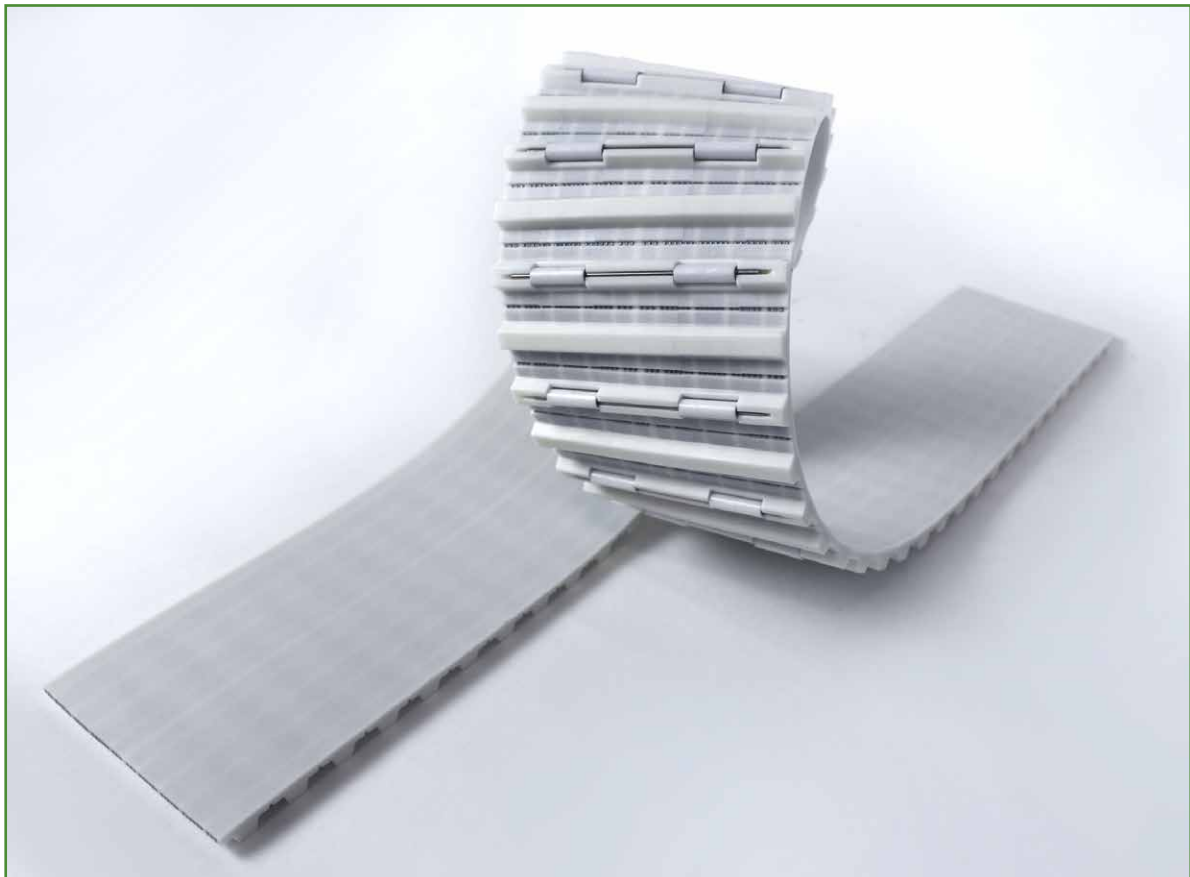


BRECO *flex* CO., L.L.C.

High Precision Drive Components

The World Leader In Polyurethane Timing Belts

BRECO *roll* Polyurethane Timing Belt



Overview and Specifications

BRECOflex CO. L.L.C. is rolling into the future with an innovative timing belt that reduces slider bed friction in material handling applications. It's called BRECOroll. BRECOroll has nylon rollers integrated into the teeth of the timing belt enabling it to roll across the slider bed with all of the efficiency of a high precision timing belt and a fraction of the friction of traditional systems. If you are looking to reduce drive energy and friction, especially when conveying heavier objects, BRECOroll is the ideal solution.

T20 (M/V)	Available Lengths and executions
Maximum length	100m
Minimum welded length	1000mm
Standard material	TPUST1 ¹⁾ (other materials on request)
Tension members	Steel standard Hi-flex and stainless steel available (min. qty's apply)

Belt widths (mm)
100

BRECOroll T20 Specifications			
Construction	Tension member	Parameter	Belt Width (mm) 100
Open-Ended "M"	Steel	Allowable Force $F_{Tzul}[N]$	12000
		Spring Rate $C_{SPEC}[N]$	3.5 E6
	Stainless Steel	Allowable Force $F_{Tzul}[N]$	10080
		Spring Rate $C_{SPEC}[N]$	3.5 E6
Spliced and Welded "V"	Steel	Allowable Force $F_{Tzul}[N]$	6000
	Stainless Steel	Allowable Force $F_{Tzul}[N]$	5040
Standard belt weight Standard [kg/m]			0.94
Max. belt load (bei $v_{max}=1m/s$) m_{RPmax}			6 kg / pair of rollers
Coefficient of friction			$\mu < .2$



NOTE: A minimum support area of 40mm long by 80mm wide is recommended when considering a conveyed product in excess of 1kg. Recommended slider bed material is polished steel or stainless steel.

Specifications cont.

BRECOroll Characteristics

- Replaces sliding friction with rolling friction of approximately half the value ($\mu < 0.2$)
- Maximum recommended speeds up to 1 m/s (3.28ft/s)
- Load bearing capacity of 6kg/tooth (13.2lbs/tooth)
- Rollers are located on every other tooth
- Available in 100mm wide T20

BRECOroll T20 Flexibility (minimum tooth count/minimum diameter)				
	Drive w/o back bending	Tension Member	BRECOroll T20 Tension Member Steel	BRECOroll T20 Tension Member Hi-flex steel
		Material	Steel	Hi-flex steel
		Z _{min} (# of teeth)	15	12
		d _{min} (mm)(Ø)	120	100
	Drive with back bending	Tension Member	BRECOroll T20 Tension Member Steel	BRECOroll T20 Tension Member Hi-flex steel
		Material	Steel	Hi-flex steel
		Z _{min} (# of teeth)	25	22
		d _{min} (mm)(Ø)	180	180
			BRECOroll T20 Tension Member Stainless steel	BRECOroll T20 Tension Member Stainless Steel

BRECOroll Advantages

- Longer belt life because of reduced friction and heat
- Smaller motor possible due to reduced friction forces
- Overall reduced energy consumption
- Cost savings on down time for belt replacement and drive maintenance
- Can accommodate backings and profiles

T20 BRECOroll Specific Tooth shear strength (M/V)							
RPM n [min]	FORCE F _{SPEC} [N/cm]	RPM n [min]	FORCE F _{SPEC} [N/cm]	RPM n [min]	FORCE F _{SPEC} [N/cm]	RPM n [min]	FORCE F _{SPEC} [N/cm]
0	50.75	800	30.45	2000	22.60	5000	14.45
20	49.05	900	29.50	2200	21.80	5500	13.60
40	47.65	1000	28.60	2400	21.05	6000	12.80
60	46.40	1100	27.80	2600	20.35	6500	12.10
80	45.35	1200	27.10	2800	19.70		
100	44.35	1300	26.40	3000	19.05		
200	40.60	1400	25.75	3200	18.50		
300	37.95	1500	25.15	3400	17.95		
400	35.90	1600	24.60	3600	17.45		
500	34.20	1700	24.10	3800	16.95		
600	32.80	1800	23.60	4000	16.50		
700	31.55	1900	23.10	4500	15.40		

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High Precision Drive Components

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