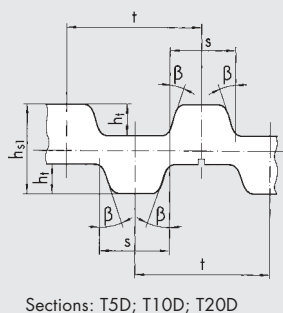
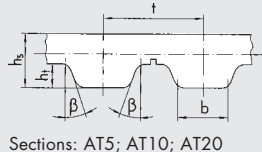
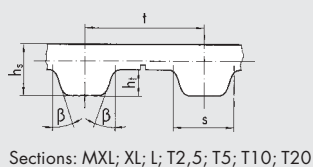
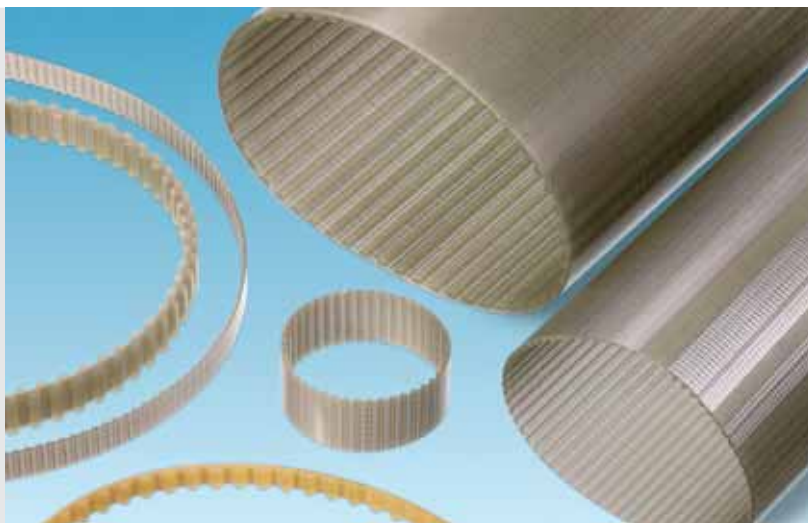
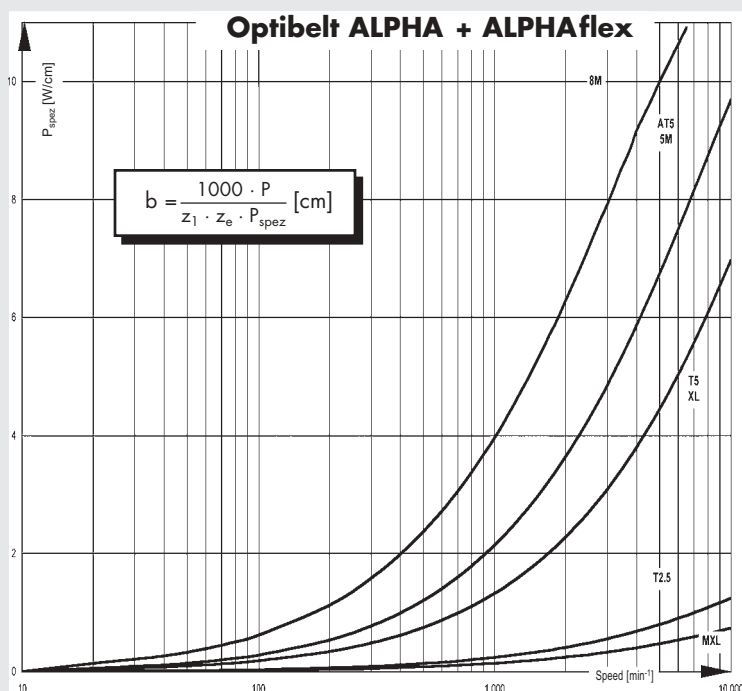


optibelt ALPHA for drive performance



Available versions:

- Teeth on one side (standard); teeth on both sides (sections T2,5; T5; T10; T20)
- Coloured, antistatic, equipped with cams or lugs (SRP)
- Special tension cords: E tension cord – highly flexible; high grade stainless steel; aramid; polyester



Optibelt ALPHA timing belts are manufactured in moulds and consist of high tensile strength, flexible tension cord and abrasion resistant polyurethane – also available as double section belts. The moulding process offers the following advantages:

- High pitch accuracy and low tolerances
- Excellent bonding of the polyurethane to the tension cord
- Belt lengths of up to 2350 mm
- Nominal sleeve widths up to 380 mm

Section	Pitch t [mm]	Belt height h_s [mm]	Tooth height h_t [mm]	Max. belt speed v_{max}
T2,5**	2,5	1,3	0,7	80 m/s
T5	5	2,2	1,2	60 m/s
T5D		3,4		
T10	10	4,5	2,5	40 m/s
T10D		7,0		
T20	20	8,0	5,0	30 m/s
T20D		13,0		
AT5	5	2,7	1,2	60 m/s
AT10	10	5,0	2,5	40 m/s
AT20	20	9,0	5,0	30 m/s
5M*	5	3,7	2,2	60 m/s
8M*	8	5,6	3,38	40 m/s
14M*	14	10,0	6,1	35 m/s
MXL**	2,032	1,14	0,51	80 m/s
XL**	5,08	2,3	1,27	60m/s
L**	9,525	3,6	1,91	40 m/s

*Only available as Optibelt ALPHAflex

**Only available as Optibelt ALPHA

optibelt ALPHA Spezial / ALPHA SRP special timing belts for conveying requirements

Cleats

Optibelt ALPHA V Special/ALPHAflex Special timing belts have cleats or lugs added separately to the base belt. Optibelt ALPHA V or Optibelt ALPHAflex. Optibelt ALPHA SRP belts are moulded endless belts where the cleats, lugs or fins are a part of the design of the outer part of the mould. Should the present product range not provide a shape or pitch of the cleat or lug appropriate to your requirements, it can be cost effectively manufactured / adjusted according to your specifications. On this page, you will see an extract from our standard product range. We would be delighted to support you to help solve your conveying problems.

Procedure of manufacturing the cleated belt

• Determination of the surrounding construction

Selection of the timing belt (type, length) as well as the corresponding pulleys. When the belt has to run over support rails, we recommend the use of Polyamide fabric on the tooth face.

• Selection of the cleat

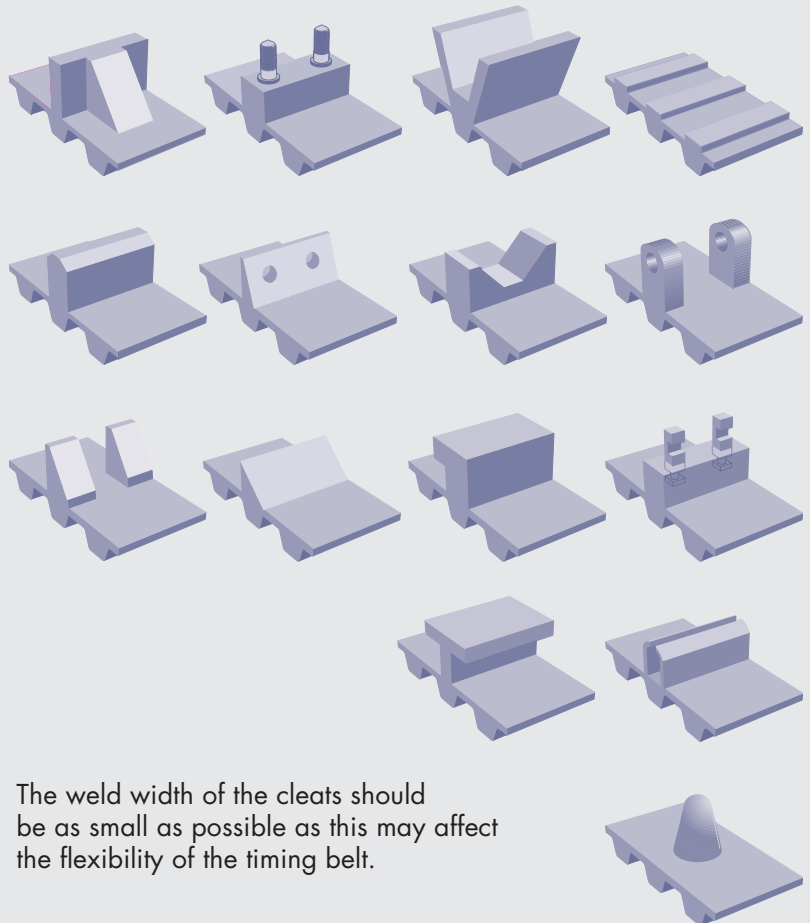
Selection and design of the conveying cleat is determined by the application. The most favourable option is to use an available standard cleat from our wide product range. These cleats can be adjusted by mechanical rework, if necessary. Special designs for individual solutions from injection moulds are possible (Note that tooling costs may be applicable!).

• Welding

If possible, the cleat should be welded opposite the belt tooth in order to maintain the flexibility of the timing belt. Welding produces a fillet of approx. 0.5-1.0 mm. This can be removed, if required. When fixing the cleat using adhesive, no welding fillet is produced.

• Tolerances

The cleat position should be a multiple of the belt tooth pitch, thus there is no accumulated error. The tolerance of the cleat to the set position is ± 0.5 mm. The tolerance of the cleat height is -0.5 mm.



Recommended welding width [mm] of the cleat related to the number of teeth							
Section	Number of teeth of the pulley						
	20	25	30	40	50	60	100
T5/AT5	5 (2)	6 (2)	6 (3)	8 (4)	9 (6)	10 (8)	12 (10)
T10/AT10	8 (3)	9 (4)	10 (4)	12 (6)	14 (9)	15 (12)	20 (20)
T20/AT20	12 (5)	13 (5)	15 (6)	18 (6)	20 (12)	23 (20)	30 (30)
XL	5 (2)	6 (2)	6 (3)	8 (4)	9 (6)	10 (8)	12 (10)
L	6 (3)	7 (3)	8 (4)	10 (5)	12 (7)	13 (10)	16 (16)
H	8 (4)	9 (5)	10 (6)	12 (7)	14 (10)	15 (12)	20 (20)
XH	13 (5)	14 (5)	15 (6)	18 (8)	20 (12)	23 (20)	30 (30)

Welding position opposite to the spaces between the teeth

Welding position opposite to the teeth