

Section 2 - Synchronous Belts - Polyurethane Belts

DIN 7721 - ISO 13050 / IP27 RMA-MPTA

Metric Classical Trapezoidal Tooth

Structure details:

Tensile cord

In standard as Steel cord, this is a high strength helocoidal tension members delivering extreme high breaking load, low elongation to reach high transmission power.

Belt can also be produced with Aramid or Polyester cords according to application requirements for ie non magnetic or water exposed or high flexible drives.

Polyurethane body

High grade mixed thermoset polyurethane compound, it is built to deliver exceptional dimensional stability, excellent abrasion resistance, no pilling generation, exceptional rigidity.

Properties:

We can produce our Polyurethane Molded Endless Power metric classical Trapezoidal Tooth in double sided timing belts in overlapping arrangement

Our polyurethane molded truly endless metric classical Trapezoidal Timing Belts have been designated to match the highest European design requirements

Temperature range from -30°C up to +80°C, support peak to +110°C

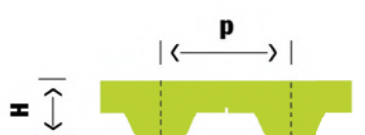
Non static conductive, maximum oil and ozone resistance.

Heat resistance, support flex fatigue

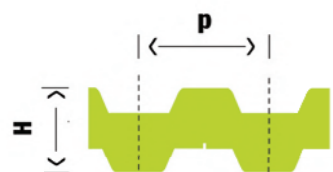
Meets RoHS and REACH requirements

Section Dimensions:

Our classical Trapezoidal Timing Belts have been designated to be used with timing pulleys according to ISO 17396.

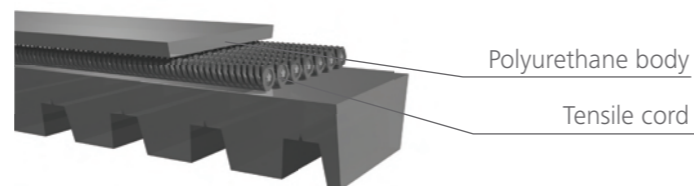


T- tooth single sided profile



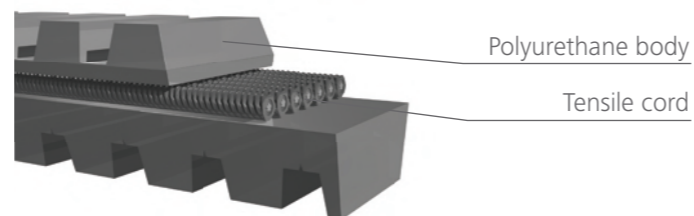
Overlapping double-sided T- tooth profile: DB-T

ISO / CD 17396	T2,5	T5	T10
Pitch (mm)	2.5	5.0	10.0
Height (mm)	0.7	1.2	2.5
Angle (°) +/- 2	40	40	40
Width (mm)	1.50	2.65	5.30
Foot radius (mm)	0.20	0.40	0.60
Head radius (mm)	0.20	0.40	0.60
Belt Thickness (mm)	1.3	2.2	4.5
Belt Weight per meter per 100mm width (Kg/m)	0.17	0.22	0.50
Min. crimp Steel Cord (mm)	10	10	12
Min. crimp Kevlar Cord (mm)	12	12	15
Min. crimp Polyester Cord (mm)	12	12	15
Teeth range (min-max)	48 - 520	29 - 391	34 - 304
Pitch length (mm)	120 - 1300	145 - 1955	340 - 3040



Polyurethane body

Tensile cord



Polyurethane body

Tensile cord

STEIGENTECH	T2,5 x 230 x 6	Date code
STEIGENTECH	AT10 x 960 x 30 - ARAMID	Date code
STEIGENTECH	D-T5 x 750 x 9	Date code

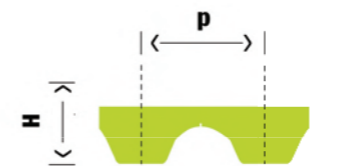
Application:

Thanks to polyurethane they have excellent resistance to wear, fatigue and environment, flexibility allowing serpentine drive, multiple applications are possible.

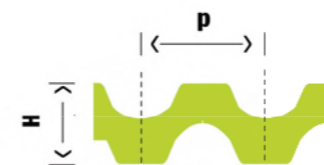
Our precision molded truly endless polyurethane process offers a perfect power synchronous transmission belts where clean and quite operation is required while maintaining over time and fatigue a perfect tooth meshing.

It features lightweighting drive, oild and ozone resistant, making our belt very attractive for appliances or office machines and energy concerned drive.

From office automation, appliance machines, medical tech equipment, banking and ATM machines, automatic vending machines up to machine tools, woodworking, printing or packaging equipments.



AT- tooth single sided profile



Overlapping double-sided AT- tooth profile: DB-AT

ISO / CD 17396	AT5	AT10
Pitch (mm)	5.0	10.0
Height (mm)	1.2	2.5
Angle (°) +/- 2	50	50
Width (mm)	2.5	5.0
Foot radius (mm)	0.86	1.25
Head radius (mm)	0.40	0.40
Belt Thickness (mm)	2.7	5.0
Belt Weight per meter per 100mm width (Kg/m)	0.35	0.6
Min. crimp Steel Cord (mm)	15	15
Min. crimp Kevlar Cord (mm)	15	15
Min. crimp Polyester Cord (mm)	15	15
Teeth range (min-max)	60 - 400	25 - 194
Pitch length (mm)	300 - 2000	250 - 1940

Product Codification:

ISO designation:

Possible sections : T2,5, T5/AT5, T10/AT10

T2,5	x	230	x	6	x	PU	x	S
T-tooth pitch (2,5 mm)		Pitch length (mm)		Belt width (mm)		Polyurethane		Steel Cord
AT10	x	960	x	30	x	PU	x	A
AT-tooth pitch (10 mm)		Pitch length (mm)		Belt width (mm)		Polyurethane		Aramid Cord
DB-T5	x	750	x	9	x	PU	x	S
T-tooth pitch (5 mm)		Pitch length (mm)		Belt width (mm)		Polyurethane		Steel Cord
Double-sided Belt Type								
DB-AT10	x	1750	x	20	x	PU	x	A
AT-tooth pitch (10 mm)		Pitch length (mm)		Belt width (mm)		Polyurethane		Aramid Cord
Double-sided Belt Type								