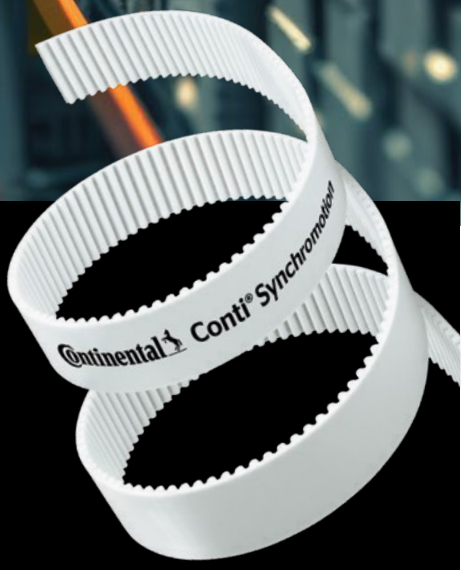
Continental
The Future in Motion

PAZ VERSION NOW AVAILABLE

Perfectly placed quality

Endless polyurethane timing belts Conti Synchromotion



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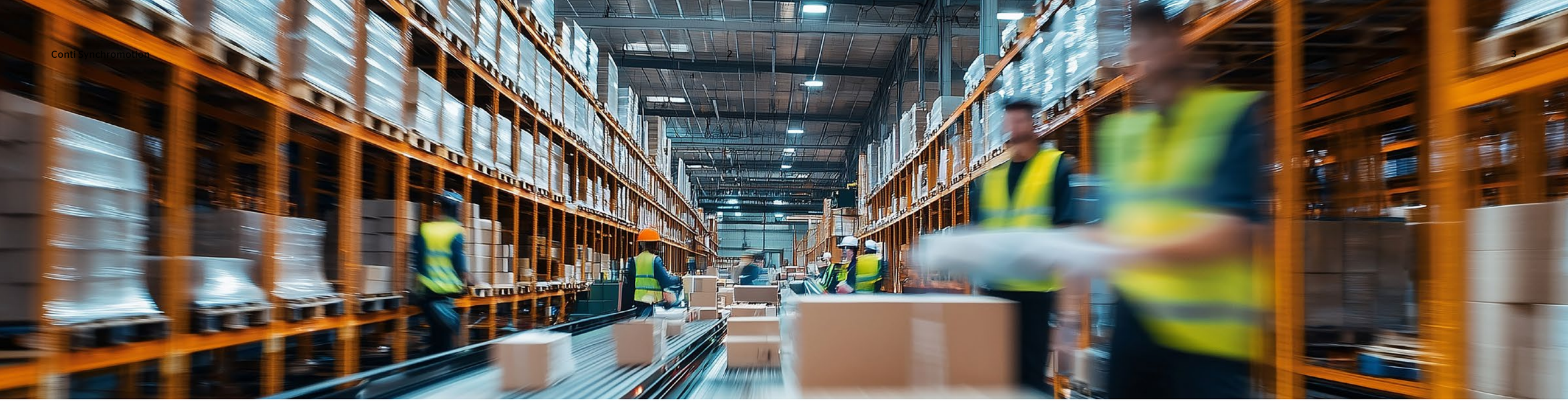


ONE BELT, ENDLESS POSSIBILITIES
Conti Synchromotion

Greater flexibility: Conti Synchromotion is the first truly endless PU timing belt from Continental. It can be manufactured in custom lengths – for maximum flexibility in design.

Versatility for your application

The Conti Synchromotion is suitable for virtually all transport and drive operations, from synchronous conveyor systems and transport equipment with slide rails to positioning and reversing drives in linear and control technology.

With its seamless integration and compatibility with competing products, the Conti Synchromotion can be used directly in existing systems without any additional adaptation. This means you immediately benefit from the advantages of our PU timing belts:

- high-strength tension members with bifilar ("S/Z") winding for optimum tracking
- reliable power transmission and precise positioning
- a long service life even in challenging environments

Even more robust in the PAZ version

The Conti Synchromotion is also available in a PAZ version. This features polyamide-based fabric reinforcement on the toothed side, which offers numerous additional benefits:

- an even **longer service life** thanks to additional abrasion protection on the tooth profile
- **quieter running** and **reduced vibrations thanks to** the fabric surface
- **improved power transmission** due to the reduced coefficient of friction between belt and pulley
- **optimized running-in performance**
- **lower operating costs** thanks to the longer service life and reduced maintenance requirements

THE RIGHT DECISION FOR YOUR DRIVE SYSTEM.

Technical specifications

In terms of power transmission, **the Synchromotion corresponds to the Synchroflex PU timing belt, which is also endless.**

The bifilar ("S/Z") winding of the steel tension member (as standard) reduces the belt run-off tendency, optimizing positional accuracy.

The white polyurethane, which is optimized for the extrusion process, is produced in our material preparation plant in Dannenberg. Continental's PU expertise ensures consistent, reliable **quality**.

The ground backing of the belt ensures **highly precise** thickness.

PU material oil resistant according to DIN 53428*.

Ozone resistant according to DIN ISO 1431*

UV resistant according to DIN EN ISO 4892*.

All products also available as **PAZ versions**

*targets according to Continental specification

Available sizes

- Length: from 1,500 mm (1,900 mm PAZ) to approx. 14,500 mm
- Width: 100 mm (can be cut and supplied in standard widths depending on the profile)

Custom-made ex works.

Conti Synchromotion creates design flexibility.

Endless production of the Conti Synchromotion opens up new possibilities in drive technology: with its different designs, individual lengths and more than 10 profile options, it can be optimized precisely for your specific application. And all this with maximum precision thanks to minimal length tolerances.

Versions

Profile	Pitch	Cord			PAZ
HTD	✸ 5M	✸ HP	-	-	✸
	✸ 8M	✸ HP	✸ HS	-	✸
	✸ 14M	✸ HP	-	-	✸
AT	✸ 5	✸ HP	-	-	✸
	✸ 10	✸ HP	✸ HS	✸ NIRO	✸
	✸ 20	✸ HP	✸ HS	-	✸
T	✸ 5	✸ HP	-	-	✸
	✸ 10	✸ HP	-	✸ NIRO	✸
	✸ 20	✸ HP	-	-	✸
RPP	✸ 8M	✸ HP	-	-	✸
H	-	✸ HP	-	-	✸
Length range 1,500 (1,900 PAZ) - 14,500 mm					

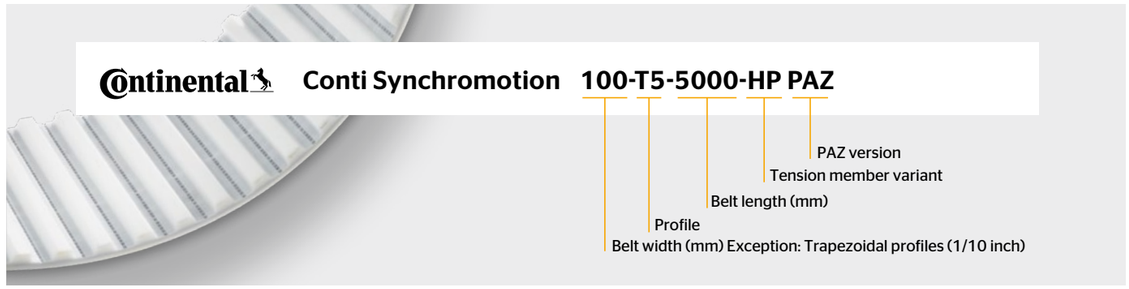
✸ already exists
Low-temperature version available on request

Length tolerance*

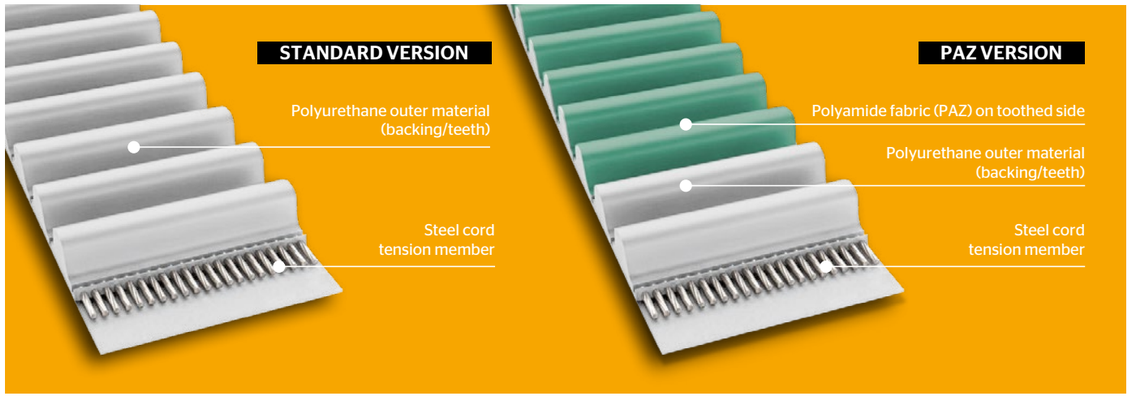
Belt length [mm]	Length tolerance (+/-) [mm]	Belt length [mm]	Length tolerance (+/-) [mm]	Belt length [mm]	Length tolerance (+/-) [mm]
1.500	0,52	**3.150**	0,55	**6.000**	0,48
1.700	0,56	**3.350**	0,55	**6.300**	0,48
1.900	0,61	**3.550**	0,54	**7.100**	0,48
2.120	0,65	**4.000**	0,54	**8.000**	0,47
2.240	0,68	**4.250**	0,53	**9.000**	0,46
2.360	0,72	**4.500**	0,52	**10.000**	0,45
2.500	0,74	**4.750**	0,51	**11.000**	0,45
2.650	0,78	**5.000**	0,50	**12.000**	0,45
2.800	0,80	**5.300**	0,50	**13.000**	0,44
3.000	0,85	**5.600**	0,49	**14.000**	0,44

Further lengths available on request.
*- up to 3,000 mm belt length relative to center distance
- from 3,000 mm belt length based on 1,000 mm stretched belt length

Product designation



Structure



Profile

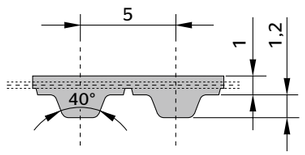
T, AT		HTD		RPP	H
T5	AT5	H5M	H14M	R8M	H
T10	AT10	H8M			
T20	AT20				

Wide-ranging applications

- Transportation technology
- Packaging machines, robotics
- Mail sorting systems
- Timber processing
- Ceramic, glass, and tile production
- Tobacco processing
- Logistics (outfeed and transfer belts, pallets from shelf to lifting unit)

T5 HP

Conti Synchromotion
T5 HP
Belts compatible with
T-pulley acc. to
ISO 17396.



Properties:
- Timing belts made of highly durable polyurethane elastomer with steel-cord tension members
- Bifilar (SZ) tension members for improved tracking
- Metric pitch: 5 mm
- Length range: 1,500 - 14,500 mm
- Maximum width: 100 mm
- Width tolerance: +/- 0.5 mm
- Thickness tolerance: +/- 0.2

Product designation (example):

Continental Conti Synchromotion 100-T5-5000-HP

Continental Conti Synchromotion 100-T5-5000-HP PAZ

Tooth shear strength (specific belt tooth strength)

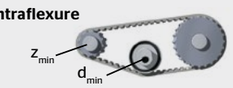
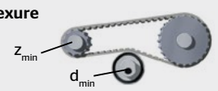
RPM n [min⁻¹]	F_{Uspec} [N/cm]	M_{spec} [Ncm/cm]	P_{spec} [W/cm]	RPM n [min⁻¹]	F_{Uspec} [N/cm]	M_{spec} [Ncm/cm]	P_{spec} [W/cm]
0	24,00	1,910	0,000	**1.900**	13,85	1,102	2,193
20	23,38	1,861	0,039	**2.000**	13,69	1,089	2,281
40	22,86	1,819	0,076	**2.200**	13,38	1,065	2,453
60	22,41	1,783	0,112	**2.400**	13,10	1,042	2,619
80	22,01	1,751	0,147	**2.500**	12,96	1,032	2,701
100	21,65	1,723	0,180	**2.600**	12,84	1,021	2,781
150	20,90	1,663	0,261	**2.800**	12,59	1,002	2,938
200	20,28	1,614	0,338	**2.880**	12,50	0,995	3,000
300	19,30	1,536	0,483	**3.000**	12,37	0,984	3,092
400	18,55	1,476	0,618	**3.200**	12,16	0,967	3,241
500	17,93	1,427	0,747	**3.400**	11,96	0,951	3,388
600	17,41	1,385	0,870	**3.600**	11,77	0,936	3,530
700	16,96	1,349	0,989	**3.800**	11,59	0,922	3,670
730	16,83	1,339	1,024	**4.000**	11,42	0,909	3,807
800	16,56	1,318	1,104	**4.500**	11,03	0,878	4,136
900	16,20	1,289	1,215	**5.000**	10,68	0,850	4,450
1.000	15,88	1,263	1,323	**5.500**	10,36	0,825	4,750
1.100	15,58	1,240	1,428	**6.000**	10,07	0,802	5,037
1.200	15,31	1,218	1,531	**6.500**	9,81	0,780	5,312
1.300	15,06	1,198	1,632	**7.000**	9,56	0,761	5,577
1.400	14,83	1,180	1,730	**7.500**	9,33	0,742	5,831
1.460	14,69	1,169	1,788	**8.000**	9,11	0,725	6,076
1.500	14,61	1,162	1,826	**8.500**	8,91	0,709	6,312
1.600	14,40	1,146	1,920	**9.000**	8,72	0,694	6,540
1.700	14,21	1,131	2,013	**9.500**	8,54	0,679	6,759
1.800	14,03	1,116	2,104	**10.000**	8,37	0,666	6,972

Rotational speeds above 10,000 rpm^{-1} need special drive designs. We'll be happy to advise you.

Tensile strength (permissible tensile force on the belt F_{zul} at 0.45% elongation), belt weight

Belt width	b	[mm]	10	16	25	32	50	75	100
Tensile strength	F_{zul}	[N]	360	570	930	1.200	1.920	2.940	3.930
Belt weight	T5 HP	[kg/m]	0,02	0,03	0,05	0,07	0,11	0,16	0,21

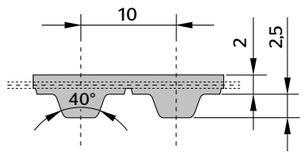
Flexibility (min. number of teeth, min. diameter)*

without contraflexure 	Timing pulley	z_{min}	**12**
	Tension roller (smooth), running on teeth	d_{min} [mm]	**30**
with contraflexure 	Timing pulley	z_{min}	**18**
	Tension roller (smooth), running on back of belt	d_{min} [mm]	**30**

* Values may vary, depending on the application.

T10 HP

Conti® Synchromotion
T10 HP
Belts compatible with
T-pulley acc. to
ISO 17396.



Properties:
- Timing belts made of highly durable polyurethane elastomer with steel-cord tension members
- Bifilar (SZ) tension members for improved tracking
- Metric pitch: 10 mm
- Length range: 1,500 - 14,500 mm
- Maximum width: 100 mm
- Width tolerance: +/- 0.5 mm
- Thickness tolerance: +/- 0.3

Product designation (example):

Continental Conti Synchromotion 100-T10-5000-HP

Continental Conti Synchromotion 100-T10-5000-HP PAZ

Tooth shear strength (specific belt tooth strength)

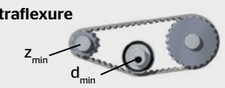
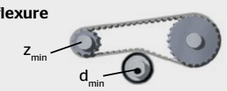
RPM n [min⁻¹]	F_{Uspec} [N/cm]	M_{spec} [Ncm/cm]	P_{spec} [W/cm]	RPM n [min⁻¹]	F_{Uspec} [N/cm]	M_{spec} [Ncm/cm]	P_{spec} [W/cm]
0	50,50	8,037	0,000	**1.900**	25,78	4,103	8,164
20	49,00	7,798	0,163	**2.000**	25,38	4,039	8,459
40	47,72	7,595	0,318	**2.200**	24,63	3,920	9,030
60	46,62	7,420	0,466	**2.400**	23,94	3,810	9,576
80	45,65	7,265	0,609	**2.500**	23,62	3,759	9,840
100	44,78	7,127	0,746	**2.600**	23,30	3,709	10,098
150	42,94	6,834	1,073	**2.800**	22,71	3,615	10,600
200	41,43	6,595	1,381	**2.880**	22,49	3,579	10,795
300	39,06	6,217	1,953	**3.000**	22,16	3,528	11,082
400	37,22	5,924	2,481	**3.200**	21,65	3,445	11,546
500	35,72	5,684	2,976	**3.400**	21,16	3,368	11,992
600	34,44	5,482	3,444	**3.600**	20,70	3,295	12,423
700	33,34	5,306	3,890	**3.800**	20,27	3,226	12,838
730	33,04	5,258	4,020	**4.000**	19,86	3,160	13,238
800	32,37	5,152	4,316	**4.500**	18,91	3,009	14,181
900	31,50	5,013	4,725	**5.000**	18,06	2,874	15,047
1.000	30,71	4,888	5,119	**5.500**	17,28	2,751	15,844
1.100	30,00	4,774	5,499	**6.000**	16,58	2,639	16,579
1.200	29,34	4,669	5,867	**6.500**	15,93	2,535	17,256
1.300	28,72	4,571	6,223	**7.000**	15,33	2,439	17,880
1.400	28,15	4,481	6,569	**7.500**	14,76	2,350	18,456
1.460	27,83	4,429	6,772	**8.000**	14,24	2,266	18,985
1.500	27,62	4,396	6,905	**8.500**	13,74	2,188	19,471
1.600	27,12	4,317	7,232	**9.000**	13,28	2,113	19,917
1.700	26,65	4,241	7,551	**9.500**	12,84	2,043	20,325
1.800	26,20	4,170	7,861	**10.000**	12,42	1,976	20,696

Rotational speeds above 10,000 rpm^{-1} need special drive designs. We'll be happy to advise you.

Tensile strength (permissible tensile force on the belt F_{zul} at 0.45% elongation), belt weight

Belt width	b	[mm]	10	16	25	32	50	75	100
Tensile strength	F_{zul}	[N]	983	1.460	2.430	3.104	4.860	7.300	9.730
Belt weight	T10 HP	[kg/m]	0,05	0,07	0,11	0,15	0,23	0,34	0,45

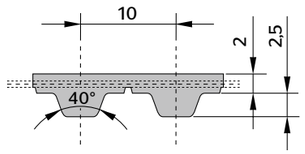
Flexibility (min. number of teeth, min. diameter)*

without contraflexure 	Timing pulley	z_{min}	**12**
	Tension roller (smooth), running on teeth	d_{min} [mm]	**60**
with contraflexure 	Timing pulley	z_{min}	**20**
	Tension roller (smooth), running on back of belt	d_{min} [mm]	**60**

* Values may vary, depending on the application.

T10 NIRO

Conti Synchromotion
T10 NIRO
Belts compatible with
T-pulley acc. to
ISO 17396.



Properties:
- Timing belts made of highly durable polyurethane elastomer with steel-cord tension members
- Bifilar (SZ) tension members for improved tracking
- Metric pitch: 10 mm
- Length range: 1,500 - 14,500 mm
- Maximum width: 100 mm
- Width tolerance: +/- 0.5 mm
- Thickness tolerance: +/- 0.3

Product designation (example):

Continental Conti Synchromotion 100-T10-5000-NIRO

Continental Conti Synchromotion 100-T10-5000-NIRO PAZ

Tooth shear strength (specific belt tooth strength)

RPM n [min⁻¹]	F_{Uspec} [N/cm]	M_{spec} [Ncm/cm]	P_{spec} [W/cm]	RPM n [min⁻¹]	F_{Uspec} [N/cm]	M_{spec} [Ncm/cm]	P_{spec} [W/cm]
0	50,50	8,037	0,000	**1.900**	25,78	4,103	8,164
20	49,00	7,798	0,163	**2.000**	25,38	4,039	8,459
40	47,72	7,595	0,318	**2.200**	24,63	3,920	9,030
60	46,62	7,420	0,466	**2.400**	23,94	3,810	9,576
80	45,65	7,265	0,609	**2.500**	23,62	3,759	9,840
100	44,78	7,127	0,746	**2.600**	23,30	3,709	10,098
150	42,94	6,834	1,073	**2.800**	22,71	3,615	10,600
200	41,43	6,595	1,381	**2.880**	22,49	3,579	10,795
300	39,06	6,217	1,953	**3.000**	22,16	3,528	11,082
400	37,22	5,924	2,481	**3.200**	21,65	3,445	11,546
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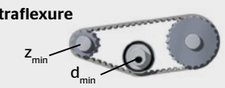
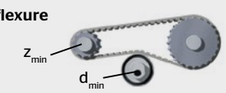
600	34,44	5,482	3,444	**3.600**	20,70	3,295	12,423
700	33,34	5,306	3,890	**3.800**	20,27	3,226	12,838
730	33,04	5,258	4,020	**4.000**	19,86	3,160	13,238
800	32,37	5,152	4,316	**4.500**	18,91	3,009	14,181
900	31,50	5,013	4,725	**5.000**	18,06	2,874	15,047
1.000	30,71	4,888	5,119	**5.500**	17,28	2,751	15,844
1.100	30,00	4,774	5,499	**6.000**	16,58	2,639	16,579
1.200	29,34	4,669	5,867	**6.500**	15,93	2,535	17,256
1.300	28,72	4,571	6,223	**7.000**	15,33	2,439	17,880
1.400	28,15	4,481	6,569	**7.500**	14,76	2,350	18,456
1.460	27,83	4,429	6,772	**8.000**	14,24	2,266	18,985
1.500	27,62	4,396	6,905	**8.500**	13,74	2,188	19,471
1.600	27,12	4,317	7,232	**9.000**	13,28	2,113	19,917
1.700	26,65	4,241	7,551	**9.500**	12,84	2,043	20,325
1.800	26,20	4,170	7,861	**10.000**	12,42	1,976	20,696

Rotational speeds above 10,000 rpm⁻¹ need special drive designs. We'll be happy to advise you.

Tensile strength (permissible tensile force on the belt F_{zul} at 0.45% elongation), belt weight

Belt width	b	[mm]	10	16	25	32	50	75	100
Tensile strength	F_{zul}	[N]	750	1.250	2.050	2.750	4.350	6.650	8.850
Belt weight	T10 NIRO	[kg/m]	0,07	0,11	0,18	0,23	0,35	0,53	0,71

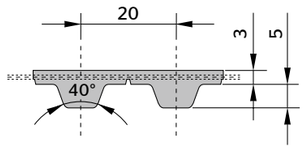
Flexibility (min. number of teeth, min. diameter)*

without contraflexure 	Timing pulley	z_{min}	**15**
	Tension roller (smooth), running on teeth	d_{min} [mm]	**72**
with contraflexure 	Timing pulley	z_{min}	**24**
	Tension roller (smooth), running on back of belt	d_{min} [mm]	**72**

* Values may vary, depending on the application.

T20 HP

Conti Synchromotion
T20 HP
Belts compatible with
T-pulley acc. to
ISO 17396.



Properties:
- Timing belts made of highly durable polyurethane elastomer with steel-cord tension members
- Bifilar (SZ) tension members for improved tracking
- Metric pitch: 20 mm
- Length range: 1,500 - 14,500 mm
- Maximum width: 100 mm
- Width tolerance: +/- 1.0 mm
- Thickness tolerance: +/- 0.45

Product designation (example):

Continental Conti Synchromotion 100-T20-4800-HP

Continental Conti Synchromotion 100-T20-4800-HP PAZ

Tooth shear strength (specific belt tooth strength)

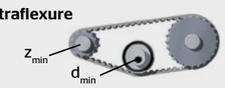
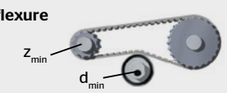
RPM n [min⁻¹]	F_{Uspec} [N/cm]	M_{spec} [Ncm/cm]	P_{spec} [W/cm]	RPM n [min⁻¹]	F_{Uspec} [N/cm]	M_{spec} [Ncm/cm]	P_{spec} [W/cm]
0	101,50	32,308	0,000	**1.500**	50,32	16,019	25,162
20	98,13	31,237	0,654	**1.600**	49,21	15,663	26,243
40	95,29	30,332	1,271	**1.700**	48,15	15,327	27,286
60	92,82	29,547	1,856	**1.800**	47,15	15,009	28,292
80	90,65	28,855	2,417	**1.900**	46,21	14,708	29,264
100	88,71	28,236	2,957	**2.000**	45,31	14,421	30,204
150	84,59	26,925	4,229	**2.200**	43,63	13,887	31,993
200	81,22	25,854	5,415	**2.400**	42,09	13,397	33,670
300	75,91	24,164	7,591	**2.500**	41,36	13,166	34,470
400	71,79	22,853	9,573	**2.600**	40,67	12,945	35,245
500	68,43	21,781	11,405	**2.800**	39,35	12,525	36,725
600	65,58	20,876	13,117	**2.880**	38,85	12,365	37,292
700	63,12	20,091	14,728	**3.000**	38,12	12,133	38,117
730	62,44	19,875	15,194	**3.200**	36,96	11,766	39,427
800	60,94	19,399	16,252	**3.400**	35,88	11,420	40,661
900	59,00	18,780	17,700	**3.600**	34,85	11,094	41,822
1.000	57,24	18,220	19,080	**3.800**	33,88	10,784	42,914
1.100	55,63	17,709	20,399	**4.000**	32,96	10,490	43,942
1.200	54,16	17,239	21,663	**4.500**	30,83	9,814	46,249
1.300	52,79	16,803	22,875	**5.000**	28,93	9,208	48,214
1.400	51,52	16,398	24,041	**5.500**	27,20	8,659	49,870
1.460	50,79	16,168	24,719	**6.000**	25,62	8,156	51,247

Rotational speeds above 6,000 rpm⁻¹ need special drive designs. We'll be happy to advise you.

Tensile strength (permissible tensile force on the belt F_{zul} at 0.45% elongation), belt weight

Belt width	b	[mm]	25	32	50	75	100
Tensile strength	F_{zul}	[N]	3.422	4.602	7.434	11.446	15.222
Belt weight	T20 HP	[kg/m]	0,18	0,24	0,37	0,55	0,736

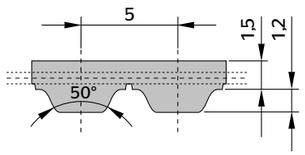
Flexibility (min. number of teeth, min. diameter)*

without contraflexure 	Timing pulley	z_{min}	**15**
	Tension roller (smooth), running on teeth	d_{min} [mm]	**120**
with contraflexure 	Timing pulley	z_{min}	**25**
	Tension roller (smooth), running on back of belt	d_{min} [mm]	**120**

* Values may vary, depending on the application.

AT5 HP

Conti Synchromotion
AT5 HP
Belts compatible with T-pulley acc. to ISO 17396.



Properties:
- Timing belts made of highly durable polyurethane elastomer with steel-cord tension members
- Bifilar (SZ) tension members for improved tracking
- Metric pitch: 5 mm
- Length range: 1,500 - 14,500 mm
- Maximum width: 100 mm
- Width tolerance: +/- 0.5 mm
- Thickness tolerance: +/- 0.2

Product designation (example):

Continental Conti Synchromotion 100-AT5-2500-HP

Continental Conti Synchromotion 100-AT5-2500-HP PAZ

Tooth shear strength (specific belt tooth strength)

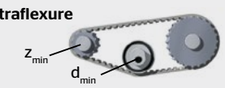
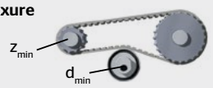
RPM n [min⁻¹]	F_{Uspec} [N/cm]	M_{spec} [Ncm/cm]	P_{spec} [W/cm]	RPM n [min⁻¹]	F_{Uspec} [N/cm]	M_{spec} [Ncm/cm]	P_{spec} [W/cm]
0	38,81	3,088	0,000	**1.900**	24,39	1,941	3,862
20	38,37	3,053	0,064	**2.000**	24,06	1,914	4,010
40	37,95	3,020	0,126	**2.200**	23,43	1,865	4,296
60	37,55	2,988	0,188	**2.400**	22,86	1,819	4,572
80	37,17	2,958	0,248	**2.500**	22,59	1,797	4,706
100	36,82	2,930	0,307	**2.600**	22,32	1,777	4,837
150	35,99	2,864	0,450	**2.800**	21,83	1,737	5,093
200	35,24	2,804	0,587	**2.880**	21,63	1,722	5,192
300	33,94	2,701	0,848	**3.000**	21,36	1,700	5,339
400	32,83	2,612	1,094	**3.200**	20,92	1,664	5,577
500	31,86	2,535	1,327	**3.400**	20,50	1,631	5,808
600	31,00	2,467	1,550	**3.600**	20,10	1,600	6,031
700	30,23	2,405	1,763	**3.800**	19,73	1,570	6,247
730	30,01	2,388	1,826	**4.000**	19,37	1,541	6,457
800	29,53	2,350	1,968	**4.500**	18,54	1,476	6,954
900	28,89	2,299	2,166	**5.000**	17,80	1,416	7,416
1.000	28,29	2,252	2,358	**5.500**	17,12	1,362	7,847
1.100	27,75	2,208	2,543	**6.000**	16,50	1,313	8,249
1.200	27,24	2,167	2,724	**6.500**	15,92	1,267	8,625
1.300	26,76	2,129	2,899	**7.000**	15,39	1,225	8,977
1.400	26,31	2,094	3,069	**7.500**	14,89	1,185	9,306
1.460	26,05	2,073	3,169	**8.000**	14,42	1,148	9,614
1.500	25,88	2,060	3,235	**8.500**	13,98	1,113	9,903
1.600	25,48	2,028	3,397	**9.000**	13,56	1,079	10,173
1.700	25,10	1,997	3,556	**9.500**	13,17	1,048	10,425
1.800	24,74	1,968	3,710	**10.000**	12,79	1,018	10,661

Rotational speeds above 10,000 rpm^{-1} need special drive designs. We'll be happy to advise you.

Tensile strength (permissible tensile force on the belt F_{zul} at 0.45% elongation), belt weight

Belt width	b	[mm]	10	16	25	32	50	75	100
Tensile strength	F_{zul}	[N]	900	1.360	2.260	2.750	4.520	6.370	9.050
Belt weight	AT5 HP	[kg/m]	0,03	0,05	0,08	0,10	0,16	0,25	0,328

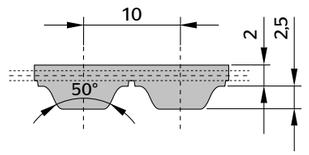
Flexibility (min. number of teeth, min. diameter)*

without contraflexure 	Timing pulley	z_{min}	**18**
	Tension roller (smooth), running on teeth	d_{min} [mm]	**29**
with contraflexure 	Timing pulley	z_{min}	**27**
	Tension roller (smooth), running on back of belt	d_{min} [mm]	**60**

* Values may vary, depending on the application.

AT10 HP

Conti Synchromotion
AT10 HP
Belts compatible with AT pulleys acc. to ISO 17396.



Properties:
- Timing belts made of highly durable polyurethane elastomer with steel-cord tension members
- Bifilar (SZ) tension members for improved tracking
- Metric pitch: 10 mm
- Length range: 1,500 - 14,500 mm
- Maximum width: 100 mm
- Width tolerance: +/- 0.5 mm
- Thickness tolerance: +/- 0.3

Product designation (example):

Continental Conti Synchromotion 100-AT10-4500-HP

Continental Conti Synchromotion 100-AT10-4500-HP PAZ

Tooth shear strength (specific belt tooth strength)

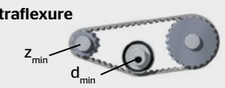
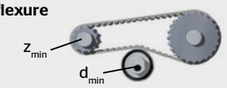
RPM n [min⁻¹]	F_{Uspec} [N/cm]	M_{spec} [Ncm/cm]	P_{spec} [W/cm]	RPM n [min⁻¹]	F_{Uspec} [N/cm]	M_{spec} [Ncm/cm]	P_{spec} [W/cm]
0	80,85	12,868	0,000	**1.900**	45,14	7,185	14,295
20	79,66	12,679	0,266	**2.000**	44,36	7,060	14,786
40	78,55	12,502	0,524	**2.200**	42,89	6,825	15,725
60	77,51	12,336	0,775	**2.400**	41,53	6,609	16,611
80	76,52	12,179	1,020	**2.500**	40,89	6,507	17,036
100	75,59	12,030	1,260	**2.600**	40,27	6,409	17,449
150	73,45	11,690	1,836	**2.800**	39,09	6,221	18,242
200	71,54	11,386	2,385	**2.880**	38,64	6,150	18,547
300	68,26	10,863	3,413	**3.000**	37,99	6,046	18,994
400	65,49	10,423	4,366	**3.200**	36,95	5,881	19,707
500	63,10	10,043	5,258	**3.400**	35,97	5,725	20,383
600	61,00	9,708	6,100	**3.600**	35,04	5,577	21,026
700	59,12	9,409	6,897	**3.800**	34,16	5,437	21,636
730	58,59	9,326	7,129	**4.000**	33,32	5,304	22,215
800	57,43	9,140	7,657	**4.500**	31,39	4,995	23,539
900	55,88	8,893	8,382	**5.000**	29,64	4,718	24,701
1.000	54,46	8,667	9,076	**5.500**	28,05	4,465	25,717
1.100	53,14	8,458	9,743	**6.000**	26,60	4,233	26,599
1.200	51,92	8,263	10,384	**6.500**	25,26	4,020	27,360
1.300	50,78	8,081	11,002	**7.000**	24,01	3,821	28,009
1.400	49,70	7,910	11,597	**7.500**	22,84	3,635	28,553
1.460	49,09	7,813	11,945	**8.000**	21,75	3,462	28,999
1.500	48,69	7,749	12,173	**8.500**	20,72	3,298	29,355
1.600	47,73	7,597	12,729	**9.000**	19,75	3,143	29,624
1.700	46,83	7,453	13,268	**9.500**	18,83	2,997	29,812
1.800	45,97	7,316	13,790	**10.000**	17,95	2,857	29,923

Rotational speeds above 10,000 rpm^{-1} need special drive designs. We'll be happy to advise you.

Tensile strength (permissible tensile force on the belt F_{zul} at 0.45% elongation), belt weight

Belt width	b	[mm]	16	25	32	50	75	100
Tensile strength	F_{zul}	[N]	2.006	3.422	4.602	7.434	11.446	15.222
Belt weight	AT10 HP	[kg/m]	0,09	0,15	0,19	0,29	0,44	0,581

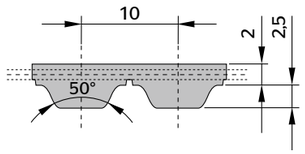
Flexibility (min. number of teeth, min. diameter)*

without contraflexure 	Timing pulley	z_{min}	**15**
	Tension roller (smooth), running on teeth	d_{min} [mm]	**50**
with contraflexure 	Timing pulley	z_{min}	**25**
	Tension roller (smooth), running on back of belt	d_{min} [mm]	**120**

* Values may vary, depending on the application.

AT10 HS

Conti Synchromotion
AT10 HS
Belts compatible with
AT pulleys acc. to
ISO 17396.



Properties:
- Timing belts made of highly durable polyurethane elastomer with steel-cord tension members
- Bifilar (SZ) tension members for improved tracking
- Metric pitch: 10 mm
- Length range: 1,500 - 14,500 mm
- Maximum width: 100 mm
- Width tolerance: +/- 0.5 mm
- Thickness tolerance: +/- 0.3

Product designation (example):

Continental Conti Synchromotion 100-AT10-4500-HS

Continental Conti Synchromotion 100-AT10-4500-HS PAZ

Tooth shear strength (specific belt tooth strength)

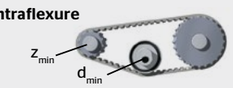
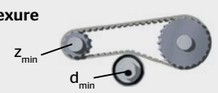
RPM n [min^{-1}]	F_{Uspec} [N/cm]	M_{spec} [Ncm/cm]	P_{spec} [W/cm]	RPM n [min^{-1}]	F_{Uspec} [N/cm]	M_{spec} [Ncm/cm]	P_{spec} [W/cm]
0	80,85	12,868	0,000	**1.900**	45,14	7,185	14,295
20	79,66	12,679	0,266	**2.000**	44,36	7,060	14,786
40	78,55	12,502	0,524	**2.200**	42,89	6,825	15,725
60	77,51	12,336	0,775	**2.400**	41,53	6,609	16,611
80	76,52	12,179	1,020	**2.500**	40,89	6,507	17,036
100	75,59	12,030	1,260	**2.600**	40,27	6,409	17,449
150	73,45	11,690	1,836	**2.800**	39,09	6,221	18,242
200	71,54	11,386	2,385	**2.880**	38,64	6,150	18,547
300	68,26	10,863	3,413	**3.000**	37,99	6,046	18,994
400	65,49	10,423	4,366	**3.200**	36,95	5,881	19,707
500	63,10	10,043	5,258	**3.400**	35,97	5,725	20,383
600	61,00	9,708	6,100	**3.600**	35,04	5,577	21,026
700	59,12	9,409	6,897	**3.800**	34,16	5,437	21,636
730	58,59	9,326	7,129	**4.000**	33,32	5,304	22,215
800	57,43	9,140	7,657	**4.500**	31,39	4,995	23,539
900	55,88	8,893	8,382	**5.000**	29,64	4,718	24,701
1.000	54,46	8,667	9,076	**5.500**	28,05	4,465	25,717
1.100	53,14	8,458	9,743	**6.000**	26,60	4,233	26,599
1.200	51,92	8,263	10,384	**6.500**	25,26	4,020	27,360
1.300	50,78	8,081	11,002	**7.000**	24,01	3,821	28,009
1.400	49,70	7,910	11,597	**7.500**	22,84	3,635	28,553
1.460	49,09	7,813	11,945	**8.000**	21,75	3,462	28,999
1.500	48,69	7,749	12,173	**8.500**	20,72	3,298	29,355
1.600	47,73	7,597	12,729	**9.000**	19,75	3,143	29,624
1.700	46,83	7,453	13,268	**9.500**	18,83	2,997	29,812
1.800	45,97	7,316	13,790	**10.000**	17,95	2,857	29,923

Rotational speeds above 10,000 rpm^{-1} need special drive designs. We'll be happy to advise you.

Tensile strength (permissible tensile force on the belt F_{zul} at 0.45% elongation), belt weight

Belt width	b	[mm]	16	25	32	50	75	100
Tensile strength	F_{zul}	[N]	3.068	5.428	7.200	12.000	17.500	24.000
Belt weight	AT10 HS	[kg/m]	0,10	0,16	0,21	0,33	0,49	0,66

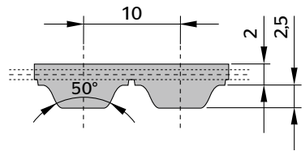
Flexibility (min. number of teeth, min. diameter)*

without contraflexure 	Timing pulley	z_{min}	**25**
	Tension roller (smooth), running on teeth	d_{min} [mm]	**80**
with contraflexure 	Timing pulley	z_{min}	**42**
	Tension roller (smooth), running on back of belt	d_{min} [mm]	**120**

* Values may vary, depending on the application.

AT10 NIRO

Conti Synchromotion
AT10 NIRO
Belts compatible with
AT pulleys acc. to
ISO 17396.



Properties:
- Timing belts made of highly durable polyurethane elastomer with steel-cord tension members
- Bifilar (SZ) tension members for improved tracking
- Metric pitch: 10 mm
- Length range: 1,500 - 14,500 mm
- Maximum width: 100 mm
- Width tolerance: +/- 0.5 mm
- Thickness tolerance: +/- 0.3

Product designation (example):

Continental Conti Synchromotion 100-AT10-4500-NIRO

Continental Conti Synchromotion 100-AT10-4500-NIRO PAZ

Tooth shear strength (specific belt tooth strength)

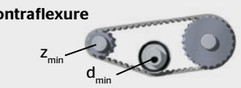
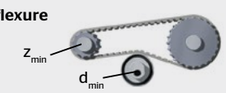
RPM n [min^{-1}]	F_{Uspec} [N/cm]	M_{spec} [Ncm/cm]	P_{spec} [W/cm]	RPM n [min^{-1}]	F_{Uspec} [N/cm]	M_{spec} [Ncm/cm]	P_{spec} [W/cm]
0	80,85	12,868	0,000	**1.900**	45,14	7,185	14,295
20	79,66	12,679	0,266	**2.000**	44,36	7,060	14,786
40	78,55	12,502	0,524	**2.200**	42,89	6,825	15,725
60	77,51	12,336	0,775	**2.400**	41,53	6,609	16,611
80	76,52	12,179	1,020	**2.500**	40,89	6,507	17,036
100	75,59	12,030	1,260	**2.600**	40,27	6,409	17,449
150	73,45	11,690	1,836	**2.800**	39,09	6,221	18,242
200	71,54	11,386	2,385	**2.880**	38,64	6,150	18,547
300	68,26	10,863	3,413	**3.000**	37,99	6,046	18,994
400	65,49	10,423	4,366	**3.200**	36,95	5,881	19,707
500	63,10	10,043	5,258	**3.400**	35,97	5,725	20,383
600	61,00	9,708	6,100	**3.600**	35,04	5,577	21,026
700	59,12	9,409	6,897	**3.800**	34,16	5,437	21,636
730	58,59	9,326	7,129	**4.000**	33,32	5,304	22,215
800	57,43	9,140	7,657	**4.500**	31,39	4,995	23,539
900	55,88	8,893	8,382	**5.000**	29,64	4,718	24,701
1.000	54,46	8,667	9,076	**5.500**	28,05	4,465	25,717
1.100	53,14	8,458	9,743	**6.000**	26,60	4,233	26,599
1.200	51,92	8,263	10,384	**6.500**	25,26	4,020	27,360
1.300	50,78	8,081	11,002	**7.000**	24,01	3,821	28,009
1.400	49,70	7,910	11,597	**7.500**	22,84	3,635	28,553
1.460	49,09	7,813	11,945	**8.000**	21,75	3,462	28,999
1.500	48,69	7,749	12,173	**8.500**	20,72	3,298	29,355
1.600	47,73	7,597	12,729	**9.000**	19,75	3,143	29,624
1.700	46,83	7,453	13,268	**9.500**	18,83	2,997	29,812
1.800	45,97	7,316	13,790	**10.000**	17,95	2,857	29,923

Rotational speeds above 10,000 rpm^{-1} need special drive designs. We'll be happy to advise you.

Tensile strength (permissible tensile force on the belt F_{zul} at 0.45% elongation), belt weight

Belt width	b	[mm]	16	25	32	50	75	100
Tensile strength	F_{zul}	[N]	1.700	2.900	3.900	6.300	9.700	12.900
Belt weight	AT10 NIRO	[kg/m]	0,09	0,15	0,19	0,29	0,44	0,58

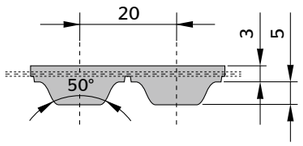
Flexibility (min. number of teeth, min. diameter)*

without contraflexure 	Timing pulley	z_{min}	**18**
	Tension roller (smooth), running on teeth	d_{min} [mm]	**60**
with contraflexure 	Timing pulley	z_{min}	**30**
	Tension roller (smooth), running on back of belt	d_{min} [mm]	**144**

* Values may vary, depending on the application.

AT20 HP

Conti Synchromotion
AT20 HP
Belts compatible with AT pulleys acc. to ISO 17396.



Properties:
- Timing belts made of highly durable polyurethane elastomer with steel-cord tension members
- Bifilar (SZ) tension members for improved tracking
- Metric pitch: 20 mm
- Length range: 1,500 - 14,500 mm
- Maximum width: 100 mm
- Width tolerance: +/- 1.0 mm
- Thickness tolerance: +/- 0.45

Product designation (example):

Continental Conti Synchromotion 100-AT20-12000-HP

Continental Conti Synchromotion 100-AT20-12000-HP PAZ

Tooth shear strength (specific belt tooth strength)

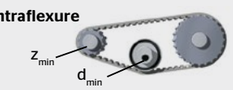
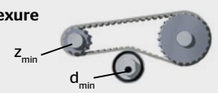
RPM n [min⁻¹]	F_{Uspec} [N/cm]	M_{spec} [Ncm/cm]	P_{spec} [W/cm]	RPM n [min⁻¹]	F_{Uspec} [N/cm]	M_{spec} [Ncm/cm]	P_{spec} [W/cm]
0	161,70	51,471	0,000	**1.500**	83,59	26,607	41,794
20	158,67	50,507	1,058	**1.600**	81,33	25,888	43,376
40	155,85	49,610	2,078	**1.700**	79,19	25,207	44,875
60	153,22	48,771	3,064	**1.800**	77,16	24,560	46,295
80	150,74	47,983	4,020	**1.900**	75,22	23,944	47,641
100	148,41	47,240	4,947	**2.000**	73,37	23,356	48,916
150	143,10	45,549	7,155	**2.200**	69,91	22,253	51,268
200	138,40	44,053	9,226	**2.400**	66,72	21,237	53,375
300	130,36	41,495	13,036	**2.500**	65,21	20,757	54,342
400	123,65	39,359	16,487	**2.600**	63,76	20,294	55,256
500	117,89	37,525	19,648	**2.800**	61,00	19,416	56,930
600	112,84	35,918	22,568	**2.880**	59,94	19,080	57,544
700	108,35	34,487	25,281	**3.000**	58,41	18,593	58,410
730	107,09	34,087	26,058	**3.200**	55,98	17,818	59,710
800	104,30	33,199	27,813	**3.400**	53,68	17,088	60,841
900	100,62	32,027	30,185	**3.600**	51,51	16,396	61,812
1.000	97,24	30,952	32,413	**3.800**	49,45	15,739	62,632
1.100	94,12	29,959	34,510	**4.000**	47,48	15,114	63,310
1.200	91,22	29,037	36,488	**4.500**	42,95	13,671	64,424
1.300	88,51	28,175	38,356	**5.000**	38,87	12,373	64,783
1.400	85,98	27,367	40,123	**5.500**	35,16	11,192	64,461
1.460	84,53	26,906	41,136	**6.000**	31,76	10,110	63,521

Rotational speeds above 6,000 rpm^{-1} need special drive designs. We'll be happy to advise you.

Tensile strength (permissible tensile force on the belt F_{zul} at 0.45% elongation), belt weight

Belt width	b	[mm]	25	32	50	75	100
Tensile strength	F_{zul}	[N]	5.428	7.200	12.000	17.500	24.000
Belt weight	AT20 HP	[kg/m]	0,24	0,31	0,48	0,72	0,96

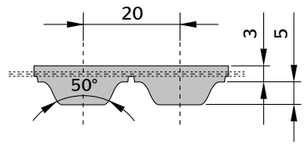
Flexibility (min. number of teeth, min. diameter)*

without contraflexure 	Timing pulley	z_{min}	**18**
	Tension roller (smooth), running on teeth	d_{min} [mm]	**120**
with contraflexure 	Timing pulley	z_{min}	**25**
	Tension roller (smooth), running on back of belt	d_{min} [mm]	**180**

* Values may vary, depending on the application.

AT20 HS

Conti Synchromotion
AT20 HS
Belts compatible with AT pulleys acc. to ISO 17396.



Properties:
- Timing belts made of highly durable polyurethane elastomer with steel-cord tension members
- Bifilar (SZ) tension members for improved tracking
- Metric pitch: 20 mm
- Length range: 1,500 - 14,500 mm
- Maximum width: 100 mm
- Width tolerance: +/- 1.0 mm
- Thickness tolerance: +/- 0.45

Product designation (example):

Continental Conti Synchromotion 100-AT20-12000-HS

Continental Conti Synchromotion 100-AT20-12000-HS PAZ

Tooth shear strength (specific belt tooth strength)

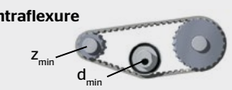
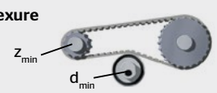
RPM n [min⁻¹]	F_{Uspec} [N/cm]	M_{spec} [Ncm/cm]	P_{spec} [W/cm]	RPM n [min⁻¹]	F_{Uspec} [N/cm]	M_{spec} [Ncm/cm]	P_{spec} [W/cm]
0	161,70	51,471	0,000	**1.500**	83,59	26,607	41,794
20	158,67	50,507	1,058	**1.600**	81,33	25,888	43,376
40	155,85	49,610	2,078	**1.700**	79,19	25,207	44,875
60	153,22	48,771	3,064	**1.800**	77,16	24,560	46,295
80	150,74	47,983	4,020	**1.900**	75,22	23,944	47,641
100	148,41	47,240	4,947	**2.000**	73,37	23,356	48,916
150	143,10	45,549	7,155	**2.200**	69,91	22,253	51,268
200	138,40	44,053	9,226	**2.400**	66,72	21,237	53,375
300	130,36	41,495	13,036	**2.500**	65,21	20,757	54,342
400	123,65	39,359	16,487	**2.600**	63,76	20,294	55,256
500	117,89	37,525	19,648	**2.800**	61,00	19,416	56,930
600	112,84	35,918	22,568	**2.880**	59,94	19,080	57,544
700	108,35	34,487	25,281	**3.000**	58,41	18,593	58,410
730	107,09	34,087	26,058	**3.200**	55,98	17,818	59,710
800	104,30	33,199	27,813	**3.400**	53,68	17,088	60,841
900	100,62	32,027	30,185	**3.600**	51,51	16,396	61,812
1.000	97,24	30,952	32,413	**3.800**	49,45	15,739	62,632
1.100	94,12	29,959	34,510	**4.000**	47,48	15,114	63,310
1.200	91,22	29,037	36,488	**4.500**	42,95	13,671	64,424
1.300	88,51	28,175	38,356	**5.000**	38,87	12,373	64,783
1.400	85,98	27,367	40,123	**5.500**	35,16	11,192	64,461
1.460	84,53	26,906	41,136	**6.000**	31,76	10,110	63,521

Rotational speeds above 6,000 rpm^{-1} need special drive designs. We'll be happy to advise you.

Tensile strength (permissible tensile force on the belt F_{zul} at 0.45% elongation), belt weight

Belt width	b	[mm]	25	32	50	75	100
Tensile strength	F_{zul}	[N]	6.545	8.855	14.245	22.715	30.415
Belt weight	AT20 HS	[kg/m]	0,26	0,33	0,52	0,77	1,03

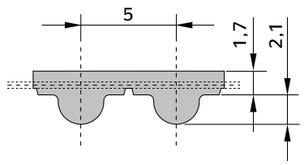
Flexibility (min. number of teeth, min. diameter)*

without contraflexure 	Timing pulley	z_{min}	**25**
	Tension roller (smooth), running on teeth	d_{min} [mm]	**160**
with contraflexure 	Timing pulley	z_{min}	**35**
	Tension roller (smooth), running on back of belt	d_{min} [mm]	**250**

* Values may vary, depending on the application.

H5M HP

Conti Synchromotion
H5M HP
Belts compatible with HTD pulleys acc. to ISO 13050.



Properties:
- Timing belts made of highly durable polyurethane elastomer with steel-cord tension members
- Bifilar (SZ) tension members for improved tracking
- Metric pitch: 5 mm
- Length range: 1,500 - 14,500 mm
- Maximum width: 100 mm
- Width tolerance: +/- 0.5 mm
- Thickness tolerance: +/- 0.2

Product designation (example):

Continental Conti Synchromotion 100-H5M-6500-HP

Continental Conti Synchromotion 100-H5M-6500-HP PAZ

Tooth shear strength (specific belt tooth strength)

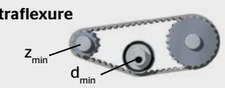
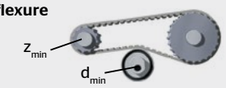
RPM n [min^{-1}]	F_{Uspec} [N/cm]	M_{spec} [Ncm/cm]	P_{spec} [W/cm]	RPM n [min^{-1}]	F_{Uspec} [N/cm]	M_{spec} [Ncm/cm]	P_{spec} [W/cm]
0	38,81	3,088	0,000	**1.900**	24,39	1,941	3,862
20	38,37	3,053	0,064	**2.000**	24,06	1,914	4,010
40	37,95	3,020	0,126	**2.200**	23,43	1,865	4,296
60	37,55	2,988	0,188	**2.400**	22,86	1,819	4,572
80	37,17	2,958	0,248	**2.500**	22,59	1,797	4,706
100	36,82	2,930	0,307	**2.600**	22,32	1,777	4,837
150	35,99	2,864	0,450	**2.800**	21,83	1,737	5,093
200	35,24	2,804	0,587	**2.880**	21,63	1,722	5,192
300	33,94	2,701	0,848	**3.000**	21,36	1,700	5,339
400	32,83	2,612	1,094	**3.200**	20,92	1,664	5,577
500	31,86	2,535	1,327	**3.400**	20,50	1,631	5,808
600	31,00	2,467	1,550	**3.600**	20,10	1,600	6,031
700	30,23	2,405	1,763	**3.800**	19,73	1,570	6,247
730	30,01	2,388	1,826	**4.000**	19,37	1,541	6,457
800	29,53	2,350	1,968	**4.500**	18,54	1,476	6,954
900	28,89	2,299	2,166	**5.000**	17,80	1,416	7,416
1.000	28,29	2,252	2,358	**5.500**	17,12	1,362	7,847
1.100	27,75	2,208	2,543	**6.000**	16,50	1,313	8,249
1.200	27,24	2,167	2,724	**6.500**	15,92	1,267	8,625
1.300	26,76	2,129	2,899	**7.000**	15,39	1,225	8,977
1.400	26,31	2,094	3,069	**7.500**	14,89	1,185	9,306
1.460	26,05	2,073	3,169	**8.000**	14,42	1,148	9,614
1.500	25,88	2,060	3,235	**8.500**	13,98	1,113	9,903
1.600	25,48	2,028	3,397	**9.000**	13,56	1,079	10,173
1.700	25,10	1,997	3,556	**9.500**	13,17	1,048	10,425
1.800	24,74	1,968	3,710	**10.000**	12,79	1,018	10,661

Rotational speeds above 10,000 rpm^{-1} need special drive designs. We'll be happy to advise you.

Tensile strength (permissible tensile force on the belt F_{zul} at 0.45% elongation), belt weight

Belt width	b	[mm]	10	15	25	50	100
Tensile strength	F_{zul}	[N]	900	1.360	2.260	4.520	9.050
Belt weight	H5M HP	[kg/m]	0,04	0,06	0,10	0,20	0,406

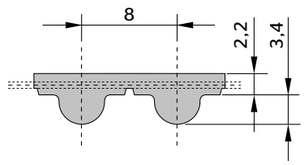
Flexibility (min. number of teeth, min. diameter)*

without contraflexure 	Timing pulley	z_{min}	**18**
	Tension roller (smooth), running on teeth	d_{min} [mm]	**29**
with contraflexure 	Timing pulley	z_{min}	**27**
	Tension roller (smooth), running on back of belt	d_{min} [mm]	**60**

* Values may vary, depending on the application.

H8M HP

Conti Synchromotion
H8M HP
Belts compatible with HTD pulleys acc. to ISO 13050.



Properties:
- Timing belts made of highly durable polyurethane elastomer with steel-cord tension members
- Bifilar (SZ) tension members for improved tracking
- Metric pitch: 8 mm
- Length range: 1,504 - 14,496 mm
- Maximum width: 100 mm
- Width tolerance: +/- 0.5 mm
- Thickness tolerance: +/- 0.3

Product designation (example):

Continental Conti Synchromotion 100-H8M-2800-HP

Continental Conti Synchromotion 100-H8M-2800-HP PAZ

Tooth shear strength (specific belt tooth strength)

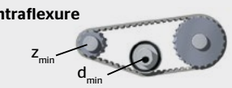
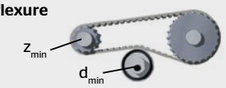
RPM n [min^{-1}]	F_{Uspec} [N/cm]	M_{spec} [Ncm/cm]	P_{spec} [W/cm]	RPM n [min^{-1}]	F_{Uspec} [N/cm]	M_{spec} [Ncm/cm]	P_{spec} [W/cm]
0	77,18	9,826	0,000	**1.500**	46,48	5,918	9,296
20	76,04	9,682	0,203	**1.600**	45,57	5,802	9,721
40	74,98	9,547	0,400	**1.700**	44,70	5,691	10,132
60	73,98	9,420	0,592	**1.800**	43,88	5,586	10,530
80	73,04	9,300	0,779	**1.900**	43,09	5,487	10,916
100	72,15	9,186	0,962	**2.000**	42,34	5,391	11,291
150	70,11	8,927	1,402	**2.200**	40,94	5,212	12,008
200	68,29	8,695	1,821	**2.400**	39,64	5,047	12,685
300	65,15	8,296	2,606	**2.500**	39,03	4,969	13,009
400	62,51	7,959	3,334	**2.600**	38,44	4,894	13,324
500	60,23	7,669	4,016	**2.800**	37,31	4,751	13,930
600	58,23	7,414	4,658	**2.880**	36,88	4,696	14,163
700	56,43	7,185	5,267	**3.000**	36,26	4,617	14,504
730	55,93	7,121	5,444	**3.200**	35,27	4,491	15,049
800	54,81	6,979	5,847	**3.400**	34,34	4,372	15,565
900	53,34	6,791	6,401	**3.600**	33,45	4,259	16,056
1.000	51,98	6,619	6,931	**3.800**	32,61	4,152	16,522
1.100	50,73	6,459	7,440	**4.000**	31,81	4,050	16,964
1.200	49,56	6,310	7,930	**4.500**	29,96	3,815	17,975
1.300	48,47	6,171	8,401	**5.000**	28,29	3,602	18,863
1.400	47,44	6,041	8,856	**5.500**	26,78	3,410	19,638
1.460	46,86	5,966	9,122	**6.000**	25,39	3,233	20,312

Rotational speeds above 6,000 rpm^{-1} need special drive designs. We'll be happy to advise you.

Tensile strength (permissible tensile force on the belt F_{zul} at 0.45% elongation), belt weight

Belt width	b	[mm]	10	15	20	30	50	85	100
Tensile strength	F_{zul}	[N]	1.062	2.006	2.714	4.366	7.434	12.862	15.222
Belt weight	H8M HP	[kg/m]	0,06	0,09	0,13	0,19	0,32	0,54	0,632

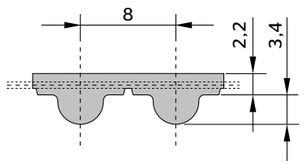
Flexibility (min. number of teeth, min. diameter)*

without contraflexure 	Timing pulley	z_{min}	**20**
	Tension roller (smooth), running on teeth	d_{min} [mm]	**50**
with contraflexure 	Timing pulley	z_{min}	**32**
	Tension roller (smooth), running on back of belt	d_{min} [mm]	**120**

* Values may vary, depending on the application.

H8M HS

Conti Synchromotion
H8M HS
Belts compatible with HTD pulleys acc. to ISO 13050.



Properties:
- Timing belts made of highly durable polyurethane elastomer with steel-cord tension members
- Bifilar (SZ) tension members for improved tracking
- Metric pitch: 8 mm
- Length range: 1,504 - 14,496 mm
- Maximum width: 100 mm
- Width tolerance: +/- 0.5 mm
- Thickness tolerance: +/- 0.3

Product designation (example):

Continental Conti Synchromotion 100-H8M-2800-HS

Continental Conti Synchromotion 100-H8M-2800-HS PAZ

Tooth shear strength (specific belt tooth strength)

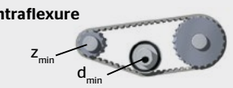
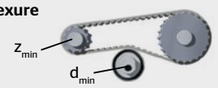
RPM n [min⁻¹]	F_{Uspec} [N/cm]	M_{spec} [Ncm/cm]	P_{spec} [W/cm]	RPM n [min⁻¹]	F_{Uspec} [N/cm]	M_{spec} [Ncm/cm]	P_{spec} [W/cm]
0	77,18	9,826	0,000	**1.500**	46,48	5,918	9,296
20	76,04	9,682	0,203	**1.600**	45,57	5,802	9,721
40	74,98	9,547	0,400	**1.700**	44,70	5,691	10,132
60	73,98	9,420	0,592	**1.800**	43,88	5,586	10,530
80	73,04	9,300	0,779	**1.900**	43,09	5,487	10,916
100	72,15	9,186	0,962	**2.000**	42,34	5,391	11,291
150	70,11	8,927	1,402	**2.200**	40,94	5,212	12,008
200	68,29	8,695	1,821	**2.400**	39,64	5,047	12,685
300	65,15	8,296	2,606	**2.500**	39,03	4,969	13,009
400	62,51	7,959	3,334	**2.600**	38,44	4,894	13,324
500	60,23	7,669	4,016	**2.800**	37,31	4,751	13,930
600	58,23	7,414	4,658	**2.880**	36,88	4,696	14,163
700	56,43	7,185	5,267	**3.000**	36,26	4,617	14,504
730	55,93	7,121	5,444	**3.200**	35,27	4,491	15,049
800	54,81	6,979	5,847	**3.400**	34,34	4,372	15,565
900	53,34	6,791	6,401	**3.600**	33,45	4,259	16,056
1.000	51,98	6,619	6,931	**3.800**	32,61	4,152	16,522
1.100	50,73	6,459	7,440	**4.000**	31,81	4,050	16,964
1.200	49,56	6,310	7,930	**4.500**	29,96	3,815	17,975
1.300	48,47	6,171	8,401	**5.000**	28,29	3,602	18,863
1.400	47,44	6,041	8,856	**5.500**	26,78	3,410	19,638
1.460	46,86	5,966	9,122	**6.000**	25,39	3,233	20,312

Rotational speeds above 6,000 rpm^{-1} need special drive designs. We'll be happy to advise you.

Tensile strength (permissible tensile force on the belt F_{zul} at 0.45% elongation), belt weight

Belt width	b	[mm]	10	15	20	30	50	85	100
Tensile strength	F_{zul}	[N]	1.652	2.876	4.484	6.844	12.000	20.400	24.000
Belt weight	H8M HS	[kg/m]	0,07	0,11	0,14	0,21	0,35	0,60	0,71

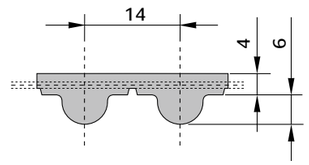
Flexibility (min. number of teeth, min. diameter)*

without contraflexure 	Timing pulley	z_{min}	**28**
	Tension roller (smooth), running on teeth	d_{min} [mm]	**80**
with contraflexure 	Timing pulley	z_{min}	**45**
	Tension roller (smooth), running on back of belt	d_{min} [mm]	**120**

* Values may vary, depending on the application.

H14M HP

Conti Synchromotion
H14M HP
Belts compatible with HTD pulleys acc. to ISO 13050.



Properties:
- Timing belts made of highly durable polyurethane elastomer with steel-cord tension members
- Bifilar (SZ) tension members for improved tracking
- Metric pitch: 14 mm
- Length range: 1,512 - 14,490 mm
- Maximum width: 100 mm
- Width tolerance: +/- 0.5 mm
- Thickness tolerance: +/- 0.4

Product designation (example):

Continental Conti Synchromotion 100-H14M-4956-HP

Continental Conti Synchromotion 100-H14M-4956-HP PAZ

Tooth shear strength (specific belt tooth strength)

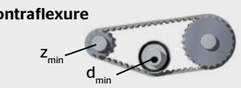
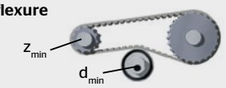
RPM n [min⁻¹]	F_{Uspec} [N/cm]	M_{spec} [Ncm/cm]	P_{spec} [W/cm]	RPM n [min⁻¹]	F_{Uspec} [N/cm]	M_{spec} [Ncm/cm]	P_{spec} [W/cm]
0	141,12	31,444	0,000	**1.400**	81,03	18,055	26,470
20	138,78	30,922	0,648	**1.460**	79,86	17,795	27,207
40	136,59	30,434	1,275	**1.500**	79,11	17,626	27,687
60	134,53	29,977	1,883	**1.600**	77,29	17,221	28,854
80	132,60	29,546	2,475	**1.700**	75,56	16,837	29,974
100	130,78	29,139	3,051	**1.800**	73,93	16,472	31,049
150	126,61	28,210	4,431	**1.900**	72,36	16,124	32,081
200	122,90	27,385	5,735	**2.000**	70,87	15,792	33,074
300	116,55	25,968	8,158	**2.200**	68,08	15,169	34,946
400	111,21	24,780	10,380	**2.400**	65,50	14,594	36,680
500	106,62	23,757	12,439	**2.500**	64,28	14,323	37,498
600	102,59	22,859	14,363	**2.600**	63,11	14,061	38,285
700	99,00	22,058	16,169	**2.800**	60,88	13,564	39,773
730	97,99	21,834	16,691	**2.880**	60,03	13,375	40,337
800	95,75	21,335	17,874	**3.000**	58,79	13,099	41,151
900	92,80	20,677	19,488	**3.200**	56,82	12,661	42,427
1.000	90,09	20,073	21,020	**3.400**	54,97	12,247	43,606
1.100	87,58	19,515	22,479	**3.600**	53,21	11,856	44,695
1.200	85,25	18,995	23,870	**3.800**	51,54	11,484	45,698
1.300	83,07	18,510	25,199	**4.000**	49,95	11,130	46,620

Rotational speeds above 4,000 rpm^{-1} need special drive designs. We'll be happy to advise you.

Tensile strength (permissible tensile force on the belt F_{zul} at 0.45% elongation), belt weight

Belt width	b	[mm]	40	55	85	100
Tensile strength	F_{zul}	[N]	9.600	13.200	20.400	24.000
Belt weight	H14M HP	[kg/m]	0,45	0,62	0,96	1,127

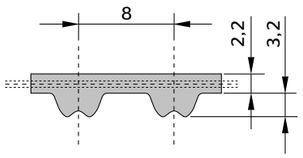
Flexibility (min. number of teeth, min. diameter)*

without contraflexure 	Timing pulley	z_{min}	**26**
	Tension roller (smooth), running on teeth	d_{min} [mm]	**120**
with contraflexure 	Timing pulley	z_{min}	**36**
	Tension roller (smooth), running on back of belt	d_{min} [mm]	**180**

* Values may vary, depending on the application.

R8M HP

Conti Synchromotion
R8M HP
Belts compatible with RPP pulleys acc. to ISO 13050.



Properties:
- Timing belts made of highly durable polyurethane elastomer with steel-cord tension members
- Bifilar (SZ) tension members for improved tracking
- Metric pitch: 8 mm
- Length range: 1,504 - 14,496 mm
- Maximum width: 100 mm
- Width tolerance: +/- 0.5 mm
- Thickness tolerance: +/- 0.3

Product designation (example):

Continental Conti Synchromotion 100-R8M-8000-HP

Continental Conti Synchromotion 100-R8M-8000-HP PAZ

Tooth shear strength (specific belt tooth strength)

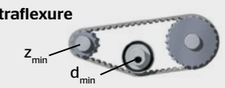
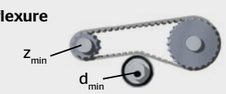
RPM n [min⁻¹]	F_{Uspec} [N/cm]	M_{spec} [Ncm/cm]	P_{spec} [W/cm]	RPM n [min⁻¹]	F_{Uspec} [N/cm]	M_{spec} [Ncm/cm]	P_{spec} [W/cm]
0	81,03	10,318	0,000	**1.500**	48,80	6,214	9,760
20	79,84	10,166	0,213	**1.600**	47,84	6,092	10,207
40	78,73	10,024	0,420	**1.700**	46,93	5,976	10,638
60	77,68	9,891	0,621	**1.800**	46,07	5,866	11,057
80	76,69	9,765	0,818	**1.900**	45,25	5,761	11,462
100	75,76	9,646	1,010	**2.000**	44,46	5,661	11,856
150	73,61	9,373	1,472	**2.200**	42,98	5,473	12,608
200	71,70	9,130	1,912	**2.400**	41,62	5,299	13,319
300	68,41	8,710	2,736	**2.500**	40,98	5,218	13,659
400	65,64	8,357	3,501	**2.600**	40,36	5,138	13,991
500	63,24	8,053	4,216	**2.800**	39,18	4,988	14,627
600	61,14	7,784	4,891	**2.880**	38,73	4,931	14,872
700	59,26	7,545	5,531	**3.000**	38,07	4,848	15,229
730	58,73	7,477	5,716	**3.200**	37,03	4,715	15,801
800	57,56	7,328	6,139	**3.400**	36,05	4,590	16,344
900	56,01	7,131	6,721	**3.600**	35,12	4,472	16,859
1.000	54,58	6,950	7,278	**3.800**	34,24	4,360	17,348
1.100	53,26	6,782	7,812	**4.000**	33,40	4,252	17,813
1.200	52,04	6,626	8,326	**4.500**	31,46	4,005	18,874
1.300	50,89	6,480	8,821	**5.000**	29,71	3,783	19,806
1.400	49,82	6,343	9,299	**5.500**	28,12	3,580	20,620
1.460	49,20	6,264	9,578	**6.000**	26,66	3,394	21,328

Rotational speeds above 6,000 rpm^{-1} need special drive designs. We'll be happy to advise you.

Tensile strength (permissible tensile force on the belt F_{zul} at 0.45% elongation), belt weight

Belt width	b	[mm]	10	15	20	30	50	85	100
Tensile strength	F_{zul}	[N]	1.062	2.006	2.714	4.366	7.434	12.862	15.222
Belt weight	R8M HP	[kg/m]	0,06	0,09	0,12	0,18	0,30	0,51	0,603

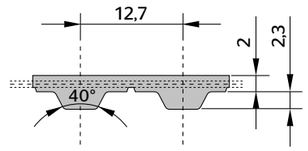
Flexibility (min. number of teeth, min. diameter)*

without contraflexure 	Timing pulley	z_{min}	**20**
	Tension roller (smooth), running on teeth	d_{min} [mm]	**50**
with contraflexure 	Timing pulley	z_{min}	**32**
	Tension roller (smooth), running on back of belt	d_{min} [mm]	**120**

* Values may vary, depending on the application.

H HP

Conti Synchromotion
H HP
Belts compatible with H pulleys acc. to DIN 5296.



Properties:
- Timing belts made of highly durable polyurethane elastomer with steel-cord tension members
- Bifilar (SZ) tension members for improved tracking
- Imperial pitch: 1/2 inch = 12.7 mm
- Length range: 1,511 - 14,491 mm
- Maximum width: 400 (in 1/10 inch)
- Width tolerance: +/- 0.5 mm
- Thickness tolerance: +/- 0.3

Product designation (example):

Continental Conti Synchromotion 200-H-2540-HP

Continental Conti Synchromotion 200-H-2540-HP PAZ

Tooth shear strength (specific belt tooth strength)

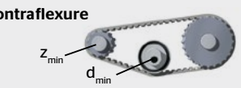
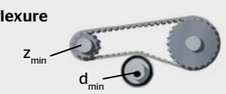
RPM n [min⁻¹]	F_{Uspec} [N/cm]	M_{spec} [Ncm/cm]	P_{spec} [W/cm]	RPM n [min⁻¹]	F_{Uspec} [N/cm]	M_{spec} [Ncm/cm]	P_{spec} [W/cm]
0	50,50	10,207	0,000	**1.900**	25,78	5,211	10,368
20	49,00	9,903	0,207	**2.000**	25,38	5,130	10,743
40	47,72	9,646	0,404	**2.200**	24,63	4,978	11,468
60	46,62	9,423	0,592	**2.400**	23,94	4,839	12,161
80	45,65	9,227	0,773	**2.500**	23,62	4,773	12,497
100	44,78	9,051	0,948	**2.600**	23,30	4,710	12,825
150	42,94	8,679	1,363	**2.800**	22,71	4,591	13,462
200	41,43	8,375	1,754	**2.880**	22,49	4,546	13,710
300	39,06	7,895	2,480	**3.000**	22,16	4,480	14,074
400	37,22	7,523	3,151	**3.200**	21,65	4,376	14,663
500	35,72	7,219	3,780	**3.400**	21,16	4,278	15,230
600	34,44	6,962	4,374	**3.600**	20,70	4,185	15,777
700	33,34	6,739	4,940	**3.800**	20,27	4,097	16,304
730	33,04	6,678	5,105	**4.000**	19,86	4,014	16,812
800	32,37	6,543	5,481	**4.500**	18,91	3,822	18,009
900	31,50	6,367	6,001	**5.000**	18,06	3,650	19,109
1.000	30,71	6,208	6,501	**5.500**	17,28	3,494	20,122
1.100	30,00	6,063	6,984	**6.000**	16,58	3,351	21,055
1.200	29,34	5,929	7,451	**6.500**	15,93	3,220	21,915
1.300	28,72	5,806	7,904	**7.000**	15,33	3,098	22,708
1.400	28,15	5,691	8,343	**7.500**	14,76	2,984	23,439
1.460	27,83	5,625	8,601	**8.000**	14,24	2,878	24,111
1.500	27,62	5,583	8,770	**8.500**	13,74	2,778	24,729
1.600	27,12	5,482	9,185	**9.000**	13,28	2,684	25,295
1.700	26,65	5,387	9,589	**9.500**	12,84	2,595	25,813
1.800	26,20	5,296	9,984	**10.000**	12,42	2,510	26,285

Rotational speeds above 10,000 rpm^{-1} need special drive designs. We'll be happy to advise you.

Tensile strength (permissible tensile force on the belt F_{zul} at 0.45% elongation), belt weight

Belt width	b	[1/10 inch / mm]	050 / 12,7	075 / 19,1	100 / 25,4	150 / 38,1	200 / 50,8	300 / 76,2	400 / 101,6
Tensile strength	F_{zul}	[N]	1.216	1.824	2.433	3.649	4.865	7.298	9.730
Belt weight	H HP	[kg/m]	0,06	0,08	0,11	0,17	0,23	0,34	0,45

Flexibility (min. number of teeth, min. diameter)*

without contraflexure 	Timing pulley	z_{min}	**14**
	Tension roller (smooth), running on teeth	d_{min} [mm]	**60**
with contraflexure 	Timing pulley	z_{min}	**20**
	Tension roller (smooth), running on back of belt	d_{min} [mm]	**80**

* Values may vary, depending on the application.

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