tear due to poor tolerance coordination between the two elements is avoided and the service life of the system is increased.

As a result of the almost complete production of the BRECO*vacuum* in the extrusion process, there will be cost advantages compared to belts produced step-by-step. BRECO currently offers the system in the AT10 version in two widths, 50 mm and 75 mm belt width.



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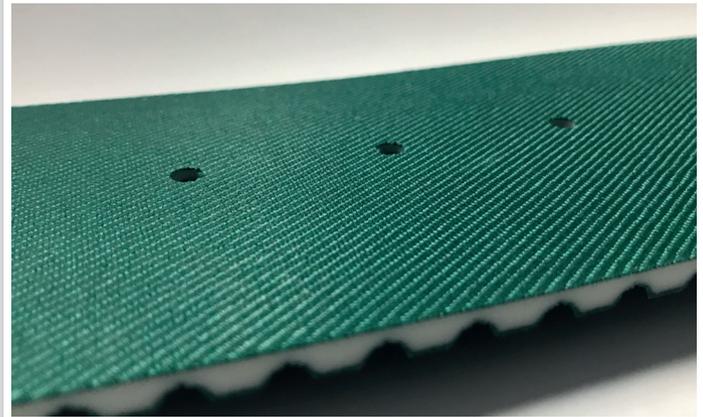
[powerfull suction & irresistible]

the BRECOvacuum

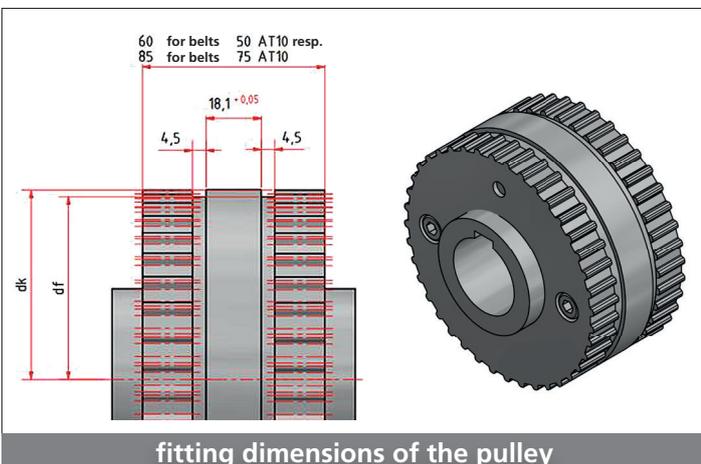


AT 10 VAC

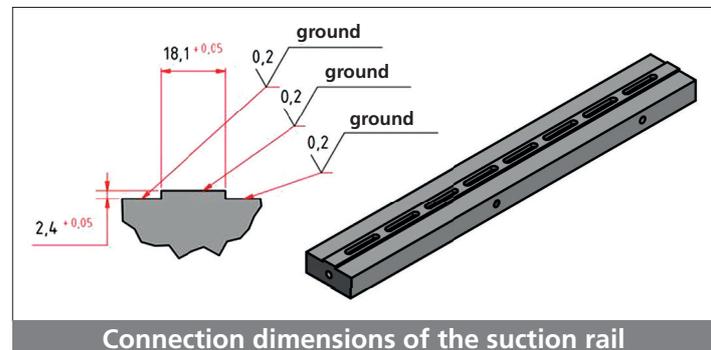
the BRECOvacuum



AT 10 VAC



fitting dimensions of the pulley



Connection dimensions of the suction rail

AT10 VAC (M/V)	Available length and versions
Belt width b	50 + 75 mm
Standard delivery lengths (M)	-
Cut to lengths / lengths > 100 m	-
Minimum length joined (V)	1200 mm
Standard material	TPUST1 ¹⁾
Steel tension member (Standard)	standard in the toothed area
E tension member	-
Stainless steel tension member	standard in the vacuum area
PAZ	green / fine
PAR	green / rough
Nylon facing in the vacuum ares	black
Diameter of the suction holes	≤ 4 mm



- x available
- o minimum purchase amount on request
- not available
- ¹⁾ further material on request



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BRECOvacuum AT10 (M/V)		Specific tooth force	
R.p.m. n [min ⁻¹]	F _{tspez} [N/cm] b=50 mm	F _{tspez} [N/cm] b=75 mm	
0	36.8	55.4	
20	36.2	54.6	
40	35.7	53.8	
60	35.2	53.1	
80	34.8	52.4	
100	34.4	51.8	
200	32.5	49.0	
300	31.0	46.8	
400	29.8	44.9	
500	28.7	43.3	

BRECOvacuum AT10 (M/V)		Admissible tension cord strength F _{tadm} / Spec. elasticity / Belt weight		
Belt width		b [mm]	50	75
M	E- / Steel tension member	F _{Tzul} [N]	2500	4500
	Spec. elasticity (E-/Steel tension member)	C _{spez} [N]	1.25 · 10 ⁶	2.24 · 10 ⁶
	Stainless steel tension member	F _{Tzul} [N]	1860	3350
	Spec. elasticity (steel tension member)	C _{spez} [N]	1.25 · 10 ⁶	2.24 · 10 ⁶
V	E- / Steel tension member	F _{Tzul} [N]	1250	2250
	Stainless steel tension member	F _{Tzul} [N]	930	1675
Belt weight	Standard	[kg/m]	0.255	0.413

BRECOvacuum AT10 (M/V)			Flexibility (minimum number of teeth / minimum diameter)											
			Steel tension member				E tension member				Stainless teel tension member			
			Standard	DL	DR	T	Standard	DL	DR	T	Standard	DL	DR	T
 z _{min} d _{min}	without contra- flexure	z _{min}	38	-	-	-	-	-	-	-	38	-	-	-
		d _{min} [mm]	120	-	-	-	-	-	-	-	120	-	-	-
 z _{min} d _{min}	with contra- flexure	z _{min}	47	-	-	-	-	-	-	-	47	-	-	-
		d _{min} [mm]	150	-	-	-	-	-	-	-	150	-	-	-

