

Section 2 - Synchronous Belts - Polyurethane Belts

DIN 7721 - ISO 13050 / IP27 RMA-MPTA

Curvilinear 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 Curvilinear Tooth in double-sided timing belts in overlapping arrangement

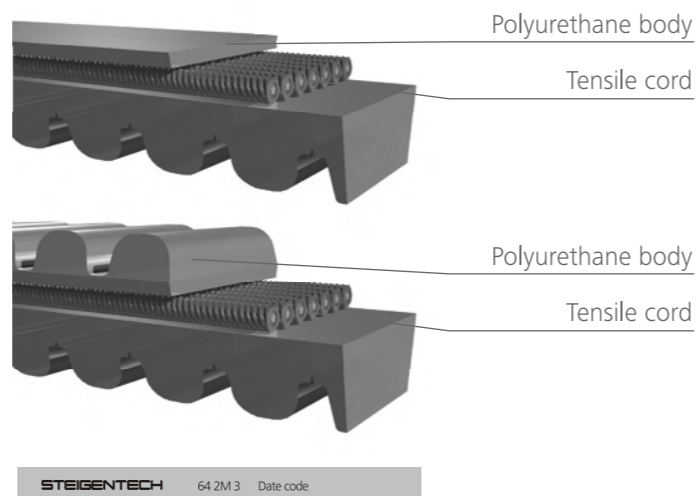
Our polyurethane molded truly endless Curvilinear Tooth Timing Belts have been designated to match the highest European design requirements

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

Non static conductive, maximum oil and ozone resistance.

Heat resistance, support flex fatigue

Meets RoHS and REACH requirements



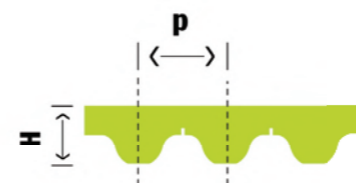
Application:

Thanks to polyurethane, this has 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.



S-type tooth single sided profile

ISO 13050	S2M	S3M	S5M
Pitch (mm)	2.0	3.0	5.0
Height (mm)	0.76	1.14	1.91
Radius (mm)	1.30	1.95	3.25
Width (mm)	1.30	1.95	3.25
Foot radius (mm)	0.20	0.30	0.50
Head radius (mm)	0.20	0.30	0.50
Belt Thickness (mm)	1.36	2.30	3.40
Belt Weight per meter per 100mm width (Kg/m)	0.28	0.48	0.59
Min. crimp Steel Cord (mm)	10	10	20
Min. crimp Kevlar Cord (mm)	12	12	22
Min. crimp Polyester Cord (mm)	12	12	22
Teeth range (min-max)	70 - 140	70 - 200	90 - 125
Pitch length (mm)	140 - 280	210 - 600	450 - 625

Product Codification:

ISO 13050 designation:

Possible sections : 2M, 3M, 5M, 8M

64	-	2M	-	3	-	PU	-	S
Pitch length (mm)		Pitch (2 mm)		Belt width (mm)		Polyurethane		Steel Cord
								H-type tooth profile

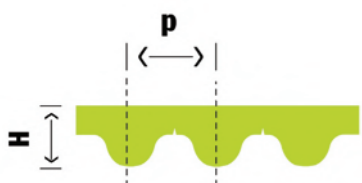
1680	-	D8M	-	20	-	PU	-	S
Pitch length (mm)		Double-sided Pitch (8 mm)		Belt width (mm)		Polyurethane		Steel Cord
								H-type tooth profile

ISO 13050 designation:

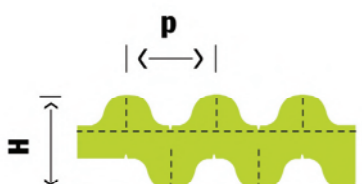
Possible sections : S2M, S3M, S5M

615	-	S5M	-	15	-	PU	-	A
Pitch length (mm)		Pitch (5 mm)		Belt width (mm)		Polyurethane		Aramid Cord
								S-type tooth profile

Section Dimensions:



H-type tooth single sided profile



Overlapping double sided H-type tooth profile: DB- HM

ISO 13050	2M	3M	5M	8M
Pitch (mm)	2.0	3.0	5.0	8.0
Height (mm)	0.75	1.17	2.06	3.38
Angle (°) +/- 1	14	14	14	14
Width (mm)	1.17	1.78	3.05	5.15
Foot radius (mm)	0.15	0.26	0.42	0.70
Head radius (mm)	0.56	0.87	1.49	2.46
Belt Thickness (mm)	1.36	2.40	3.80	6.00
Belt Weight per meter per 100mm width (Kg/m)	0.17	0.31	0.5	0.700
Min. crimp Steel Cord (mm)	10	10	20	35
Min. crimp Kevlar Cord (mm)	12	12	22	38
Min. crimp Polyester Cord (mm)	12	12	22	38
Teeth range (min-max)	32 - 140	39 - 321	60 - 500	50 - 300
Pitch length (mm)	64 - 280	116 - 963	300 - 2500	400 - 2400