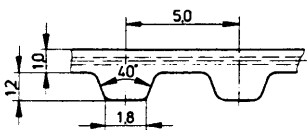
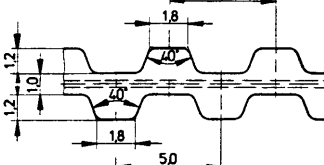


T5 BELTS

SS SINGLE SIDED



DL DOUBLE SIDED



AVAILABILITY



TYPE profile/length	No. of teeth Z	BRECO M / V		BRECOFLEX	
		SS	DL	SS	DL
T5 / 100	20	•	•		
T5 / 150	30	•	•		
T5 / 165	33	•	•		
T5 / 180	36	•	•		
T5 / 185	37	•	•		
T5 / 200	40	•	•		
T5 / 210	42	•	•		
T5 / 215	43	•	•		
T5 / 220	44	•	•		
T5 / 225	45	•	•		
T5 / 240	48	•	•		
T5 / 245	49	•	•		
T5 / 250	50	•	•		
T5 / 255	51	•	•		
T5 / 260	52	•	•		
T5 / 270	54	•	•		
T5 / 280	56	•	•		
T5 / 295	59	•	•		
T5 / 300	60	•	•		
T5 / 305	61	•	•		
T5 / 330	66	•	•		
T5 / 340	68	•	•		
T5 / 355	71	•	•		
T5 / 365	73	•	•		
T5 / 370	74	•	•		
T5 / 390	78	•	•		
T5 / 400	80	•	•		
T5 / 410	82	•	•		
T5 / 420	84	•	•		
T5 / 435	87	•	•		
T5 / 455	91	•	•		
T5 / 460	92	•	•		
T5 / 480	96	•	•		
T5 / 500	100	•	•		
T5 / 505	101	•	•		
T5 / 510	102	•	•		
T5 / 515	103	•	•		
T5 / 525	105	•	•		
T5 / 545	109	•	•		
T5 / 550	110	•	•		
T5 / 560	112	•	•		
T5 / 575	115	•	•		
T5 / 590	118	•	•		
T5 / 610	122	•	•		
T5 / 620	124	•	•		
T5 / 625	125	•	•		
T5 / 630	126	•	•		
T5 / 650	130	•	•		
T5 / 660	132	•	•		
T5 / 690	138	•	•		
T5 / 700	140	•	•		
T5 / 720	144	•	•		
T5 / 725	145	•	•		

Any joined length available in pitch multiples from 500mm.
Minimum quantities apply to belts of 6, 8, 10, 12 or 16mm width

Min. length 650mm
Min. qty. as per SS

TECHNICAL DATA SUMMARY

Potential capacity 5 kW
Maximum speed 40000 rpm
Maximum linear speed 80 m/s
Allowable tensile load F_{zul} 350N / 10mm of belt width
Weight per metre 0.024 kg / 10mm of belt width
Full technical data see page 113

STANDARD BELT AND PULLEY WIDTHS

Standard belt widths b	6	8	10	12	16	20	25	32	50
Pulley face width B	11	13	15	17	21	25	30	37	55
Stock pulley width B_N			21		27		36		

TYPE profile/length	No. of teeth Z	BRECO M / V		BRECOFLEX	
		SS	DL	SS	DL
T5 / 750	150	•	•		
T5 / 755	151	•	•		
T5 / 765	153	•	•		
T5 / 780	156	•	•		
T5 / 800	160	•	•		
T5 / 815	163	•	•		
T5 / 840	168	•	•		
T5 / 860	172	•	•		
T5 / 900	180	•	•		
T5 / 920	184	•	•		
T5 / 925	185	•	•		
T5 / 940	188	•	•		
T5 / 945	189	•	•		
T5 / 990	198	•	•		
T5 / 1040	208	•	•		
T5 / 1075	215	•	•		
T5 / 1100	220	•	•		
T5 / 1160	232	•	•		
T5 / 1215	243	•	•		
T5 / 1315	263	•	•		
T5 / 1325	265	•	•		
T5 / 1380	276	•	•		
T5 / 1400	280	•	•		
T5 / 1500	300	•	•		
T5 / 1600	320	•	•		
T5 / 1700	340	•	•		
T5 / 1800	360	•	•		
T5 / 1900	380	•	•		
T5 / 2000	400	•	•		
T5 / 2120	424	•	•		
T5 / 2240	448	•	•		
T5 / 2360	472	•	•		
T5 / 2500	500	•	•		
T5 / 2650	530	•	•		
T5 / 2800	560	•	•		
T5 / 3000	600	•	•		
T5 / 3150	630	•	•		
T5 / 3350	670	•	•		
T5 / 3550	710	•	•		
T5 / 3750	750	•	•		
T5 / 4000	800	•	•		
T5 / 4250	850	•	•		
T5 / 4500	900	•	•		
T5 / 4750	950	•	•		
T5 / 5000	1000	•	•		
T5 / 5300	1060	•	•		
T5 / 5600	1120	•	•		
T5 / 6000	1200	•	•		
T5 / 6300	1260	•	•		
T5 / 6700	1340	•	•		
T5 / 7100	1420	•	•		
T5 / 7500	1500	•	•		

FLEX=endless, M=open length, V=joined

- Standard belt length, normally held in stock
- Standard belt length, only available to special order.
- * Intermediate lengths available between 1050-15000mm, only available to special order. Min. quantity will apply.

BELT ORDER CODE EXAMPLE

Width	Profile / length	Specification
10	T5 / 455	Synchroflex
25	T5 / 1600	Brecoflex

Tooth shear strength, tension member tensile strength and flexibility determine belt dimensions. See p.102.

1) Tooth Shear Strength

The belt width (in cm) required to transmit known peripheral force F_U , torque M or power P without exceeding the maximum allowable tooth shear strength is calculated using any of the following formulae and the values from the table:

$$b = \frac{F_U}{Z_e \cdot F_{U\text{spez}}}$$

$$b = \frac{100 \cdot M}{Z_1 \cdot Z_e \cdot M_{\text{spez}}}$$

$$b = \frac{1000 \cdot P}{Z_1 \cdot Z_e \cdot P_{\text{spez}}}$$

b = belt width (in cm)

$F_{U\text{spez}}$ = specific peripheral force (N/cm)

M_{spez} = specific torque (Ncm/cm)

P_{spez} = specific power (W/cm)

Z_1 = No. of teeth on the small pulley

Z_2 = No. of teeth in the large pulley

t = pitch in mm

a = centre distance in mm

Z_e = No. of teeth in mesh (see below)

$Z_{e\text{max}} = 12$ for Brecoflex®, Synchroflex® or Breco® M

$Z_{e\text{max}} = 6$ for Breco® V timing belts

To calculate the number of teeth in mesh, Z_e :

$$Z_e = \frac{Z_1}{180} \cdot \arccos \frac{(Z_2 - Z_1) \cdot t}{2\pi a}$$

Specific Tooth Shear Strength Tables

Rpm, n (min ⁻¹)	$F_{U\text{spez}}$ (N/cm)	M_{spez} (Ncm/cm)	P_{spez} (W/cm)	Rpm, n (min ⁻¹)	$F_{U\text{spez}}$ (N/cm)	M_{spez} (Ncm/cm)	P_{spez} (W/cm)	Rpm, n (min ⁻¹)	$F_{U\text{spez}}$ (N/cm)	M_{spez} (Ncm/cm)	P_{spez} (W/cm)
24.00	1.910	0.000		15.58	1.240	1.428		12.16	0.967	3.241	
23.38	1.861	0.039		15.31	1.218	1.531		11.96	0.951	3.338	
22.86	1.819	0.076		15.06	1.198	1.632		11.77	0.936	3.530	
22.41	1.783	0.112		14.83	1.180	1.730		11.59	0.922	3.670	
22.01	1.751	0.147		14.61	1.162	1.826		11.42	0.909	3.807	
21.65	1.723	0.180		14.40	1.146	1.920		11.03	0.878	4.136	
20.28	1.614	0.338		14.21	1.131	2.013		10.68	0.850	4.450	
19.30	1.536	0.483		14.03	1.116	2.104		10.36	0.825	4.750	
18.55	1.476	0.618		13.85	1.102	2.193		10.07	0.802	5.037	
17.93	1.427	0.747		13.69	1.089	2.281		9.81	0.780	5.312	
17.41	1.385	0.870		13.38	1.065	2.453		9.56	0.761	5.577	
16.96	1.349	0.989		13.10	1.042	2.619		9.33	0.742	5.831	
16.56	1.318	1.104		12.84	1.021	2.781		9.11	0.725	6.076	
16.20	1.289	1.215		12.59	1.002	2.938		8.72	0.694	6.540	
15.88	1.263	1.323		12.37	0.984	3.092		8.37	0.666	6.970	

For designs over the quoted speed, please contact our Technical Department

2) Tensile Strength of Tension Member

Allowable tensile load F_{zul} on belt cross section in Newtons

BELT WIDTH (in mm)	6	10	16	25	32	50	75	100
	180	330	570	930	1200	1920	2940	3930
Breco M	180	330	570	840	960	1260		
Breco V	90	165	270	420	480	630		
Brecoflex								