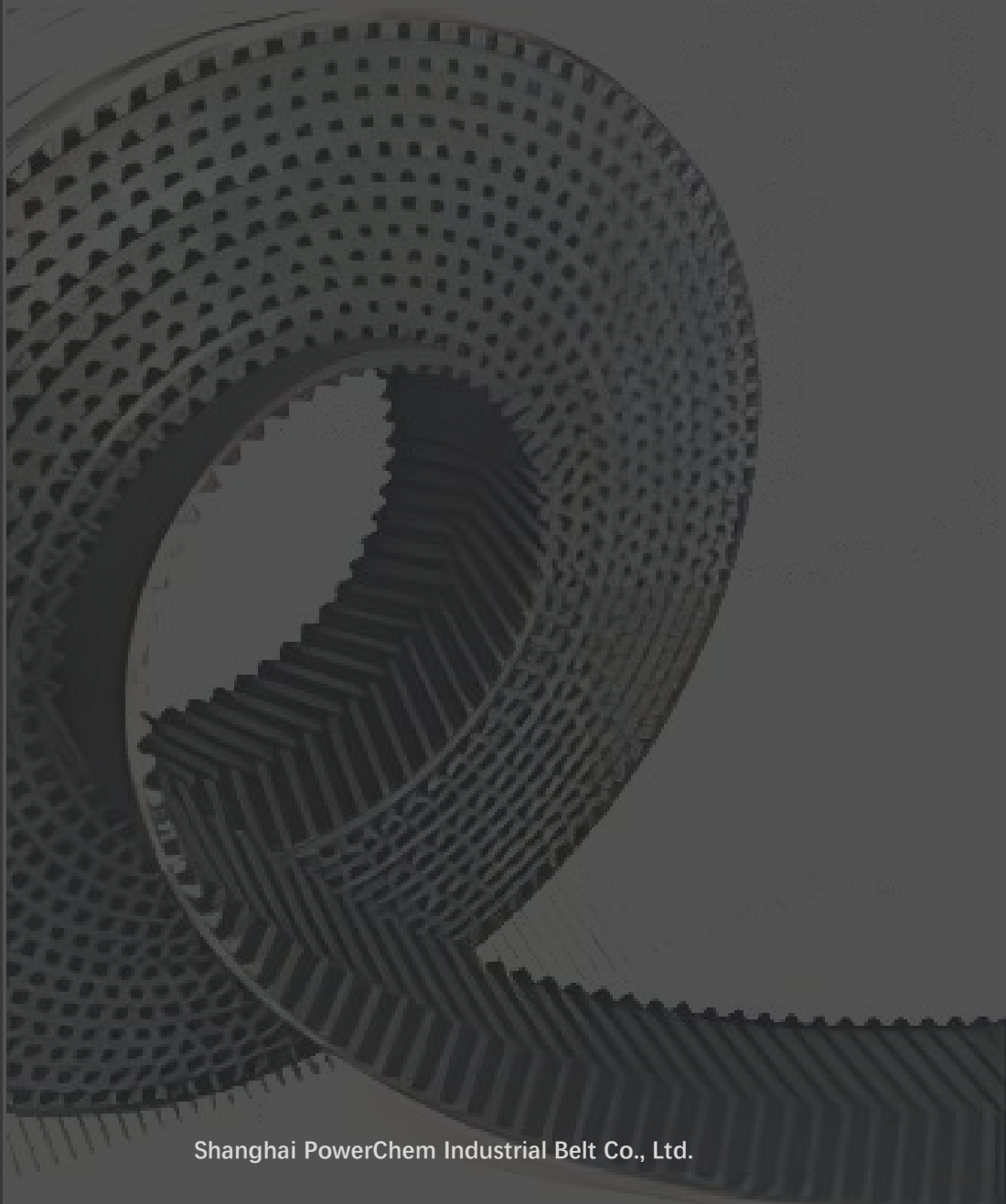
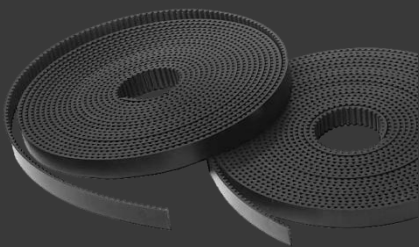




Polyurethane Timing Belt

PowerChem[®]



Shanghai PowerChem Industrial Belt Co., Ltd.

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Helical Offset Tooth (H.T.O.) DualSync® PU Series

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Open-end | Spliced PU Timing Belt

- T5-T10-T20-DT5-DT10 34
- AT3-AT5-AT10-AT15-AT20-DAT5-DAT10 40
- XL-L-H-XH-DH 50
- HTD3M-5M-8M-14M-DHTD5M-DHTD8M 58
- STD3M-5M-8M-14M-DS8M 66
- RPP5M-8M-14M 74
- TK5-K6 · ATK5-K6 · TK10-K6 · ATK10-K6 80
- TK10-K13 · ATK10-K13 84
- HK-K13 · HTDK8M-K8 86
- F2-F3-F4 88
- ATP10-SFAT10-BAT10-BATK10 91
- ATN10-ATN20 99

Endless PU Timing Belt

- T5-T10-T20 104
- AT5-AT10-AT20 106
- HTD3M-5M-8M-14M 109
- STD5M-8M-14M 113
- RPP8M 115
- XL-L-H 116

Troubleshooting

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Company

Founded in 2007, Shanghai PowerChem® Industrial Belt Co., Ltd. specializes in R&D, manufacturing and global supply of high performance polyurethane timing belts and pulleys.

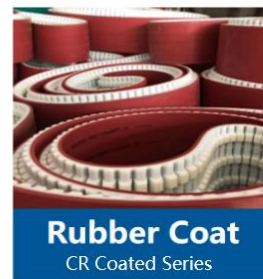
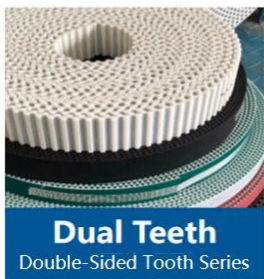
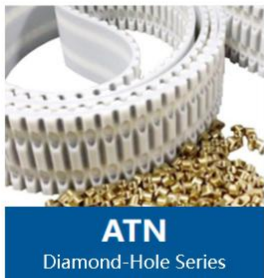
Our precision engineered drive components serve cutting-edge sectors: intelligent warehousing, 3D printing, robotics, AI-powered visual inspection, solar-energy industry, semiconductor wafer handling and automated warehouse systems.

Focused on innovation and operational reliability, PowerChem® provides custom belt solutions to satisfy stringent requirements of modern automation applications.



Products

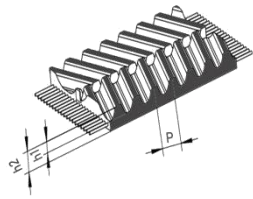
Including Open-end Belt, Welded Belt, Endless Belt, Timing Pulley



Product Application

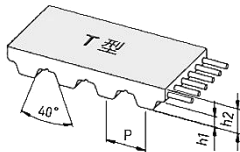
- Conveyor Application
- Lifting System
- Linear Motion System
- Printing Machinery
- Brewing Industry
- Tobacco Industry
- Food Processing Industry
- Office equipment Office equipment machinery
- Machine Tools
- Textile Industry
- Robotic System
- Ceramic Industry
- Packing Machinery
- Medicine Industry
- Auto-Door System
- Paper Industry

Helical Offset Tooth series H.O.T. Profile

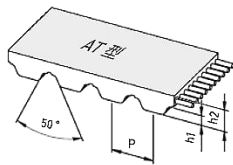


Profile	P	h_1	h_2	Width [mm]
BTD 5M	5	1.90	3.60	12.5-15-20-25
BTD 8M	8	3.05	5.33	16-25-32-50-64
BTD 10M	10	3.90	6.10	25-32-50-75
BTD14M	14	5.33	8.64	35-52.5-70-105

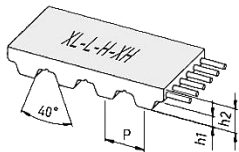
T-Profile



Profile	P	h_1	h_2	Width [mm]
T5	5	1.2	2.2	10-16-25-32-50-75-100
T10	10	2.5	4.5	10-16-25-32-50-75-100-150
T20	20	5.0	8	25-32-50-75-100-150

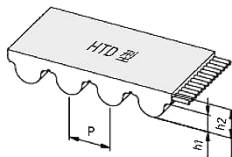


Profile	P	h_1	h_2	Width [mm]
AT3	3	1.1	1.9	8-10-12-16-20-25-32-50-100
AT5	5	1.2	2.7	10-16-25-32-50-75-100
AT10	10	2.5	4.5	10-16-25-32-50-75-100-150
AT15	15	3.8	6.3	25-32-50-75-100-150
AT20	20	5.0	8	25-32-50-75-100-150

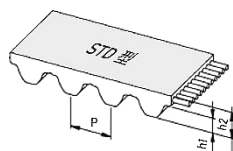


Profile	P	h_1	h_2	Width [mm]
XL	5.08	1.27	2.3	025-037-050-075-100-150-200-400
L	9.525	1.9	3.6	050-075-100-150-200-300-400-600
H	12.7	2.29	4.3	050-075-100-150-200-300-400-600
XH	22.225	6.35	11.2	100-150-200-300-400

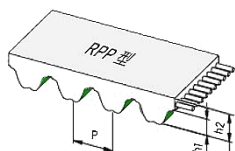
HTD-STD-RPP Profile



Profile	P	h_1	h_2	Width [mm]
HTD3M	3	1.17	2.4	10-15-25-30-50-100
HTD5M	5	2.1	3.7	10-15-25-50-100
HTD8M	8	3.4	5.6	10-15-20-30-50-85-100-150
HTD14M	14	6.01	10	25-40-55-85-100-115-150



Profile	P	h_1	h_2	Width [mm]
STD3M	3	1.14	1.94	10-15-25-50-100
STD5M	5	1.85	3.35	10-15-25-50-100
STD8M	8	3.05	5.3	10-15-20-30-50-85-100
STD14M	14	5.3	10.2	40-55-85-115

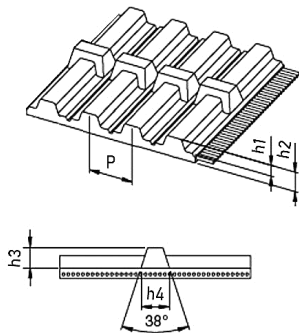


Profile	P	h_1	h_2	Width [mm]
RPP5M	5	2.0	3.8	10-15-25-30-50-100
RPP8M	8	3.2	5.4	10-15-20-30-50-85-100
RPP14M	14	5.85	9.7	40-55-85-115

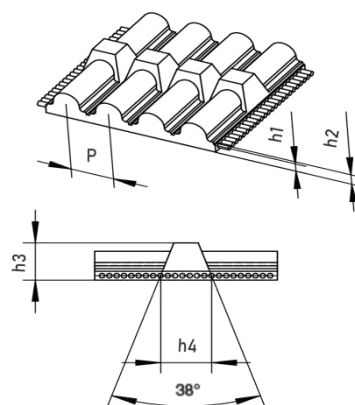
Self-guide Profile

Profile	P	h_1	h_2	h_3	h_4	Width [mm]
TK5-K6	5	1.2	2.2	4	6	25-32-50-75-100
ATK5-K6	10	1.5	2.7	4	6	25-32-50-75-100
TK10-K6	10	2.5	4.5	4	6	32-50-75-100
TK10-K13	10	2.5	4.5	6.5	13	32-50-75-100
ATK10-K6	10	2.5	4.5	4	6	32-50-75-100
ATK10-K13	10	2.5	4.5	6.5	13	32-50-75-100
HTDK8M-K8	8	3.38	5.6	5	8	30-40-50-75-100
HK-K13	12.7	2.29	4.3	6.5	13	12.7-19-25.4-50-100

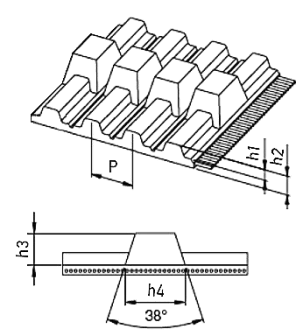
K6 Series



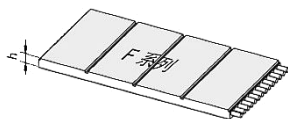
K8 Series



K13 Series

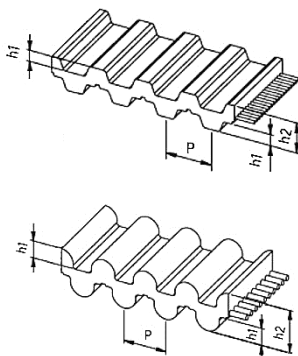


Flat Belts Profile



Profile	h	Width [mm]
F2	2	16-25-33-50-75-100
F3	3	25-32-50-75-100
F4	4	25-50-75-100

Dual-Teeth Profile



Profile	P	h_1	h_2	Width [mm]
DT5	5	1.2	3.4	10-16-25-32-50-75-100
DT10	10	2.5	7.0	10-16-25-32-50-75-100
DAT5	5	1.2	3.9	10-16-25-32-50-75-100
DAT10	10	2.5	7.0	10-16-25-32-50-75-100
DHTD5M	5	2.1	5.8	10-15-25-50-100
DHTD8M	8	3.48	9.0	10-15-20-30-50-85-100
DL	9.525	1.9	5.5	050-075-100-150-200-300-400
DH	12.7	2.29	6.6	050-075-100-150-200-300-400

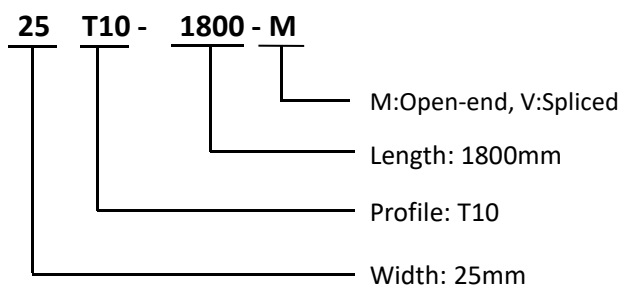
Coating Series

- PAZ/PAR: nylon fabric on tooth side / belt back.
- PAZ+PAR: nylon fabric on both tooth side and belt back.
- PUR indicates polyurethane coating on the belt back.
- PURG indicates grooved polyurethane coating on the belt back.
- APL indicates thermoplastic compound coating on the belt back.
- PVC indicates PVC coating on the belt back.
- SPG indicates super grip coating on the belt back.
- CR/NBR/HNBR indicates coating on the belt back of the rubber.

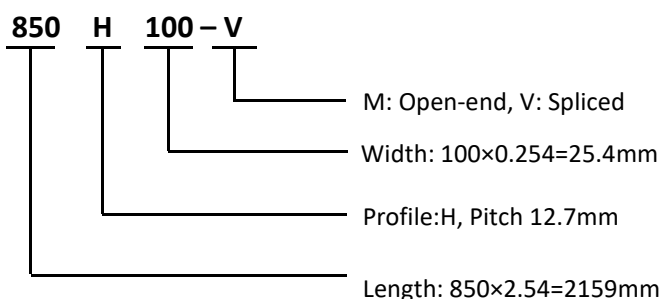
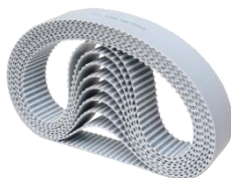
Order Code

* Open-end belt: M , Spliced belt: V, Endless belt: F

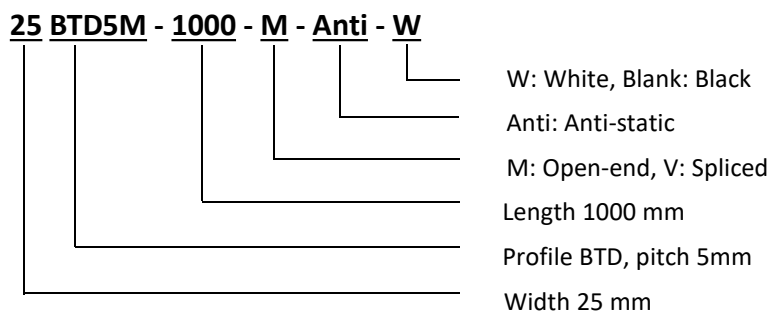
• Open-end PU Timing Belt



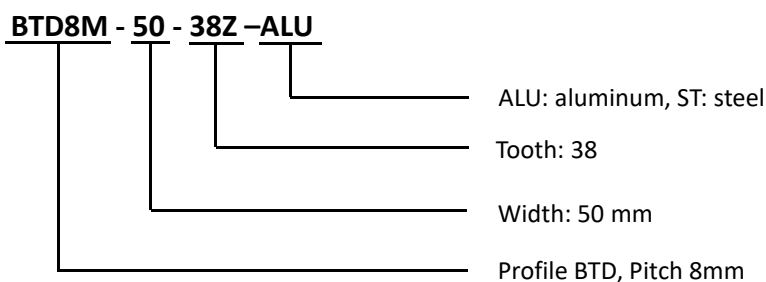
• Spliced PU Timing Belt



• Helical Offset Tooth



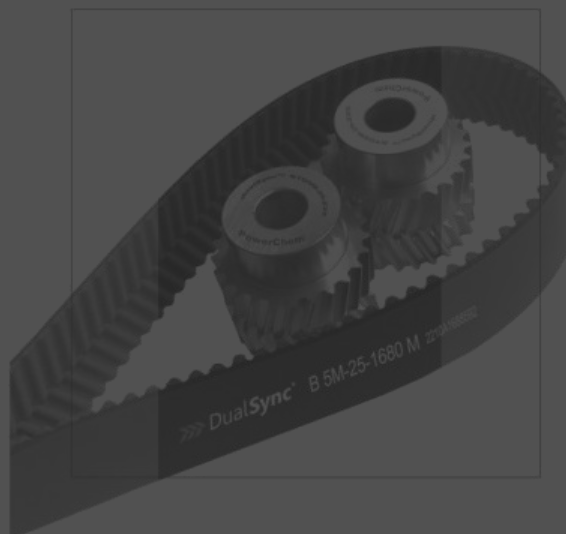
• Helical Offset Tooth pulley



Helical Offset Tooth Belt & Pulley

DualSync®

BTD 5M-8M-10M-14M



Dualsync® Timing Belts & Pulleys

Helical Offset Tooth Timing Belts & Pulleys

Dualsync® helical offset tooth (H.O.T.) timing belt drives offer low noise, minimal vibration, self-tracking performance, and maintenance-free operation. Their increased power density, combined with high-grade polyurethane and high-tensile steel cord reinforcement, enables efficient, reliable power transmission in modern automation systems.

Characteristics

- Stability » Smooth engage operation
- Alignment » Self-aligning guidance
- Silence » Up to 18dB noise reduction
- Precision » High re-position accuracy
- Torque » High output torque
- Installation » Suitable for vertical-mount
- Energy » Low energy consumption
- Vibration » Low vibration
- Heavy Load » Super strong, e.g. 14M-XHP for lifting
- Space save » No flanges, saves installation space
- Weight » Lightweight (suitable for rapid start/stop)
- High Speed » Endless belts up to 50m/s
- Maintenance » No lubrication required
- Characteristics » Resistant to most oils and greases
- Wear reistenc » Reduces friction loss
- Bidirectiona » Forward and reverse reciprocating motion
- Customize » Carbon fiber, Kevlar & Steel cord
- Tooth Fabric » Standard series with PAZ (fabric on teeth)



Dualsync® is a next-generation upgrade in power transmission drive, featuring silence, high precision, high torque, self-alignment, none-flanges, and low moment of inertia. The vertical installation capability of H.O.T. belts is unmatched by standard straight teeth.

Currently, in terms of silence, **Dualsync®** geometric curved H.O.T. series is the quietest synchronous belt product available, and it is constantly being improved (**State-of-the-art**).

Application

- | | | | |
|-----------------------|----------------------|-----------------------|------------------------|
| · Logistics & Lifting | · Ink-jet Printing | · Textile Machinery | · Tobacco Machinery |
| · Linear Modules | · Cutting Equipment | · Packaging Machinery | · Pharmaceutical |
| · Robotic | · Food & Beverage | · Solar Manufacturing | · Electric Motorcycles |
| · Automatic Doors | · Battery Prod. Line | · Machine Tools | · 3C Appliance |



H.O.T. Pulley (Alu. & Steel)



H.O.T. PU Timing belt



EAGLE Belt

H.O.T. Characteristics

Silence

Under identical operating conditions, H.O.T.I belts can reduce noise by up to 19 dB compared with conventional straight-tooth belts, making them one of the quietest synchronous belt drives currently available.

Stability

The helical tooth design ensures continuous engagement between the belt and pulley, eliminating the noise and vibration caused by sudden tooth entry and exit. This results in smoother operation, especially at high speeds.

Precision

In bi-directional motion systems, the mutually staggered helical teeth effectively eliminate the tolerance clearance (backlash) generated during forward and reverse motions, ensuring highly accurate positioning.

Torque Output

The geometric curved tooth profile enhances the tangential load capacity of the tooth surface, while the staggered helical direction neutralizes axial forces, enabling reliable transmission of higher torque.

Vertical Installation

Featuring a self-centering structure, H.O.T.I belts are particularly suitable for vertical drive installations.

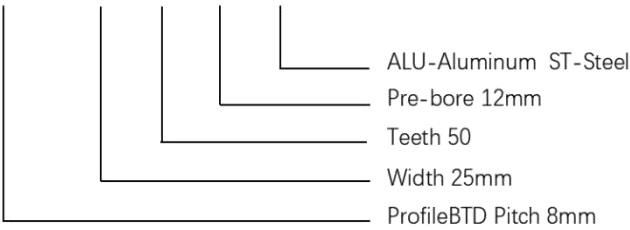
Energy Efficiency

H.O.T.I synchronous belts achieve an effective power transmission efficiency of over 98%. The elimination of pulley meshing losses reduces energy consumption and, especially in large-pulley drives, helps compensate for center distance movement. In addition, the lubrication-free design saves energy and reduces operating costs.

Order Code

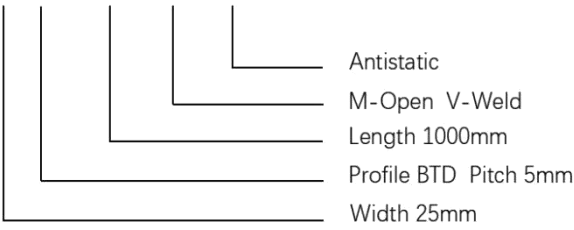
H.O.T. Pulley

BTD8M - 25 - 50Z - F12 - ALU



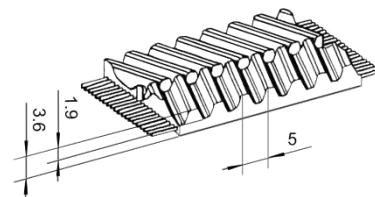
H.O.T. Belt

25 B5 - 1000 - M - Anti



BTD5M DualSync® PU Open End | Welded Timing Belt

- Profile BTD (Helical Offset Tooth Structure | Bi-directional Torque Drive)
- Pitch 5mm
- Helical offset tooth (Self-tracking design | new generation product)
- Steel cord and black color with black fiber on teeth as standard type. Kevlar cord and white color are available on request.
- Low noise. Quieter than any other straight teeth timing belt.
- Precise positioning, smooth operation, high torque output, low inertia, especially suitable for vertical installation



Mechanical Properties

Width (Code) b [mm]	Allowable Tensile Load (Open) [N]	Allowable Tensile Load (Welded) [N]	Breaking Strength (Open) [N]	Weight [kg/100m]
12.5	1130	565	4200	6.2
15	1560	780	5520	7.5
20	1920	960	7000	10.2
25	2500	1250	9280	12.5

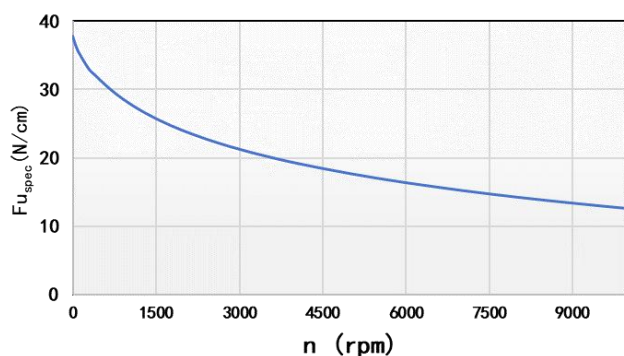
Belt Tolerances

Width: ± 0.5 mm
 Length: ± 0.5 mm/m
 Thickness: ± 0.2 mm

Flexibility & Minimum Pulley Diameters

Application		Timing pulley Flat idler pulley	Steel cord
	Non-reverse bending	Pulley teeth Z_{min}	16
		Flat idler on belt teeth d_{min} [mm]	30
	Reverse bending	Pulley teeth Z_{min}	25
		Flat idler on belt back d_{min} [mm]	60

Tooth Shear Strength / rpm



Tooth shear strength $F_{u_{spec}}$

rpm	0	20	40	60	80	100	200	300	400	500
$F_{u_{spec}}$ (N/cm)	37.8	37.3	36.8	36.3	35.9	35.5	34.1	32.9	32.1	31.3
rpm	1000	1500	2000	3000	4000	5000	6000	7000	8000	9000
$F_{u_{spec}}$ (N/cm)	28.1	25.7	23.9	21.2	19.2	17.6	16.3	15.2	14.2	13.3

BELT TENSILE FORCE CALCULATION:

$$F_u = F_{uspez} \cdot Z_e \cdot b$$

Where:

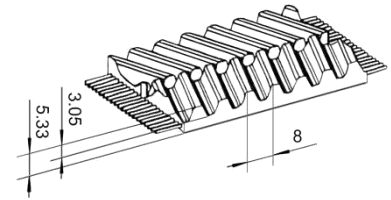
- F_u [N]: Peripheral force (Effective tension)
- F_{uspez} [N/cm]: Specific tooth load (Max. load per cm width per tooth)
- Z_e : Number of teeth in mesh on the smaller
- Z_{emax} : Maximum number of teeth in mesh considered for calculation:
 - 6 for DualSync® welded belt
 - 12 for DualSync® Open-end belt
- b [cm]: Belt width

Note: The specific load value (F_{uspez}) depends on the drive RPM.

- Operating Temperature: -20°C to $+80^{\circ}\text{C}$ (up to 110°C for short-term)
- Nylon fiber coating on teeth as standard series
- PU hardness Shore A 92

BTD8M DualSync® PU Open End | Welded Timing Belt

- Profile BTD (Helical Offset Tooth Structure | Bi-directional Torque Drive)
- Pitch 8mm
- Helical offset tooth (Self-tracking design | new generation product)
- Steel cord and black color with black fiber on teeth as standard type. Kevlar cord and white color are available on request.
- Low noise. Quieter than any other straight teeth timing belt.
- Precise positioning, smooth operation, high torque output, low inertia, especially suitable for vertical installation



Mechanical Properties

Width (Code) b [mm]	Allowable Tensile Load (Open) [N]	Allowable Tensile Load (Welded) [N]	Breaking Strength (Open) [N]	Weight [kg/100m]
16 (Y)	2450	1225	9500	8.6
25 (M)	4170	2085	16150	15
32 (W)	5390	2695	20900	18
50 (L)	8580	4290	33250	30
64 (P)	11850	5925	42840	37

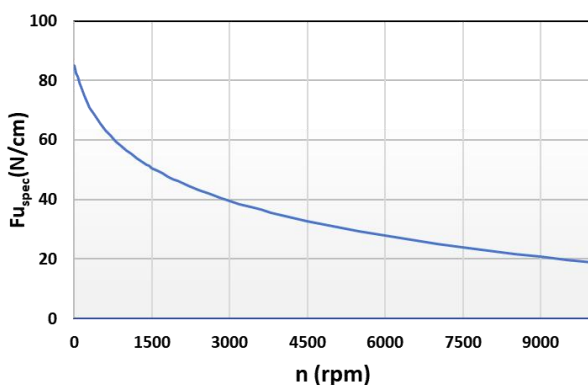
Belt Tolerances

Width : ± 0.8 mm
Length: ± 0.8 mm/m
Thickness: ± 0.3 mm

Flexibility & Minimum Pulley Diameters

Application		Timing pulley Flat idler pulley	Steel cord	Kevlar cord
	Non-reverse bending	Pulley teeth Z_{min}	20	20
		Flat idler on belt teeth d_{min} [mm]	50	50
	Reverse bending	Pulley teeth Z_{min}	30	30
		Flat idler on belt back d_{min} [mm]	120	120

Tooth Shear Strength / rpm



Tooth shear strength F_{u_spec}

rpm	0	20	40	60	80	100	200	300	400	500
F_{u_spec} (N/cm)	85	83.78	82.62	81.49	80.42	79.38	74.78	71.01	67.93	65.52
rpm	1000	1500	2000	3000	4000	5000	6000	7000	8000	9000
F_{u_spec} (N/cm)	56.58	50.61	46.14	39.56	34.75	30.94	27.79	25.11	22.77	20.69

BELT TENSILE FORCE CALCULATION:

$$F_u = F_{u_spec} \cdot Z_e \cdot b$$

Where:

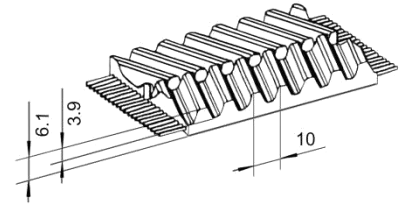
- F_u [N]: Peripheral force (Effective tension)
- F_{u_spec} [N/cm]: Specific tooth load (Max. load per cm width per tooth)
- Z_e : Number of teeth in mesh on the smaller pulley
- Z_{max} : Maximum number of teeth in mesh for calculation:
 - 6 for DualSync® welded belt
 - 12 for DualSync® Open-end belt
- b [cm]: Belt width

Note: The specific load value (F_{u_spec}) depends on the drive RPM.

- Operating Temperature: -20°C to +80°C (up to 110°C for short-term)
- Nylon fiber coating on teeth as standard series
- PU hardness Shore A 92

BTD10M DualSync® PU Open End | Welded Timing Belt

- Profile BTD (Helical Offset Tooth Structure | Bi-directional Torque Drive)
- Pitch 10mm
- Helical offset tooth (Self-tracking design | new generation product)
- Steel cord and black color with black fiber on teeth as standard type. Kevlar cord and white color are available on request.
- Low noise. Quieter than any other straight teeth timing belt.
- Precise positioning, smooth operation, high torque output, low inertia, especially suitable for vertical installation



Mechanical Properties

Width (Code) b [mm]	Allowable Tensile Load (Open) [N]	Allowable Tensile Load (Welded) [N]	Breaking Strength (Open) [N]	Weight [kg/100m]
25	6700	3350	24500	19
32	8650	4325	31510	24
50	14420	7210	52400	38
75	21100	105650	77100	55

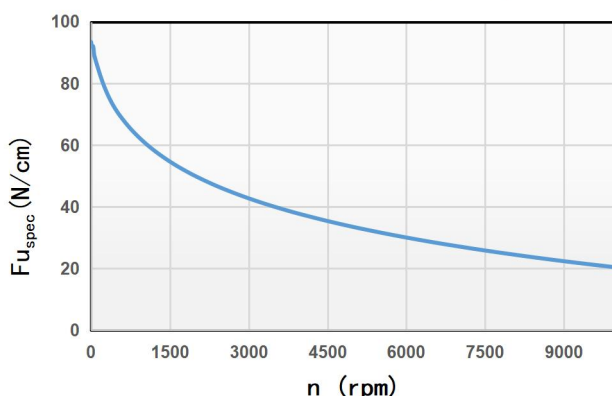
Belt Tolerances

Width : ± 0.8 mm
 Length: ± 0.8 mm/m
 Thickness: ± 0.3 mm

Flexibility & Minimum Pulley Diameters

Application		Timing pulley Flat idler pulley	Steel cord
	Non-reverse bending	Pulley teeth Z_{min}	25
		Flat idler on belt teeth d_{min} [mm]	80
	Reverse bending	Pulley teeth Z_{min}	25
		Flat idler on belt back d_{min} [mm]	150

Tooth Shear Strength / rpm



Tooth shear strength F_{u_spec}

rpm	0	20	40	60	80	100	200	300	400	500
F_{u_spec} (N/cm)	93.5	92.03	92.03	89.28	88	86.77	81.36	77.02	73.54	70.76
rpm	1000	1500	2000	3000	4000	5000	6000	7000	8000	9000
F_{u_spec} (N/cm)	61.11	54.66	49.83	42.73	37.53	33.42	27.12	27.12	24.59	22.34

BELT TENSILE FORCE CALCULATION:

$$F_u = F_{u_spec} \cdot Z_e \cdot b$$

Where:

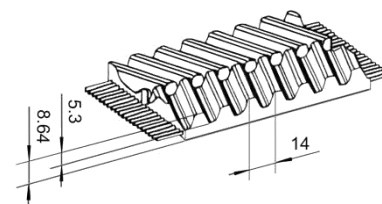
- F_u [N]: Peripheral force (Effective tension)
- F_{u_spec} [N/cm]: Specific tooth load (Max. load per cm width per tooth)
- Z_e : Number of teeth in mesh on the smaller pulley
- Z_{max} : Maximum number of teeth in mesh for calculation:
 - 6 for DualSync® welded belt
 - 12 for DualSync® Open-end belt
- b [cm]: Belt width

Note: The specific load value (F_{u_spec}) depends on the drive RPM.

- Operating Temperature: -20°C to $+80^{\circ}\text{C}$ (up to 110°C for short-term)
- Nylon fiber coating on teeth as standard series
- PU hardness Shore A 92

BTD14M DualSync® PU Open End | Welded Timing Belt

- Profile BTD (Helical Offset Tooth Structure | Bi-directional Torque Drive)
- Pitch 14mm
- Helical offset tooth (Self-tracking design | new generation product)
- Steel cord and black color with black fiber on teeth as standard type. Kevlar cord and white color are available on request.
- Low noise. Quieter than any other straight teeth timing belt.
- Precise positioning, smooth operation, high torque output, low inertia, especially suitable for vertical installation



Mechanical Properties

Width (Code) b [mm]	Allowable Tensile Load (Open) [N]	Allowable Tensile Load (Welded) [N]	Breaking Strength (Open) [N]	Weight [kg/100m]
35 (B)	11500	5750	42000	41
52.5 (G)	17500	8750	64500	60
70 (O)	23000	11500	86500	82
105 (R)	35000	17500	132000	122

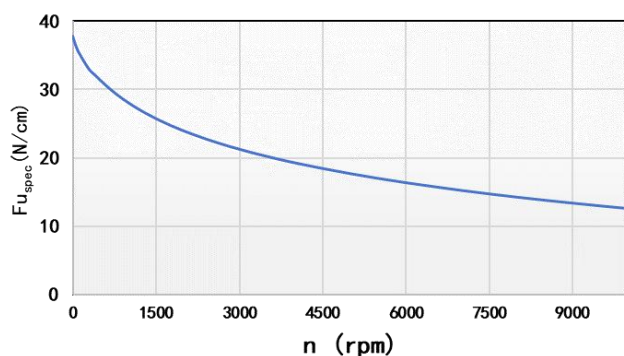
Belt Tolerances

Width: ± 1.2 mm
 Length: ± 0.8 mm/m
 Thickness: ± 0.5 mm

Flexibility & Minimum Pulley Diameters

Application		Timing pulley Flat idler pulley	Galvanized Steel cord
	Non-reverse bending	Pulley teeth Z_{min}	32
		Flat idler on belt teeth d_{min} [mm]	140
	Reverse bending	Pulley teeth Z_{min}	32
		Flat idler on belt back d_{min} [mm]	200

Tooth Shear Strength / rpm



Tooth shear strength $F_{u_{spec}}$

rpm	0	20	50	100	200	300	400	500	600	700
$F_{u_{spec}}$ (N/cm)	160	157	153	147	138	130	123	117	112	107
rpm	800	900	1000	1500	2000	2500	3000	3500	4000	-
$F_{u_{spec}}$ (N/cm)	103	100	96	82	72	64	57	51	46	-

BELT TENSILE FORCE CALCULATION:

$$F_u = F_{uspez} \cdot Z_e \cdot b$$

Where:

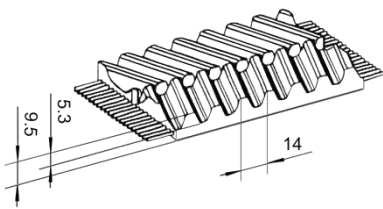
- F_u [N]: Peripheral force (Effective tension)
- F_{uspez} [N/cm]: Specific tooth load (Max. load per cm width per tooth)
- Z_e : Number of teeth in mesh on the smaller
- Z_{emax} : Maximum number of teeth in mesh considered for calculation:
 - 6 for DualSync® welded belt
 - 12 for DualSync® Open-end belt
- b [cm]: Belt width

Note: The specific load value (F_{uspez}) depends on the drive RPM.

- Operating Temperature: -20°C to $+80^{\circ}\text{C}$ (up to 110°C for short-term)
- Nylon fiber coating on teeth as standard series
- PU hardness Shore A 92

BTD14M-XHP DualSync[®] PU Open End

- Profile BTD-XHP (Helical Offset Tooth Structure | Bi-directional Torque Drive)
- Pitch 14mm
- Helical offset tooth (Self-tracking design | new generation product)
- Steel cord and black color with black fiber on teeth as standard type. Kevlar cord and white color are available on request.
- Low noise. Quieter than any other straight teeth timing belt.
- Precise positioning, smooth operation, high torque output, low inertia, especially suitable for vertical installation



Mechanical Properties

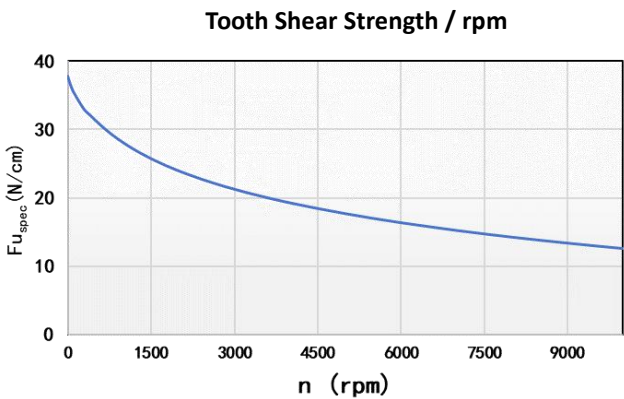
Width b [mm]	Allowable Tensile Load (Open) [N]	Breaking Strength (Open) [N]	Weight [kg/100m]
35	16000	56000	50
52.5	28000	98000	70

Belt Tolerances

Width: ± 1.2 mm
Length: ± 1.0 mm/m
Thickness: ± 0.5 mm

Flexibility & Minimum Pulley Diameters

Application		Timing pulley Flat idler pulley	Galvanized Steel cord
	Non-reverse bending	Pulley teeth Z _{min}	34
		Flat idler on belt teeth d _{min} [mm]	140
	Reverse bending	Pulley teeth Z _{min}	34
		Flat idler on belt back d _{min} [mm]	200



BELT TENSILE FORCE CALCULATION:

Fu = Fuspez · Ze · b

Where:

- Fu [N]: Peripheral force (Effective tension)
- Fuspez [N/cm]: Specific tooth load (Max. load per cm width per tooth)
- Ze: Number of teeth in mesh on the smaller
- Zemax: Maximum number of teeth in mesh considered for calculation:
 - 6 for DualSync[®] welded belt
 - 12 for DualSync[®] Open-end belt
- b [cm]: Belt width

Note: The specific load value (Fuspez) depends on the drive RPM.

Tooth shear strength Fu_{spec}

rpm	0	20	50	100	200	300	400	500	600	700
Fu _{spec} (N/cm)	160	157	153	147	138	130	123	117	112	107
rpm	800	900	1000	1500	2000	2500	3000	3500	4000	-
Fu _{spec} (N/cm)	103	100	96	82	72	64	57	51	46	-

- Operating Temperature: -20°C to +80°C (up to 110°C for short-term)
- Nylon fiber coating on teeth as standard series
- PU hardness Shore A 92

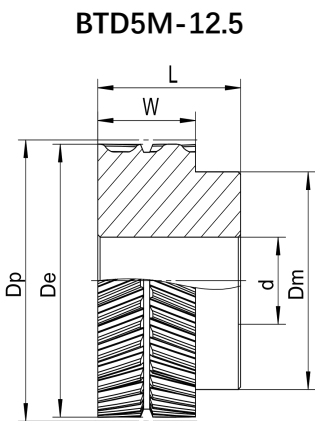
Helical Offset Tooth Timing Pulley

BTD 5M-8M-14M





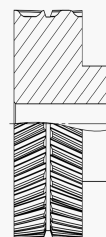
Helical Offset Tooth Pulleys



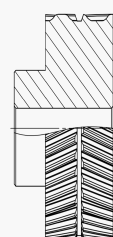
BTD5M-12.5 Belt width:12.5mm [mm]								
Type	Teeth	Dp	De	Dm	d	W	L	Mat'l
BTD5M-12.5-16Z	16	25.47	24.51	19	6	13.5	19.5	ALU/ Steel
BTD5M-12.5-17Z	17	27.06	26.10	20	6	13.5	19.5	
BTD5M-12.5-18Z	18	28.65	27.69	22	6	13.5	19.5	
BTD5M-12.5-19Z	19	30.23	29.27	24	6	13.5	21.5	
BTD5M-12.5-20Z	20	31.83	30.87	25	6	13.5	21.5	
BTD5M-12.5-21Z	21	33.42	32.46	26	6	13.5	21.5	
BTD5M-12.5-22Z	22	35.01	34.05	28	6	13.5	21.5	
BTD5M-12.5-23Z	23	36.61	35.65	30	6	13.5	21.5	
BTD5M-12.5-24Z	24	38.19	37.23	32	6	13.5	21.5	
BTD5M-12.5-25Z	25	39.79	38.83	33	6	13.5	21.5	
BTD5M-12.5-26Z	26	41.38	40.42	35	6	13.5	21.5	
BTD5M-12.5-27Z	27	42.97	42.01	36	6	13.5	21.5	
BTD5M-12.5-28Z	28	44.56	43.60	38	6	13.5	21.5	
BTD5M-12.5-30Z	30	47.75	46.79	41	12	13.5	21.5	
BTD5M-12.5-32Z	32	50.93	49.97	44	12	13.5	21.5	
BTD5M-12.5-36Z	36	57.30	56.34	51	12	13.5	21.5	
BTD5M-12.5-40Z	40	63.66	62.70	57	12	13.5	24.5	
BTD5M-12.5-44Z	44	70.03	69.07	63	12	13.5	24.5	
BTD5M-12.5-46Z	46	73.21	72.25	65	12	13.5	24.5	
BTD5M-12.5-48Z	48	76.39	75.43	70	12	13.5	24.5	
BTD5M-12.5-50Z	50	79.58	78.62	72	12	13.5	24.5	
BTD5M-12.5-60Z	60	95.49	94.53	89	12	13.5	24.5	
BTD5M-12.5-66Z	66	105.04	104.08	92	12	13.5	24.5	
BTD5M-12.5-72Z	72	114.59	113.63	95	20	13.5	24.5	
BTD5M-12.5-78Z	78	124.14	123.18	102	20	13.5	24.5	
BTD5M-12.5-92Z	92	146.42	145.46	102	20	13.5	24.5	

Important:

Customers must specify the hub projection orientation (left-hand or right-hand) when submitting an order.



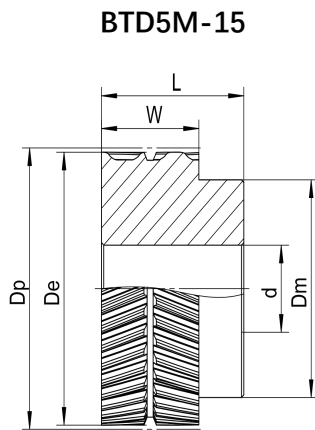
Right-hand direction



Left-hand direction



Helical Offset Tooth Pulleys



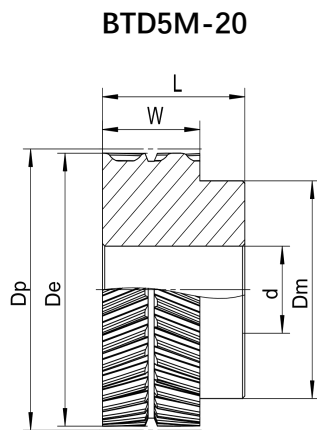
BTD5M-15 Belt width:15mm [mm]								
Type	Teeth	Dp	De	Dm	d	W	L	Mat'l
BTD5M-15-16Z	16	25.47	24.51	19	6	16	22	ALU/ Steel
BTD5M-15-17Z	17	27.06	26.10	20	6	16	22	
BTD5M-15-18Z	18	28.65	27.69	22	6	16	22	
BTD5M-15-19Z	19	30.23	29.27	24	6	16	24	
BTD5M-15-20Z	20	31.83	30.87	25	6	16	24	
BTD5M-15-21Z	21	33.42	32.46	26	6	16	24	
BTD5M-15-22Z	22	35.01	34.05	28	6	16	24	
BTD5M-15-23Z	23	36.61	35.65	30	6	16	24	
BTD5M-15-24Z	24	38.19	37.23	32	6	16	24	
BTD5M-15-25Z	25	39.79	38.83	33	6	16	24	
BTD5M-15-26Z	26	41.38	40.42	35	6	16	24	
BTD5M-15-27Z	27	42.97	42.01	36	6	16	24	
BTD5M-15-28Z	28	44.56	43.60	38	6	16	24	
BTD5M-15-30Z	30	47.75	46.79	41	12	16	24	
BTD5M-15-32Z	32	50.93	49.97	44	12	16	24	
BTD5M-15-36Z	36	57.30	56.34	51	12	16	24	
BTD5M-15-40Z	40	63.66	62.70	57	12	16	27	
BTD5M-15-44Z	44	70.03	69.07	63	12	16	27	
BTD5M-15-46Z	46	73.21	72.25	65	12	16	27	
BTD5M-15-48Z	48	76.39	75.43	70	12	16	27	
BTD5M-15-50Z	50	79.58	78.62	72	12	16	27	
BTD5M-15-60Z	60	95.49	94.53	89	12	16	27	
BTD5M-15-66Z	66	105.04	104.08	92	12	16	27	
BTD5M-15-72Z	72	114.59	113.63	95	20	16	27	
BTD5M-15-78Z	78	124.14	123.18	102	20	16	27	
BTD5M-15-92Z	92	146.42	145.46	102	20	16	27	

Flexibility

Minimum Pulley Diameters		Steel cord
Non-reverse bending 	Pulley teeth Z_{min}	16
	Flat idler on belt teeth d_{min} [mm]	30
Reverse bending 	Pulley teeth Z_{min}	25
	Flat idler on belt back d_{min} [mm]	60



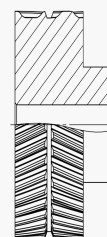
Helical Offset Tooth Pulleys



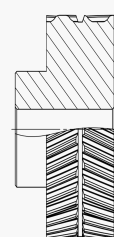
BTD5M-20 Belt width:20mm [mm]								
Type	Teeth	Dp	De	Dm	d	W	L	Mat'l
BTD5M-20-16Z	16	25.47	24.51	19	6	21	27	ALU/ Steel
BTD5M-20-17Z	17	27.06	26.10	20	6	21	27	
BTD5M-20-18Z	18	28.65	27.69	22	6	21	27	
BTD5M-20-19Z	19	30.23	29.27	24	6	21	29	
BTD5M-20-20Z	20	31.83	30.87	25	6	21	29	
BTD5M-20-21Z	21	33.42	32.46	26	6	21	29	
BTD5M-20-22Z	22	35.01	34.05	28	6	21	29	
BTD5M-20-23Z	23	36.61	35.65	30	6	21	29	
BTD5M-20-24Z	24	38.19	37.23	32	6	21	29	
BTD5M-20-25Z	25	39.79	38.83	33	6	21	29	
BTD5M-20-26Z	26	41.38	40.42	35	6	21	29	
BTD5M-20-27Z	27	42.97	42.01	36	6	21	29	
BTD5M-20-28Z	28	44.56	43.60	38	6	21	29	
BTD5M-20-30Z	30	47.75	46.79	41	12	21	29	
BTD5M-20-32Z	32	50.93	49.97	44	12	21	29	
BTD5M-20-36Z	36	57.30	56.34	51	12	21	29	
BTD5M-20-40Z	40	63.66	62.70	57	12	21	32	
BTD5M-20-44Z	44	70.03	69.07	63	12	21	32	
BTD5M-20-46Z	46	73.21	72.25	65	12	21	32	
BTD5M-20-48Z	48	76.39	75.43	70	12	21	32	
BTD5M-20-50Z	50	79.58	78.62	72	12	21	32	
BTD5M-20-60Z	60	95.49	94.53	89	12	21	32	
BTD5M-20-66Z	66	105.04	104.08	92	12	21	32	
BTD5M-20-72Z	72	114.59	113.63	95	20	21	32	
BTD5M-20-78Z	78	124.14	123.18	102	20	21	32	
BTD5M-20-92Z	92	146.42	145.46	102	20	21	32	

Important:

Customers must specify the hub projection orientation (left-hand or right-hand) when submitting an order.



Right-hand direction

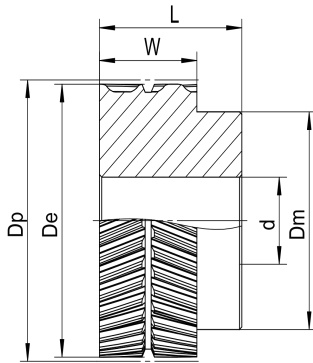


Left-hand direction



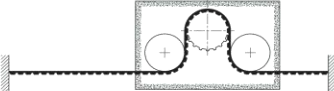
Helical Offset Tooth Pulleys

BTD5M-25



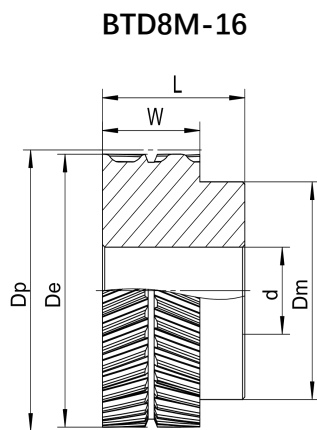
BTD5M-25 Belt width:25mm [mm]								
Type	Teeth	Dp	De	Dm	d	W	L	Mat'l
BTD5M-25-16Z	16	25.47	24.51	19	6	26	32	ALU/ Steel
BTD5M-25-17Z	17	27.06	26.10	20	6	26	32	
BTD5M-25-18Z	18	28.65	27.69	22	6	26	32	
BTD5M-25-19Z	19	30.23	29.27	24	6	26	34	
BTD5M-25-25Z	20	31.83	30.87	25	6	26	34	
BTD5M-25-21Z	21	33.42	32.46	26	6	26	34	
BTD5M-25-22Z	22	35.01	34.05	28	6	26	34	
BTD5M-25-23Z	23	36.61	35.65	30	6	26	34	
BTD5M-25-24Z	24	38.19	37.23	32	6	26	34	
BTD5M-25-25Z	25	39.79	38.83	33	6	26	34	
BTD5M-25-26Z	26	41.38	40.42	35	6	26	34	
BTD5M-25-27Z	27	42.97	42.01	36	6	26	34	
BTD5M-25-28Z	28	44.56	43.60	38	6	26	34	
BTD5M-25-30Z	30	47.75	46.79	41	12	26	34	
BTD5M-25-32Z	32	50.93	49.97	44	12	26	34	
BTD5M-25-36Z	36	57.30	56.34	51	12	26	34	
BTD5M-25-40Z	40	63.66	62.70	57	12	26	37	
BTD5M-25-44Z	44	70.03	69.07	63	12	26	37	
BTD5M-25-46Z	46	73.21	72.25	65	12	26	37	
BTD5M-25-48Z	48	76.39	75.43	70	12	26	37	
BTD5M-25-50Z	50	79.58	78.62	72	12	26	37	
BTD5M-25-60Z	60	95.49	94.53	89	12	26	37	
BTD5M-25-66Z	66	105.04	104.08	92	12	26	37	
BTD5M-25-72Z	72	114.59	113.63	95	20	26	37	
BTD5M-25-78Z	78	124.14	123.18	102	20	26	37	
BTD5M-25-92Z	92	146.42	145.46	102	20	26	37	

Flexibility

Minimum Pulley Diameters		Steel cord
Non-reverse bending 	Pulley teeth Z_{min}	16
	Flat idler on belt teeth d_{min} [mm]	30
Reverse bending 	Pulley teeth Z_{min}	25
	Flat idler on belt back d_{min} [mm]	60



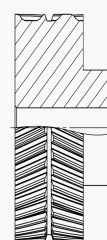
Helical Offset Tooth Pulleys



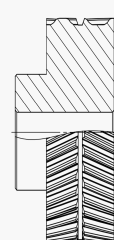
BTD8M-16 Belt width:16mm [mm]								
Type	Teeth	Dp	De	Dm	d	W	L	Mat'l
BTD8M-16-18Z	18	45.84	44.47	38	12	17	27	ALU/ Steel
BTD8M-16-20Z	20	50.93	49.56	41	12	17	29	
BTD8M-16-22Z	22	56.02	54.65	46	12	17	29	
BTD8M-16-24Z	24	61.12	59.74	51	12	17	33	
BTD8M-16-25Z	25	63.66	62.29	54	12	17	33	
BTD8M-16-26Z	26	66.21	64.84	58	12	17	33	
BTD8M-16-28Z	28	71.30	69.93	62	12	17	33	
BTD8M-16-30Z	30	76.39	75.02	67	12	17	33	
BTD8M-16-32Z	32	81.49	80.12	72	12	17	33	
BTD8M-16-34Z	34	86.58	85.21	77	12	17	33	
BTD8M-16-36Z	36	91.67	90.30	82	12	17	33	
BTD8M-16-38Z	38	96.77	95.39	87	12	17	33	
BTD8M-16-40Z	40	101.86	100.49	92	12	17	33	
BTD8M-16-44Z	44	112.05	110.67	102	12	17	33	
BTD8M-16-45Z	45	114.59	113.22	105	12	17	33	
BTD8M-16-48Z	48	122.23	120.86	112	12	17	33	
BTD8M-16-50Z	50	127.32	125.95	118	12	17	33	
BTD8M-16-52Z	52	132.42	131.05	123	12	17	33	
BTD8M-16-56Z	56	142.60	141.23	133	12	17	33	
BTD8M-16-60Z	60	152.79	151.42	143	12	17	33	
BTD8M-16-63Z	63	160.43	159.06	110	12	17	33	
BTD8M-16-64Z	64	162.98	161.60	110	12	17	33	
BTD8M-16-68Z	68	173.16	171.79	110	12	17	33	
BTD8M-16-72Z	72	183.35	181.97	110	20	17	33	
BTD8M-16-75Z	75	190.99	189.61	110	20	17	33	
BTD8M-16-76Z	76	193.53	192.16	110	20	17	33	

Important:

Customers must specify the hub projection orientation (left-hand or right-hand) when submitting an order.



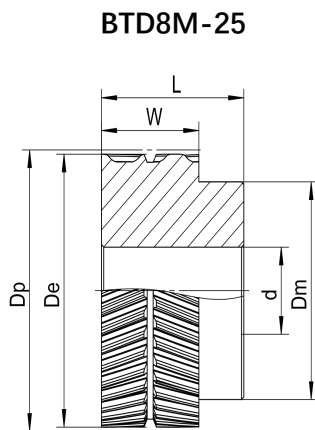
Right-hand direction



Left-hand direction



Helical Offset Tooth Pulleys



BTD8M-25 Belt width:25mm [mm]								
Type	Teeth	Dp	De	Dm	d	W	L	Mat'l
BTD8M-25-18Z	18	45.84	44.47	38	12	26	38	ALU/ Steel
BTD8M-25-20Z	20	50.93	49.56	41	12	26	38	
BTD8M-25-22Z	22	56.02	54.65	46	12	26	38	
BTD8M-25-24Z	24	61.12	59.74	51	12	26	42	
BTD8M-25-25Z	25	63.66	62.29	54	12	26	42	
BTD8M-25-26Z	26	66.21	64.84	58	12	26	42	
BTD8M-25-28Z	28	71.30	69.93	62	12	26	42	
BTD8M-25-30Z	30	76.39	75.02	67	12	26	42	
BTD8M-25-32Z	32	81.49	80.12	72	12	26	42	
BTD8M-25-34Z	34	86.58	85.21	77	12	26	42	
BTD8M-25-36Z	36	91.67	90.30	82	12	26	42	
BTD8M-25-38Z	38	96.77	95.39	87	12	26	42	
BTD8M-25-40Z	40	101.86	100.49	92	12	26	42	
BTD8M-25-44Z	44	112.05	110.67	102	12	26	42	
BTD8M-25-45Z	45	114.59	113.22	105	12	26	42	
BTD8M-25-48Z	48	122.23	120.86	112	12	26	42	
BTD8M-25-50Z	50	127.32	125.95	118	12	26	42	
BTD8M-25-52Z	52	132.42	131.05	123	12	26	42	
BTD8M-25-56Z	56	142.60	141.23	133	12	26	42	
BTD8M-25-60Z	60	152.79	151.42	143	12	26	42	
BTD8M-25-63Z	63	160.43	159.06	110	12	26	42	
BTD8M-25-64Z	64	162.98	161.60	110	12	26	42	
BTD8M-25-68Z	68	173.16	171.79	110	12	26	42	
BTD8M-25-72Z	72	183.35	181.97	110	20	26	42	
BTD8M-25-75Z	75	190.99	189.61	110	20	26	42	
BTD8M-25-76Z	76	193.53	192.16	110	20	26	42	
BTD8M-25-80Z	80	203.72	202.35	110	20	26	42	

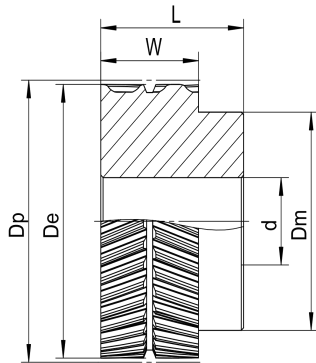
Flexibility

Minimum Pulley Diameters		Steel Cord	Kevlar Fiber	HP Cord
Non-reverse bending 	Pulley teeth Z_{min}	20	20	30
	Flat idler on belt teeth d_{min} [mm]	50	50	80
Reverse bending 	Pulley teeth Z_{min}	30	30	30
	Flat idler on belt back d_{min} [mm]	120	120	150



Helical Offset Tooth Pulleys

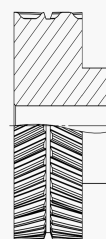
BTD8M-32



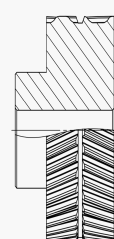
BTD8M-32 Belt width:32mm [mm]								
Type	Teeth	Dp	De	Dm	d	W	L	Mat'l
BTD8M-32-18Z	18	45.84	44.47	38	12	33	43	ALU/ Steel
BTD8M-32-20Z	20	50.93	49.56	41	12	33	45	
BTD8M-32-22Z	22	56.02	54.65	46	12	33	45	
BTD8M-32-24Z	24	61.12	59.74	51	12	33	49	
BTD8M-32-25Z	25	63.66	62.29	54	12	33	49	
BTD8M-32-26Z	26	66.21	64.84	58	12	33	49	
BTD8M-32-28Z	28	71.30	69.93	62	12	33	49	
BTD8M-32-30Z	30	76.39	75.02	67	12	33	49	
BTD8M-32-32Z	32	81.49	80.12	72	12	33	49	
BTD8M-32-34Z	34	86.58	85.21	77	12	33	49	
BTD8M-32-36Z	36	91.67	90.30	82	12	33	49	
BTD8M-32-38Z	38	96.77	95.39	87	12	33	49	
BTD8M-32-40Z	40	101.86	100.49	92	12	33	49	
BTD8M-32-44Z	44	112.05	110.67	102	12	33	49	
BTD8M-32-45Z	45	114.59	113.22	105	12	33	49	
BTD8M-32-48Z	48	122.23	120.86	112	12	33	49	
BTD8M-32-50Z	50	127.32	125.95	118	12	33	49	
BTD8M-32-52Z	52	132.42	131.05	123	12	33	49	
BTD8M-32-56Z	56	142.60	141.23	133	12	33	49	
BTD8M-32-60Z	60	152.79	151.42	143	12	33	49	
BTD8M-32-63Z	63	160.43	159.06	110	12	33	49	
BTD8M-32-64Z	64	162.98	161.60	110	12	33	49	
BTD8M-32-68Z	68	173.16	171.79	110	12	33	49	
BTD8M-32-72Z	72	183.35	181.97	110	20	33	49	
BTD8M-32-75Z	75	190.99	189.61	110	20	33	49	
BTD8M-32-76Z	76	193.53	192.16	110	20	33	49	

Important:

Customers must specify the hub projection orientation (left-hand or right-hand) when submitting an order.



Right-hand direction

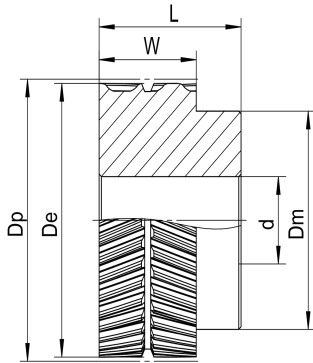


Left-hand direction



Helical Offset Tooth Pulleys

BTD8M-50



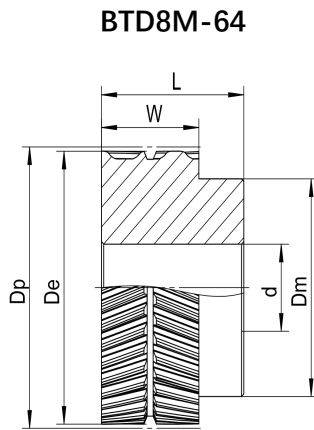
BTD8M-50 Belt width:50mm [mm]								
Type	Teeth	Dp	De	Dm	d	W	L	Mat'l
BTD8M-50-18Z	18	45.84	44.47	38	12	51	63	ALU/ Steel
BTD8M-50-20Z	20	50.93	49.56	41	12	51	63	
BTD8M-50-22Z	22	56.02	54.65	46	12	51	63	
BTD8M-50-24Z	24	61.12	59.74	51	12	51	67	
BTD8M-50-25Z	25	63.66	62.29	54	12	51	67	
BTD8M-50-26Z	26	66.21	64.84	58	12	51	67	
BTD8M-50-28Z	28	71.30	69.93	62	12	51	67	
BTD8M-50-30Z	30	76.39	75.02	67	12	51	67	
BTD8M-50-32Z	32	81.49	80.12	72	12	51	67	
BTD8M-50-34Z	34	86.58	85.21	77	12	51	67	
BTD8M-50-36Z	36	91.67	90.30	82	12	51	67	
BTD8M-50-38Z	38	96.77	95.39	87	12	51	67	
BTD8M-50-40Z	40	101.86	100.49	92	12	51	67	
BTD8M-50-44Z	44	112.05	110.67	102	12	51	67	
BTD8M-50-45Z	45	114.59	113.22	105	12	51	67	
BTD8M-50-48Z	48	122.23	120.86	112	12	51	67	
BTD8M-50-50Z	50	127.32	125.95	118	12	51	67	
BTD8M-50-52Z	52	132.42	131.05	123	12	51	67	
BTD8M-50-56Z	56	142.60	141.23	133	12	51	67	
BTD8M-50-60Z	60	152.79	151.42	143	12	51	67	
BTD8M-50-63Z	63	160.43	159.06	110	12	51	67	
BTD8M-50-64Z	64	162.98	161.60	110	12	51	67	
BTD8M-50-68Z	68	173.16	171.79	110	12	51	67	
BTD8M-50-72Z	72	183.35	181.97	110	20	51	67	
BTD8M-50-75Z	75	190.99	189.61	110	20	51	67	
BTD8M-50-76Z	76	193.53	192.16	110	20	51	67	

Flexibility

Minimum Pulley Diameters		Steel Cord	Kevlar Fiber	HP Cord
Non-reverse bending 	Pulley teeth Z_{min}	20	20	30
	Flat idler on belt teeth d_{min} [mm]	50	50	80
Reverse bending 	Pulley teeth Z_{min}	30	30	30
	Flat idler on belt back d_{min} [mm]	120	120	150



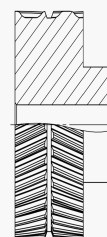
Helical Offset Tooth Pulleys



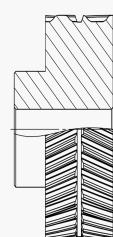
BTD8M-64 Belt width:64mm [mm]								
Type	Teeth	Dp	De	Dm	d	W	L	Mat'l
BTD8M-64-18Z	18	45.84	44.47	38	12	65	85	ALU/ Steel
BTD8M-64-20Z	20	50.93	49.56	41	12	65	85	
BTD8M-64-22Z	22	56.02	54.65	46	12	65	85	
BTD8M-64-24Z	24	61.12	59.74	51	12	65	85	
BTD8M-64-25Z	25	63.66	62.29	54	12	65	85	
BTD8M-64-26Z	26	66.21	64.84	58	12	65	85	
BTD8M-64-28Z	28	71.30	69.93	62	12	65	85	
BTD8M-64-30Z	30	76.39	75.02	67	12	65	85	
BTD8M-64-32Z	32	81.49	80.12	72	12	65	85	
BTD8M-64-34Z	34	86.58	85.21	77	12	65	85	
BTD8M-64-36Z	36	91.67	90.30	82	12	65	85	
BTD8M-64-38Z	38	96.77	95.39	87	12	65	85	
BTD8M-64-40Z	40	101.86	100.49	92	12	65	85	
BTD8M-64-44Z	44	112.05	110.67	102	12	65	85	
BTD8M-64-45Z	45	114.59	113.22	105	12	65	85	
BTD8M-64-48Z	48	122.23	120.86	112	25	65	85	
BTD8M-64-50Z	50	127.32	125.95	118	25	65	85	
BTD8M-64-52Z	52	132.42	131.05	123	25	65	85	
BTD8M-64-56Z	56	142.60	141.23	133	25	65	85	
BTD8M-64-60Z	60	152.79	151.42	143	25	65	85	
BTD8M-64-63Z	63	160.43	159.06	110	25	65	85	
BTD8M-64-64Z	64	162.98	161.60	110	25	65	85	
BTD8M-64-68Z	68	173.16	171.79	110	25	65	85	
BTD8M-64-72Z	72	183.35	181.97	110	25	65	85	
BTD8M-64-75Z	75	190.99	189.61	110	25	65	85	
BTD8M-64-76Z	76	193.53	192.16	110	25	65	85	

Important:

Customers must specify the hub projection orientation (left-hand or right-hand) when submitting an order.



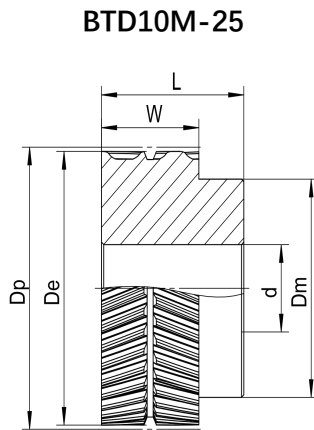
Right-hand direction



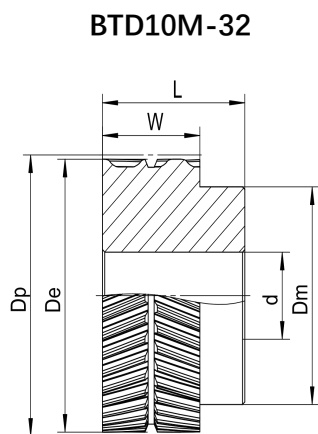
Left-hand direction



Helical Offset Tooth Pulleys



BTD10M-25 Belt width:25mm [mm]								
Type	Teeth	Dp	De	Dm	d	W	L	Mat'l
BTD10M-25-15Z	15	47.75	45.75	35	12	26	36	ALU
BTD10M-25-16Z	16	50.93	48.93	38	12	26	36	
BTD10M-25-18Z	18	57.30	55.30	44	12	26	36	
BTD10M-25-19Z	19	60.48	58.48	47	12	26	36	
BTD10M-25-20Z	20	63.66	61.66	51	12	26	36	
BTD10M-25-22Z	22	70.03	68.03	57	12	26	36	
BTD10M-25-24Z	24	76.39	74.39	63	12	26	36	
BTD10M-25-25Z	25	79.58	77.58	67	12	26	36	
BTD10M-25-26Z	26	82.76	80.76	70	12	26	36	
BTD10M-25-27Z	27	85.94	83.94	73	12	26	36	
BTD10M-25-28Z	28	89.13	87.13	76	12	26	36	
BTD10M-25-30Z	30	95.49	93.49	82	12	26	36	
BTD10M-25-32Z	32	101.86	99.86	89	15	26	36	
BTD10M-25-36Z	36	114.59	112.59	102	15	26	36	
BTD10M-25-40Z	40	127.32	125.32	114	15	26	36	
BTD10M-25-44Z	44	140.06	138.06	127	15	26	36	
BTD10M-25-48Z	48	152.79	150.79	140	15	26	36	
BTD10M-25-60Z	60	190.99	188.99	110	15	26	36	

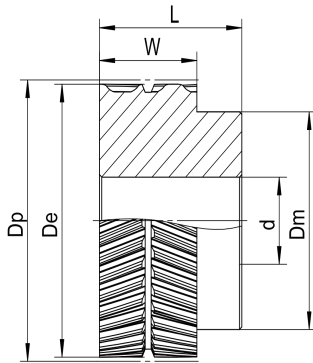


BTD10M-32 Belt width:32mm [mm]								
Type	Teeth	Dp	De	Dm	d	W	L	Mat'l
BTD10M-32-15Z	15	47.75	45.75	35	12	33	43	ALU
BTD10M-32-16Z	16	50.93	48.93	38	12	33	43	
BTD10M-32-18Z	18	57.30	55.30	44	12	33	43	
BTD10M-32-19Z	19	60.48	58.48	47	12	33	43	
BTD10M-32-20Z	20	63.66	61.66	51	12	33	43	
BTD10M-32-22Z	22	70.03	68.03	57	12	33	43	
BTD10M-32-24Z	24	76.39	74.39	63	12	33	43	
BTD10M-32-25Z	25	79.58	77.58	67	12	33	43	
BTD10M-32-26Z	26	82.76	80.76	70	12	33	43	
BTD10M-32-27Z	27	85.94	83.94	73	12	33	43	
BTD10M-32-28Z	28	89.13	87.13	76	12	33	43	
BTD10M-32-30Z	30	95.49	93.49	82	12	33	43	
BTD10M-32-32Z	32	101.86	99.86	89	15	33	43	
BTD10M-32-36Z	36	114.59	112.59	102	15	33	43	
BTD10M-32-40Z	40	127.32	125.32	114	15	33	43	
BTD10M-32-44Z	44	140.06	138.06	127	15	33	43	
BTD10M-32-48Z	48	152.79	150.79	140	15	33	43	
BTD10M-32-60Z	60	190.99	188.99	178	15	33	43	



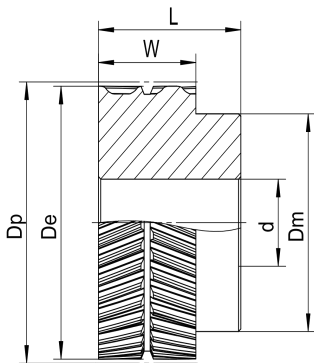
Helical Offset Tooth Pulleys

BTD10M-50



BTD10M-50 Belt width:50mm [mm]								
Type	Teeth	Dp	De	Dm	d	W	L	Mat'l
BTD10M-50-15Z	15	47.75	45.75	35	12	51	61	ALU
BTD10M-50-16Z	16	50.93	48.93	38	12	51	61	
BTD10M-50-18Z	18	57.30	55.30	44	12	51	61	
BTD10M-50-19Z	19	60.48	58.48	47	12	51	61	
BTD10M-50-20Z	20	63.66	61.66	51	12	51	61	
BTD10M-50-22Z	22	70.03	68.03	57	12	51	61	
BTD10M-50-24Z	24	76.39	74.39	63	12	51	61	
BTD10M-50-25Z	25	79.58	77.58	67	12	51	61	
BTD10M-50-26Z	26	82.76	80.76	70	12	51	61	
BTD10M-50-27Z	27	85.94	83.94	73	12	51	61	
BTD10M-50-28Z	28	89.13	87.13	76	12	51	61	
BTD10M-50-30Z	30	95.49	93.49	82	12	51	61	
BTD10M-50-50Z	32	101.86	99.86	89	15	51	61	
BTD10M-50-36Z	36	114.59	112.59	102	15	51	61	
BTD10M-50-40Z	40	127.32	125.32	114	15	51	61	
BTD10M-50-44Z	44	140.06	138.06	127	15	51	61	
BTD10M-50-48Z	48	152.79	150.79	140	15	51	61	
BTD10M-50-60Z	60	190.99	188.99	178	15	51	61	

BTD10M-75



BTD10M-75 Belt width:75mm [mm]								
Type	Teeth	Dp	De	Dm	d	W	L	Mat'l
BTD10M-75-15Z	15	47.75	45.75	35	12	77	90	ALU
BTD10M-75-16Z	16	50.93	48.93	38	12	77	90	
BTD10M-75-18Z	18	57.30	55.30	44	12	77	90	
BTD10M-75-19Z	19	60.48	58.48	47	12	77	90	
BTD10M-75-20Z	20	63.66	61.66	51	12	77	90	
BTD10M-75-22Z	22	70.03	68.03	57	12	77	90	
BTD10M-75-24Z	24	76.39	74.39	63	12	77	90	
BTD10M-75-25Z	25	79.58	77.58	67	12	77	90	
BTD10M-75-26Z	26	82.76	80.76	70	12	77	90	
BTD10M-75-27Z	27	85.94	83.94	73	12	77	90	
BTD10M-75-28Z	28	89.13	87.13	76	12	77	90	
BTD10M-75-30Z	30	95.49	93.49	82	12	77	90	
BTD10M-75-75Z	32	101.86	99.86	89	15	77	90	
BTD10M-75-36Z	36	114.59	112.59	102	15	77	90	
BTD10M-75-40Z	40	127.32	125.32	114	15	77	90	
BTD10M-75-44Z	44	140.06	138.06	127	15	77	90	
BTD10M-75-48Z	48	152.79	150.79	140	15	77	90	
BTD10M-75-60Z	60	190.99	188.99	178	15	77	90	

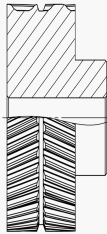
BTD10M Helical Offset Tooth Pulleys



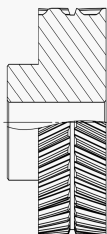
Teeth Direction Instruction:

Important:

Customers must specify the hub projection orientation (left-hand or right-hand) when submitting an order.



Right-hand direction



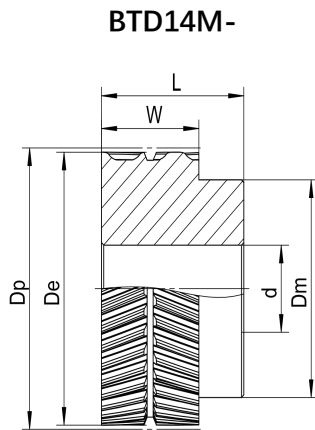
Left-hand direction

Flexibility:

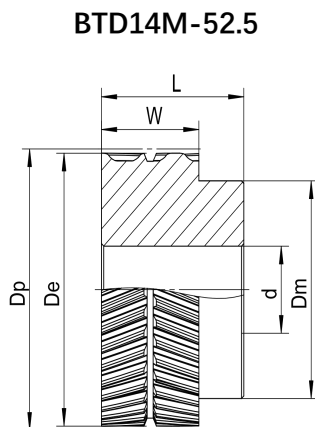
Minimum Pulley Diameters		Steel Cord	HPF Cord
Non-reverse bending 	Pulley teeth Z_{min}	25	25
	Flat idler on belt teeth d_{min} [mm]	80	80
Reverse bending 	Pulley teeth Z_{min}	25	25
	Flat idler on belt back d_{min} [mm]	150	150



Helical Offset Tooth Pulleys



BTD14M-35 Belt width:35mm								[mm]
Type	Teeth	Dp	De	Dm	d	W	L	Mat'l
BTD14M-35-28Z	28	124.78	121.99	105	25	37	53	Steel
BTD14M-35-30Z	30	133.69	130.90	114	25	37	53	
BTD14M-35-32Z	32	142.60	139.81	123	25	37	53	
BTD14M-35-34Z	34	151.52	148.73	132	25	37	53	
BTD14M-35-36Z	36	160.43	157.64	141	25	37	53	
BTD14M-35-38Z	38	169.34	166.55	150	25	37	53	
BTD14M-35-40Z	40	178.25	175.46	159	25	37	53	
BTD14M-35-43Z	43	191.62	188.83	172	25	37	53	
BTD14M-35-45Z	45	200.54	197.75	181	25	37	53	
BTD14M-35-48Z	48	213.90	211.11	195	25	37	53	
BTD14M-35-50Z	50	222.82	220.03	150	25	37	53	
BTD14M-35-56Z	56	249.56	246.77	150	25	37	53	
BTD14M-35-60Z	60	267.38	264.59	150	25	37	53	
BTD14M-35-63Z	63	280.75	277.96	150	25	37	53	
* BTD14M-35-71Z	71	316.40	313.61	150	25	37	53	
* BTD14M-35-75Z	75	334.23	331.44	150	25	37	53	

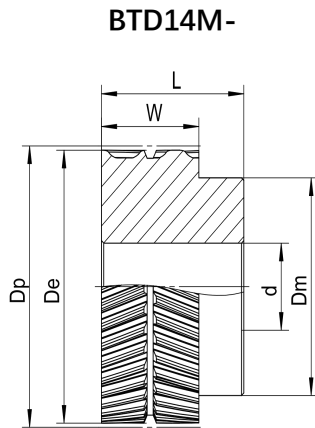


BTD14M-52.5 Belt width:52.5mm								[mm]
Type	Teeth	Dp	De	Dm	d	W	L	Mat'l
BTD14M-52.5-28Z	28	124.78	121.99	109	25	54.5	74.5	Steel
BTD14M-52.5-30Z	30	133.69	130.90	117.5	25	54.5	74.5	
BTD14M-52.5-32Z	32	142.60	139.81	126.5	25	54.5	74.5	
BTD14M-52.5-34Z	34	151.52	148.73	135.5	25	54.5	74.5	
BTD14M-52.5-36Z	36	160.43	157.64	141	25	54.5	70.5	
BTD14M-52.5-38Z	38	169.34	166.55	150	25	54.5	70.5	
BTD14M-52.5-40Z	40	178.25	175.46	159	25	54.5	70.5	
BTD14M-52.5-43Z	43	191.62	188.83	172	25	54.5	70.5	
BTD14M-52.5-45Z	45	200.54	197.75	181	25	54.5	70.5	
BTD14M-52.5-48Z	48	213.90	211.11	195	25	54.5	70.5	
BTD14M-52.5-50Z	50	222.82	220.03	150	25	54.5	70.5	
BTD14M-52.5-56Z	56	249.56	246.77	150	25	54.5	70.5	
BTD14M-52.5-60Z	60	267.38	264.59	150	25	54.5	70.5	
BTD14M-52.5-63Z	63	280.75	277.96	150	25	54.5	70.5	
* BTD14M-52.5-71Z	71	316.40	313.61	150	25	54.5	70.5	
* BTD14M-52.5-75Z	75	334.23	331.44	150	25	54.5	70.5	

* On demand



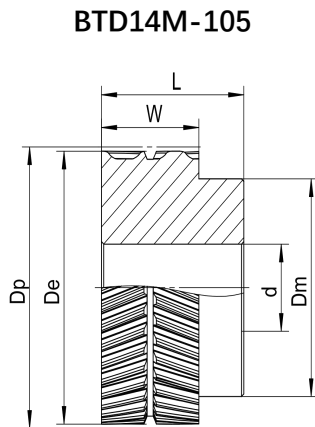
Helical Offset Tooth Pulleys



BTD14M-

BTD14M-1050 Belt width:105mm

Type	Teeth	Dp	De	Dm	d	W	L	Mat'l
BTD14M-70-28Z	28	124.78	121.99	109	25	72	92	Steel
BTD14M-70-30Z	30	133.69	130.90	117.5	25	72	92	
BTD14M-70-32Z	32	142.60	139.81	126.5	25	72	98	
BTD14M-70-34Z	34	151.52	148.73	135.5	25	72	98	
BTD14M-70-36Z	36	160.43	157.64	144	25	72	98	
BTD14M-70-38Z	38	169.34	166.55	153	25	72	98	
BTD14M-70-40Z	40	178.25	175.46	162	25	72	98	
BTD14M-70-43Z	43	191.62	188.83	174	25	72	88	
BTD14M-70-45Z	45	200.54	197.75	183	25	72	88	
BTD14M-70-48Z	48	213.90	211.11	197	25	72	88	
BTD14M-70-50Z	50	222.82	220.03	205	25	72	88	
BTD14M-70-56Z	56	249.56	246.77	230	25	72	88	
BTD14M-70-60Z	60	267.38	264.59	150	25	72	88	
BTD14M-70-63Z	63	280.75	277.96	150	25	72	88	
* BTD14M-70-71Z	71	316.40	313.61	150	25	72	88	
* BTD14M-70-75Z	75	334.23	331.44	180	25	72	88	



BTD14M-105

BTD14M-70 Belt width:70mm

Type	Teeth	Dp	De	Dm	d	W	L	Mat'l
BTD14M-105-28Z	28	124.78	121.99	109	25	107	133	Steel
BTD14M-105-30Z	30	133.69	130.90	117.5	25	107	133	
BTD14M-105-32Z	32	142.60	139.81	126.5	25	107	133	
BTD14M-105-34Z	34	151.52	148.73	135.5	25	107	133	
BTD14M-105-36Z	36	160.43	157.64	144	25	107	133	
BTD14M-105-38Z	38	169.34	166.55	153	25	107	133	
BTD14M-105-40Z	40	178.25	175.46	162	25	107	133	
BTD14M-105-43Z	43	191.62	188.83	174	25	107	133	
BTD14M-105-45Z	45	200.54	197.75	183	25	107	123	
BTD14M-105-48Z	48	213.90	211.11	197	25	107	123	
BTD14M-105-50Z	50	222.82	220.03	205	25	107	123	
BTD14M-105-56Z	56	249.56	246.77	230	25	107	123	
BTD14M-105-60Z	60	267.38	264.59	180	25	107	123	
BTD14M-105-63Z	63	280.75	277.96	180	25	107	123	
* BTD14M-105-71Z	71	316.40	313.61	200	25	107	123	

* On demand

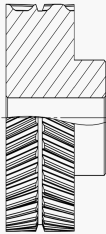
BTD14M Helical Offset Tooth Pulleys



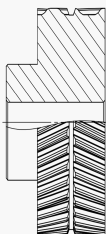
Teeth Direction Instruction:

Important:

Customers must specify the hub projection orientation (left-hand or right-hand) when submitting an order.



Right-hand direction



Left-hand direction

Flexibility:

Minimum Pulley Diameters		Steel Cord	HPF Cord
Non-reverse bending 	Pulley teeth Z_{min}	32	30
	Flat idler on belt teeth d_{min} [mm]	140	130
Reverse bending 	Pulley teeth Z_{min}	32	30
	Flat idler on belt back d_{min} [mm]	200	180



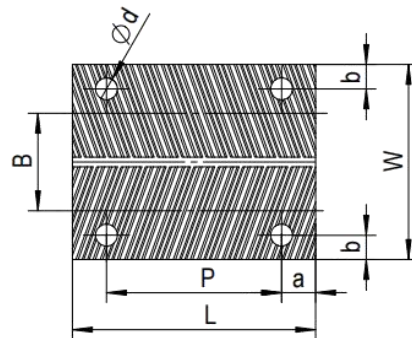
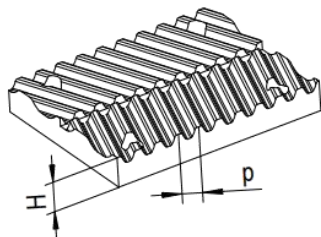
Clamp Plates

Clamp plates offer positive mechanical fastening for timing belt ends in linear drive applications. They require precise Belt profile matching, uniform contact surface clamping pressure and high rigidity.

[mm]

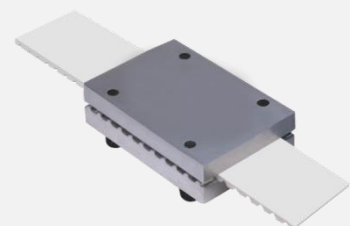
Type	Teeth Plates	Cover Plates	Belt Width	Dimension						
			B	Ød	H	L	P	a	b	W
BTD 5M	PT B5M- 12.5	PL B5M- 12.5	12.5	5.5	8	47	30	8.5	6	30
	PT B5M- 15	PL B5M- 15	15						6	35
	PT B5M- 20	PL B5M- 20	20						6	40
	PT B5M- 25	PL B5M- 25	25						7	45
BTD 8M	PT B8M- 16	PL B8M- 16	16	9	15	74	48	13	7.5	40
	PT B8M- 25	PL B8M- 25	25						8	50
	PT B8M- 32	PL B8M- 32	32						8	57
	PT B8M- 50	PL B8M- 50	50						8	75
	PT B8M- 64	PL B8M- 64	64						8	90
BTD 10M	PT B10M- 25	PL B10M- 25	25	9	16	94	60	17	8	50
	PT B10M- 32	PL B10M- 32	32						8	57
	PT B10M- 50	PL B10M- 50	50						8	75
	PT B10M- 75	PL B10M- 75	75						8	100
BTD 14M	PT B14M- 35	PL B14M- 35	35	11	22	130	84	23	9.5	65
	PT B14M- 52.5	PL B14M- 52.5	52.5						9.5	82.5
	PT B14M- 70	PL B14M- 70	70						9.5	100
	PT B14M- 105	PL B14M- 105	105						10	136

- Standard clamping plates are made of aluminium.
- Min. 7 engaged teeth for standard clamps; Min. 12 engaged teeth for HP- reinforced belts.



Order Code

PT- B5M - 25 - ALU



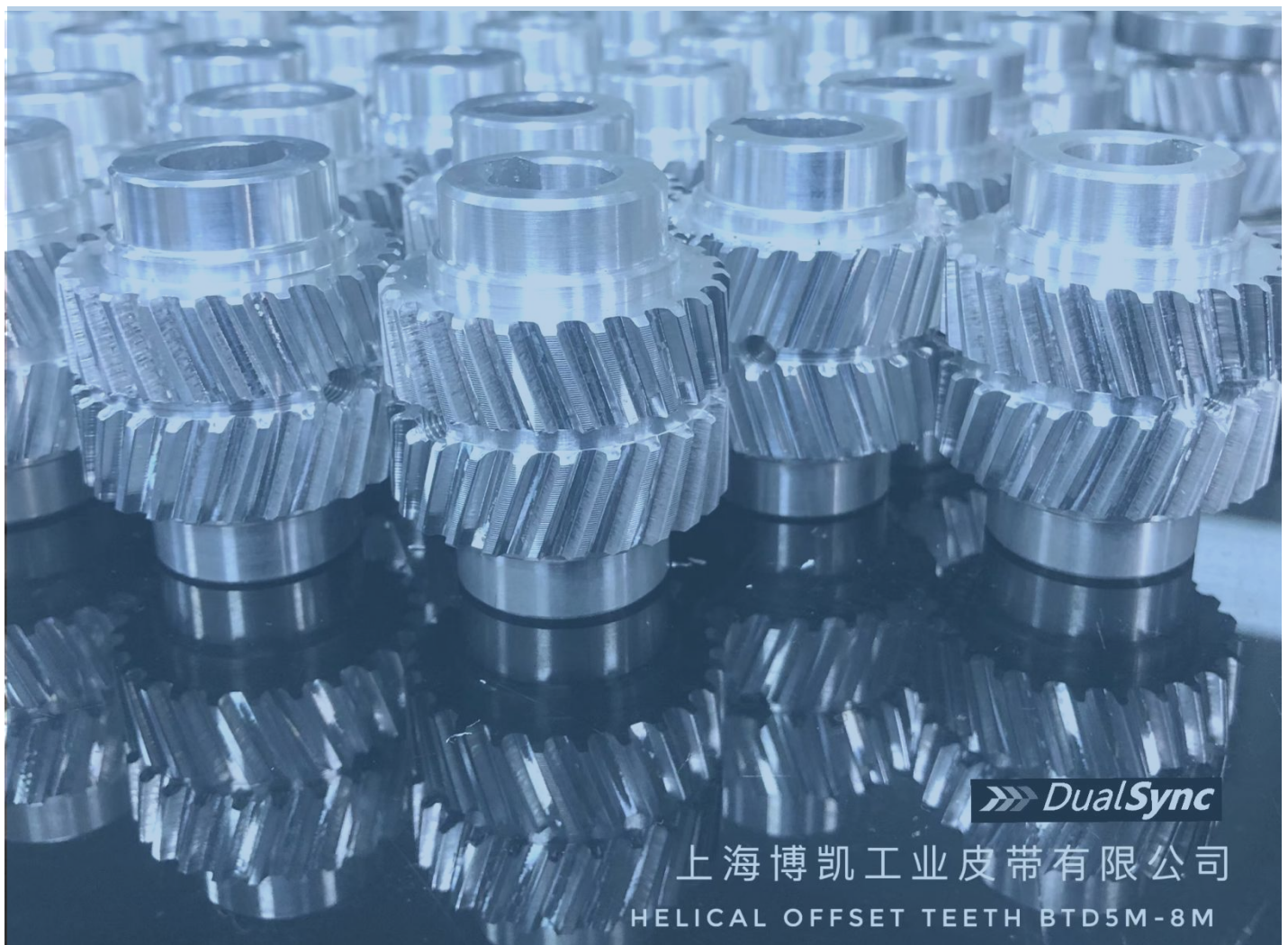


Reference table

Company	Series	Profile	Material	Remarks	
PowerChem®	DualSync®	BTD	PU & Rubber	BTD 8M	Bi-dir. Torque Drive
CONTITECH®	SilentSync®	Y-W-P-B-G-O-R	Rubber	W-1000	Helical Offset Tooth
MEGADYNE®	QST	QST	PU	QST8M	Quiet Self Tracking
ELATECH®	Eagle	Eagle	PU	E 8M	EAGEL Belts

Note: This cross- reference table is for genuine model comparison only. All trademarks belong to their respective owners.

WE CREATE THE DIFFERENCE!

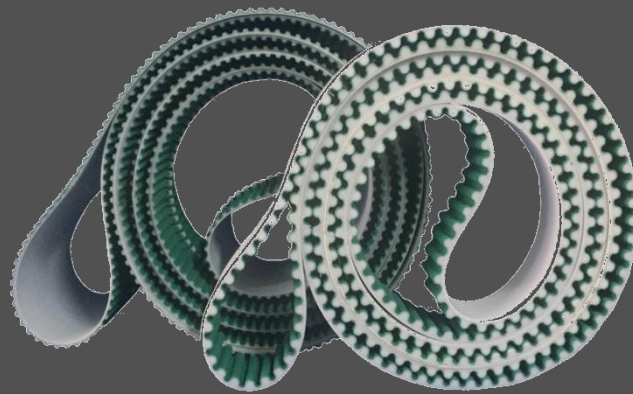


上海博凯工业皮带有限公司

HELICAL OFFSET TEETH BTD5M-8M

POLYURETHANE TIMING BELTS

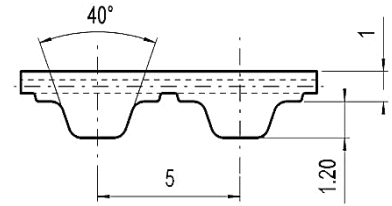
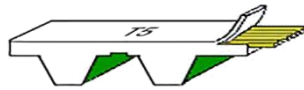
Open-end | Spliced Series



T5-DT5 Open-end belt M / Spliced belt V

Characteristics

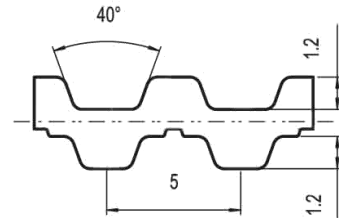
- Metric pitch 5 mm
- Steel cord as standard
- Trapezoidal tooth profile according to ISO17396 standard
- Suitable for high-flexibility drive applications
- Conveying, linear drives and low power transmission



Tolerances range

- Width tolerance: ± 0.5 [mm]
- Length tolerance: ± 0.5 [mm/m]
- Thickness tolerance: ± 0.2 [mm]

Double-sided tooth DT5



Technical Parameters

Width [mm]	10	16	25	32	50	75	100
Allowable load Open-end M-Type [N]	320	520	880	1086	1800	2800	3740
Allowable load Spliced V-Type [N]	160	260	440	543	900	1400	1870
Breaking load [N]	1220	2100	3450	4400	7200	10200	14260
Weight [kg/m]	0.020	0.032	0.054	0.068	0.106	0.159	0.22

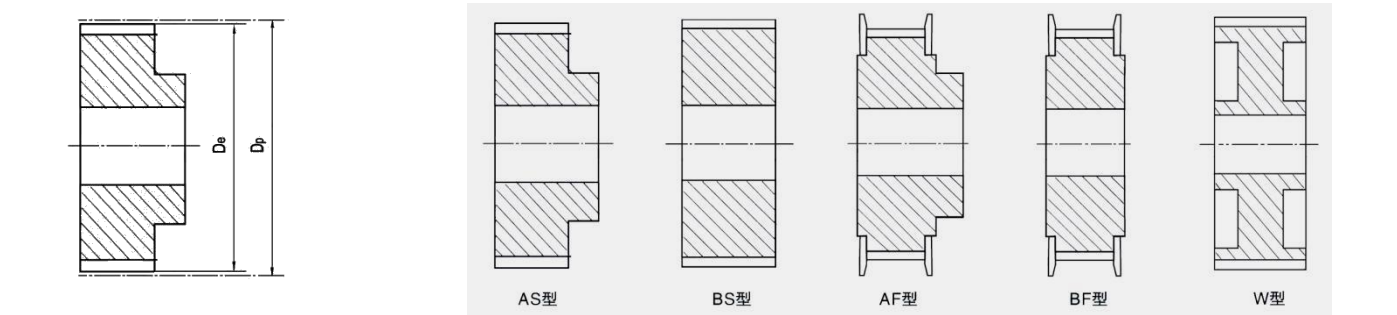
Flexibility & Minimum Pulley Diameters

Application		Timing pulley Flat idler pulley	Steel cord
	Non-reverse bending	Pulley teeth Z_{min}	10
		Flat idler on belt teeth d_{min} [mm]	30
	Reverse bending	Pulley teeth Z_{min}	15
		Flat idler on belt back d_{min} [mm]	30

Technical Characteristics

- Operating temperature between -20°C to $+80^{\circ}\text{C}$ (up to 110°C for short-term)
- Nylon fiber coating on teeth as standard
- Hardness Shore A 92
- Standard color is black. White color is available on request
- Galvanized carbon steel cord with S/Z twist direction
- High tensile strength; teeth deliver enhanced torque transmission
- Resistance to aging, UV and ozone; resistant to grease, weak acids and weak alkalis

T5 Timing Pulley



T5 timing pulley

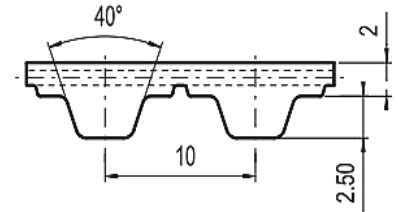
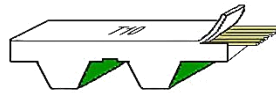
Z	Dp	De	Z	Dp	De	Z	Dp	De
10	15.92	15.05	33	52.54	51.70	56	89.15	8.83
11	17.51	16.65	34	54.13	53.25	57	0.91	8.99
12	19.10	18.25	35	55.72	54.85	58	92.34	9.15
13	20.70	19.85	36	57.31	56.45	59	93.93	93.05
14	22.29	21.45	37	58.90	58.05	60	95.52	94.65
15	23.88	23.05	38	60.50	59.65	61	97.11	96.25
16	25.47	24.60	39	62.09	61.25	62	98.70	97.85
17	27.06	26.20	40	63.66	62.85	63	100.30	99.45
18	28.65	27.80	41	65.27	6.44	64	101.89	101.05
19	30.25	29.40	42	66.86	0.66	65	103.48	102.65
20	31.83	31.00	43	68.46	6.77	66	105.07	10.42
21	33.43	32.70	44	70.05	6.92	67	106.66	10.58
22	35.02	34.25	45	71.64	7.08	68	108.26	107.40
23	36.62	35.85	46	73.23	7.24	69	109.85	109.00
24	38.21	37.40	47	74.82	73.95	70	111.44	110.60
25	39.80	39.00	48	76.42	75.55	71	113.03	112.20
26	41.39	40.60	49	78.01	77.15	72	114.62	113.75
27	42.98	42.20	50	79.60	78.75	73	116.22	115.35
28	44.58	43.75	51	81.19	80.35	74	117.81	116.95
29	46.17	45.35	52	82.78	81.95	75	119.40	118.55
30	47.76	46.95	53	84.38	8.35	76	120.99	120.15
31	49.35	48.55	54	85.97	8.51	77	122,58	121,75
32	50.94	50.10	55	87.54	8.67	78	124,18	123,30



T10 - DT10 Open-end belt M / Spliced belt V

Parameter characteristics

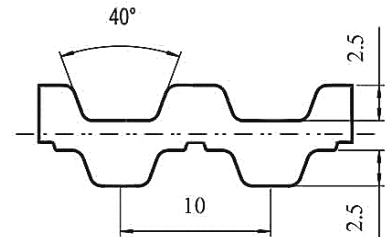
- Metric pitch 10 mm
- Steel and Kevlar cord are available
- Trapezoidal tooth profile according to ISO17396 standard
- Suitable for medium torque drive applications
- Conveying, linear drives and medium power transmission



Tolerances range

- Width tolerance: ± 0.5 [mm]
- Length tolerance: ± 0.5 [mm/m]
- Thickness tolerance: ± 0.2 [mm]

Double-sided tooth DT10



Technical parameters

Width [mm]	10	16	25	32	50	75	100	150
Allowable load Open-end M-Type [N]	900	1600	2620	3420	5500	8380	11200	17000
Allowable load Spliced V-Type [N]	450	800	1310	1710	2750	4190	5600	8500
Breaking load [N]	3340	5830	9500	11290	20050	30000	41000	62000
Weight [kg/m]	0.05	0.07	0.11	0.15	0.23	0.35	0.46	0.69

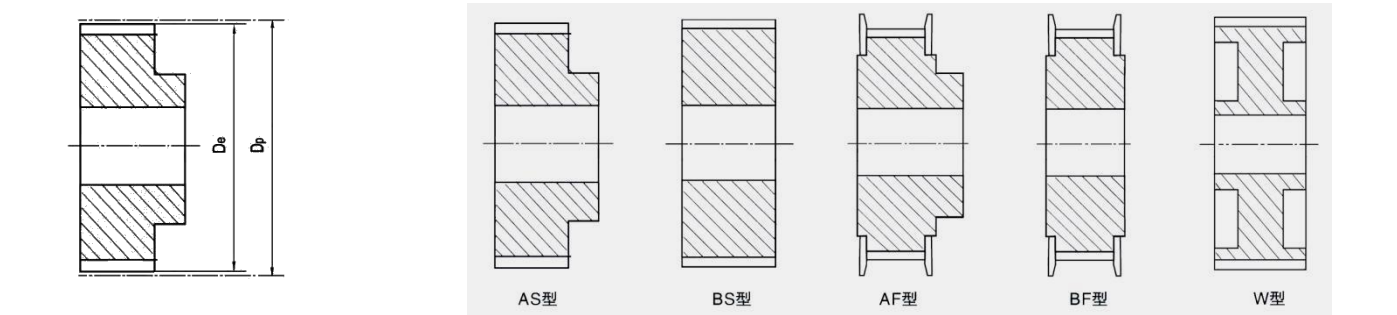
Flexibility & Minimum Pulley Diameters

Application		Timing pulley Flat idler pulley	Steel cord	Kevlar cord
	Non-reverse bending	Pulley teeth $Z_{\min}$	12	15
		Flat idler on belt teeth $d_{\min}$ [mm]	60	60
	Reverse bending	Pulley teeth $Z_{\min}$	20	20
		Flat idler on belt back $d_{\min}$ [mm]	60	60

Technical Characteristics

- Operating temperature between -20°C to $+80^{\circ}\text{C}$ (up to 110°C for short-term)
- Nylon fiber coating on teeth as standard
- Hardness Shore A 92
- Standard color is black. White color is available on request
- Galvanized carbon steel cord with S/Z twist direction
- High tensile strength; teeth deliver enhanced torque transmission
- Resistance to aging, UV and ozone; resistant to grease, weak acids and weak alkalis

T10 Timing Pulley



T10 timing pulley

Z	Dp	De
10	31.84	30.05
11	35.02	33.25
12	38.20	36.35
13	41.38	39.50
14	44.56	42.70
15	47.75	45.90
16	50.93	49.05
17	54.11	52.25
18	57.29	55.45
19	60.48	58.65
20	63.66	61.80
21	66.84	65.00
22	70.03	68.15
23	73.20	71.35
24	76.39	74.55
25	79.58	77.70
26	82.76	80.90
27	85.95	84.10
28	89.12	87.25
29	92.21	90.45
30	95.49	93.65
31	98.67	96.85
32	101.86	100.00

Z	Dp	De
33	105.04	103.20
34	108.22	106.40
35	111.41	109.55
36	114.59	112.75
37	117.77	115.90
38	120.95	119.10
39	124.14	122.30
40	127.32	125.45
41	130.50	128.65
42	133.69	131.85
44	140.05	138.20
45	143.24	141.40
46	146.42	144.60
47	149.60	147.75
48	152.78	150.95
49	155.97	154.10
50	159.15	157.30
51	162.33	160.50
52	165.52	163.65
53	168.70	166.85
54	171.88	170.05
55	175.06	173.20
56	178.25	176.40

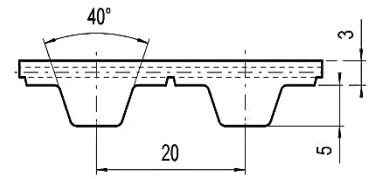
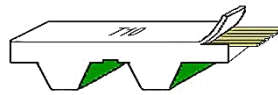
Z	Dp	De
57	181.43	179.60
58	184.61	182.75
59	187.80	185.95
60	190.98	189.10
61	194.16	192.30
62	197.35	195.50
63	200.53	198.65
64	203.71	201.85
65	206.90	205.05
66	210.08	208.20
67	213.26	211.40
68	216.44	214.60
69	219.63	217.75
70	222.81	220.95
71	225.99	224.15
72	229.18	227.30
73	232.36	230.50
74	235.54	233.70
75	238.72	236.90
76	241.94	240.05
77	245.09	243.25
78	248.27	246.40
79	251.46	249.60



T20 Open-end belt M / Spliced belt V

Parameter characteristics

- Metric pitch 20 mm
- Steel cord as standard
- Trapezoidal tooth profile according to ISO17396 standard
- Suitable for high torque drive applications
- Conveying, linear drives and low high power transmission



Tolerances range

- Width tolerance: ± 1.0 [mm]
- Length tolerance: ± 0.8 [mm/m]
- Thickness tolerance: ± 0.4 [mm]

Technical parameters

Width [mm]	25	32	50	75	100
Allowable load Open-end M Type [N]	3510	4470	7250	10470	15680
Allowable load Spliced V Type [N]	1755	2235	3625	5235	7840
Breaking load [N]	14420	17800	30250	45710	61210
Weight [kg/m]	0.17	0.23	0.37	0.54	0.73

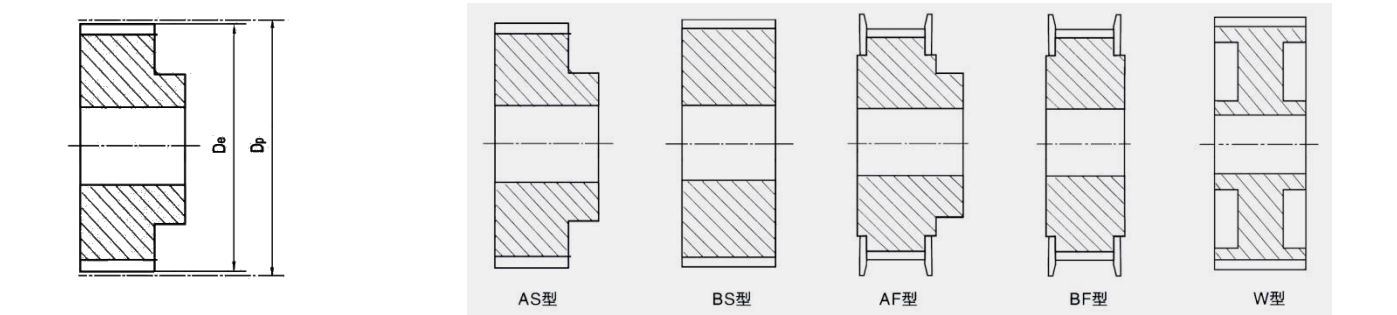
Flexibility & Minimum Pulley Diameters

Application		Timing pulley Flat idler pulley	Steel cord
	Non-reverse bending	Pulley teeth Z_{min}	15
		Flat idler on belt teeth d_{min} [mm]	120
	Reverse bending	Pulley teeth Z_{min}	25
		Flat idler on belt back d_{min} [mm]	120

Technical Characteristics

- Operating temperature between -20°C to $+80^{\circ}\text{C}$ (up to 110°C for short-term)
- Nylon fiber coating on teeth as standard
- Hardness Shore A 92
- Standard color is black. White color is available on request
- Galvanized carbon steel cord with S/Z twist direction
- High tensile strength; teeth deliver enhanced torque transmission
- Resistance to aging, UV and ozone; resistant to grease, weak acids and weak alkalis

T20 Timing Pulley



T20 timing pulley

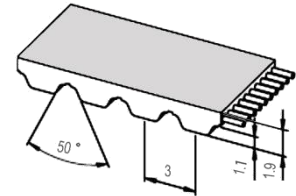
Z	Dp	De	Z	Dp	De	Z	Dp	De
15	95.49	92.65	38	241.91	239.05	61	388.33	385.45
16	101.86	99.00	39	248.28	245.40	62	394.70	391.85
17	108.22	105.40	40	254.65	251.75	63	401.06	398.20
18	114.59	111.75	41	261.02	258.15	64	407.43	404.55
19	120.96	118.10	42	267.37	264.50	65	413.80	410.95
20	127.32	124.50	43	273.74	270.85	66	420.17	417.30
21	133.69	130.75	44	280.10	277.25	67	426.52	423.65
22	140.06	137.20	45	286.47	283.60	68	432.89	430.05
23	146.43	143.55	46	292.84	289.95	69	439.26	436.40
24	152.78	149.95	47	299.21	296.35	70	445.63	442.80
25	159.15	156.30	48	305.58	302.70	71	451.99	449.15
26	165.52	162.65	49	311.93	309.10	72	458.36	455.50
27	171.89	169.00	50	318.30	315.45	73	464.73	461.85
28	178.25	175.40	51	324.67	321.80	74	471.08	468.25
29	184.62	181.75	52	331.03	328.15	75	477.45	474.60
30	190.99	188.10	53	337.40	334.50	76	483.82	480.95
31	197.35	194.50	54	343.76	340.90	77	490.19	487.35
32	203.72	200.85	55	350.13	347.25	78	496.56	493.70
33	210.09	207.20	56	356.50	353.60	79	502.91	500.05
34	216.44	213.60	57	362.86	360.00	80	509.28	506.45
35	222.81	219.95	58	369.23	366.35	81	515.65	512.80
36	229.18	226.35	59	375.59	372.75	82	522.02	519.15
37	235.54	232.70	60	381.96	379.10	83	528.39	525.55



AT3 Open-end belt M / Spliced belt V

Parameter characteristics

- Metric pitch 3mm
- Steel cord as standard
- Trapezoidal tooth profile according to ISO17396 standard
- Suitable for low torque drive applications
- Conveying, linear drives and low power transmission



Tolerances range

- Width tolerance: ± 0.5 [mm]
- Length tolerance: ± 0.5 [mm/m]
- Thickness tolerance: ± 0.2 [mm]

Technical parameters

Width [mm]	8	10	12	16	20	25	50	100
Allowable load Open-end M-Type [N]	258	320	416	536	700	900	1856	3774
Allowable load Spliced V-Type [N]	129	160	208	268	350	450	928	1887
Breaking load [N]	1000	1250	1620	2120	2750	3500	7250	14750
Weight [kg/m]	0.018	0.022	0.026	0.035	0.044	0.054	0.111	0.223

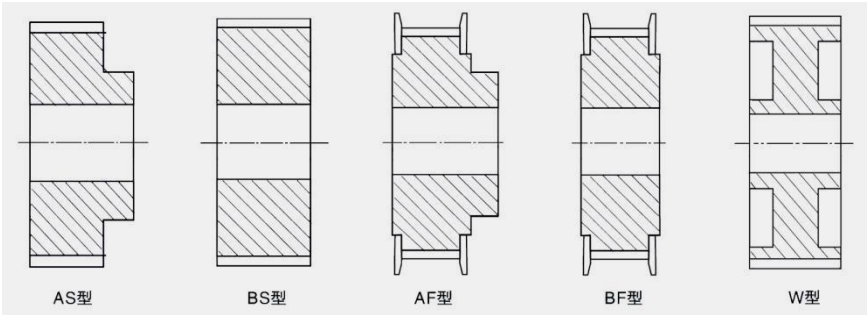
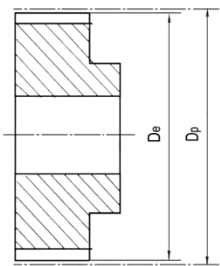
Flexibility & Minimum Pulley Diameters

Application		Timing pulley Flat idler pulley	Steel cord
	Non-reverse bending	Pulley teeth Z_{min}	15
		Flat idler on belt teeth d_{min} [mm]	20
	Reverse bending	Pulley teeth Z_{min}	20
		Flat idler on belt back d_{min} [mm]	20

Technical Characteristics

- Operating temperature between -20°C to $+80^{\circ}\text{C}$ (up to 110°C for short-term)
- Nylon fiber coating on teeth as standard
- Hardness Shore A 92
- Standard color is black. White color is available on request
- Galvanized carbon steel cord with S/Z twist direction
- High tensile strength; teeth deliver enhanced torque transmission
- Resistance to aging, UV and ozone; resistant to grease, weak acids and weak alkalis

AT3 Timing Pulley



AT3 timing pulley

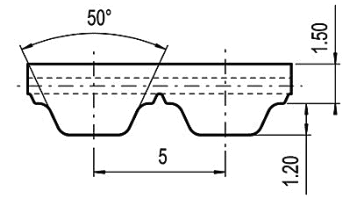
齿数 Z	节圆 Dp	外圆 De	齿数 Z	节圆 Dp	外圆 De	齿数 Z	节圆 Dp	外圆 De
15	14.32	13.92	34	32.47	32.06	53	50.61	50.20
16	15.28	14.87	35	33.42	33.01	54	51.57	51.16
17	16.23	15.82	36	34.38	33.97	55	52.52	52.11
18	17.19	16.78	37	35.33	34.92	56	53.48	53.07
19	18.14	17.73	38	36.29	35.88	57	54.43	54.02
20	19.10	18.69	39	37.24	36.83	58	55.39	54.98
21	20.05	19.64	40	38.20	37.79	59	56.34	55.93
22	21.01	20.60	41	39.15	38.74	60	57.30	56.89
23	21.96	21.55	42	40.11	39.70	61	58.25	57.84
24	22.92	22.51	43	41.06	40.65	62	59.21	58.80
25	23.87	23.46	44	42.02	41.61	63	60.16	59.75
26	24.83	24.42	45	42.97	42.56	64	61.12	60.71
27	25.78	25.37	46	43.93	43.52	65	62.07	61.66
28	26.74	26.33	47	44.88	44.47	66	63.03	62.62
29	27.69	27.28	48	45.84	45.43	67	63.98	63.57
30	28.65	28.24	49	46.79	46.38	68	64.94	64.53
31	29.60	29.19	50	47.75	47.34	69	65.89	65.48
32	30.56	30.15	51	48.70	48.29	70	66.85	66.44
33	31.51	31.10	52	49.66	49.25	71	67.80	67.39



AT5 Open-end belt M / Spliced belt V

Parameter characteristics

- Metric pitch 5 mm
- Steel cord as standard
- Trapezoidal tooth profile according to ISO17396 standard
- Suitable for low torque drive applications
- Conveying, linear drives and low power transmission



Tolerances range

- Width tolerance: ± 0.5 [mm]
- Length tolerance: ± 0.5 [mm/m]
- Thickness tolerance: ± 0.2 [mm]

Technical parameters

Width [mm]	10	16	25	32	50	75	100
Allowable load Open-end M-Type [N]	632	1100	1800	2380	3800	5770	7790
Allowable load Spliced V-Type [N]	316	550	900	1190	1900	2880	3895
Breaking load [N]	2100	3720	6150	8000	12600	19000	26000
Weight [kg/m]	0.03	0.05	0.10	0.12	0.18	0.27	0.35

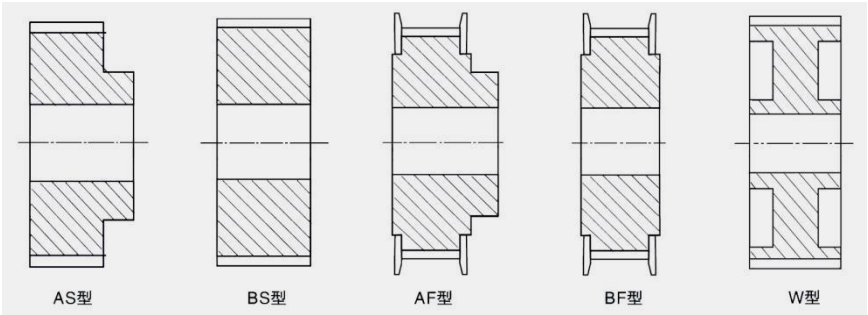
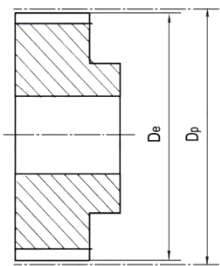
Flexibility & Minimum Pulley Diameters

Application		Timing pulley Flat idler pulley	Steel cord	Kevlar cord
	Non-reverse bending	Pulley teeth Z_{min}	15	15
		Flat idler on belt teeth d_{min} [mm]	30	30
	Reverse bending	Pulley teeth Z_{min}	25	25
		Flat idler on belt back d_{min} [mm]	60	60

Technical Characteristics

- Operating temperature between -20°C to $+80^{\circ}\text{C}$ (up to 110°C for short-term)
- Nylon fiber coating on teeth as standard
- Hardness Shore A 92
- Standard color is black. White color is available on request
- Galvanized carbon steel cord with S/Z twist direction
- High tensile strength; teeth deliver enhanced torque transmission
- Resistance to aging, UV and ozone; resistant to grease, weak acids and weak alkalis

AT5 Timing Pulley



AT5 timing pulley

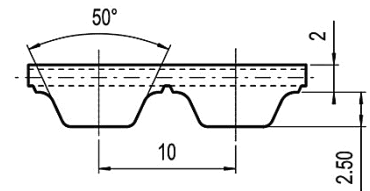
Z	Dp	De	Z	Dp	De	Z	Dp	De
15	23.88	22.65	38	60.50	59.25	61	97.11	95.85
16	25.47	24.20	39	62.09	60.85	62	98.70	97.45
17	27.06	25.80	40	63.66	62.45	63	100.30	99.05
18	28.65	27.40	41	65.27	64.00	64	101.89	100.65
19	30.25	29.00	42	66.86	65.60	65	103.48	102.25
20	31.83	30.60	43	68.46	67.30	66	105.07	103.80
21	33.43	32.20	44	70.05	68.80	67	106.66	105.40
22	35.02	33.80	45	71.64	70.40	68	108.26	107.00
23	36.62	35.40	46	73.23	72.00	69	109.85	108.60
24	38.21	37.00	47	74.82	73.55	70	111.44	110.20
25	39.80	38.60	48	76.42	75.15	71	113.03	111.80
26	41.39	40.20	49	78.01	76.75	72	114.62	113.35
27	42.98	41.80	50	79.60	78.35	73	116.22	114.95
28	44.58	43.35	51	81.19	79.95	74	117.81	116.55
29	46.17	44.95	52	82.78	81.55	75	119.40	118.15
30	47.76	46.55	53	84.38	83.10	76	120.99	119.75
31	49.35	48.15	54	85.97	84.70	77	122.58	121.35
32	50.94	49.70	55	87.54	86.30	78	124.18	122.90
33	52.54	51.30	56	89.15	87.90	79	125.77	124.50
34	54.13	52.85	57	90.74	89.50	80	127.36	126.10
35	55.72	54.45	58	92.34	91.10	81	128.95	127.70
36	57.31	56.05	59	93.93	92.65	82	130.54	129.30
37	58.90	57.65	60	95.52	94.25	83	132.14	130.90



AT10-DAT10 Open-end belt M / Spliced belt V

Parameter characteristics

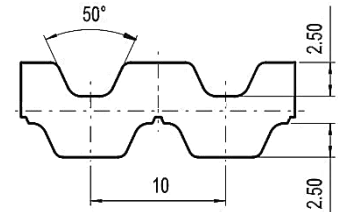
- Metric pitch 10 mm
- Steel and Kevlar cord are available
- Trapezoidal tooth profile according to ISO17396 standard
- Suitable for medium torque drive applications
- Conveying, linear drives and medium power transmission



Tolerances range

- Width tolerance: ± 0.5 [mm]
- Length tolerance: ± 0.5 [mm/m]
- Thickness tolerance: ± 0.2 [mm]

Double-sided
tooth DT10



Technical parameters

Width [mm]	16	25	32	50	75	100	150
Allowable load Open-end M-Type [N]	2440	4100	5350	8500	12650	17350	26000
Allowable load Spliced V-Type [N]	1220	2050	2675	4250	6325	8675	13000
Breaking load [N]	9450	16000	20700	33200	50280	67400	101500
Weight [kg/m]	0.09	0.16	0.19	0.31	0.45	0.60	0.91

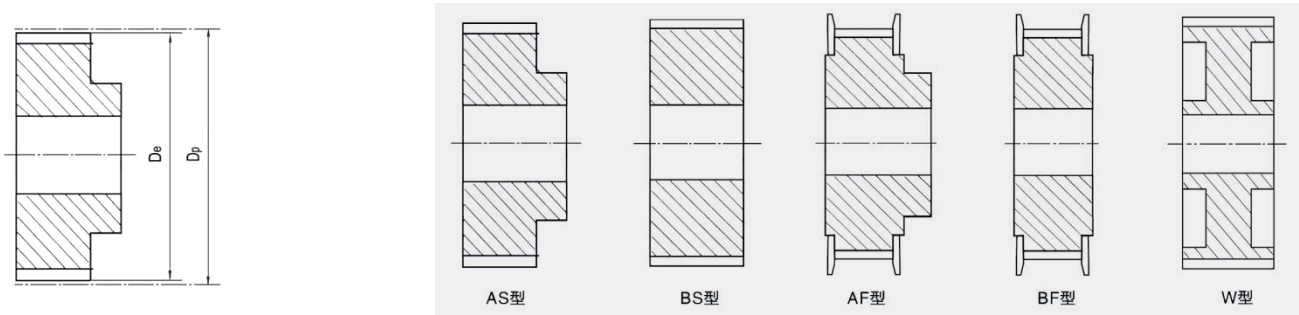
Flexibility & Minimum Pulley Diameters

Application		Timing pulley Flat idler pulley	Steel cord	Kevlar cord
	Non-reverse bending	Pulley teeth Z_{min}	15	15
		Flat idler on belt teeth d_{min} [mm]	50	50
	Reverse bending	Pulley teeth Z_{min}	25	25
		Flat idler on belt back d_{min} [mm]	120	120

Technical Characteristics

- Operating temperature between -20°C to $+80^{\circ}\text{C}$ (up to 110°C for short-term)
- Nylon fiber coating on teeth as standard
- Hardness Shore A 92
- Standard color is black. White color is available on request
- Galvanized carbon steel cord with S/Z twist direction
- High tensile strength; teeth deliver enhanced torque transmission
- Resistance to aging, UV and ozone; resistant to grease, weak acids and weak alkalis

AT10 Timing Pulley



AT10 timing pulley

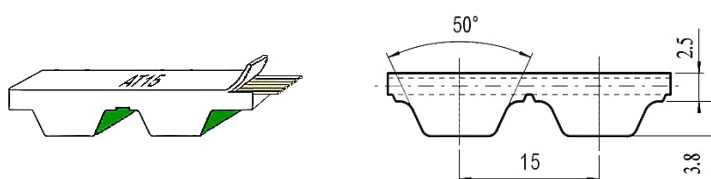
Z	Dp	De	Z	Dp	De	Z	Dp	De
15	47.75	45.70	38	120.95	119.10	61	194.16	192.30
16	50.93	49.05	39	124.14	122.30	62	197.35	195.50
17	54.11	52.25	40	127.32	125.45	63	200.53	198.65
18	57.29	55.45	41	130.50	128.65	64	203.71	201.85
19	60.48	58.60	42	133.69	131.85	65	206.90	205.05
20	63.66	61.80	43	136.87	135.00	66	210.08	208.20
21	66.84	65.00	44	140.05	138.20	67	213.26	211.40
22	70.03	68.15	45	143.24	141.40	68	216.44	214.60
23	73.20	71.35	46	146.42	144.55	69	219.63	217.75
24	76.39	74.55	47	149.60	147.75	70	222.81	220.95
25	79.58	77.70	48	152.78	150.95	71	225.99	224.15
26	82.76	80.90	49	155.97	154.10	72	229.18	227.30
27	85.95	84.10	50	159.15	157.30	73	232.33	230.50
28	89.12	87.25	51	162.33	160.50	74	235.54	233.70
29	92.21	90.45	52	165.52	163.65	75	238.72	236.90
30	95.49	93.65	53	168.70	166.85	76	241.94	240.05
31	98.67	96.80	54	171.88	170.05	77	245.09	243.25
32	101.86	100.00	55	175.06	173.20	78	248.24	246.40
33	105.04	103.20	56	178.25	176.40	79	251.46	249.60
34	108.19	106.40	57	181.43	179.60	80	254.64	252.80
35	111.41	109.55	58	184.61	182.75	81	257.82	255.95
36	114.59	112.75	59	187.80	185.95	82	261.00	259.15
37	117.77	115.90	60	190.98	189.10	83	264.19	262.30



AT15 Open-end belt M / Spliced belt V

Parameter characteristics

- Metric pitch 15 mm
- Steel cord as standard
- Trapezoidal tooth standard
- Suitable for high torque drive applications
- Conveying, linear drives and high-power transmission



Tolerances range

- Width tolerance: ± 0.8 [mm]
- Length tolerance: ± 0.6 [mm/m]
- Thickness tolerance: ± 0.45 [mm]

Technical parameters

Width [mm]	25	32	50	75	100	150
Allowable load Open-end M-Type [N]	4720	6200	10020	15050	20260	30850
Allowable load Spliced V-Type [N]	2360	3100	5010	7525	10130	15420
Breaking load [N]	17650	23500	37650	56600	76500	115470
Weight [kg/m]	0.19	0.25	0.39	0.59	0.79	1.18

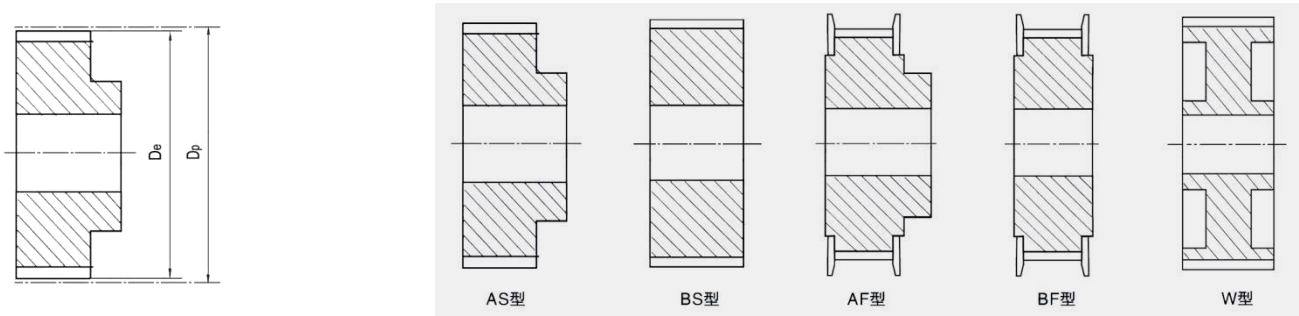
Flexibility & Minimum Pulley Diameters

Application		Timing pulley Flat idler pulley	Steel cord
	Non-reverse bending	Pulley teeth Z_{min}	25
		Flat idler on belt teeth d_{min} [mm]	120
	Reverse bending	Pulley teeth Z_{min}	25
		Flat idler on belt back d_{min} [mm]	160

Technical Characteristics

- Operating temperature between -20°C to $+80^{\circ}\text{C}$ (up to 110°C for short-term)
- Nylon fiber coating on teeth as standard
- Hardness Shore A 92
- Standard color is black. White color is available on request
- Galvanized carbon steel cord with S/Z twist direction
- High tensile strength; teeth deliver enhanced torque transmission
- Resistance to aging, UV and ozone; resistant to grease, weak acids and weak alkalis

AT15 Timing Pulley



AT15 timing pulley

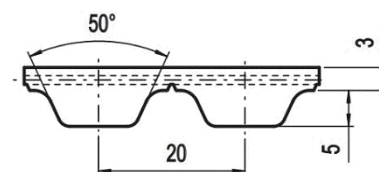
Z	Dp	De	Z	Dp	De	Z	Dp	De
25	119.37	116.79	48	229.18	226.60	71	339.00	336.42
26	124.14	121.56	49	233.96	231.38	72	343.77	341.19
27	128.92	126.34	50	238.73	236.15	73	348.55	345.97
28	133.69	131.11	51	243.51	240.93	74	353.32	350.74
29	138.46	135.88	52	248.28	245.70	75	358.10	355.52
30	143.24	140.66	53	253.06	250.48	76	362.87	360.29
31	148.01	145.43	54	257.83	255.25	77	367.65	365.07
32	152.79	150.21	55	262.61	260.03	78	372.42	369.84
33	157.56	154.98	56	267.38	264.80	79	377.20	374.62
34	162.34	159.76	57	272.16	269.57	80	381.97	379.39
35	167.11	164.53	58	276.93	274.35	81	386.75	384.17
36	171.89	169.31	59	281.70	279.12	82	391.52	388.94
37	176.66	174.08	60	286.48	283.90	83	396.30	393.71
38	181.44	178.86	61	291.25	288.67	84	401.07	398.49
39	186.21	183.63	62	296.03	293.45	85	405.85	403.26
40	190.99	188.41	63	300.80	298.22	86	410.62	408.04
41	195.76	193.18	64	305.58	303.00	87	415.39	412.81
42	200.54	197.95	65	310.35	307.77	88	420.17	417.59
43	205.31	202.73	66	315.13	312.55	89	424.94	422.36
44	210.08	207.50	67	319.90	317.32	90	429.72	427.14
45	214.86	212.28	68	324.68	322.10	91	434.49	431.91
46	219.63	217.05	69	329.45	326.87	92	439.27	436.69
47	224.41	221.83	70	334.23	331.64	93	444.04	441.46



AT20 Open-end belt M / Spliced belt V

Parameter characteristics

- Metric pitch 20 mm
- Steel cord as standard
- Trapezoidal tooth profile according to ISO17396 standard
- Suitable for high torque drive applications
- Conveying, linear drives and high power transmission



Tolerances range

- Width tolerance: ± 1.0 [mm]
- Length tolerance: ± 0.8 [mm/m]
- Thickness tolerance: ± 0.5 [mm]

Technical parameters

Width [mm]	25	32	50	75	100	150
Allowable load Open-end M-Type [N]	5240	7200	11500	17200	23400	35500
Allowable load Spliced V-Type [N]	2620	3600	5750	8600	11700	17750
Breaking load [N]	19200	26210	41980	62990	85720	12900
Weight [kg/m]	0.24	0.32	0.49	0.74	0.99	1.48

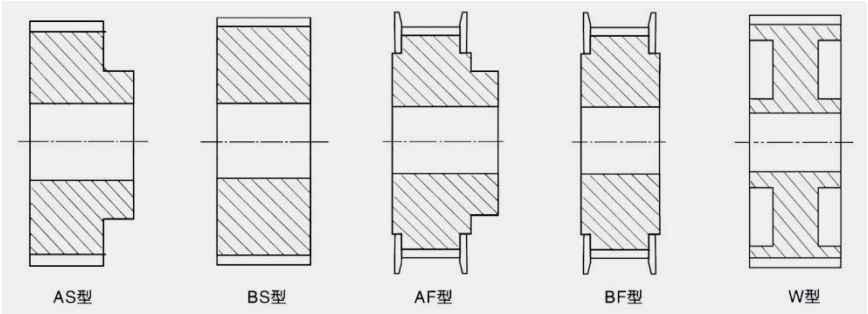
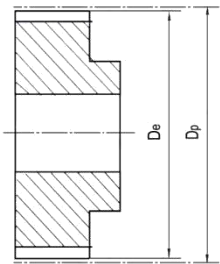
Flexibility & Minimum Pulley Diameters

Application		Timing pulley Flat idler pulley	Steel cord
	Non-reverse bending	Pulley teeth Z_{min}	18
		Flat idler on belt teeth d_{min} [mm]	120
	Reverse bending	Pulley teeth Z_{min}	25
		Flat idler on belt back d_{min} [mm]	180

Technical Characteristics

- Operating temperature between -20°C to $+80^{\circ}\text{C}$ (up to 110°C for short-term)
- Nylon fiber coating on teeth as standard
- Hardness Shore A 92
- Standard color is black. White color is available on request
- Galvanized carbon steel cord with S/Z twist direction
- High tensile strength; teeth deliver enhanced torque transmission
- Resistance to aging, UV and ozone; resistant to grease, weak acids and weak alkalis

AT20 Timing Pulley



AT20 timing pulley

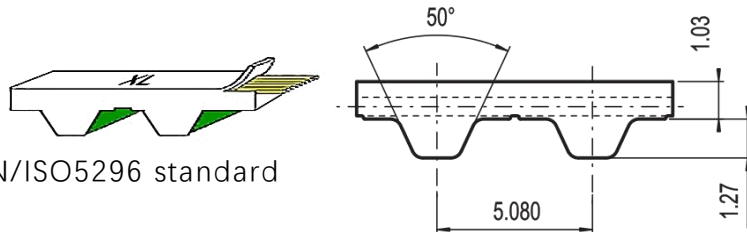
Z	Dp	De	Z	Dp	De	Z	Dp	De
18	114.59	111.75	41	261.01	258.15	64	407.43	404.55
19	120.95	118.10	42	267.37	264.50	65	413.79	410.95
20	127.32	124.50	43	273.74	270.90	66	420.16	417.30
21	133.69	130.75	44	280.10	277.25	67	426.52	423.65
22	140.05	137.20	45	286.47	283.60	68	432.89	430.05
23	146.42	143.55	46	292.84	290.00	69	439.26	436.40
24	152.78	149.95	47	299.21	296.35	70	445.63	442.80
25	159.15	156.30	48	305.58	302.70	71	451.99	449.15
26	165.52	162.65	49	311.93	309.10	72	458.36	455.50
27	171.88	169.05	50	318.30	315.45	73	464.73	461.85
28	178.25	175.40	51	324.67	321.80	74	471.08	468.25
29	184.62	181.75	52	331.03	328.20	75	477.45	474.60
30	190.99	188.15	53	337.40	334.55	76	483.82	480.95
31	197.35	194.50	54	343.76	340.90	77	490.19	487.35
32	203.72	200.85	55	350.13	347.30	78	496.56	493.70
33	210.09	207.20	56	356.50	353.65	79	502.91	500.05
34	216.44	213.60	57	362.86	360.00	80	509.28	506.45
35	222.81	219.95	58	369.23	366.40	81	515.65	512.80
36	229.18	226.35	59	375.59	372.75	82	522.02	519.15
37	235.54	232.70	60	381.96	379.10	83	528.39	525.55
38	241.91	239.05	61	388.33	385.45	84	534.74	531.90
39	248.27	245.45	62	394.69	391.85	85	541.11	538.25
40	254.64	251.80	63	401.06	398.20	86	547.48	544.60



XL Open-end belt M / Spliced belt V

Parameter characteristics

- Imperial pitch 1/5" (5.08mm)
- Steel cord as standard
- Trapezoidal tooth profile according to DIN/ISO5296 standard
- Suitable for low torque drive applications
- Conveying, linear drives and low power transmission



Tolerances range

- Width tolerance: ± 0.5 [mm]
- Length tolerance: ± 0.5 [mm/m]
- Thickness tolerance: ± 0.2 [mm]

Technical parameters

Width [inch] [mm]	025 [6.35]	031 [7.94]	037 [9.53]	050 [12.7]	075 [19.1]	100 [25.4]	150 [38.1]	200 [50.8]	400 [101.6]
Allowable load Open-end M-Type [N]	186	210	286	420	660	896	1400	1850	3800
Allowable load Spliced V-Type [N]	93	105	143	210	330	448	700	925	1900
Breaking load [N]	760	860	1130	1610	2610	3490	5500	7300	15000
Weight [kg/m]	0.014	0.019	0.024	0.033	0.047	0.064	0.095	0.124	0.248

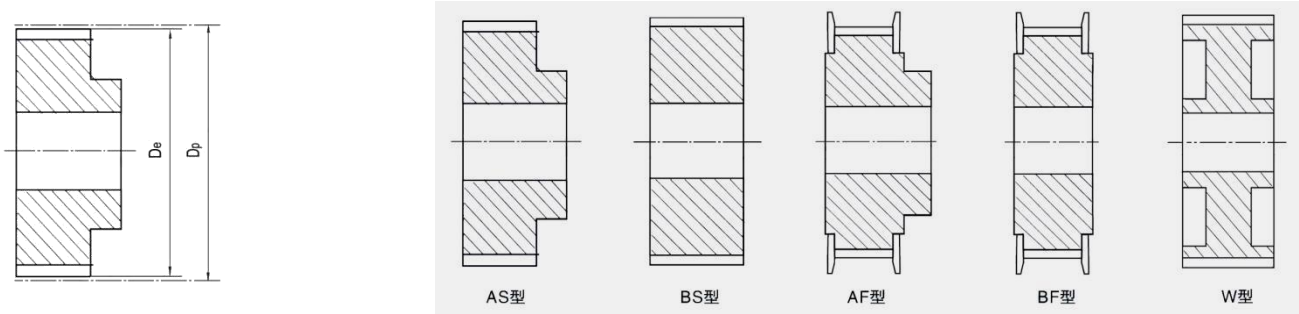
Flexibility & Minimum Pulley Diameters

Application		Timing pulley Flat idler pulley	Steel cord	Kevlar cord
	Non-reverse bending	Pulley teeth Z_{min}	10	10
		Flat idler on belt teeth d_{min} [mm]	30	30
	Reverse bending	Pulley teeth Z_{min}	15	15
		Flat idler on belt back d_{min} [mm]	30	30

Technical Characteristics

- Operating temperature between -20°C to +80°C (up to 110°C for short-term)
- Nylon fiber coating on teeth as standard
- Hardness Shore A 92
- Standard color is black. White color is available on request
- Galvanized carbon steel cord with S/Z twist direction
- High tensile strength; teeth deliver enhanced torque transmission
- Resistance to aging, UV and ozone; resistant to grease, weak acids and weak alkalis

XL Timing Pulley



XL timing pulley

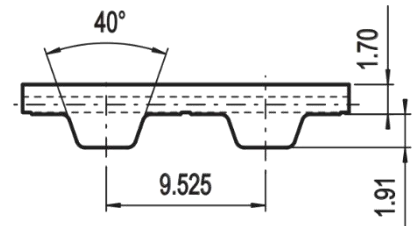
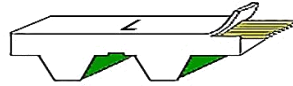
Z	Dp	De	Z	Dp	De	Z	Dp	De
10	16.17	15.66	33	53.36	52.85	56	90.55	90.04
11	17.79	17.28	34	54.98	54.47	57	92.17	91.66
12	19.40	18.89	35	56.60	56.09	58	93.79	93.28
13	21.02	20.51	36	58.21	57.70	59	95.40	94.89
14	22.64	22.13	37	59.83	59.32	60	97.02	96.51
15	24.25	23.74	38	61.45	60.94	61	98.64	98.13
16	25.87	25.36	39	63.06	62.55	62	100.25	99.74
17	27.49	26.98	40	64.68	64.17	63	101.87	101.36
18	29.11	28.60	41	66.30	65.79	64	103.49	102.98
19	30.72	30.21	42	67.91	67.40	65	105.11	104.60
20	32.34	31.83	43	69.53	69.02	66	106.72	106.21
21	33.96	33.45	44	71.15	70.64	67	108.34	107.83
22	35.57	35.06	45	72.77	72.26	68	109.96	109.45
23	37.19	36.68	46	74.38	73.87	69	111.57	111.06
24	38.81	38.30	47	76.00	75.49	70	113.19	112.68
25	40.43	39.92	48	77.62	77.11	71	114.81	114.30
26	42.04	41.53	49	79.23	78.72	72	116.43	115.92
27	43.66	43.15	50	80.85	80.34	73	118.04	117.53
28	45.28	44.77	51	82.47	81.96	74	119.66	119.15
29	46.89	46.38	52	84.08	83.57	75	121.28	120.77
30	48.51	48.00	53	85.70	85.19	76	122.89	122.38
31	50.13	49.62	54	87.32	86.81	77	124.51	124.00
32	51.74	51.23	55	88.93	88.42	78	126.13	125.62



L Open-end belt M / Spliced belt V

Parameter characteristics

- Imperial pitch 3/8"(9.525mm)
- Steel and Kevlar cord are available
- Trapezoidal tooth profile according to DIN/ISO5296 standard
- Suitable for medium torque drive applications
- Conveying, linear drives and medium power transmission



Tolerances range

- Width tolerance: ± 0.5 [mm]
- Length tolerance: ± 0.5 [mm/m]
- Thickness tolerance: ± 0.2 [mm]

Technical parameters

Width [inch] [mm]	050 [12.7]	075 [19.1]	100 [25.4]	150 [38.1]	200 [50.8]	400 [101.6]	600 [152.4]
Allowable load Open-end M-Type [N]	1190	1810	2600	3940	5000	10000	14850
Allowable load Spliced V-Type [N]	595	905	1300	1970	2500	5000	7425
Breaking load [N]	4100	6620	9200	14700	19000	39200	78200
Weight [kg/m]	0.05	0.074	0.10	0.148	0.20	0.40	0.60

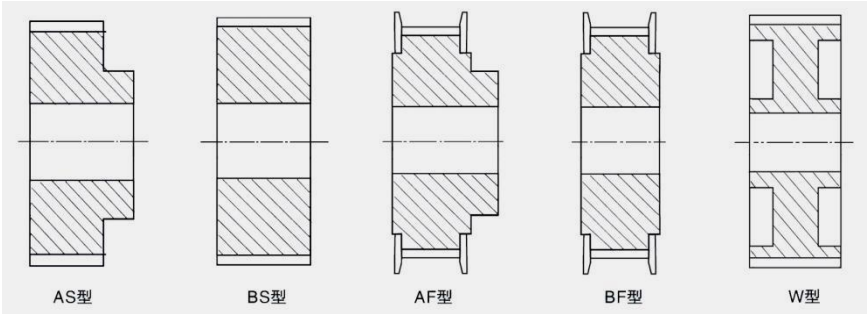
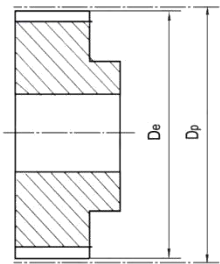
Flexibility & Minimum Pulley Diameters

Application		Timing pulley Flat idler pulley	Steel cord	Kevlar cord
	Non-reverse bending	Pulley teeth Z_{min}	15	15
		Flat idler on belt teeth d_{min} [mm]	60	60
	Reverse bending	Pulley teeth Z_{min}	20	20
		Flat idler on belt back d_{min} [mm]	60	60

Technical Characteristics

- Operating temperature between -20°C to +80°C (up to 110°C for short-term)
- Nylon fiber coating on teeth as standard
- Hardness Shore A 92
- Standard color is black. White color is available on request
- Galvanized carbon steel cord with S/Z twist direction
- High tensile strength; teeth deliver enhanced torque transmission
- Resistance to aging, UV and ozone; resistant to grease, weak acids and weak alkalis

L Timing pulley Timing Pulley



L timing pulley

Z	Dp	De
10	30.32	29.56
11	33.35	32.59
12	36.38	35.62
13	39.41	38.65
14	42.44	41.68
15	45.47	44.71
16	48.50	47.74
17	51.53	50.77
18	54.56	53.80
19	57.61	56.83
20	60.64	59.88
21	63.67	62.91
22	66.70	65.94
23	69.73	68.97
24	72.76	72.00
25	75.80	75.03
26	78.83	78.06
27	81.86	81.09
28	84.89	84.12
29	87.92	87.15
30	90.95	90.20
31	93.98	93.23
32	97.01	96.26

Z	Dp	De
33	100.04	99.29
34	103.07	102.32
35	106.12	105.35
36	109.15	108.38
37	112.18	111.41
38	115.21	114.44
39	118.24	117.47
40	121.27	120.52
41	124.30	123.55
42	127.33	126.58
43	130.36	129.61
44	133.39	132.64
45	136.44	135.67
46	139.47	138.70
47	142.50	141.73
48	145.53	144.76
49	148.56	147.80
50	151.59	150.83
51	154.62	153.86
52	157.65	156.89
53	160.68	159.92
54	163.71	162.95
55	166.76	166.00

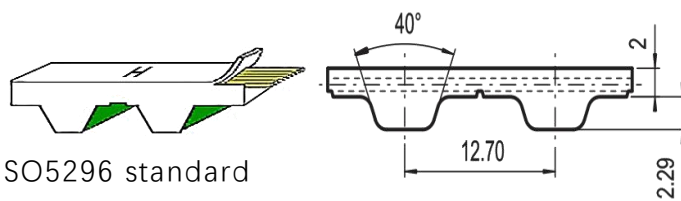
Z	Dp	De
56	169.79	169.03
57	172.82	172.06
58	175.85	175.09
59	178.88	178.12
60	181.91	181.15
61	184.94	184.18
62	187.97	187.21
63	191.00	190.24
64	194.03	193.27
65	197.06	196.30
66	200.11	199.33
67	203.14	202.38
68	206.17	205.41
69	209.20	208.44
70	212.23	211.47
71	215.26	214.50
72	218.29	217.53
73	221.32	220.56
74	224.35	223.59
75	227.38	226.62
76	230.41	229.65
77	233.46	232.70
78	236.49	235.73



H Open-end belt M / Spliced belt V

Parameter characteristics

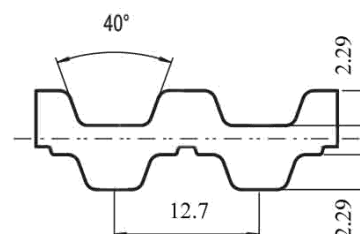
- Imperial pitch 1/2"(12.7mm)
- Steel and Kevlar cord are available
- Trapezoidal tooth profile according to DIN/ISO5296 standard
- Suitable for medium torque drive applications
- Conveying, linear drives and medium power transmission



Tolerances range

- Width tolerance: ± 0.5 [mm]
- Length tolerance: ± 0.5 [mm/m]
- Thickness tolerance: ± 0.2 [mm]

Double-sided
tooth DAT10



Technical parameters

Width [inch] [mm]	050 [12.7]	075 [19.1]	100 [25.4]	150 [38.1]	200 [50.8]	400 [101.6]	600 [152.4]
Allowable load Open-end M-Type [N]	1250	1920	2730	4100	5620	11250	16850
Allowable load Spliced V-Type [N]	625	960	1365	2050	2810	5625	8425
Breaking load [N]	4600	7120	10000	15100	20400	41400	62200
Weight [kg/m]	0.05	0.08	0.11	0.16	0.22	0.44	0.66

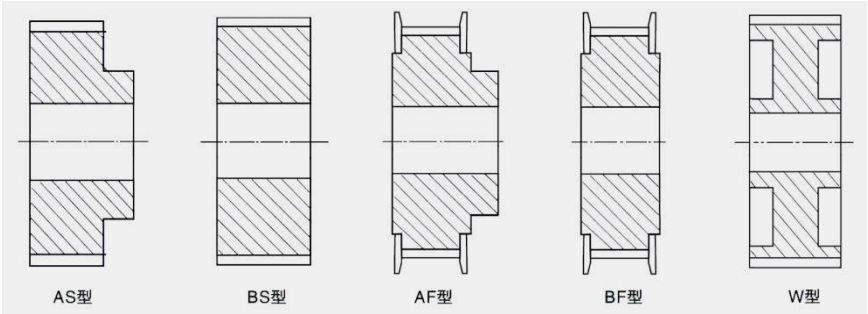
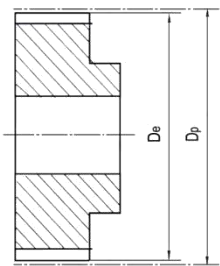
Flexibility & Minimum Pulley Diameters

Application		Timing pulley Flat idler pulley	Steel cord	Kevlar cord
	Non-reverse bending	Pulley teeth Z_{min}	14	14
		Flat idler on belt teeth d_{min} [mm]	60	60
	Reverse bending	Pulley teeth Z_{min}	20	20
		Flat idler on belt back d_{min} [mm]	80	80

Technical Characteristics

- Operating temperature between -20°C to +80°C (up to 110°C for short-term)
- Nylon fiber coating on teeth as standard
- Hardness Shore A 92
- Standard color is black. White color is available on request
- Galvanized carbon steel cord with S/Z twist direction
- High tensile strength; teeth deliver enhanced torque transmission
- Resistance to aging, UV and ozone; resistant to grease, weak acids and weak alkalis

H Timing Pulley



H timing pulley

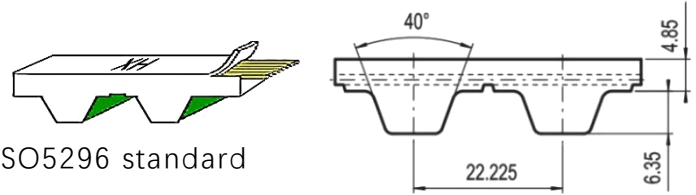
Z	Dp	De	Z	Dp	De	Z	Dp	De
14	56.60	55.23	37	149.56	148.20	60	242.55	241.18
15	60.64	59.27	38	153.62	152.24	61	246.59	245.22
16	64.68	63.31	39	157.66	156.28	62	250.63	249.26
17	68.72	67.35	40	161.70	160.32	63	254.67	253.30
18	72.76	71.40	41	165.74	164.36	64	258.71	257.34
19	76.80	75.44	42	169.78	168.42	65	262.75	261.38
20	80.84	79.48	43	173.82	172.46	66	266.81	265.44
21	84.88	83.52	44	177.86	176.50	67	270.85	269.48
22	88.94	87.57	45	181.90	180.54	68	274.89	273.52
23	92.98	91.61	46	185.96	184.58	69	278.93	277.56
24	97.02	95.65	47	190.00	188.62	70	282.97	281.60
25	101.06	99.69	48	194.04	192.67	71	287.01	285.64
26	105.10	103.73	49	198.08	196.71	72	291.05	289.68
27	109.14	107.77	50	202.13	200.75	73	295.10	293.72
28	113.18	111.81	51	206.17	204.80	74	299.14	297.78
29	117.22	115.85	52	210.21	208.84	75	303.18	301.82
30	121.28	119.91	53	214.25	212.88	76	307.22	305.86
31	125.32	123.95	54	218.29	216.92	77	311.26	309.90
32	129.36	127.99	55	222.33	220.96	78	315.32	313.94
33	133.40	132.03	56	226.37	225.00	79	319.36	317.98
34	137.44	136.07	57	230.41	229.04	80	323.40	322.02
35	141.48	140.11	58	234.47	233.10	81	327.44	326.06
36	145.52	144.15	59	238.51	237.14	82	331.48	330.12



XH Open-end belt M / Spliced belt V Open-end /Welded PU Timing

Parameter characteristics

- Imperial pitch 7/8"(22.225mm)
- Steel cord as standard
- Trapezoidal tooth profile according to DIN/ISO5296 standard
- Suitable for high torque drive applications
- Conveying, linear drives and high power transmission



Tolerances range

- Width tolerance: ± 1.0 [mm]
- Length tolerance: ± 0.8 [mm/m]
- Thickness tolerance: ± 0.5 [mm]

Technical parameters

Width [inch] [mm]	100 [25.4]	200 [50.8]	300 [76.2]	400 [101.6]	600 [152.4]
Allowable load Open-end M-Type [N]	3900	8300	12710	17050	25680
Allowable load Spliced V-Type [N]	1950	4150	6350	8525	12840
Breaking load [N]	15120	32100	49380	66400	100000
Weight [kg/m]	0.27	0.55	0.82	1.10	1.60

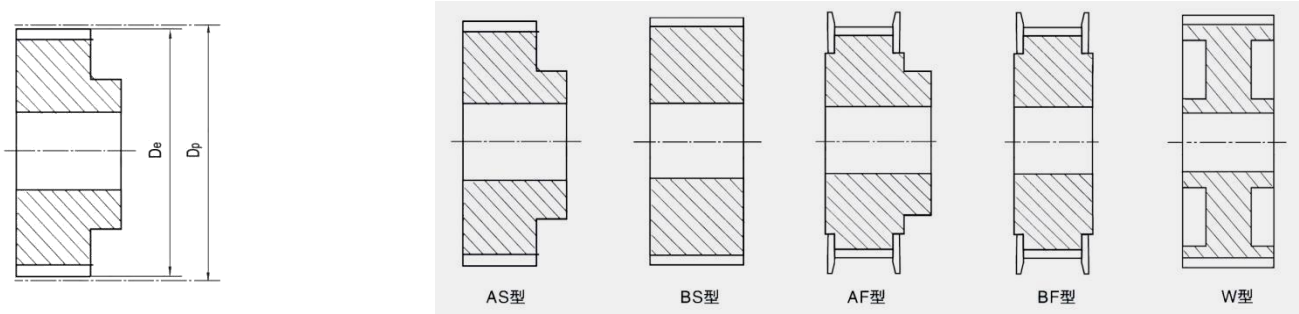
Flexibility & Minimum Pulley Diameters

Application		Timing pulley Flat idler pulley	Steel cord
	Non-reverse bending	Pulley teeth Z_{min}	18
		Flat idler on belt teeth d_{min} [mm]	150
	Reverse bending	Pulley teeth Z_{min}	20
		Flat idler on belt back d_{min} [mm]	180

Technical Characteristics

- Operating temperature between -20°C to $+80^{\circ}\text{C}$ (up to 110°C for short-term)
- Nylon fiber coating on teeth as standard
- Hardness Shore A 92
- Standard color is black. White color is available on request
- Galvanized carbon steel cord with S/Z twist direction
- High tensile strength; teeth deliver enhanced torque transmission
- Resistance to aging, UV and ozone; resistant to grease, weak acids and weak alkalis

XH Timing Pulley



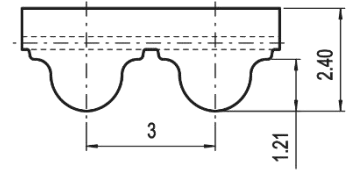
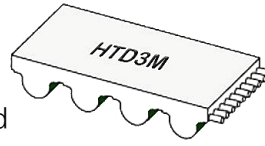
XH timing pulley

Z	Dp	De	Z	Dp	De	Z	Dp	De
18	127.34	124.55	41	290.05	287.25	64	452.75	449.97
19	134.41	131.62	42	297.12	294.33	65	459.84	457.05
20	141.48	138.68	43	304.19	301.40	66	466.91	464.10
21	148.55	145.76	44	311.26	308.47	67	473.98	471.20
22	155.64	152.84	45	318.35	315.54	68	481.05	478.25
23	162.71	159.91	46	325.42	322.61	69	488.12	485.32
24	169.78	167.00	47	332.49	329.70	70	495.21	492.39
25	176.85	174.07	48	339.57	336.77	71	502.28	499.48
26	183.94	181.13	49	346.66	343.87	72	509.35	506.57
27	191.01	188.20	50	353.73	350.93	73	516.42	513.63
28	198.08	195.27	51	360.80	358.00	74	523.51	520.70
29	205.15	202.37	52	367.87	365.07	75	530.58	527.77
30	212.22	209.44	53	374.94	372.14	76	537.65	534.84
31	219.31	216.51	54	382.01	379.21	77	544.72	541.93
32	226.38	223.58	55	389.08	386.30	78	551.79	549.00
33	233.45	230.66	56	396.17	393.37	79	558.88	556.07
34	240.52	237.73	57	403.24	400.44	80	565.95	563.15
35	247.59	244.80	58	410.31	407.51	81	573.02	570.22
36	254.68	251.87	59	417.38	414.58	82	580.09	577.29
37	261.75	258.94	60	424.47	421.68	83	587.18	584.36
38	268.82	266.02	61	431.54	428.75	84	594.25	591.43
39	275.89	273.11	62	438.61	435.90	85	601.32	598.60
40	282.98	280.18	63	445.68	442.90	86	608.39	605.61



HTD3M Open-end belt M / Spliced belt V Open-end /Welded PU**Parameter characteristics**

- Metric pitch 3mm
- Steel cord as standard
- Tooth profile according to ISO13050 standard
- Suitable for low torque drive applications
- Conveying, linear drives and low power transmission

**Tolerances range**

- Width tolerance: ± 0.5 [mm]
- Length tolerance: ± 0.5 [mm/m]
- Thickness tolerance: ± 0.2 [mm]

Technical parameters

Width [mm]	10	15	25	50	100
Allowable load Open-end M-Type [N]	310	500	900	1820	3700
Allowable load Spliced V-Type [N]	155	250	450	910	1850
Breaking load [N]	1250	2000	3490	7200	14500
Weight [kg/m]	0.02	0.03	0.052	0.104	0.208

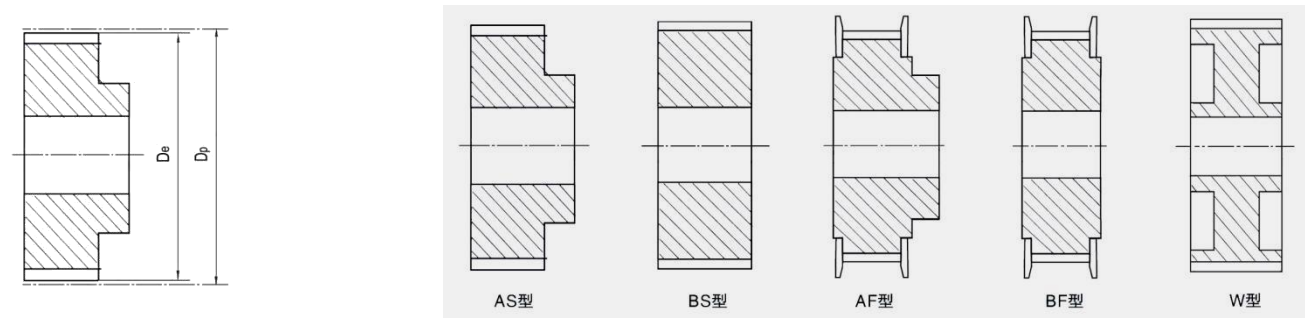
Flexibility & Minimum Pulley Diameters

Application		Timing pulley Flat idler pulley	Steel cord
	Non-reverse bending	Pulley teeth $Z_{\min}$	20
		Flat idler on belt teeth $d_{\min}$ [mm]	30
	Reverse bending	Pulley teeth $Z_{\min}$	20
		Flat idler on belt back $d_{\min}$ [mm]	30

Technical Characteristics

- Operating temperature between -20°C to $+80^{\circ}\text{C}$ (up to 110°C for short-term)
- Nylon fiber coating on teeth as standard
- Hardness Shore A 92
- Standard color is black. White color is available on request
- Galvanized carbon steel cord with S/Z twist direction
- High tensile strength; teeth deliver enhanced torque transmission
- Resistance to aging, UV and ozone; resistant to grease, weak acids and weak alkalis

HTD3M Timing Pulley



HTD3M timing pulley

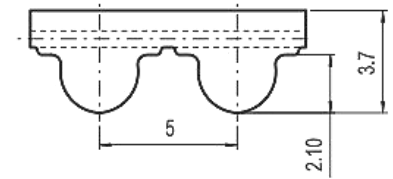
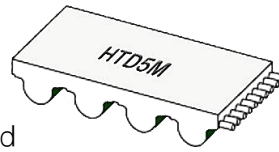
Z	Dp	De	Z	Dp	De	Z	Dp	De	Z	Dp	De
10	9.55	8.79	33	31.51	30.75	56	53.48	52.72	79	75.44	74.68
11	10.50	9.74	34	32.47	31.71	57	54.43	53.67	80	76.40	75.64
12	11.46	10.70	35	33.42	32.66	58	55.39	54.63	81	77.35	76.59
13	12.41	11.65	36	34.38	33.62	59	56.34	55.58	82	78.31	77.55
14	13.37	12.61	37	35.33	34.57	60	57.30	56.54	83	79.26	78.50
15	14.32	13.56	38	36.29	35.53	61	58.25	57.49	84	80.22	79.46
16	15.28	14.52	39	37.24	36.48	62	59.21	58.45	85	81.17	80.41
17	16.23	15.47	40	38.20	37.44	63	60.16	59.40	86	82.13	81.37
18	17.19	16.43	41	39.15	38.39	64	61.12	60.36	87	83.08	82.32
19	18.14	17.38	42	40.11	39.35	65	62.07	61.31	88	84.04	83.28
20	19.10	18.34	43	41.06	40.30	66	63.03	62.27	89	84.99	84.23
21	20.05	19.29	44	42.02	41.26	67	63.98	63.22	90	85.95	85.19
22	21.01	20.25	45	42.97	42.21	68	64.94	64.18	91	86.90	86.14
23	21.96	21.20	46	43.93	43.17	69	65.89	65.13	92	87.86	87.10
24	22.92	22.16	47	44.88	44.12	70	66.85	66.09	93	88.81	88.05
25	23.87	23.11	48	45.84	45.08	71	67.80	67.04	94	89.77	89.01
26	24.83	24.07	49	46.79	46.03	72	68.76	68.00	95	90.72	89.96
27	25.78	25.02	50	47.75	46.99	73	69.71	68.95	96	91.68	90.92
28	26.74	25.98	51	48.70	47.94	74	70.67	69.91	97	92.63	91.87
29	27.69	26.93	52	49.66	48.90	75	71.62	70.86	98	93.59	92.83
30	28.65	27.89	53	50.61	49.85	76	72.58	71.82	99	94.54	93.78
31	29.60	28.84	54	51.57	50.81	77	73.53	72.77	100	95.50	94.74
32	30.56	29.80	55	52.52	51.76	78	74.49	73.73	101	96.45	95.69



HTD5M-DHTD5M Open-end belt M / Spliced belt V

Parameter characteristics

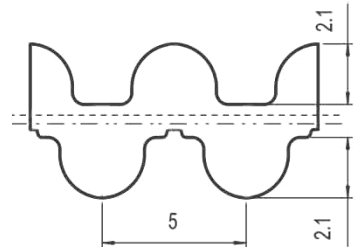
- Metric pitch 5mm
- Steel and Kevlar cord are available
- Tooth profile according to ISO13050 standard
- Suitable for medium torque drive applications
- Linear drives and medium power transmission



Tolerances range

- Width tolerance: ± 0.5 [mm]
- Length tolerance: ± 0.5 [mm/m]
- Thickness tolerance: ± 0.2 [mm]

Double-sided tooth DHTD5M



Technical parameters

Width [mm]	10	15	25	50	100
Allowable load Open-end M-Type [N]	900	1500	2630	5500	11080
Allowable load Spliced V-Type [N]	450	750	1315	2750	5540
Breaking load [N]	3340	5420	9610	20000	40500
Weight [kg/m]	0.05	0.07	0.13	0.24	0.48

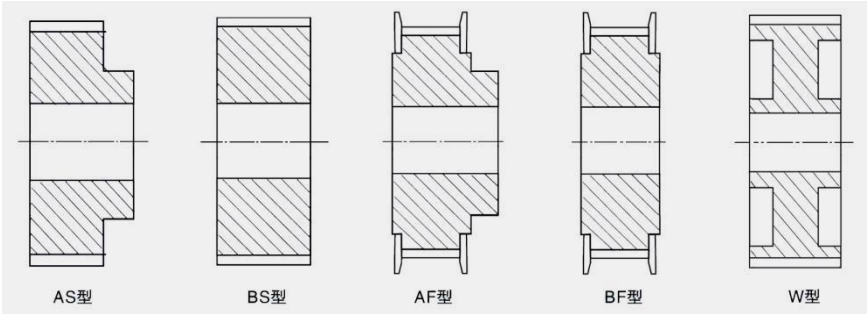
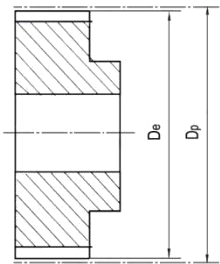
Flexibility & Minimum Pulley Diameters

Application		Timing pulley Flat idler pulley	Steel cord	Kevlar cord
	Non-reverse bending	Pulley teeth Z_{min}	15	15
		Flat idler on belt teeth d_{min} [mm]	30	30
	Reverse bending	Pulley teeth Z_{min}	25	25
		Flat idler on belt back d_{min} [mm]	60	60

Technical Characteristics

- Operating temperature between -20°C to $+80^{\circ}\text{C}$ (up to 110°C for short-term)
- Nylon fiber coating on teeth as standard
- Hardness Shore A 92
- Standard color is black. White color is available on request
- Galvanized carbon steel cord with S/Z twist direction
- High tensile strength; teeth deliver enhanced torque transmission
- Resistance to aging, UV and ozone; resistant to grease, weak acids and weak alkalis

HTD5M Timing Pulley



HTD5M timing pulley

Number of teeth Z	Pitch circle Dp	Outside diameter De
10	15.91	14.77
11	17.50	16.36
12	19.10	17.96
13	20.69	19.55
14	22.28	21.14
15	23.87	22.73
16	25.46	24.32
17	27.05	25.91
18	28.65	27.51
19	30.23	29.09
20	31.83	30.69
21	33.42	32.28
22	35.01	33.87
23	36.60	35.46
24	38.20	37.06
25	39.78	38.64
26	41.38	40.24
27	42.97	41.83
28	44.56	43.42
29	46.15	45.01
30	47.75	46.61
31	49.33	48.19
32	50.93	49.79

Number of teeth Z	Pitch circle Dp	Outside diameter De
33	52.52	51.38
34	54.11	52.97
35	55.70	54.56
36	57.30	56.16
37	58.89	57.75
38	60.48	59.34
39	62.07	60.93
40	63.66	62.52
41	65.25	64.11
42	66.84	65.70
43	68.43	67.29
44	70.02	68.88
45	71.61	70.47
46	73.20	72.06
47	74.79	73.65
48	76.38	75.24
49	77.98	76.84
50	79.58	78.44
51	81.17	80.03
52	82.76	81.62
53	84.35	83.21
54	85.94	84.80
55	87.53	86.39

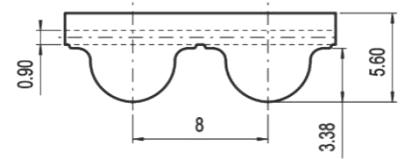
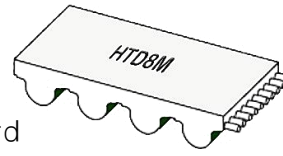
Number of teeth Z	Pitch circle Dp	Outside diameter De
56	89.12	87.98
F	90.71	89.57
58	92.31	91.17
59	93.90	92.76
60	95.49	94.35
61	97.08	95.94
62	98.67	97.53
63	100.26	99.12
64	101.86	100.72
65	103.45	102.31
66	105.04	103.90
67	106.63	105.49
68	108.22	107.08
69	109.81	108.67
70	111.41	110.27
71	113.00	111.86
72	114.59	113.45
73	116.18	115.04
74	117.77	116.63
75	119.36	118.22
76	120.95	119.81
77	122.54	121.40
78	124.13	122.99



HTD8M-DHTD8M Open-end belt M / Spliced belt V

Parameter characteristics

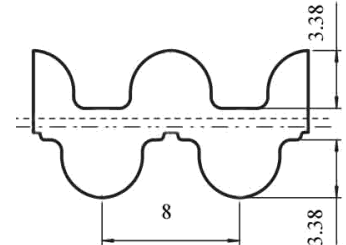
- Metric pitch 8mm
- Steel and Kevlar cord are available
- Tooth profile according to ISO13050 standard
- Suitable for medium torque drive applications
- Conveying, linear drives and medium power transmission



Tolerances range

- Width tolerance: ± 0.5 [mm]
- Length tolerance: ± 0.5 [mm/m]
- Thickness tolerance: ± 0.2 [mm]

Double-sided tooth DHTD8M



Technical parameters

Width [mm]	10	15	20	30	50	85	100	150
Allowable load Open-end M-Type [N]	1450	2200	3150	4900	8510	14600	17300	25800
Allowable load Spliced V-Type [N]	725	1100	1575	2450	4255	7300	8650	12900
Breaking load [N]	5680	8540	12210	18920	33100	57000	67320	99500
Weight [kg/m]	0.07	0.11	0.14	0.20	0.36	0.58	0.70	1.07

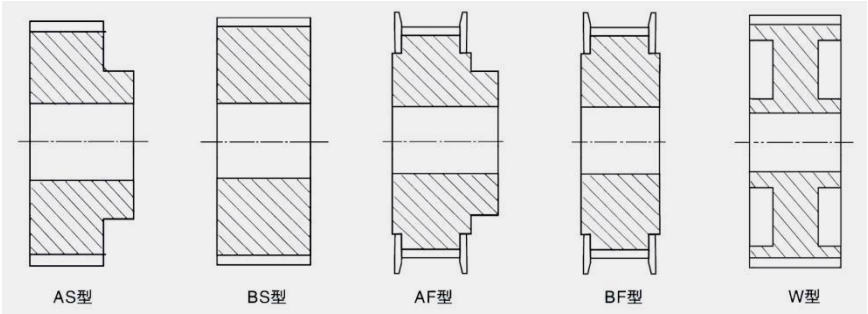
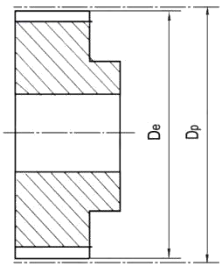
Flexibility & Minimum Pulley Diameters

Application		Timing pulley Flat idler pulley	Steel cord	Kevlar cord
	Non-reverse bending	Pulley teeth Z_{min}	18	18
		Flat idler on belt teeth d_{min} [mm]	50	50
	Reverse bending	Pulley teeth Z_{min}	30	30
		Flat idler on belt back d_{min} [mm]	120	120

Technical Characteristics

- Operating temperature between -20°C to $+80^{\circ}\text{C}$ (up to 110°C for short-term)
- Nylon fiber coating on teeth as standard
- Hardness Shore A 92
- Standard color is black. White color is available on request
- Galvanized carbon steel cord with S/Z twist direction
- High tensile strength; teeth deliver enhanced torque transmission
- Resistance to aging, UV and ozone; resistant to grease, weak acids and weak alkalis

HTD8M Timing Pulley



HTD8M timing pulley

Z	Dp	De
18	45.83	44.46
19	48.38	47.01
20	50.93	49.56
21	53.47	52.10
22	56.02	54.65
23	58.57	57.20
24	61.12	59.75
25	63.66	62.29
26	66.21	64.84
27	68.75	67.38
28	71.30	70.08
29	73.84	72.59
30	76.39	75.13
31	78.94	77.65
32	81.49	80.16
33	84.03	82.68
34	86.58	85.21
35	89.12	87.76
36	91.67	90.30
37	94.22	92.85
38	96.77	95.40
39	99.31	97.94
40	101.86	100.49

Z	Dp	De
41	104.40	103.04
42	106.95	105.58
43	109.50	108.13
44	112.05	110.68
45	114.59	113.22
46	117.14	115.77
47	119.68	118.31
48	122.23	120.86
49	124.77	123.40
50	127.32	125.95
51	129.87	128.50
52	132.41	131.05
53	134.96	133.59
54	137.51	136.14
55	140.05	138.68
56	142.60	141.23
57	145.15	143.78
58	147.69	146.32
59	150.24	148.87
60	152.79	151.42
61	155.33	153.96
62	157.89	156.52
63	160.43	159.06

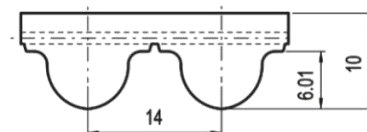
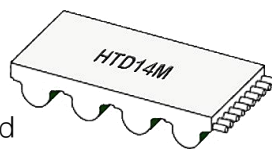
Z	Dp	De
64	162.97	161.60
65	165.52	164.15
66	168.06	166.69
67	170.61	169.24
68	173.16	171.79
69	175.70	174.33
70	178.25	176.88
71	180.80	179.43
72	183.35	181.98
73	185.89	184.52
74	188.44	187.07
75	190.98	189.61
76	193.53	192.16
77	196.08	194.71
78	198.62	197.25
79	201.17	199.80
80	203.72	202.35
81	206.26	204.89
82	208.81	207.44
83	211.35	209.98
84	213.90	212.53
85	216.45	215.08
86	219.00	217.63



HTD14M Open-end belt M / Spliced belt V

Parameter characteristics

- Metric pitch 14mm
- Steel cord as standard
- Tooth profile according to ISO13050 standard
- Suitable for high torque drive applications
- Conveying, linear drives and high power transmission



Tolerances range

- Width tolerance: ± 1.0 [mm]
- Length tolerance: ± 0.8 [mm/m]
- Thickness tolerance: ± 0.4 [mm]

Technical parameters

Width [mm]	25	40	55	85	115	150
Allowable load Open-end M-Type [N]	5200	9080	12200	19600	26700	35000
Allowable load Spliced V-Type [N]	2600	4540	6100	9800	13350	17500
Breaking load [N]	19000	33080	45000	71190	97880	125000
Weight [kg/m]	0.30	0.45	0.62	0.95	1.32	1.70

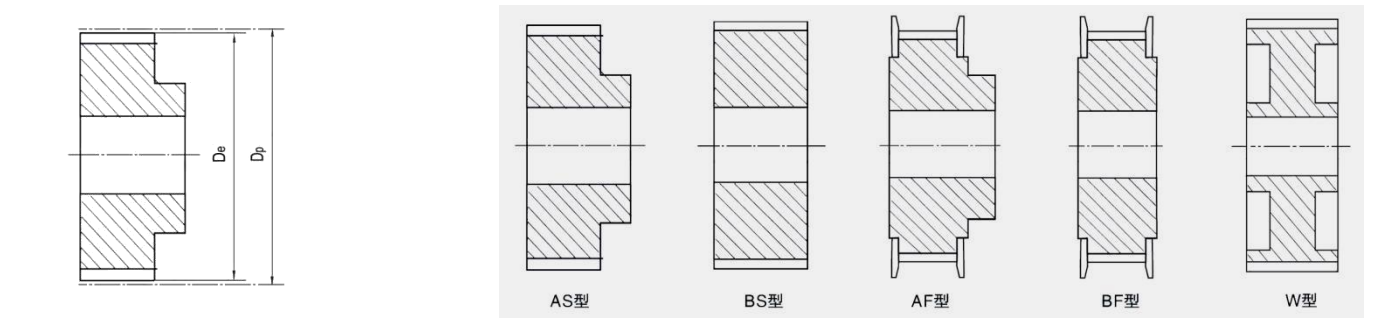
Flexibility & Minimum Pulley Diameters

Application		Timing pulley Flat idler pulley	Steel cord
	Non-reverse bending	Pulley teeth Z_{min}	28
		Flat idler on belt teeth d_{min} [mm]	120
	Reverse bending	Pulley teeth Z_{min}	28
		Flat idler on belt back d_{min} [mm]	180

Technical Characteristics

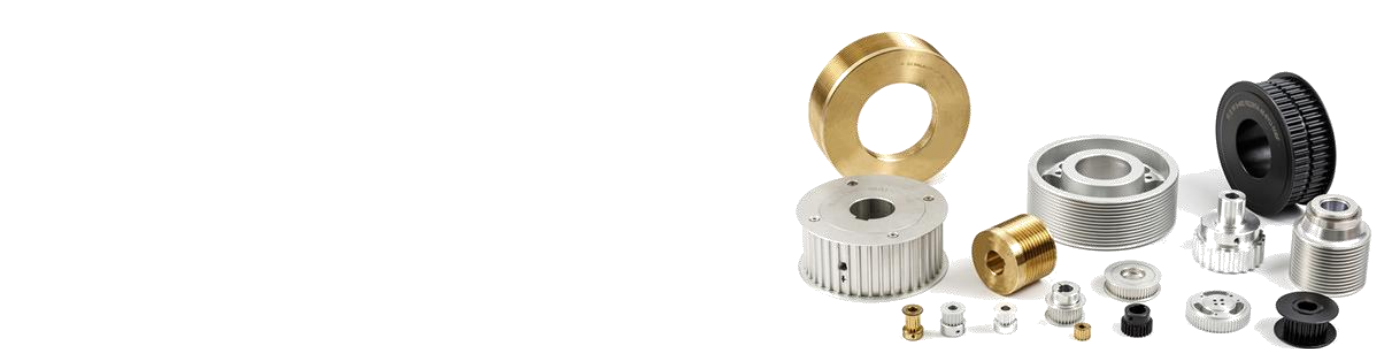
- Operating temperature between -20°C to $+80^{\circ}\text{C}$ (up to 110°C for short-term)
- Nylon fiber coating on teeth as standard
- Hardness Shore A 92
- Standard color is black. White color is available on request
- Galvanized carbon steel cord with S/Z twist direction
- High tensile strength; teeth deliver enhanced torque transmission
- Resistance to aging, UV and ozone; resistant to grease, weak acids and weak alkalis

HTD14M Timing Pulley



HTD14M timing pulley

Z	Dp	De	Z	Dp	De	Z	Dp	De
28	124.77	122.12	51	227.27	224.49	74	329.77	326.98
29	129.22	126.58	52	231.72	228.95	75	334.22	331.44
30	133.69	130.99	53	236.18	233.39	76	338.67	335.90
31	138.14	135.45	54	240.64	237.85	77	343.12	340.34
32	142.59	139.88	55	245.09	242.30	78	347.59	344.80
33	147.06	144.35	56	249.55	246.76	79	352.04	349.26
34	151.51	148.79	57	254.01	251.22	80	356.49	353.72
35	155.96	153.25	58	258.46	255.68	81	360.96	358.17
36	160.41	157.68	59	262.91	260.14	82	365.41	362.63
37	164.88	162.14	60	267.38	264.60	83	369.86	367.09
38	169.34	166.60	61	271.83	269.04	84	374.33	371.54
39	173.79	171.02	62	276.28	273.50	85	378.78	376.00
40	178.24	175.48	63	280.75	277.96	86	383.23	380.46
41	182.71	179.92	64	285.20	282.42	87	387.70	384.91
42	187.16	184.37	65	289.65	286.88	88	392.15	389.37
43	191.61	188.83	66	294.11	291.32	89	396.60	393.83
44	196.08	193.29	67	298.56	295.78	90	401.07	398.29
45	200.53	197.75	68	303.03	300.24	91	405.52	402.73
46	204.98	202.21	69	307.48	304.70	92	409.97	407.19
47	209.43	206.65	70	311.93	309.16	93	414.44	411.65
48	213.90	211.11	71	316.40	313.61	94	418.89	416.10
49	218.35	215.57	72	320.85	318.07	95	423.35	420.56
50	222.80	220.03	73	325.30	322.53	96	427.80	425.02

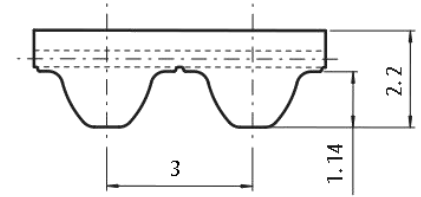
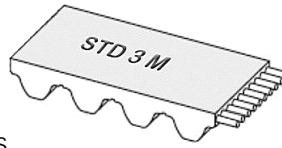


STD3M Open-end belt M / Spliced belt V

Parameter characteristics

Parameter characteristics

- Metric pitch 3mm
- Steel cord as standard
- Suitable for low torque drive applications
- Linear drives and low power transmission



Tolerances range

- Width tolerance: ± 0.5 [mm]
- Length tolerance: ± 0.5 [mm/m]
- Thickness tolerance: ± 0.2 [mm]

Technical parameters

Width [mm]	10	15	25	50	100
Allowable load Open-end M-Type [N]	310	500	900	1820	3700
Allowable load Spliced V-Type [N]	155	250	450	910	1850
Breaking load [N]	1250	2000	3490	7200	14500
Weight [kg/m]	0.02	0.03	0.05	0.10	0.19

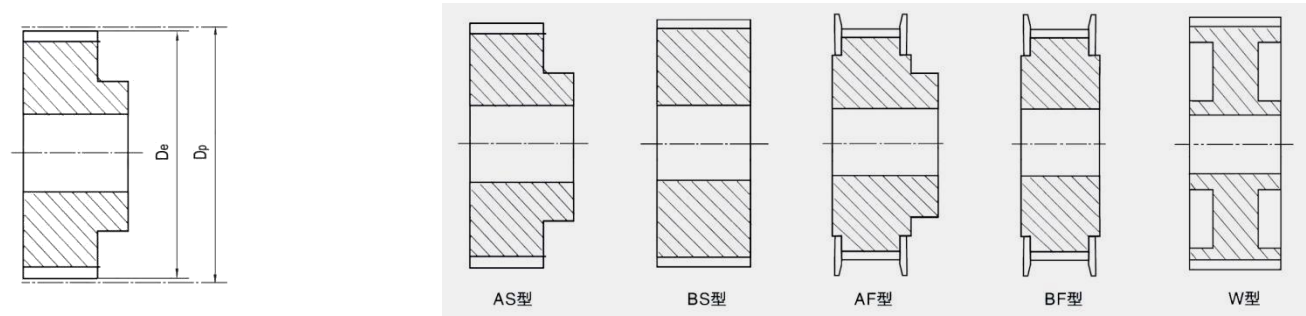
Flexibility & Minimum Pulley Diameters

Application		Timing pulley Flat idler pulley	Steel cord
	Non-reverse bending	Pulley teeth $Z_{\min}$	20
		Flat idler on belt teeth $d_{\min}$ [mm]	30
	Reverse bending	Pulley teeth $Z_{\min}$	20
		Flat idler on belt back $d_{\min}$ [mm]	30

Technical Characteristics

- Operating temperature between -20°C to $+80^{\circ}\text{C}$ (up to 110°C for short-term)
- Nylon fiber coating on teeth as standard
- Hardness Shore A 92
- Standard color is black. White color is available on request
- Galvanized carbon steel cord with S/Z twist direction
- High tensile strength; teeth deliver enhanced torque transmission
- Resistance to aging, UV and ozone; resistant to grease, weak acids and weak alkalis

STD3M Timing Pulley



STD3M timing pulley

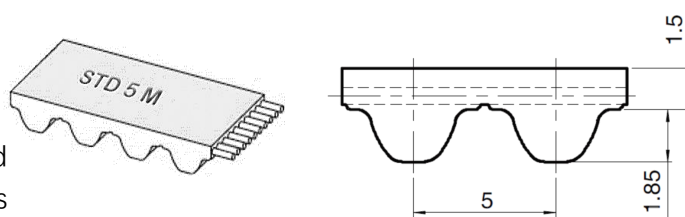
Z	Dp	De	Z	Dp	De	Z	Dp	De	Z	Dp	De
10	9.55	8.79	33	31.51	30.75	56	53.48	52.72	79	75.44	74.68
11	10.50	9.74	34	32.47	31.71	57	54.43	53.67	80	76.40	75.64
12	11.46	10.70	35	33.42	32.66	58	55.39	54.63	81	77.35	76.59
13	12.41	11.65	36	34.38	33.62	59	56.34	55.58	82	78.31	77.55
14	13.37	12.61	37	35.33	34.57	60	57.30	56.54	83	79.26	78.50
15	14.32	13.56	38	36.29	35.53	61	58.25	57.49	84	80.22	79.46
16	15.28	14.52	39	37.24	36.48	62	59.21	58.45	85	81.17	80.41
17	16.23	15.47	40	38.20	37.44	63	60.16	59.40	86	82.13	81.37
18	17.19	16.43	41	39.15	38.39	64	61.12	60.36	87	83.08	82.32
19	18.14	17.38	42	40.11	39.35	65	62.07	61.31	88	84.04	83.28
20	19.10	18.34	43	41.06	40.30	66	63.03	62.27	89	84.99	84.23
21	20.05	19.29	44	42.02	41.26	67	63.98	63.22	90	85.95	85.19
22	21.01	20.25	45	42.97	42.21	68	64.94	64.18	91	86.90	86.14
23	21.96	21.20	46	43.93	43.17	69	65.89	65.13	92	87.86	87.10
24	22.92	22.16	47	44.88	44.12	70	66.85	66.09	93	88.81	88.05
25	23.87	23.11	48	45.84	45.08	71	67.80	67.04	94	89.77	89.01
26	24.83	24.07	49	46.79	46.03	72	68.76	68.00	95	90.72	89.96
27	25.78	25.02	50	47.75	46.99	73	69.71	68.95	96	91.68	90.92
28	26.74	25.98	51	48.70	47.94	74	70.67	69.91	97	92.63	91.87
29	27.69	26.93	52	49.66	48.90	75	71.62	70.86	98	93.59	92.83
30	28.65	27.89	53	50.61	49.85	76	72.58	71.82	99	94.54	93.78
31	29.60	28.84	54	51.57	50.81	77	73.53	72.77	100	95.50	94.74
32	30.56	29.80	55	52.52	51.76	78	74.49	73.73	101	96.45	95.69



STD5M Open-end belt M / Spliced belt V

Parameter characteristics

- Metric pitch 5mm
- Steel and Kevlar cord are available
- Tooth profile according to ISO13050 standard
- Suitable for medium torque drive applications
- Linear drives and medium power transmission



Tolerances range

- Width tolerance: ± 0.5 [mm]
- Length tolerance: ± 0.5 [mm/m]
- Thickness tolerance: ± 0.2 [mm]

Technical parameters

Width [mm]	10	15	25	50	100
Allowable load Open-end M-Type [N]	900	1500	2630	5500	11080
Allowable load Spliced V-Type [N]	450	750	1315	2750	5540
Breaking load [N]	3340	5420	9610	20000	40500
Weight [kg/m]	0.05	0.07	0.13	0.23	0.47

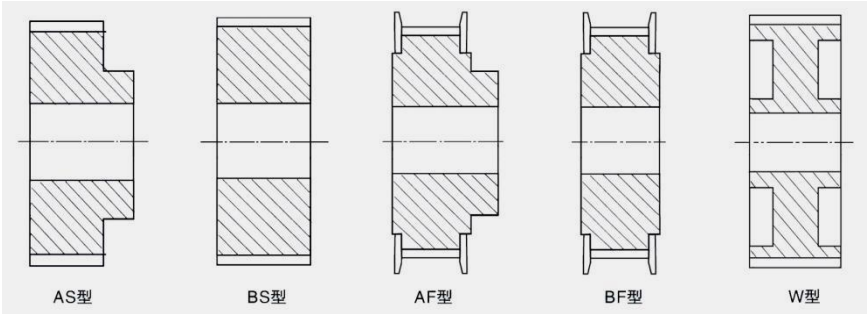
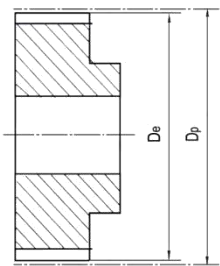
Flexibility & Minimum Pulley Diameters

Application		Timing pulley Flat idler pulley	Steel cord	Kevlar cord
	Non-reverse bending	Pulley teeth Z_{min}	16	16
		Flat idler on belt teeth d_{min} [mm]	30	30
	Reverse bending	Pulley teeth Z_{min}	25	25
		Flat idler on belt back d_{min} [mm]	60	60

Technical Characteristics

- Operating temperature between -20°C to $+80^{\circ}\text{C}$ (up to 110°C for short-term)
- Nylon fiber coating on teeth as standard
- Hardness Shore A 92
- Standard color is black. White color is available on request
- Galvanized carbon steel cord with S/Z twist direction
- High tensile strength; teeth deliver enhanced torque transmission
- Resistance to aging, UV and ozone; resistant to grease, weak acids and weak alkalis

STD5M Timing Pulley



STD5M timing pulley

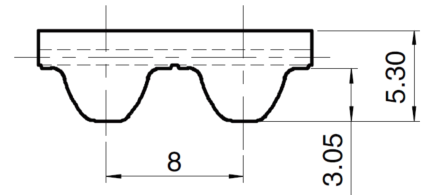
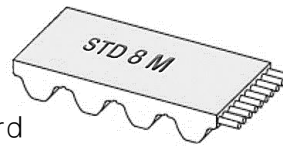
Z	Dp	De	Z	Dp	De	Z	Dp	De
10	15.91	14.95	33	52.52	51.56	56	89.13	88.17
11	17.50	16.54	34	54.11	53.15	57	90.72	89.76
12	19.10	18.14	35	55.71	54.75	58	92.31	91.35
13	20.69	19.73	36	57.30	56.34	59	93.90	92.94
14	22.28	21.32	37	58.89	57.93	60	95.49	94.53
15	23.87	22.91	38	60.48	59.52	61	97.09	96.13
16	25.47	24.51	39	62.07	61.11	62	98.68	97.72
17	27.06	26.10	40	63.66	62.70	63	100.27	99.31
18	28.65	27.69	41	65.26	64.30	64	101.86	100.90
19	30.23	29.27	42	66.85	65.89	65	103.45	102.49
20	31.83	30.87	43	68.44	67.48	66	105.04	104.08
21	33.42	32.46	44	70.03	69.07	67	106.63	105.67
22	35.01	34.05	45	71.62	70.66	68	108.23	107.27
23	36.61	35.65	46	73.21	72.25	69	109.82	108.86
24	38.19	37.23	47	74.80	73.84	70	111.41	110.45
25	39.79	38.83	48	76.39	75.43	71	113.00	112.04
26	41.38	40.42	49	77.99	77.03	72	114.59	113.63
27	42.97	42.01	50	79.58	78.62	73	116.19	115.23
28	44.56	43.60	51	81.17	80.21	74	117.78	116.82
29	46.15	45.19	52	82.76	81.80	75	119.37	118.41
30	47.75	46.79	53	84.35	83.39	76	120.96	120.00
31	49.34	48.38	54	85.95	84.99	77	122.55	121.59
32	50.93	49.97	55	87.54	86.58	78	124.14	123.18



STD8M Open-end belt M / Spliced belt V

Parameter characteristics

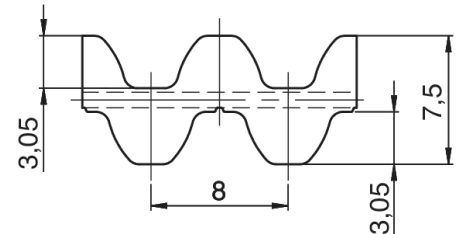
- Metric pitch 8mm
- Steel and Kevlar cord are available
- Tooth profile according to ISO13050 standard
- Suitable for medium torque drive applications
- Conveying, linear drives and medium power transmission



Tolerances range

- Width tolerance: ± 0.5 [mm]
- Length tolerance: ± 0.5 [mm/m]
- Thickness tolerance: ± 0.2 [mm]

Double-sided tooth DSTD8M



Technical parameters

Width [mm]	10	15	20	30	50	85	100
Allowable load Open-end M-Type [N]	1450	2200	3150	4600	8510	14600	17300
Allowable load Spliced V-Type [N]	725	1100	1575	2450	4255	7300	8650
Breaking load [N]	5680	8540	12210	18920	33100	57000	67320
Weight [kg/m]	0.07	0.11	0.14	0.20	0.34	0.56	0.68

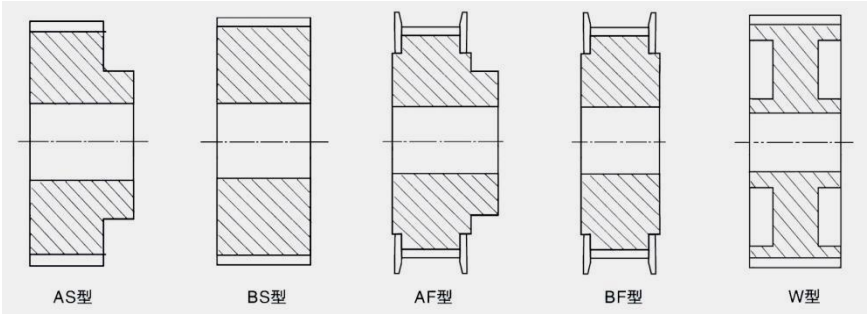
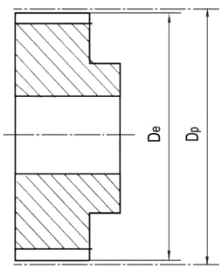
Flexibility & Minimum Pulley Diameters

Application		Timing pulley Flat idler pulley	Steel cord	Kevlar cord
	Non-reverse bending	Pulley teeth $Z_{\min}$	18	18
		Flat idler on belt teeth $d_{\min}$ [mm]	50	50
	Reverse bending	Pulley teeth $Z_{\min}$	30	30
		Flat idler on belt back $d_{\min}$ [mm]	120	120

Technical Characteristics

- Operating temperature between -20°C to $+80^{\circ}\text{C}$ (up to 110°C for short-term)
- Nylon fiber coating on teeth as standard
- Hardness Shore A 92
- Standard color is black. White color is available on request
- Galvanized carbon steel cord with S/Z twist direction
- High tensile strength; teeth deliver enhanced torque transmission
- Resistance to aging, UV and ozone; resistant to grease, weak acids and weak alkalis

STD8M Timing Pulley



STD8M timing pulley

Z	Dp	De
18	45,83	44,46
19	48,38	47,01
20	50,93	49,56
21	53,47	52,10
22	56,02	54,65
23	58,57	57,20
24	61,12	59,75
25	63,66	62,29
26	66,21	64,84
27	68,75	67,38
28	71,30	70,08
29	73,84	72,59
30	76,39	75,13
31	78,94	77,65
32	81,49	80,16
33	84,03	82,68
34	86,58	85,21
35	89,12	87,76
36	91,67	90,30
37	94,22	92,85
38	96,77	95,40
39	99,31	97,94
40	101,86	100,49

Z	Dp	De
41	104,40	103,04
42	106,95	105,58
43	109,50	108,13
44	112,05	110,68
45	114,59	113,22
46	117,14	115,77
47	119,68	118,31
48	122,23	120,86
49	124,77	123,40
50	127,32	125,95
51	129,87	128,50
52	132,41	131,05
53	134,96	133,59
54	137,51	136,14
55	140,05	138,68
56	142,60	141,23
57	145,15	143,78
58	147,69	146,32
59	150,24	148,87
60	152,79	151,42
61	155,33	153,96
62	157,89	156,52
63	160,43	159,06

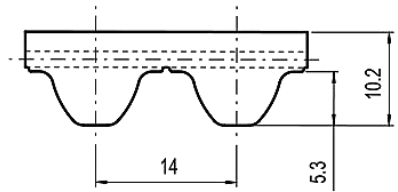
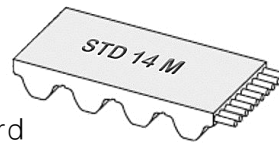
Z	Dp	De
64	162,97	161,60
65	165,52	164,15
66	168,06	166,69
67	170,61	169,24
68	173,16	171,79
69	175,70	174,33
70	178,25	176,88
71	180,8	179,43
72	183,35	181,98
73	185,89	184,52
74	188,44	187,07
75	190,98	189,61
76	193,53	192,16
77	196,08	194,71
78	198,62	197,25
79	201,17	199,80
80	203,72	202,35
81	206,26	204,89
82	208,81	207,44
83	211,35	209,98
84	213,90	212,53
85	216,45	215,08
86	219,00	217,63



STD14M Open-end belt M / Spliced belt V

Parameter characteristics

- Metric pitch 14mm
- Steel cord as standard
- Tooth profile according to ISO13050 standard
- Suitable for high torque drive applications
- Conveying, linear drives and high power transmission



Tolerances range

- Width tolerance: ± 1.0 [mm]
- Length tolerance: ± 0.8 [mm/m]
- Thickness tolerance: ± 0.5 [mm]

Technical parameters

Width [mm]	40	55	85	115
Allowable load Open-end M-Type [N]	12000	17000	27500	36000
Allowable load Spliced V-Type [N]	6000	8500	13750	18000
Breaking load [N]	47800	67000	104200	141000
Weight [kg/m]	0.53	0.66	1.11	1.42

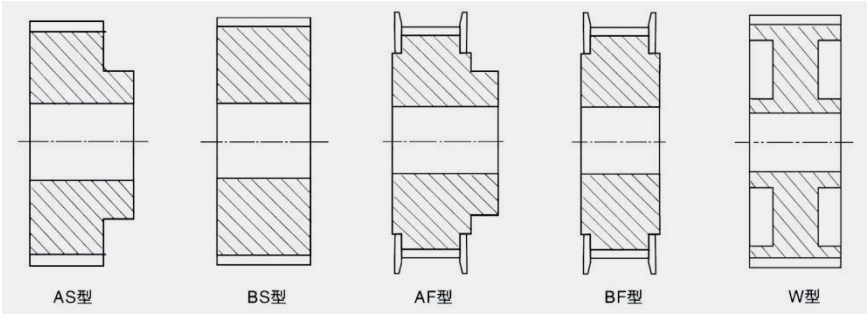
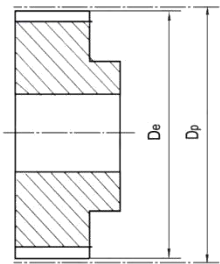
Flexibility & Minimum Pulley Diameters

Application		Timing pulley Flat idler pulley	Steel cord
	Non-reverse bending	Pulley teeth $Z_{\min}$	32
		Flat idler on belt teeth $d_{\min}$ [mm]	140
	Reverse bending	Pulley teeth $Z_{\min}$	32
		Flat idler on belt back $d_{\min}$ [mm]	250

Technical Characteristics

- Operating temperature between -20°C to $+80^{\circ}\text{C}$ (up to 110°C for short-term)
- Nylon fiber coating on teeth as standard
- Hardness Shore A 92
- Standard color is black. White color is available on request
- Galvanized carbon steel cord with S/Z twist direction
- High tensile strength; teeth deliver enhanced torque transmission
- Resistance to aging, UV and ozone; resistant to grease, weak acids and weak alkalis

STD14M Timing Pulley



STD14M timing pulley

Z	Dp	De
28	124,77	122,12
29	129,22	126,58
30	133,69	130,99
31	138,14	135,45
32	142,59	139,88
33	147,06	144,35
34	151,51	148,79
35	155,96	153,25
36	160,41	157,68
37	164,88	162,14
38	169,34	166,60
39	173,79	171,02
40	178,24	175,48
41	182,71	179,92
42	187,16	184,37
43	191,61	188,83
44	196,08	193,29
45	200,53	197,75
46	204,98	202,21
47	209,43	206,65
48	213,90	211,11
49	218,35	215,57
50	222,80	220,03

Z	Dp	De
51	227,27	224,49
52	231,72	228,95
53	236,18	233,39
54	240,64	237,85
55	245,09	242,30
56	249,55	246,76
57	254,01	251,22
58	258,46	255,68
59	262,91	260,14
60	267,38	264,60
61	271,83	269,04
62	276,28	273,50
63	280,75	277,96
64	285,20	282,42
65	289,65	286,88
66	294,11	291,32
67	298,56	295,78
68	303,03	300,24
69	307,48	304,70
70	311,93	309,16
71	316,40	313,61
72	320,85	318,07
73	325,30	322,53

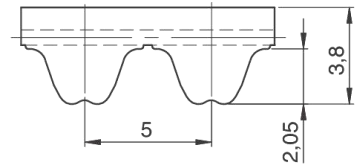
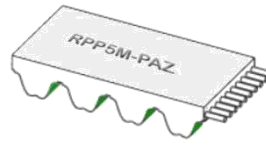
Z	Dp	De
74	329,77	326,98
75	334,22	331,44
76	338,67	335,90
77	343,12	340,34
78	347,59	344,80
79	352,04	349,26
80	356,49	353,72
81	360,96	358,17
82	365,41	362,63
83	369,86	367,09
84	374,33	371,54
85	378,78	376,00
86	383,23	380,46
88	392,15	389,37
89	396,60	393,83
90	401,07	398,29
91	405,52	402,73
92	409,97	407,19
93	414,44	411,65
94	418,89	416,10
95	423,35	420,56
96	427,80	425,02
97	432,25	429,48



RPP5M Open-end belt M / Spliced belt V

Parameter characteristics

- Metric pitch 5mm
- Steel cord as standard
- Tooth profile according to ISO13050 standard
- Standard tooth fabric coating, smooth at high speed, low noise
- Suitable for high torque drive applications
- Linear drives and medium power transmission



Tolerances range

- Width tolerance: ± 0.5 [mm]
- Length tolerance: ± 0.5 [mm/m]
- Thickness tolerance: ± 0.2 [mm]

Technical parameters

Width [mm]	10	15	25	30	50	100
Allowable load Open-end M-Type [N]	900	1500	2630	3200	5500	11080
Allowable load Spliced V-Type [N]	450	750	1315	1600	2750	5540
Breaking load [N]	3340	5420	9610	11500	20000	40500
Weight [kg/m]	0.05	0.07	0.13	0.15	0.26	0.49

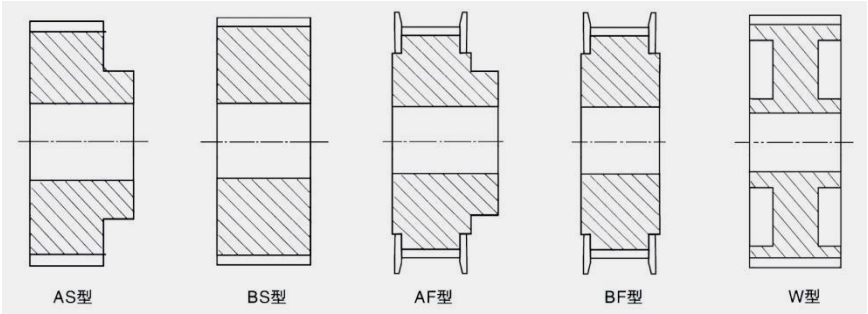
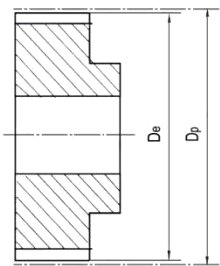
Flexibility & Minimum Pulley Diameters

Application		Timing pulley Flat idler pulley	Steel cord	Kevlar cord
	Non-reverse bending	Pulley teeth $Z_{\min}$	16	16
		Flat idler on belt teeth $d_{\min}$ [mm]	30	30
	Reverse bending	Pulley teeth $Z_{\min}$	25	25
		Flat idler on belt back $d_{\min}$ [mm]	60	60

Technical Characteristics

- Operating temperature between -20°C to $+80^{\circ}\text{C}$ (up to 110°C for short-term)
- Nylon fiber coating on teeth as standard
- Hardness Shore A 92
- Standard color is black. White color is available on request
- Galvanized carbon steel cord with S/Z twist direction
- High tensile strength; teeth deliver enhanced torque transmission
- Resistance to aging, UV and ozone; resistant to grease, weak acids and weak alkalis

RPP5M Timing Pulley



RPP5M timing pulley

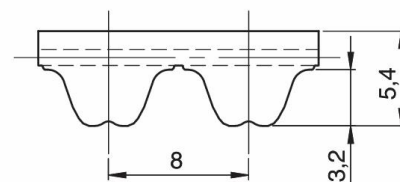
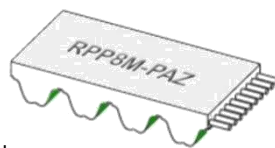
Z	Dp	De	Z	Dp	De	Z	Dp	De
10	15.91	14.77	33	52.52	51.38	56	89.12	87.98
11	17.50	16.36	34	54.11	52.97	57	90.71	89.57
12	19.10	17.96	35	55.70	54.56	58	92.31	91.17
13	20.69	19.55	36	57.30	56.16	59	93.90	92.76
14	22.28	21.14	37	58.89	57.75	60	95.49	94.35
15	23.87	22.73	38	60.48	59.34	61	97.08	95.94
16	25.46	24.32	39	62.07	60.93	62	98.67	97.53
17	27.05	25.91	40	63.66	62.52	63	100.26	99.12
18	28.65	27.51	41	65.25	64.11	64	101.86	100.72
19	30.23	29.09	42	66.84	65.70	65	103.45	102.31
20	31.83	30.69	43	68.43	67.29	66	105.04	103.90
21	33.42	32.28	44	70.02	68.88	67	106.63	105.49
22	35.01	33.87	45	71.61	70.47	68	108.22	107.08
23	36.60	35.46	46	73.20	72.06	69	109.81	108.67
24	38.20	37.06	47	74.79	73.65	70	111.41	110.27
25	39.78	38.64	48	76.38	75.24	71	113.00	111.86
26	41.38	40.24	49	77.98	76.84	72	114.59	113.45
27	42.97	41.83	50	79.58	78.44	73	116.18	115.04
28	44.56	43.42	51	81.17	80.03	74	117.77	116.63
29	46.15	45.01	52	82.76	81.62	75	119.36	118.22
30	47.75	46.61	53	84.35	83.21	76	120.95	119.81
31	49.33	48.19	54	85.94	84.80	77	122.54	121.40
32	50.93	49.79	55	87.53	86.39	78	124.13	122.99



RPP8M Open-end belt M / Spliced belt V

Parameter characteristics

- Metric pitch 8mm
- Steel cord as standard
- Tooth profile according to ISO13050 standard
- Standard tooth fabric coating, smooth at high speed, low noise
- Suitable for high torque drive applications
- Linear drives and medium power transmission



Tolerances range

- Width tolerance: ± 0.5 [mm]
- Length tolerance: ± 0.5 [mm/m]
- Thickness tolerance: ± 0.2 [mm]

Technical parameters

Width [mm]	10	15	20	30	50	85	100
Allowable load Open-end M-Type [N]	1450	2200	3150	4900	8510	14600	17300
Allowable load Spliced V-Type [N]	725	1100	1575	2450	4255	7300	8650
Breaking load [N]	5680	8540	12210	18920	33100	57000	67320
Weight [kg/m]	0.07	0.11	0.14	0.20	0.36	0.61	0.77

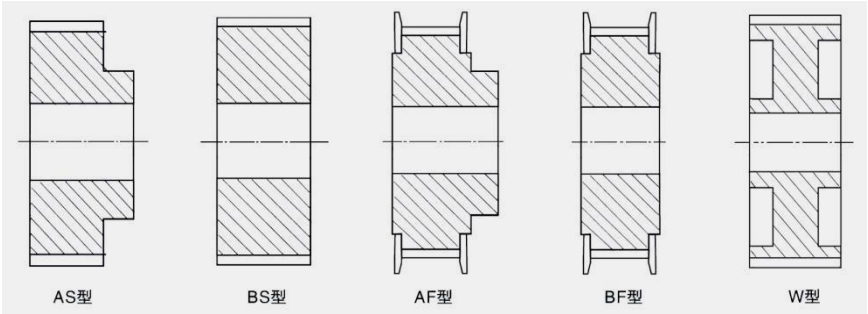
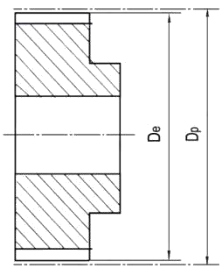
Flexibility & Minimum Pulley Diameters

Application		Timing pulley Flat idler pulley	Steel cord	Kevlar cord
	Non-reverse bending	Pulley teeth Z_{min}	18	18
		Flat idler on belt teeth d_{min} [mm]	50	50
	Reverse bending	Pulley teeth Z_{min}	30	30
		Flat idler on belt back d_{min} [mm]	120	120

Technical Characteristics

- Operating temperature between -20°C to $+80^{\circ}\text{C}$ (up to 110°C for short-term)
- Nylon fiber coating on teeth as standard
- Hardness Shore A 92
- Standard color is black. White color is available on request
- Galvanized carbon steel cord with S/Z twist direction
- High tensile strength; teeth deliver enhanced torque transmission
- Resistance to aging, UV and ozone; resistant to grease, weak acids and weak alkalis

RPP8M Timing Pulley



RPP8M timing pulley

Z	Dp	De
18	45.83	44.46
19	48.38	47.01
20	50.93	49.56
21	53.47	52.10
22	56.02	54.65
23	58.57	57.20
24	61.12	59.75
25	63.66	62.29
26	66.21	64.84
27	68.75	67.38
28	71.30	70.08
29	73.84	72.59
30	76.39	75.13
31	78.94	77.65
32	81.49	80.16
33	84.03	82.68
34	86.58	85.21
35	89.12	87.76
36	91.67	90.30
37	94.22	92.85
38	96.77	95.40
39	99.31	97.94
40	101.86	100.49

Z	Dp	De
41	104.40	103.04
42	106.95	105.58
43	109.50	108.13
44	112.05	110.68
45	114.59	113.22
46	117.14	115.77
47	119.68	118.31
48	122.23	120.86
49	124.77	123.40
50	127.32	125.95
51	129.87	128.50
52	132.41	131.05
53	134.96	133.59
54	137.51	136.14
55	140.05	138.68
56	142.60	141.23
57	145.15	143.78
58	147.69	146.32
59	150.24	148.87
60	152.79	151.42
61	155.33	153.96
62	157.89	156.52
63	160.43	159.06

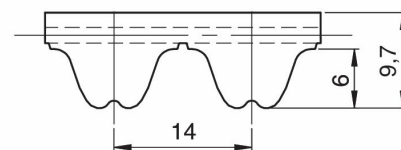
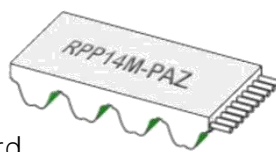
Z	Dp	De
64	162.97	161.60
65	165.52	164.15
66	168.06	166.69
67	170.61	169.24
68	173.16	171.79
69	175.70	174.33
70	178.25	176.88
71	180.80	179.43
72	183.35	181.98
73	185.89	184.52
74	188.44	187.07
75	190.98	189.61
76	193.53	192.16
77	196.08	194.71
78	198.62	197.25
79	201.17	199.80
80	203.72	202.35
81	206.26	204.89
82	208.81	207.44
83	211.35	209.98
84	213.90	212.53
85	216.45	215.08
86	219.00	217.63



RPP14M Open-end belt M / Spliced belt V

Parameter characteristics

- Metric pitch 14mm
- Steel cord as standard
- Tooth profile according to ISO13050 standard
- Standard tooth fabric coating, smooth at high speed, low noise
- Suitable for high torque drive applications
- Linear drives and medium power transmission



Tolerances range

- Width tolerance: ± 1.0 [mm]
- Length tolerance: ± 0.8 [mm/m]
- Thickness tolerance: ± 0.5 [mm]

Technical parameters

Width [mm]	40	55	85	115
Allowable load Open-end M-Type [N]	12000	17000	27500	36000
Allowable load Spliced V-Type [N]	6000	8500	13750	18000
Breaking load [N]	47800	67000	104200	141000
Weight [kg/m]	0.53	0.66	1.11	1.42

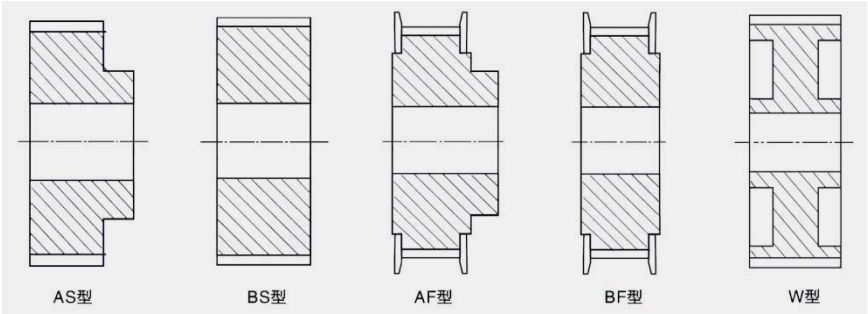
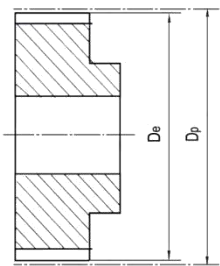
Flexibility & Minimum Pulley Diameters

Application		Timing pulley Flat idler pulley	Steel cord
	Non-reverse bending	Pulley teeth Z_{min}	30
		Flat idler on belt teeth d_{min} [mm]	140
	Reverse bending	Pulley teeth Z_{min}	32
		Flat idler on belt back d_{min} [mm]	200

Technical Characteristics

- Operating temperature between -20°C to $+80^{\circ}\text{C}$ (up to 110°C for short-term)
- Nylon fiber coating on teeth as standard
- Hardness Shore A 92
- Standard color is black. White color is available on request
- Galvanized carbon steel cord with S/Z twist direction
- High tensile strength; teeth deliver enhanced torque transmission
- Resistance to aging, UV and ozone; resistant to grease, weak acids and weak alkalis

RPP14M Timing Pulley



RPP14M timing pulley

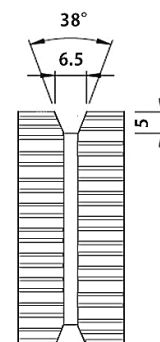
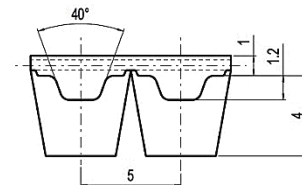
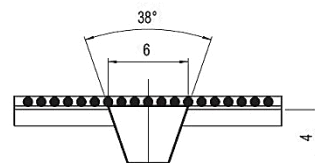
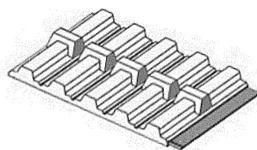
Z	Dp	De	Z	Dp	De	Z	Dp	De
28	124.77	122.12	51	227.27	224.49	74	329.77	326.98
29	129.22	126.58	52	231.72	228.95	75	334.22	331.44
30	133.69	130.99	53	236.18	233.39	76	338.67	335.90
31	138.14	135.45	54	240.64	237.85	77	343.12	340.34
32	142.59	139.88	55	245.09	242.30	78	347.59	344.80
33	147.06	144.35	56	249.55	246.76	79	352.04	349.26
34	151.51	148.79	57	254.01	251.22	80	356.49	353.72
35	155.96	153.25	58	258.46	255.68	81	360.96	358.17
36	160.41	157.68	59	262.91	260.14	82	365.41	362.63
37	164.88	162.14	60	267.38	264.60	83	369.86	367.09
38	169.34	166.60	61	271.83	269.04	84	374.33	371.54
39	173.79	171.02	62	276.28	273.50	85	378.78	376.00
40	178.24	175.48	63	280.75	277.96	86	383.23	380.46
41	182.71	179.92	64	285.20	282.42	87	387.70	384.91
42	187.16	184.37	65	289.65	286.88	88	392.15	389.37
43	191.61	188.83	66	294.11	291.32	89	396.60	393.83
44	196.08	193.29	67	298.56	295.78	90	401.07	398.29
45	200.53	197.75	68	303.03	300.24	91	405.52	402.73
46	204.98	202.21	69	307.48	304.70	92	409.97	407.19
47	209.43	206.65	70	311.93	309.16	93	414.44	411.65
48	213.90	211.11	71	316.40	313.61	94	418.89	416.10
49	218.35	215.57	72	320.85	318.07	95	423.35	420.56
50	222.80	220.03	73	325.30	322.53	96	427.80	425.02



TK5-K6 Open-end belt M / Spliced belt V

Parameter characteristics

- Profile T5 self tracking timing belt
- Guide dimensions: K6x4mm
- Steel cord as standard
- Providing self-centering and no pulley flange required
- Widely used in linear positioning and high-speed transmission



Tolerances range

- Width tolerance: ± 0.5 [mm]
- Length tolerance: ± 0.5 [mm/m]
- Thickness tolerance: ± 0.2 [mm]

Technical parameters

Width [mm]	25	32	50	75	100
Allowable load Open-end M-Type [N]	880	1100	1800	2800	3740
Allowable load Spliced V-Type [N]	440	550	900	1400	1870
Breaking load [N]	3450	4400	7200	10200	14260
Weight [kg/m]	0.065	0.085	0.132	0.210	0.27

Flexibility & Minimum Pulley Diameters

Application		Timing pulley Flat idler pulley	Steel cord
	Non-reverse bending	Pulley teeth Z_{min}	14
		Flat idler on belt teeth d_{min} [mm]	40
	Reverse bending	Pulley teeth Z_{min}	15
		Flat idler on belt back d_{min} [mm]	50

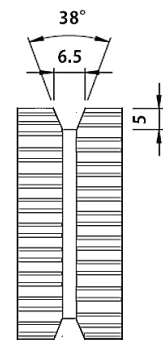
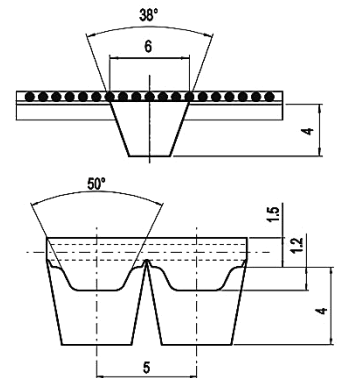
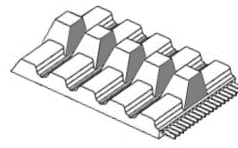
Technical Characteristics

- Operating temperature between -20°C to $+80^{\circ}\text{C}$ (up to 110°C for short-term)
- Nylon fiber coating on teeth as standard
- Hardness Shore A 92
- Standard color is black. White color is available on request
- Galvanized carbon steel cord with S/Z twist direction
- High tensile strength; teeth deliver enhanced torque transmission
- Resistance to aging, UV and ozone; resistant to grease, weak acids and weak alkalis

ATK5-K6 Open-end belt M / Spliced belt V

Parameter characteristics

- Profile AT5 self tracking timing belt
- Guide dimensions: K6x4mm
- Steel cord as standard
- Providing self-centering and no pulley flange required
- Widely used in linear positioning and high-speed transmission



Tolerances range

- Width tolerance: ± 0.5 [mm]
- Length tolerance: ± 0.5 [mm/m]
- Thickness tolerance: ± 0.2 [mm]

Technical parameters

Width [mm]	25	32	50	75	100
Allowable load Open-end M-Type [N]	2400	3420	5500	8380	11200
Allowable load Spliced V-Type [N]	1200	1710	2750	4190	5600
Breaking load [N]	10030	11290	20050	30000	41000
Weight [kg/m]	0.12	0.16	0.21	0.30	0.39

Flexibility & Minimum Pulley Diameters

Application		Timing pulley Flat idler pulley	Steel cord
	Non-reverse bending	Pulley teeth Z_{min}	25
		Flat idler on belt teeth d_{min} [mm]	60
	Reverse bending	Pulley teeth Z_{min}	25
		Flat idler on belt back d_{min} [mm]	80

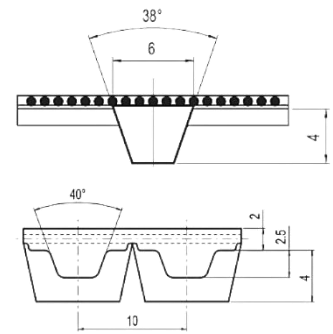
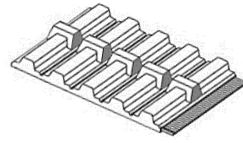
Technical Characteristics

- Operating temperature between -20°C to $+80^{\circ}\text{C}$ (up to 110°C for short-term)
- Nylon fiber coating on teeth as standard
- Hardness Shore A 92
- Standard color is black. White color is available on request
- Galvanized carbon steel cord with S/Z twist direction
- High tensile strength; teeth deliver enhanced torque transmission
- Resistance to aging, UV and ozone; resistant to grease, weak acids and weak alkalis

TK10-K6 Open-end belt M / Spliced belt V

Parameter characteristics

- Profile T10 self tracking timing belt
- Guide dimensions: K6x4mm
- Steel cord as standard
- Providing self-centering and no pulley flange required
- Widely used in linear positioning and high-speed transmission

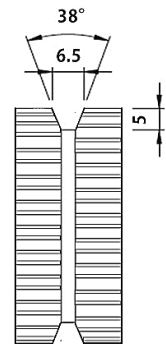


Tolerances range

- Width tolerance: ± 0.5 [mm]
- Length tolerance: ± 0.5 [mm/m]
- Thickness tolerance: ± 0.2 [mm]

Technical parameters

Width [mm]	25	32	50	75	100
Allowable load Open-end M-Type [N]	2620	3420	5500	8380	11200
Allowable load Spliced V-Type [N]	1310	1710	2750	4190	5600
Breaking load [N]	9500	11290	20050	30000	41000
Weight [kg/m]	0.11	0.15	0.23	0.35	0.46



Flexibility & Minimum Pulley Diameters

Application		Timing pulley Flat idler pulley	Steel cord	Kevlar cord
	Non-reverse bending	Pulley teeth Z_{min}	14	14
		Flat idler on belt teeth d_{min} [mm]	60	60
	Reverse bending	Pulley teeth Z_{min}	20	20
		Flat idler on belt back d_{min} [mm]	60	60

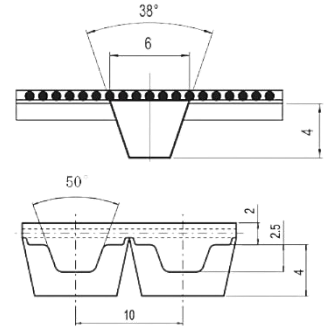
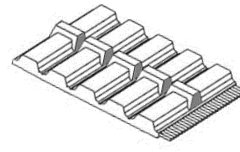
Technical Characteristics

- Operating temperature between -20°C to $+80^{\circ}\text{C}$ (up to 110°C for short-term)
- Nylon fiber coating on teeth as standard
- Hardness Shore A 92
- Standard color is black. White color is available on request
- Galvanized carbon steel cord with S/Z twist direction
- High tensile strength; teeth deliver enhanced torque transmission
- Resistance to aging, UV and ozone; resistant to grease, weak acids and weak alkalis

ATK10-K6 Open-end belt M / Spliced belt V

Parameter characteristics

- Profile AT10 self tracking timing belt
- Guide dimensions: K6x4mm
- Steel cord as standard
- Providing self-centering and no pulley flange required
- Widely used in linear positioning and high-speed transmission

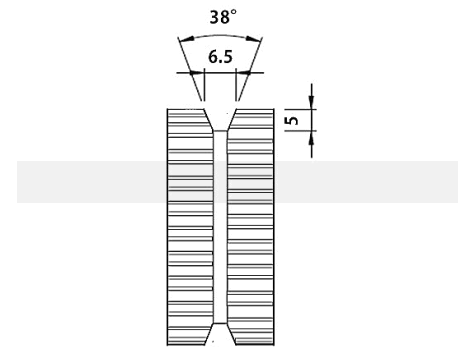


Tolerances range

- Width tolerance: ± 0.5 [mm]
- Length tolerance: ± 0.5 [mm/m]
- Thickness tolerance: ± 0.2 [mm]

Technical parameters

Width [mm]	25	32	50	75	100
Allowable load Open-end M-Type [N]	4100	5350	8500	12650	17350
Allowable load Spliced V-Type [N]	2050	2675	4250	6325	8675
Breaking load [N]	16000	20700	33200	50280	67400
Weight [kg/m]	0.19	0.275	0.37	0.52	0.73



Flexibility & Minimum Pulley Diameters

Application		Timing pulley Flat idler pulley	Steel cord
	Non-reverse bending	Pulley teeth Z_{min}	15
		Flat idler on belt teeth d_{min} [mm]	50
	Reverse bending	Pulley teeth Z_{min}	25
		Flat idler on belt back d_{min} [mm]	120

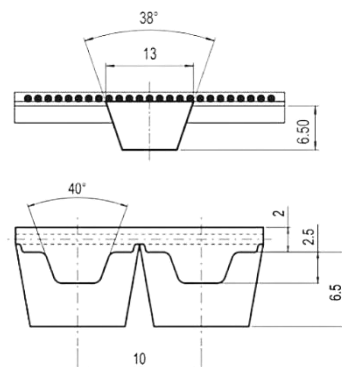
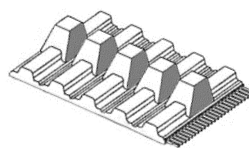
Technical Characteristics

- Operating temperature between -20°C to $+80^{\circ}\text{C}$ (up to 110°C for short-term)
- Nylon fiber coating on teeth as standard
- Hardness Shore A 92
- Standard color is black. White color is available on request
- Galvanized carbon steel cord with S/Z twist direction
- High tensile strength; teeth deliver enhanced torque transmission
- Resistance to aging, UV and ozone; resistant to grease, weak acids and weak alkalis

TK10-K13 Open-end belt M / Spliced belt V

Parameter characteristics

- Profile T10 self tracking timing belt
- Guide dimensions: K13x6.5mm
- Steel cord as standard
- Providing self-centering and no pulley flange required
- Widely used in linear positioning and high-speed transmission

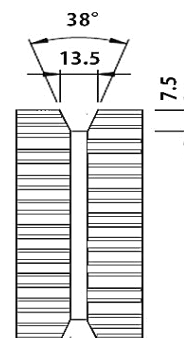


Tolerances range

- Width tolerance: ± 0.5 [mm]
- Length tolerance: ± 0.5 [mm/m]
- Thickness tolerance: ± 0.2 [mm]

Technical parameters

Width [mm]	25	32	50	75	100	150
Allowable load Open-end M-Type [N]	2620	3420	5500	8380	11200	17000
Allowable load Spliced V-Type [N]	1310	1710	2750	4190	5600	8500
Breaking load [N]	9500	11290	20050	30000	41000	62000
Weight [kg/m]	0.155	0.22	0.30	0.42	0.53	0.76



Flexibility & Minimum Pulley Diameters

Application		Timing pulley Flat idler pulley	Steel cord	Kevlar cord
	Non-reverse bending	Pulley teeth Z_{min}	16	16
		Flat idler on belt teeth d_{min} [mm]	80	80
	Reverse bending	Pulley teeth Z_{min}	20	20
		Flat idler on belt back d_{min} [mm]	60	60

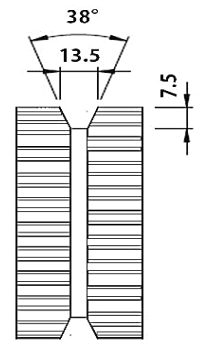
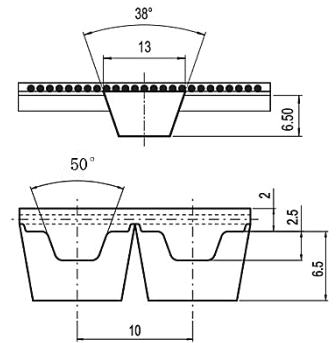
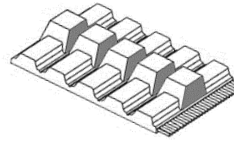
Technical Characteristics

- Operating temperature between -20°C to $+80^{\circ}\text{C}$ (up to 110°C for short-term)
- Nylon fiber coating on teeth as standard
- Hardness Shore A 92
- Standard color is black. White color is available on request
- Galvanized carbon steel cord with S/Z twist direction
- High tensile strength; teeth deliver enhanced torque transmission
- Resistance to aging, UV and ozone; resistant to grease, weak acids and weak alkalis

ATK10-K13 Open-end belt M / Spliced belt V

Parameter characteristics

- Profile AT10 self tracking timing belt
- Guide dimensions: K13x6.5mm
- Steel cord as standard
- Providing self-centering and no pulley flange required
- Widely used in linear positioning and high-speed transmission



Tolerances range

- Width tolerance: ± 0.5 [mm]
- Length tolerance: ± 0.5 [mm/m]
- Thickness tolerance: ± 0.2 [mm]

Technical parameters

Width [mm]	25	32	50	75	100
Allowable load Open-end M-Type [N]	4100	5350	8500	12650	17350
Allowable load Spliced V-Type [N]	2050	2675	4250	6325	8675
Breaking load [N]	16000	20700	33200	50280	67400
Weight [kg/m]	0.19	0.275	0.37	0.52	0.73

Flexibility & Minimum Pulley Diameters

Application		Timing pulley Flat idler pulley	Steel cord
	Non-reverse bending	Pulley teeth Z_{min}	17
		Flat idler on belt teeth d_{min} [mm]	50
	Reverse bending	Pulley teeth Z_{min}	25
		Flat idler on belt back d_{min} [mm]	120

Technical Characteristics

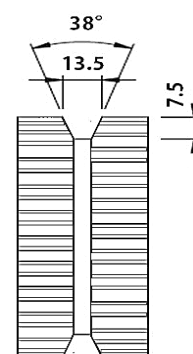
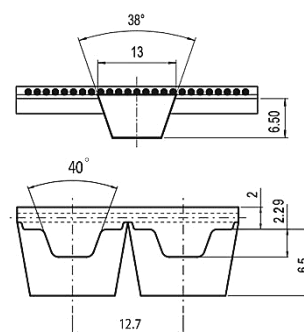
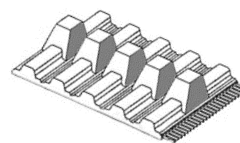
- Operating temperature between -20°C to $+80^{\circ}\text{C}$ (up to 110°C for short-term)
- Nylon fiber coating on teeth as standard
- Hardness Shore A 92
- Standard color is black. White color is available on request
- Galvanized carbon steel cord with S/Z twist direction
- High tensile strength; teeth deliver enhanced torque transmission
- Resistance to aging, UV and ozone; resistant to grease, weak acids and weak alkalis

HK-K13 Open-end belt M / Spliced belt V

Open-end /Welded PU

Parameter characteristics

- Profile H self tracking timing belt
- Guide dimensions: K13x6.5mm
- Steel cord as standard
- Providing self-centering and no pulley flange required
- Widely used in linear positioning and high-speed transmission



Tolerances range

- Width tolerance: ± 0.5 [mm]
- Length tolerance: ± 0.5 [mm/m]
- Thickness tolerance: ± 0.2 [mm]

Technical parameters

Width [inch] [mm]	100	150	200	400	600
	25.4	38.1	50.8	101.6	152.4
Allowable load Open-end M-Type [N]	2730	4100	5620	11250	16850
Allowable load Spliced V-Type [N]	1365	2050	2810	5625	8425
Breaking load [N]	10000	15100	20400	41400	62200
Weight [kg/m]	0.18	0.23	0.29	0.51	0.73

Flexibility & Minimum Pulley Diameters

Application		Timing pulley Flat idler pulley	Steel cord
	Non-reverse bending	Pulley teeth Z_{min}	20
		Flat idler on belt teeth d_{min} [mm]	80
	Reverse bending	Pulley teeth Z_{min}	22
		Flat idler on belt back d_{min} [mm]	120

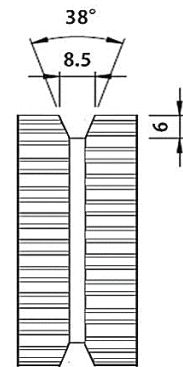
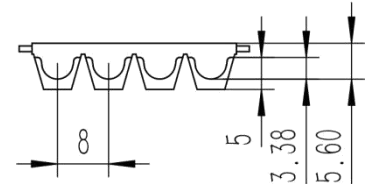
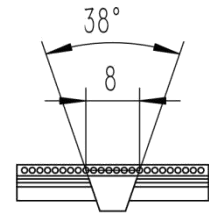
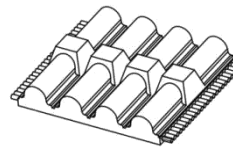
Technical Characteristics

- Operating temperature between -20°C to $+80^{\circ}\text{C}$ (up to 110°C for short-term)
- Nylon fiber coating on teeth as standard
- Hardness Shore A 92
- Standard color is black. White color is available on request
- Galvanized carbon steel cord with S/Z twist direction
- High tensile strength; teeth deliver enhanced torque transmission
- Resistance to aging, UV and ozone; resistant to grease, weak acids and weak alkalis

HTD8M-K8 Open-end belt M / Spliced belt V

Parameter characteristics

- Profile HTD8M self tracking timing belt
- Guide dimensions: K13x6.5mm
- Steel cord as standard
- Providing self-centering and no pulley flange required
- Widely used in linear positioning and high-speed transmission



Tolerances range

- Width tolerance: ± 0.5 [mm]
- Length tolerance: ± 0.5 [mm/m]
- Thickness tolerance: ± 0.2 [mm]

Technical parameters

Width [mm]	30	50	85	100
Allowable load Open-end M-Type [N]	4900	8510	14600	17300
Allowable load Spliced V-Type [N]	2450	4255	7300	8650
Breaking load [N]	18920	33100	57000	67320
Weight [kg/m]	0.26	0.38	0.64	0.74

Flexibility & Minimum Pulley Diameters

Application		Timing pulley Flat idler pulley	Steel cord
	Non-reverse bending	Pulley teeth Z_{min}	25
		Flat idler on belt teeth d_{min} [mm]	80
	Reverse bending	Pulley teeth Z_{min}	40
		Flat idler on belt back d_{min} [mm]	140

Technical Characteristics

- Operating temperature between -20°C to $+80^{\circ}\text{C}$ (up to 110°C for short-term)
- Nylon fiber coating on teeth as standard
- Hardness Shore A 92
- Standard color is black. White color is available on request
- Galvanized carbon steel cord with S/Z twist direction
- High tensile strength; teeth deliver enhanced torque transmission
- Resistance to aging, UV and ozone; resistant to grease, weak acids and weak alkalis

F2 Open-end belt M / Spliced belt V

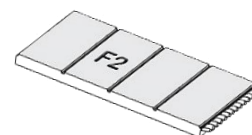
Parameter characteristics

- Flat polyurethane belt with steel cord
- Height 2mm, hardness Shore A 92
- High transmitted torque and accuracy
- Maintenance-free, resistant to most of the chemical oils and greases
- Widely used in linear lifting and medium power transmission



Tolerances range

- Width tolerance: ± 0.5 [mm]
- Thickness tolerance: ± 0.2 [mm]



Technical parameters

Width [mm]	10	15	25	30	50	75	100
Allowable load Open-end M-Type [N]	1400	2200	4100	4600	8500	12200	17000
Allowable load Spliced V-Type [N]	700	1100	2050	2300	4250	6100	8500
Breaking load [N]	5650	8500	16100	18000	33200	50000	77200
Weight [kg/m]	0.03	0.05	0.08	0.10	0.17	0.25	0.34

Flexibility & Minimum Pulley Diameters

Transmission Method		Timing pulley Flat idler pulley	Non-reverse bending	Reverse bending
	Linear transmission	Min. pulley diameter d_{min} (mm)	50	100

Technical Characteristics

- Operating temperature between -20°C to $+80^{\circ}\text{C}$ (up to 110°C for short-term)
- Nylon fiber coating on teeth as standard
- Hardness Shore A 92
- Standard color is black. White color is available on request
- Galvanized carbon steel cord with S/Z twist direction
- High tensile strength; teeth deliver enhanced torque transmission
- Resistance to aging, UV and ozone; resistant to grease, weak acids and weak alkalis

F3 Open-end belt M / Spliced belt V

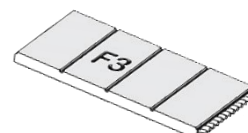
Parameter characteristics

- Flat polyurethane belt with steel cord
- Height 3mm, hardness Shore A 92
- High transmitted torque and accuracy
- Maintenance-free, resistant to most of the chemical oils and greases
- Widely used in linear lifting and high power transmission



Tolerances range

- Width tolerance: ± 0.8 [mm]
- Thickness tolerance: ± 0.3 [mm]



Technical parameters

Width [mm]	25	30	60	100
Allowable load Open-end M-Type [N]	6750	10000	21000	33000
Allowable load Spliced V-Type [N]	3375	5000	10500	16500
Breaking load [N]	25000	38000	79000	140000
Weight [kg/m]	0.11	0.12	0.25	0.42

Flexibility & Minimum Pulley Diameters

Transmission Method		Timing pulley Flat idler pulley	Non-reverse bending	Reverse bending
	Linear transmission	Min. pulley diameter d_{min} (mm)	50	100

Technical Characteristics

- Operating temperature between -20°C to +80°C (up to 110°C for short-term)
- Nylon fiber coating on teeth as standard
- Hardness Shore A 92
- Standard color is black. White color is available on request
- Galvanized carbon steel cord with S/Z twist direction
- High tensile strength; teeth deliver enhanced torque transmission
- Resistance to aging, UV and ozone; resistant to grease, weak acids and weak alkalis

F4 Open-end belt M / Spliced belt V

Parameter Properties

- Flat polyurethane belt with steel cord
- Height 4mm, hardness Shore A 92
- High transmitted torque and accuracy
- Maintenance-free, resistant to most of the chemical oils and greases
- Widely used in linear lifting and high power transmission



Tolerances range

- Width tolerance: ± 0.8 [mm]
- Thickness tolerance: ± 0.3 [mm]



Technical parameters

Width [mm]	25	50	75	100
Allowable load Open-end M-Type [N]	8500	16500	30500	40000
Allowable load Spliced V-Type [N]	4250	8250	15250	20000
Breaking load [N]	32000	65500	122000	168000
Weight [kg/m]	0.22	0.43	0.65	0.85

Flexibility & Minimum Pulley Diameters

Transmission Method		Timing pulley Flat idler pulley	Non-reverse bending	Reverse bending
	Linear transmission	Min. pulley diameter d_{min} (mm)	180	250

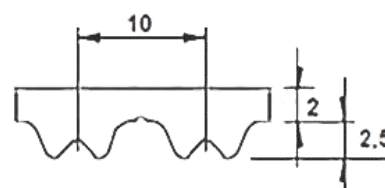
Technical Characteristics

- Operating temperature between -20°C to $+80^{\circ}\text{C}$ (up to 110°C for short-term)
- Nylon fiber coating on teeth as standard
- Hardness Shore A 92
- Standard color is black. White color is available on request
- Galvanized carbon steel cord with S/Z twist direction
- High tensile strength; teeth deliver enhanced torque transmission
- Resistance to aging, UV and ozone; resistant to grease, weak acids and weak alkalis

ATP10 Open-end belt M / Spliced belt V

Parameter characteristics

- Metric pitch 10 mm, AT profile
- Steel cord as standard, Kevlar cord is available on request
- The **double-peak tooth** structure provides more uniform load distribution and lower noise
- High transmitted torque and accuracy, long service life
- Widely used in linear positioning and medium power transmission



Tolerances range

- Width tolerance: ± 0.5 [mm]
- longtolerance: ± 0.5 [mm/m]
- Thickness tolerance: ± 0.2 [mm]



Technical parameters

Width [mm]	25	32	50	75	100	150
Allowable load Open-end M-Type [N]	4720	6200	10020	15050	20260	30850
Allowable load Spliced V-Type [N]	2360	3100	5010	7525	10130	15420
Breaking load [N]	17650	23500	37650	56600	76500	115470
Weight [kg/m]	0.15	0.2	0.31	0.45	0.60	0.92

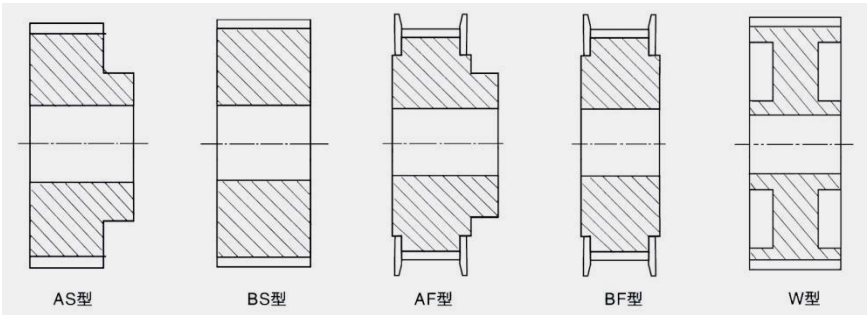
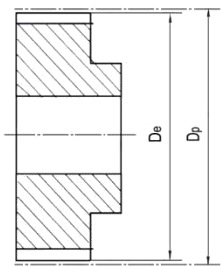
Flexibility & Minimum Pulley Diameters

Application		Timing pulley Flat idler pulley	Steel cord	Kevlar cord
	Non-reverse bending	Pulley teeth Z_{min}	15	15
		Flat idler on belt teeth d_{min} [mm]	50	50
	Reverse bending	Pulley teeth Z_{min}	25	20
		Flat idler on belt back d_{min} [mm]	120	120

Technical Characteristics

- Operating temperature between -20°C to $+80^{\circ}\text{C}$ (up to 110°C for short-term)
- Nylon fiber coating on teeth as standard
- Hardness Shore A 92
- Standard color is black. White color is available on request
- Galvanized carbon steel cord with S/Z twist direction
- High tensile strength; teeth deliver enhanced torque transmission
- Resistance to aging, UV and ozone; resistant to grease, weak acids and weak alkalis

ATP10 Timing Pulley



ATP10 timing pulley

Z	Dp	De
15	47.75	45.70
16	50.93	49.05
17	54.11	52.25
18	57.29	55.45
19	60.48	58.60
20	63.66	61.80
21	66.84	65.00
22	70.03	68.15
23	73.20	71.35
24	76.39	74.55
25	79.58	77.70
26	82.76	80.90
27	85.95	84.10
28	89.12	87.25
29	92.21	90.45
30	95.49	93.65
31	98.67	96.80
32	101.86	100.00
33	105.04	103.20
34	108.19	106.40
35	111.41	109.55
36	114.59	112.75
37	117.77	115.90

Z	Dp	De
38	120.95	119.10
39	124.14	122.30
40	127.32	125.45
41	130.50	128.65
42	133.69	131.85
43	136.87	135.00
44	140.05	138.20
45	143.24	141.40
46	146.42	144.55
47	149.60	147.75
48	152.78	150.95
49	155.97	154.10
50	159.15	157.30
51	162.33	160.50
52	165.52	163.65
53	168.70	166.85
54	171.88	170.05
55	175.06	173.20
56	178.25	176.40
57	181.43	179.60
58	184.61	182.75
59	187.80	185.95
60	190.98	189.10

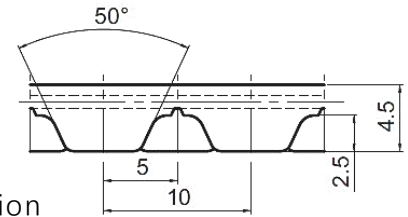
Z	Dp	De
61	194.16	192.30
62	197.35	195.50
63	200.53	198.65
64	203.71	201.85
65	206.90	205.05
66	210.08	208.20
67	213.26	211.40
68	216.44	214.60
69	219.63	217.75
70	222.81	220.95
71	225.99	224.15
72	229.18	227.30
73	232.33	230.50
74	235.54	233.70
75	238.72	236.90
76	241.94	240.05
77	245.09	243.25
78	248.24	246.40
79	251.46	249.60
80	254.64	252.80
81	257.82	255.95
82	261.00	259.15
83	264.19	262.30



SFAT10 Open-end belt M / Spliced belt V

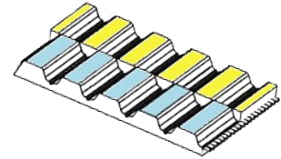
Parameter characteristics

- Metric pitch 10 mm, AT profile with offset tooth
- Steel cord as standard, Kevlar cord is available on request
- High transmitted torque and accuracy
- With high axial and angular accuracy
- Widely used in linear positioning and medium power transmission



Tolerances range

- Width tolerance: ± 0.5 [mm]
- Length tolerance: ± 0.5 [mm/m]
- Thickness tolerance: ± 0.2 [mm]



Technical parameters

Width [mm]	50	75	100	150
Allowable load Open-end M-Type [N]	8500	12650	17350	26000
Allowable load Spliced V-Type [N]	4250	6325	8675	13000
Breaking load [N]	33200	50280	67400	101500
Weight [kg/m]	0.31	0.45	0.60	0.91

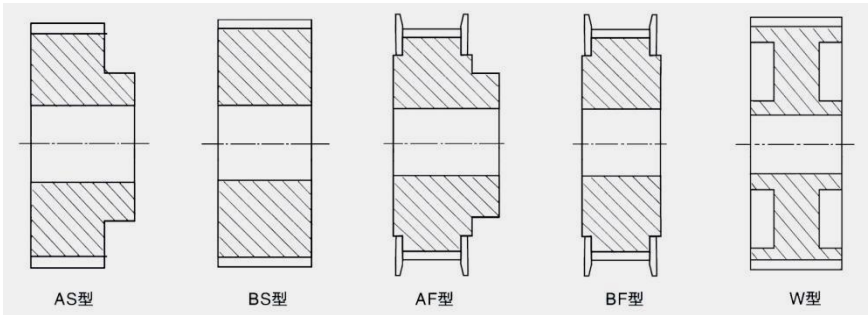
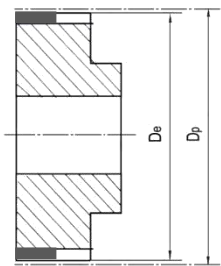
Flexibility & Minimum Pulley Diameters

Application		Timing pulley Flat idler pulley	Steel cord	Kevlar cord
	Non-reverse bending	Pulley teeth Z_{min}	15	12
		Flat idler on belt teeth d_{min} [mm]	50	50
	Reverse bending	Pulley teeth Z_{min}	25	20
		Flat idler on belt back d_{min} [mm]	120	80

Technical Characteristics

- Operating temperature between -20°C to $+80^{\circ}\text{C}$ (up to 110°C for short-term)
- Nylon fiber coating on teeth as standard
- Hardness Shore A 92
- Standard color is black. White color is available on request
- Galvanized carbon steel cord with S/Z twist direction
- High tensile strength; teeth deliver enhanced torque transmission
- Resistance to aging, UV and ozone; resistant to grease, weak acids and weak alkalis

SFAT10 Timing Pulley



SFAT10 timing pulley

Z	Dp	De
15	47.75	45.70
16	50.93	49.05
17	54.11	52.25
18	57.29	55.45
19	60.48	58.60
20	63.66	61.80
21	66.84	65.00
22	70.03	68.15
23	73.20	71.35
24	76.39	74.55
25	79.58	77.70
26	82.76	80.90
27	85.95	84.10
28	89.12	87.25
29	92.21	90.45
30	95.49	93.65
31	98.67	96.80
32	101.86	100.00
33	105.04	103.20
34	108.19	106.40
35	111.41	109.55
36	114.59	112.75
37	117.77	115.90

Z	Dp	De
38	120.95	119.10
39	124.14	122.30
40	127.32	125.45
41	130.50	128.65
42	133.69	131.85
43	136.87	135.00
44	140.05	138.20
45	143.24	141.40
46	146.42	144.55
47	149.60	147.75
48	152.78	150.95
49	155.97	154.10
50	159.15	157.30
51	162.33	160.50
52	165.52	163.65
53	168.70	166.85
54	171.88	170.05
55	175.06	173.20
56	178.25	176.40
57	181.43	179.60
58	184.61	182.75
59	187.80	185.95
60	190.98	189.10

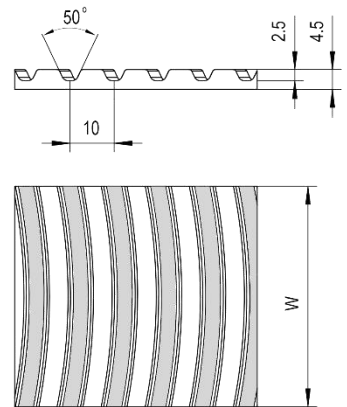
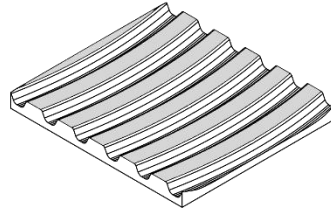
Z	Dp	De
61	194.16	192.30
62	197.35	195.50
63	200.53	198.65
64	203.71	201.85
65	206.90	205.05
66	210.08	208.20
67	213.26	211.40
68	216.44	214.60
69	219.63	217.75
70	222.81	220.95
71	225.99	224.15
72	229.18	227.30
73	232.33	230.50
74	235.54	233.70
75	238.72	236.90
76	241.94	240.05
77	245.09	243.25
78	248.24	246.40
79	251.46	249.60
80	254.64	252.80
81	257.82	255.95
82	261.00	259.15
83	264.19	262.30



BAT10 Open-end belt M / Spliced belt V

Parameter characteristics

- Metric pitch 10 mm
- Steel cord as standard
- AT tooth profile
- High tensile strength, low elongation
- With high axial and angular accuracy
- Widely used in linear positioning and medium power transmission



Tolerances range

- Width tolerance: ± 0.5 [mm]
- Length tolerance: ± 0.5 [mm/m]
- Thickness tolerance: ± 0.2 [mm]

Technical parameters

Width [mm]	50	75	100
Allowable load Open-end M-Type [N]	8500	12650	17350
Allowable load Spliced V-Type [N]	4250	6325	8675
Breaking load [N]	33200	50280	67400
Weight [kg/m]	0.31	0.45	0.60

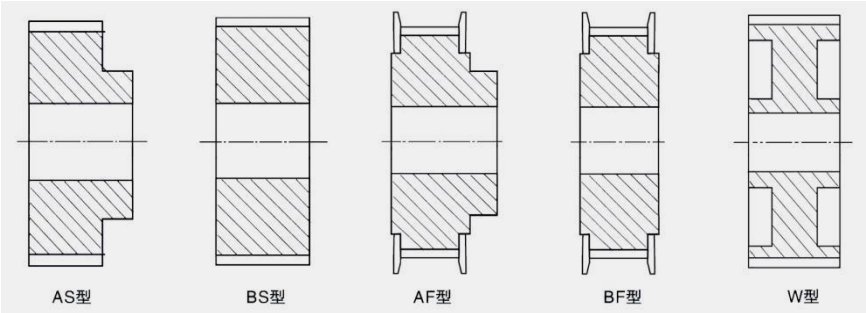
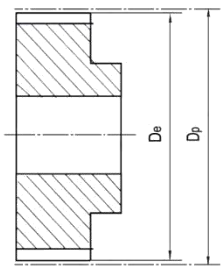
Flexibility & Minimum Pulley Diameters

Application		Timing pulley Flat idler pulley	Steel cord M Type	Steel cord V Type
	Non-reverse bending	Pulley teeth Z_{min}	20	25
		Flat idler on belt teeth d_{min} [mm]	60	80
	Reverse bending	Pulley teeth Z_{min}	25	25
		Flat idler on belt back d_{min} [mm]	120	120

Technical Characteristics

- Operating temperature between -20°C to $+80^{\circ}\text{C}$ (up to 110°C for short-term)
- Nylon fiber coating on teeth as standard
- Hardness Shore A 92
- Standard color is black. White color is available on request
- Galvanized carbon steel cord with S/Z twist direction
- High tensile strength; teeth deliver enhanced torque transmission
- Resistance to aging, UV and ozone; resistant to grease, weak acids and weak alkalis

BAT10 Timing Pulley



BAT10 timing pulley

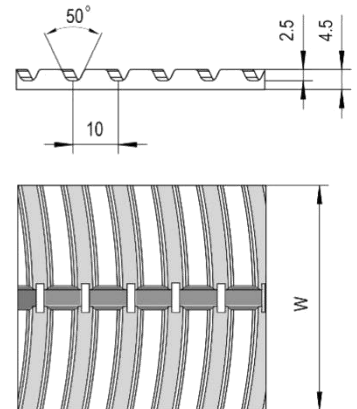
Z	Dp	De	Z	Dp	De	Z	Dp	De
15	47.75	45.70	38	120.95	119.10	61	194.16	192.30
16	50.93	49.05	39	124.14	122.30	62	197.35	195.50
17	54.11	52.25	40	127.32	125.45	63	200.53	198.65
18	57.29	55.45	41	130.50	128.65	64	203.71	201.85
19	60.48	58.60	42	133.69	131.85	65	206.90	205.05
20	63.66	61.80	43	136.87	135.00	66	210.08	208.20
21	66.84	65.00	44	140.05	138.20	67	213.26	211.40
22	70.03	68.15	45	143.24	141.40	68	216.44	214.60
23	73.20	71.35	46	146.42	144.55	69	219.63	217.75
24	76.39	74.55	47	149.60	147.75	70	222.81	220.95
25	79.58	77.70	48	152.78	150.95	71	225.99	224.15
26	82.76	80.90	49	155.97	154.10	72	229.18	227.30
27	85.95	84.10	50	159.15	157.30	73	232.33	230.50
28	89.12	87.25	51	162.33	160.50	74	235.54	233.70
29	92.21	90.45	52	165.52	163.65	75	238.72	236.90
30	95.49	93.65	53	168.70	166.85	76	241.94	240.05
31	98.67	96.80	54	171.88	170.05	77	245.09	243.25
32	101.86	100.00	55	175.06	173.20	78	248.24	246.40
33	105.04	103.20	56	178.25	176.40	79	251.46	249.60
34	108.19	106.40	57	181.43	179.60	80	254.64	252.80
35	111.41	109.55	58	184.61	182.75	81	257.82	255.95
36	114.59	112.75	59	187.80	185.95	82	261.00	259.15
37	117.77	115.90	60	190.98	189.10	83	264.19	262.30



BATK10 Open-end belt M / Spliced belt V

Parameter characteristics

- Metric pitch 10 mm
- Steel cord as standard
- AT tooth profile with self center guide
- High tensile strength, low elongation
- With high axial and angular accuracy
- Widely used in linear positioning and medium power transmission



Tolerances range

- Width tolerance: ± 0.5 [mm]
- Length tolerance: ± 0.5 [mm/m]
- Thickness tolerance: ± 0.2 [mm]

Technical parameters

Width [mm]	50	75	100
Allowable load Open-end M-Type [N]	8500	12650	17350
Allowable load Spliced V-Type [N]	4250	6325	8675
Breaking load [N]	33200	50280	67400
Weight [kg/m]	0.31	0.45	0.60

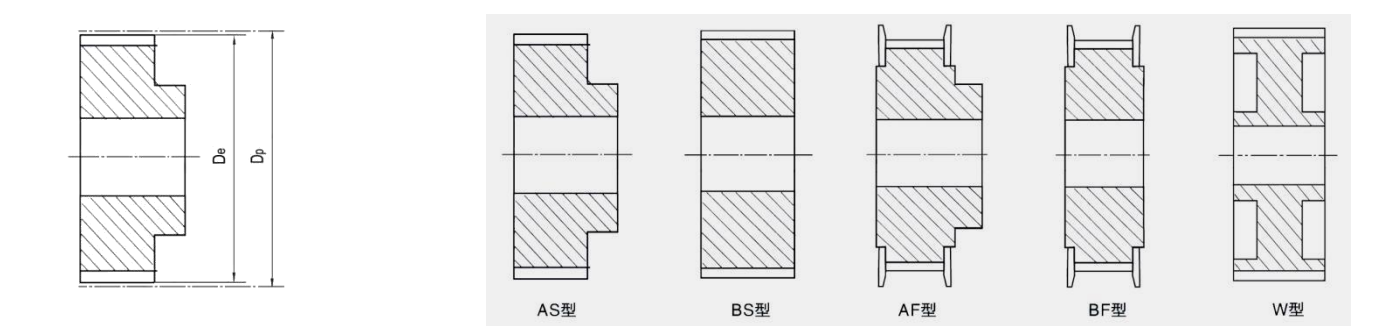
Flexibility & Minimum Pulley Diameters

Application		Timing pulley Flat idler pulley	Steel cord M Type	Steel cord V Type
	Non-reverse bending	Pulley teeth Z_{min}	20	25
		Flat idler on belt teeth d_{min} [mm]	60	80
	Reverse bending	Pulley teeth Z_{min}	25	25
		Flat idler on belt back d_{min} [mm]	120	120

Technical Characteristics

- Operating temperature between -20°C to $+80^{\circ}\text{C}$ (up to 110°C for short-term)
- Nylon fiber coating on teeth as standard
- Hardness Shore A 92
- Standard color is black. White color is available on request
- Galvanized carbon steel cord with S/Z twist direction
- High tensile strength; teeth deliver enhanced torque transmission
- Resistance to aging, UV and ozone; resistant to grease, weak acids and weak alkalis

BATK10 Timing pulley Timing Pulley



BATK10 timing pulley

Z	Dp	De	Z	Dp	De	Z	Dp	De
15	47.75	45.70	38	120.95	119.10	61	194.16	192.30
16	50.93	49.05	39	124.14	122.30	62	197.35	195.50
17	54.11	52.25	40	127.32	125.45	63	200.53	198.65
18	57.29	55.45	41	130.50	128.65	64	203.71	201.85
19	60.48	58.60	42	133.69	131.85	65	206.90	205.05
20	63.66	61.80	43	136.87	135.00	66	210.08	208.20
21	66.84	65.00	44	140.05	138.20	67	213.26	211.40
22	70.03	68.15	45	143.24	141.40	68	216.44	214.60
23	73.20	71.35	46	146.42	144.55	69	219.63	217.75
24	76.39	74.55	47	149.60	147.75	70	222.81	220.95
25	79.58	77.70	48	152.78	150.95	71	225.99	224.15
26	82.76	80.90	49	155.97	154.10	72	229.18	227.30
27	85.95	84.10	50	159.15	157.30	73	232.33	230.50
28	89.12	87.25	51	162.33	160.50	74	235.54	233.70
29	92.21	90.45	52	165.52	163.65	75	238.72	236.90
30	95.49	93.65	53	168.70	166.85	76	241.94	240.05
31	98.67	96.80	54	171.88	170.05	77	245.09	243.25
32	101.86	100.00	55	175.06	173.20	78	248.24	246.40
33	105.04	103.20	56	178.25	176.40	79	251.46	249.60
34	108.19	106.40	57	181.43	179.60	80	254.64	252.80
35	111.41	109.55	58	184.61	182.75	81	257.82	255.95
36	114.59	112.75	59	187.80	185.95	82	261.00	259.15
37	117.77	115.90	60	190.98	189.10	83	264.19	262.30

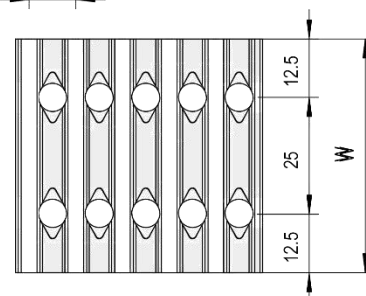
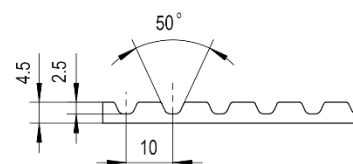
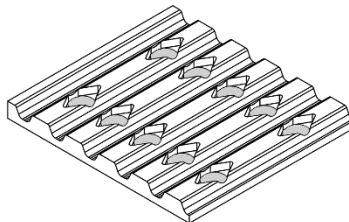


ATN10 Open-end belt M / Spliced belt V

Open-end /Welded PU

Parameter characteristics

- Metric pitch 10 mm
- Steel cord as standard
- AT profile with diamond holes
- High tensile strength, low elongation
- With high axial and angular accuracy
- Widely used in linear positioning and medium power transmission

**Tolerances range**

- Width tolerance: ± 0.5 [mm]
- Length tolerance: ± 0.5 [mm/m]
- Thickness tolerance: ± 0.2 [mm]

Technical parameters

Width [mm]	25	50	75	100
Allowable load Open-end M-Type [N]	4100	8500	12650	17350
Allowable load Spliced V-Type [N]	2050	4250	6325	8675
Breaking load [N]	16000	33200	50280	67400
Weight [kg/m]	0.16	0.31	0.45	0.60

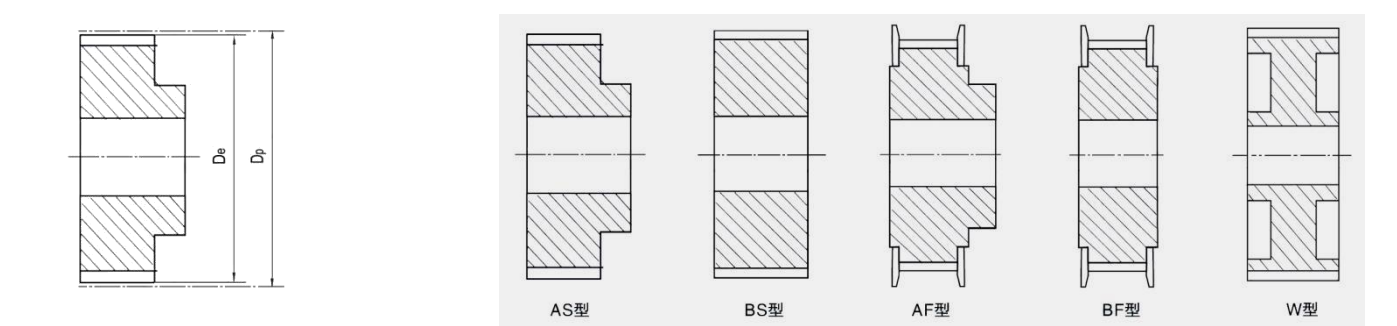
Flexibility & Minimum Pulley Diameters

Application		Timing pulley Flat idler pulley	Steel cord
	Non-reverse bending	Pulley teeth $Z_{\min}$	25
		Flat idler on belt teeth $d_{\min}$ [mm]	80
	Reverse bending	Pulley teeth $Z_{\min}$	40
		Flat idler on belt back $d_{\min}$ [mm]	140

Technical Characteristics

- Operating temperature between -20°C to $+80^{\circ}\text{C}$ (up to 110°C for short-term)
- Nylon fiber coating on teeth as standard
- Hardness Shore A 92
- Standard color is black. White color is available on request
- Galvanized carbon steel cord with S/Z twist direction
- High tensile strength; teeth deliver enhanced torque transmission
- Resistance to aging, UV and ozone; resistant to grease, weak acids and weak alkalis

ATN10 Timing pulley Timing Pulley



ATN10 timing pulley

Z	Dp	De	Z	Dp	De	Z	Dp	De
15	47.75	45.70	38	120.95	119.10	61	194.16	192.30
16	50.93	49.05	39	124.14	122.30	62	197.35	195.50
17	54.11	52.25	40	127.32	125.45	63	200.53	198.65
18	57.29	55.45	41	130.50	128.65	64	203.71	201.85
19	60.48	58.60	42	133.69	131.85	65	206.90	205.05
20	63.66	61.80	43	136.87	135.00	66	210.08	208.20
21	66.84	65.00	44	140.05	138.20	67	213.26	211.40
22	70.03	68.15	45	143.24	141.40	68	216.44	214.60
23	73.20	71.35	46	146.42	144.55	69	219.63	217.75
24	76.39	74.55	47	149.60	147.75	70	222.81	220.95
25	79.58	77.70	48	152.78	150.95	71	225.99	224.15
26	82.76	80.90	49	155.97	154.10	72	229.18	227.30
27	85.95	84.10	50	159.15	157.30	73	232.33	230.50
28	89.12	87.25	51	162.33	160.50	74	235.54	233.70
29	92.21	90.45	52	165.52	163.65	75	238.72	236.90
30	95.49	93.65	53	168.70	166.85	76	241.94	240.05
31	98.67	96.80	54	171.88	170.05	77	245.09	243.25
32	101.86	100.00	55	175.06	173.20	78	248.24	246.40
33	105.04	103.20	56	178.25	176.40	79	251.46	249.60
34	108.19	106.40	57	181.43	179.60	80	254.64	252.80
35	111.41	109.55	58	184.61	182.75	81	257.82	255.95
36	114.59	112.75	59	187.80	185.95	82	261.00	259.15
37	117.77	115.90	60	190.98	189.10	83	264.19	262.30

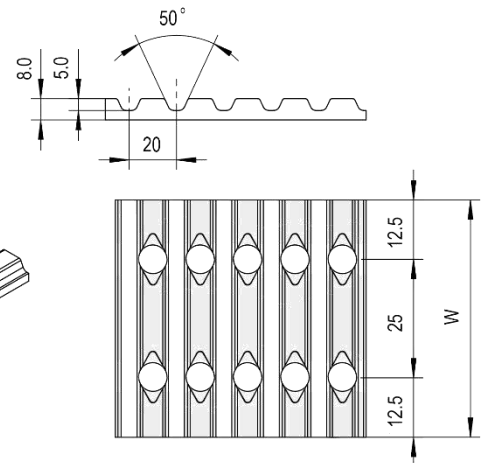
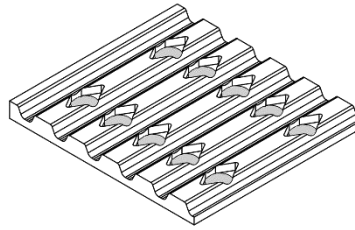


ATN20 Open-end belt M / Spliced belt V

Open-end /Welded PU

Parameter characteristics

- Metric pitch 20 mm
- Steel cord as standard
- AT profile with diamond holes
- High tensile strength, low elongation
- With high axial and angular accuracy
- Widely used in linear positioning and high power transmission



Tolerances range

- Width tolerance: ± 1.0 [mm]
- Length tolerance: ± 1.0 [mm/m]
- Thickness tolerance: ± 0.4 [mm]

Technical parameters

Width [mm]	50	75	100
Allowable load Open-end M-Type [N]	8500	12650	17350
Allowable load Spliced V-Type [N]	4250	6325	8675
Breaking load [N]	33200	50280	67400
Weight [kg/m]	0.31	0.45	0.60

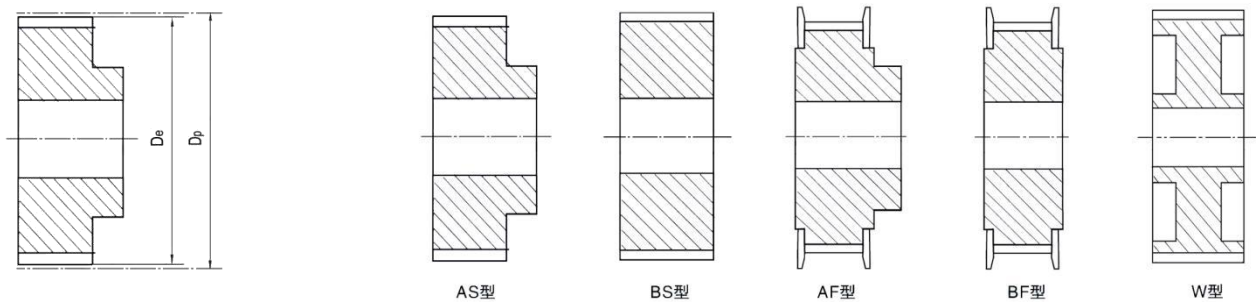
Flexibility & Minimum Pulley Diameters

Application		Timing pulley Flat idler pulley	Steel cord
	Non-reverse bending	Pulley teeth Z_{min}	20
		Flat idler on belt teeth d_{min} [mm]	125

Technical Characteristics

- Operating temperature between -20°C to $+80^{\circ}\text{C}$ (up to 110°C for short-term)
- Nylon fiber coating on teeth as standard
- Hardness Shore A 92
- Standard color is black. White color is available on request
- Galvanized carbon steel cord with S/Z twist direction
- High tensile strength; teeth deliver enhanced torque transmission
- Resistance to aging, UV and ozone; resistant to grease, weak acids and weak alkalis

TAN20 Timing pulley Timing Pulley



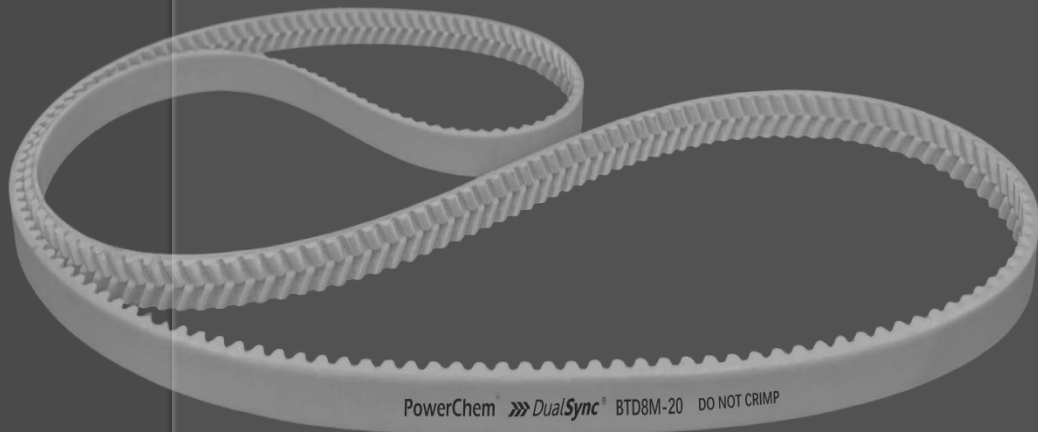
ATN20 timing pulley

Z	Dp	De	Z	Dp	De	Z	Dp	De
18	114.59	111.75	41	261.01	258.15	64	407.43	404.55
19	120.95	118.10	42	267.37	264.50	65	413.79	410.95
20	127.32	124.50	43	273.74	270.90	66	420.16	417.30
21	133.69	130.75	44	280.10	277.25	67	426.52	423.65
22	140.05	137.20	45	286.47	283.60	68	432.89	430.05
23	146.42	143.55	46	292.84	290.00	69	439.26	436.40
24	152.78	149.95	47	299.21	296.35	70	445.63	442.80
25	159.15	156.30	48	305.58	302.70	71	451.99	449.15
26	165.52	162.65	49	311.93	309.10	72	458.36	455.50
27	171.88	169.05	50	318.30	315.45	73	464.73	461.85
28	178.25	175.40	51	324.67	321.80	74	471.08	468.25
29	184.62	181.75	52	331.03	328.20	75	477.45	474.60
30	190.99	188.15	53	337.40	334.55	76	483.82	480.95
31	197.35	194.50	54	343.76	340.90	77	490.19	487.35
32	203.72	200.85	55	350.13	347.30	78	496.56	493.70
33	210.09	207.20	56	356.50	353.65	79	502.91	500.05
34	216.44	213.60	57	362.86	360.00	80	509.28	506.45
35	222.81	219.95	58	369.23	366.40	81	515.65	512.80
36	229.18	226.35	59	375.59	372.75	82	522.02	519.15
37	235.54	232.70	60	381.96	379.10	83	528.39	525.55
38	241.91	239.05	61	388.33	385.45	84	534.74	531.90
39	248.27	245.45	62	394.69	391.85	85	541.11	538.25
40	254.64	251.80	63	401.06	398.20	86	547.48	544.60



Endless **PU-flex**

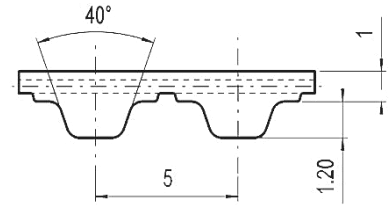
Polyurethane Timing Belt



T5 Endless Timing Belt

Parameter characteristics

- Pitch 5mm, T profile
- Steel and Kevlar cord are available
- High tensile strength, low elongation
- Max. speed up to 10000 rpm
- Up to 5 kw power transmission



Tolerances range

- Width tolerance: ± 0.5 [mm]
- Thickness tolerance: ± 0.2 [mm]
- Width range: max. 100 [mm]
- Length range: 760~8000 [mm]

Technical parameters

Width [mm]	10	16	25	32	50	75	100
Tensile strength [N]	384	610	930	1215	1890	2815	3775
Weight [kg/m]	0.02	0.03	0.05	0.07	0.11	0.16	0.21

Flexibility & Minimum Pulley Diameters

Application		Timing pulley Flat idler pulley	Steel cord
	Non-reverse bending	Pulley teeth $Z_{\min}$	10
		Flat idler on belt teeth $d_{\min}$ [mm]	30
	Reverse bending	Pulley teeth $Z_{\min}$	15
		Flat idler on belt back $d_{\min}$ [mm]	30

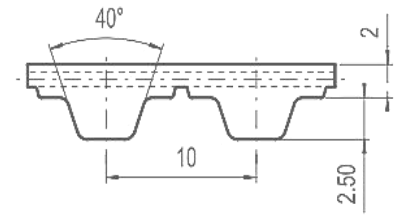
Technical Characteristics

- Operating temperature between -20°C to $+80^{\circ}\text{C}$ (up to 110°C for short-term)
- Nylon fiber coating on teeth as standard
- Hardness Shore A 92
- Standard color is black. White color is available on request
- Galvanized carbon steel cord with S/Z twist direction
- High tensile strength; teeth deliver enhanced torque transmission
- Resistance to aging, UV and ozone; resistant to grease, weak acids and weak alkalis

T10 Endless Timing Belt

Parameter characteristics

- Pitch 10mm, T profile
- Steel and Kevlar cord are available
- High tensile strength, low elongation
- Max. speed up to 10000 rpm
- Up to 30 kw power transmissio



Tolerances range

- Width tolerance: ± 0.5 [mm]
- Thickness tolerance: ± 0.2 [mm]
- Width range: max. 150 [mm]
- Length range: 800~10000 [mm]

Technical parameters

Width [mm]	10	16	25	32	50	75	100
Tensile strength [N]	1150	1840	2760	3570	5640	8400	11160
Weight [kg/m]	0.05	0.07	0.12	0.15	0.23	0.35	0.46

Flexibility & Minimum Pulley Diameters

Application		Timing pulley Flat idler pulley	Steel cord
	Non-reverse bending	Pulley teeth Z_{min}	12
		Flat idler on belt teeth d_{min} [mm]	60
	Reverse bending	Pulley teeth Z_{min}	20
		Flat idler on belt back d_{min} [mm]	60

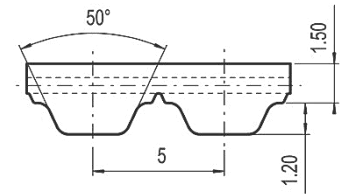
Technical Characteristics

- Operating temperature between -20°C to $+80^{\circ}\text{C}$ (up to 110°C for short-term)
- Nylon fiber coating on teeth as standard
- Hardness Shore A 92
- Standard color is black. White color is available on request
- Galvanized carbon steel cord with S/Z twist direction
- High tensile strength; teeth deliver enhanced torque transmission
- Resistance to aging, UV and ozone; resistant to grease, weak acids and weak alkalis

AT5 Endless Timing Belt

Parameter characteristics

- Pitch 5mm, AT profile
- Steel and Kevlar cord are available
- High tensile strength, low elongation
- Max. speed up to 10000 rpm
- Up to 15 kw power transmissio



Tolerances range

- Width tolerance: ± 0.5 [mm]
- Thickness tolerance: ± 0.2 [mm]
- Width range: max. 100 [mm]
- Length range: 800~8000 [mm]

Technical parameters

Width [mm]	10	16	25	32	50	75	100
Tensile strength [N]	1150	1840	2760	3570	5640	8400	11160
Weight [kg/m]	0.03	0.05	0.08	0.11	0.17	0.25	0.33

Flexibility & Minimum Pulley Diameters

Application		Timing pulley Flat idler pulley	Steel cord
	Non-reverse bending	Pulley teeth Z_{min}	15
		Flat idler on belt teeth d_{min} [mm]	30
	Reverse bending	Pulley teeth Z_{min}	25
		Flat idler on belt back d_{min} [mm]	60

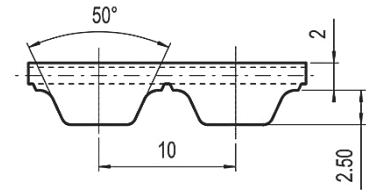
Technical Characteristics

- Operating temperature between -20°C to $+80^{\circ}\text{C}$ (up to 110°C for short-term)
- Nylon fiber coating on teeth as standard
- Hardness Shore A 92
- Standard color is black. White color is available on request
- Galvanized carbon steel cord with S/Z twist direction
- High tensile strength; teeth deliver enhanced torque transmission
- Resistance to aging, UV and ozone; resistant to grease, weak acids and weak alkalis

AT10 Endless Timing Belt

Parameter characteristics

- Pitch 10mm, AT profile
- Steel and Kevlar cord are available
- High tensile strength, low elongation
- Max. speed up to 10000 rpm
- Up to 60 kw power transmission



Tolerances range

- Width tolerance: ± 0.5 [mm]
- Thickness tolerance: ± 0.2 [mm]
- Width range: max. 150 [mm]
- Length range: 800~10000 [mm]

Technical parameters

Width [mm]	16	25	32	50	75	100	150
Tensile strength [N]	2430	4040	5120	8090	12400	16440	24790
Weight [kg/m]	0.09	0.14	0.18	0.29	0.43	0.57	0.86

Flexibility & Minimum Pulley Diameters

Application		Timing pulley Flat idler pulley	Steel cord
	Non-reverse bending	Pulley teeth $Z_{\min}$	15
		Flat idler on belt teeth $d_{\min}$ [mm]	50
	Reverse bending	Pulley teeth $Z_{\min}$	25
		Flat idler on belt back $d_{\min}$ [mm]	120

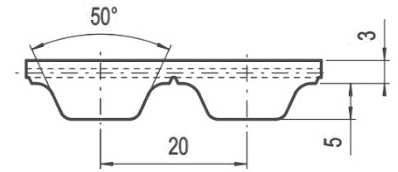
Technical Characteristics

- Operating temperature between -20°C to $+80^{\circ}\text{C}$ (up to 110°C for short-term)
- Nylon fiber coating on teeth as standard
- Hardness Shore A 92
- Standard color is black. White color is available on request
- Galvanized carbon steel cord with S/Z twist direction
- High tensile strength; teeth deliver enhanced torque transmission
- Resistance to aging, UV and ozone; resistant to grease, weak acids and weak alkalis

AT20 Endless Timing Belt

Parameter characteristics

- Pitch 20mm, AT profile
- Steel cord as standard
- High tensile strength, low elongation
- Max. speed up to 6000rpm
- Up to 130kw power transmission



Tolerances range

- Width tolerance: ± 1.0 [mm]
- Thickness tolerance: ± 0.3 [mm]
- Width range: max. 150 [mm]
- Length range: 1650~12000 [mm]

Technical parameters

Width [mm]	25	32	50	75	100	150
Tensile strength [N]	5760	7200	11520	17280	23040	34560
Weight [kg/m]	0.24	0.31	0.48	0.73	0.97	1.45

Flexibility & Minimum Pulley Diameters

Application		Timing pulley Flat idler pulley	Steel cord
	Non-reverse bending	Pulley teeth $Z_{\min}$	18
		Flat idler on belt teeth $d_{\min}$ [mm]	120
	Reverse bending	Pulley teeth $Z_{\min}$	25
		Flat idler on belt back $d_{\min}$ [mm]	180

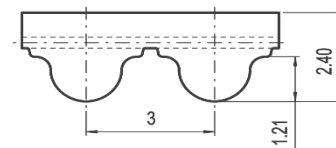
Technical Characteristics

- Operating temperature between -20°C to $+80^{\circ}\text{C}$ (up to 110°C for short-term)
- Nylon fiber coating on teeth as standard
- Hardness Shore A 92
- Standard color is black. White color is available on request
- Galvanized carbon steel cord with S/Z twist direction
- High tensile strength; teeth deliver enhanced torque transmission
- Resistance to aging, UV and ozone; resistant to grease, weak acids and weak alkalis

HTD3M Endless Timing Belt

Parameter characteristics

- Pitch 3mm, HTD profile
- Steel cord as standard
- High tensile strength, low elongation
- Max. speed up to 10000 rpm
- Up to 3kw power transmission



Tolerances range

- Width tolerance: ± 0.5 [mm]
- Thickness tolerance: ± 0.2 [mm]
- Width range: max. 100[mm]
- Length range: 800~8000[mm]

Technical parameters

Width [mm]	10	15	25	50	100
Tensile strength [N]	310	500	900	1820	3700
Weight [kg/m]	0.02	0.03	0.05	0.11	0.21

Flexibility & Minimum Pulley Diameters

Application		Timing pulley Flat idler pulley	Steel cord
	Non-reverse bending	Pulley teeth Z_{min}	20
		Flat idler on belt teeth d_{min} [mm]	30
	Reverse bending	Pulley teeth Z_{min}	20
		Flat idler on belt back d_{min} [mm]	30

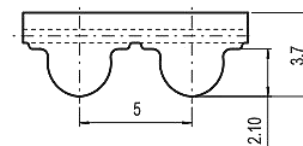
Technical Characteristics

- Operating temperature between -20°C to $+80^{\circ}\text{C}$ (up to 110°C for short-term)
- Nylon fiber coating on teeth as standard
- Hardness Shore A 92
- Standard color is black. White color is available on request
- Galvanized carbon steel cord with S/Z twist direction
- High tensile strength; teeth deliver enhanced torque transmission
- Resistance to aging, UV and ozone; resistant to grease, weak acids and weak alkalis

HTD5M Endless Timing Belt

Parameter characteristics

- Pitch 5mm, HTD profile
- Steel cord as standard
- High tensile strength, low elongation
- Max. speed up to 10000 rpm
- Up to 6kw power transmission



Tolerances range

- Width tolerance: ± 0.5 [mm]
- Thickness tolerance: ± 0.2 [mm]
- Width range: max. 100[mm]
- Length range: 800~8000[mm]

Technical parameters

Width [mm]	10	15	25	50	100	150
Tensile strength [N]	1150	1725	2760	5635	11155	16790
Weight [kg/m]	0.05	0.07	0.11	0.23	0.46	0.68

Flexibility & Minimum Pulley Diameters

Application		Timing pulley Flat idler pulley	Steel cord
	Non-reverse bending	Pulley teeth Z_{min}	16
		Flat idler on belt teeth d_{min} [mm]	30
	Reverse bending	Pulley teeth Z_{min}	25
		Flat idler on belt back d_{min} [mm]	60

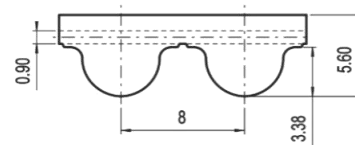
Technical Characteristics

- Operating temperature between -20°C to $+80^{\circ}\text{C}$ (up to 110°C for short-term)
- Nylon fiber coating on teeth as standard
- Hardness Shore A 92
- Standard color is black. White color is available on request
- Galvanized carbon steel cord with S/Z twist direction
- High tensile strength; teeth deliver enhanced torque transmission
- Resistance to aging, UV and ozone; resistant to grease, weak acids and weak alkalis

HTD8M Endless Timing Belt

Parameter characteristics

- Pitch 8mm, HTD profile
- Steel cord as standard
- High tensile strength, low elongation
- Max. speed up to 6000 rpm
- Up to 75kw power transmission



Tolerances range

- Width tolerance: ± 0.5 [mm]
- Thickness tolerance: ± 0.2 [mm]
- Width range: max. 150[mm]
- Length range: 800~10000[mm]

Technical parameters

Width [mm]	10	15	20	30	50	85	100
Tensile strength [N]	1470	2205	2940	4410	7350	12495	14700
Weight [kg/m]	0.07	0.10	0.13	0.20	0.33	0.56	0.66

Flexibility & Minimum Pulley Diameters

Application		Timing pulley Flat idler pulley	Steel cord
	Non-reverse bending	Pulley teeth Z_{min}	16
		Flat idler on belt teeth d_{min} [mm]	50
	Reverse bending	Pulley teeth Z_{min}	30
		Flat idler on belt back d_{min} [mm]	120

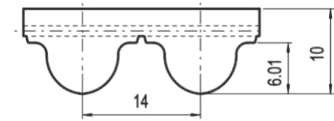
Technical Characteristics

- Operating temperature between -20°C to $+80^{\circ}\text{C}$ (up to 110°C for short-term)
- Nylon fiber coating on teeth as standard
- Hardness Shore A 92
- Standard color is black. White color is available on request
- Galvanized carbon steel cord with S/Z twist direction
- High tensile strength; teeth deliver enhanced torque transmission
- Resistance to aging, UV and ozone; resistant to grease, weak acids and weak alkalis

HTD14M Endless Timing Belt

Parameter characteristics

- Pitch 14mm, HTD profile
- Steel cord as standard
- High tensile strength, low elongation
- Max. speed up to 4000 rpm
- Up to 150kw power transmission



Tolerances range

- Width tolerance: ± 1.0 [mm]
- Thickness tolerance: ± 0.3 [mm]
- Width range: max. 150[mm]
- Length range: 1650~12000[mm]

Technical parameters

Width [mm]	40	55	85	115	150
Tensile strength [N]	9120	12480	19680	26400	34560
Weight [kg/m]	0.42	0.57	0.89	1.24	1.70

Flexibility & Minimum Pulley Diameters

Application		Timing pulley Flat idler pulley	Steel cord
	Non-reverse bending	Pulley teeth $Z_{\min}$	28
		Flat idler on belt teeth $d_{\min}$ [mm]	120
	Reverse bending	Pulley teeth $Z_{\min}$	28
		Flat idler on belt back $d_{\min}$ [mm]	180

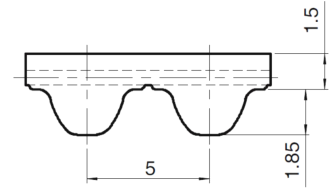
Technical Characteristics

- Operating temperature between -20°C to $+80^{\circ}\text{C}$ (up to 110°C for short-term)
- Nylon fiber coating on teeth as standard
- Hardness Shore A 92
- Standard color is black. White color is available on request
- Galvanized carbon steel cord with S/Z twist direction
- High tensile strength; teeth deliver enhanced torque transmission
- Resistance to aging, UV and ozone; resistant to grease, weak acids and weak alkalis

STD5M Endless Timing Belt

Parameter characteristics

- Pitch 5mm, STD profile
- Steel cord as standard
- High tensile strength, low elongation
- Max. speed up to 10000 rpm
- Up to 6kw power transmission



Tolerances range

- Width tolerance: ± 0.5 [mm]
- Thickness tolerance: ± 0.2 [mm]
- Width range: max. 100[mm]
- Length range: 800~8000[mm]

Technical parameters

Width [mm]	10	15	25	50	100
Tensile strength [N]	1150	1725	2760	5635	11155
Weight [kg/m]	0.05	0.07	0.12	0.24	0.46

Flexibility & Minimum Pulley Diameters

Application		Timing pulley Flat idler pulley	Steel cord
	Non-reverse bending	Pulley teeth $Z_{\min}$	16
		Flat idler on belt teeth $d_{\min}$ [mm]	30
	Reverse bending	Pulley teeth $Z_{\min}$	25
		Flat idler on belt back $d_{\min}$ [mm]	60

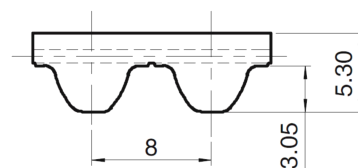
Technical Characteristics

- Operating temperature between -20°C to $+80^{\circ}\text{C}$ (up to 110°C for short-term)
- Nylon fiber coating on teeth as standard
- Hardness Shore A 92
- Standard color is black. White color is available on request
- Galvanized carbon steel cord with S/Z twist direction
- High tensile strength; teeth deliver enhanced torque transmission
- Resistance to aging, UV and ozone; resistant to grease, weak acids and weak alkalis

STD8M Endless Timing Belt

Parameter characteristics

- Pitch 8mm, STD profile
- Steel cord as standard
- High tensile strength, low elongation
- Max. speed up to 6000 rpm
- Up to 75kw power transmission



Tolerances range

- Width tolerance: ± 0.5 [mm]
- Thickness tolerance: ± 0.2 [mm]
- Width range: max. 150[mm]
- Length range: 800~10000[mm]

Technical parameters

Width [mm]	10	15	20	30	50	85	100
Tensile strength [N]	1470	2205	2940	4410	7350	12495	14700
Weight [kg/m]	0.07	0.10	0.13	0.20	0.33	0.56	0.66

Flexibility & Minimum Pulley Diameters

Application		Timing pulley Flat idler pulley	Steel cord
	Non-reverse bending	Pulley teeth Z_{min}	18
		Flat idler on belt teeth d_{min} [mm]	50
	Reverse bending	Pulley teeth Z_{min}	30
		Flat idler on belt back d_{min} [mm]	20

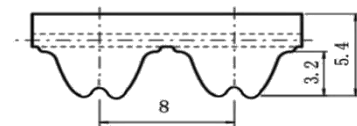
Technical Characteristics

- Operating temperature between -20°C to $+80^{\circ}\text{C}$ (up to 110°C for short-term)
- Nylon fiber coating on teeth as standard
- Hardness Shore A 92
- Standard color is black. White color is available on request
- Galvanized carbon steel cord with S/Z twist direction
- High tensile strength; teeth deliver enhanced torque transmission
- Resistance to aging, UV and ozone; resistant to grease, weak acids and weak alkalis

RPP8M Endless Timing Belt

Parameter characteristics

- Pitch 8mm, RPP profile
- Steel cord as standard
- High tensile strength, low elongation
- Standard series with fabric on tooth side (PAZ)
- Max. speed up to 6000 rpm
- Up to 75kw power transmission



Tolerances range

- Width tolerance: ± 0.5 [mm]
- Thickness tolerance: ± 0.2 [mm]
- Width range: max. 100[mm]
- Length range: 1650~10000[mm]

Technical parameters

Width [mm]	10	15	20	30	50	85	100
Tensile strength [N]	1470	2205	2940	4410	7350	12495	14700
Weight [kg/m]	0.07	0.10	0.13	0.20	0.33	0.56	0.66

Flexibility & Minimum Pulley Diameters

Application		Timing pulley Flat idler pulley	Steel cord
	Non-reverse bending	Pulley teeth Z_{min}	18
		Flat idler on belt teeth d_{min} [mm]	50
	Reverse bending	Pulley teeth Z_{min}	30
		Flat idler on belt back d_{min} [mm]	120

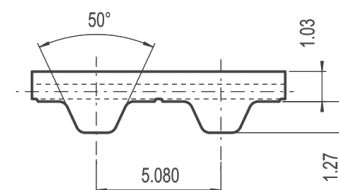
Technical Characteristics

- Operating temperature between -20°C to $+80^{\circ}\text{C}$ (up to 110°C for short-term)
- Nylon fiber coating on teeth as standard
- Hardness Shore A 92
- Standard color is black. White color is available on request
- Galvanized carbon steel cord with S/Z twist direction
- High tensile strength; teeth deliver enhanced torque transmission
- Resistance to aging, UV and ozone; resistant to grease, weak acids and weak alkalis

XL Endless Timing Belt

Parameter characteristics

- Imperial pitch 1/5" (5.08mm), Profile XL
- Steel cord as standard
- High tensile strength, low elongation
- Max. speed up to 10000 rpm
- Up to 5kw power transmission



Tolerances range

- Width tolerance: ± 0.5 [mm]
- Thickness tolerance: ± 0.2 [mm]
- Width range: max. 101.6[mm]
- Length range: 800~6000[mm]

Technical parameters

Width [inch] [mm]	025	037	050	075	100	150	200	400
	6.35	9.53	12.7	19.1	25.4	38.1	50.8	101.6
Tensile strength [N]	224	352	480	704	960	1440	1920	3840
Weight [kg/m]	0.016	0.024	0.033	0.05	0.07	0.10	0.13	0.26

Flexibility & Minimum Pulley Diameters

Application		Timing pulley Flat idler pulley	Steel cord
	Non-reverse bending	Pulley teeth Z_{min}	10
		Flat idler on belt teeth d_{min} [mm]	30
	Reverse bending	Pulley teeth Z_{min}	15
		Flat idler on belt back d_{min} [mm]	30

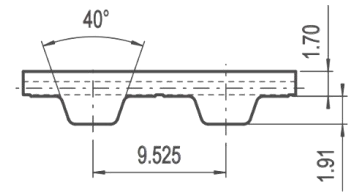
Technical Characteristics

- Operating temperature between -20°C to $+80^{\circ}\text{C}$ (up to 110°C for short-term)
- Nylon fiber coating on teeth as standard
- Hardness Shore A 92
- Standard color is black. White color is available on request
- Galvanized carbon steel cord with S/Z twist direction
- High tensile strength; teeth deliver enhanced torque transmission
- Resistance to aging, UV and ozone; resistant to grease, weak acids and weak alkalis

L Endless Timing Belt

Parameter characteristics

- Imperial pitch 3/8" (9.525mm), Profile L
- Steel cord as standard
- High tensile strength, low elongation
- Max. speed up to 10000 rpm
- Up to 20kw power transmission



Tolerances range

- Width tolerance: ± 0.5 [mm]
- Thickness tolerance: ± 0.2 [mm]
- Width range: max. 101.6[mm]
- Length range: 800~10000[mm]

Technical parameters

Width [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 [N]	1380	2185	2875	4255	5635	8510	11385
Weight [kg/m]	0.05	0.08	0.10	0.15	0.20	0.30	0.40

Flexibility & Minimum Pulley Diameters

Application		Timing pulley Flat idler pulley	Steel cord
	Non-reverse bending	Pulley teeth Z_{min}	15
		Flat idler on belt teeth d_{min} [mm]	60
	Reverse bending	Pulley teeth Z_{min}	20
		Flat idler on belt back d_{min} [mm]	60

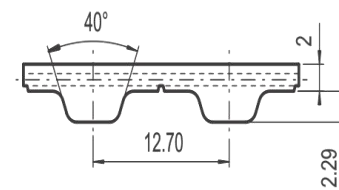
Technical Characteristics

- Operating temperature between -20°C to $+80^{\circ}\text{C}$ (up to 110°C for short-term)
- Nylon fiber coating on teeth as standard
- Hardness Shore A 92
- Standard color is black. White color is available on request
- Galvanized carbon steel cord with S/Z twist direction
- High tensile strength; teeth deliver enhanced torque transmission
- Resistance to aging, UV and ozone; resistant to grease, weak acids and weak alkalis

H Endless Timing Belt

Parameter characteristics

- Imperial pitch 1/2" (12.7mm), Profile H
- Steel cord as standard
- High tensile strength, low elongation
- Max. speed up to 10000 rpm
- Up to 30kw power transmission



Tolerances range

- Width tolerance: ± 0.5 [mm]
- Thickness tolerance: ± 0.2 [mm]
- Width range: max. 101.6[mm]
- Length range: 800~10000[mm]

Technical parameters

Width [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 [N]	1380	2185	2875	4255	5635	8510	11385
Weight [kg/m]	0.066	0.09	0.11	0.17	0.23	0.34	0.45

Flexibility & Minimum Pulley Diameters

Application		Timing pulley Flat idler pulley	Steel cord
	Non-reverse bending	Pulley teeth Z_{min}	14
		Flat idler on belt teeth d_{min} [mm]	60
	Reverse bending	Pulley teeth Z_{min}	20
		Flat idler on belt back d_{min} [mm]	80

Technical Characteristics

- Operating temperature between -20°C to $+80^{\circ}\text{C}$ (up to 110°C for short-term)
- Nylon fiber coating on teeth as standard
- Hardness Shore A 92
- Standard color is black. White color is available on request
- Galvanized carbon steel cord with S/Z twist direction
- High tensile strength; teeth deliver enhanced torque transmission
- Resistance to aging, UV and ozone; resistant to grease, weak acids and weak alkalis

Troubleshooting

DAMAGE	CAUSE	REMEDIAL ACTIONS
Abnormal noise	- Pulley mounting offset - Poor tooth- mesh engagement - Belt wider than pulley flange - Excessive belt tension - Overload - Over- wide belt causes high- speed squealing	- Correct pulley misalignment - Replace pulley - Revise design - Adjust initial tension - Revise design - Revise design
Belt tooth jumping	- Overload & equipment vibration - Machine jam- induced overload - Too few engaged teeth - Insufficient initial tension - Pulley diameter too small - Ignored start- stop inertia	- Optimize belt tooth profile / size - Avoid unexpected machine overload - Add diameter of the idler pulley to increase the number of meshing teeth - Set proper initial tension - Revise design - Revise design
Belt breakage	- Overload - Foreign particles between belt & pulley - Tension member corrosion - Belt rubbing against pulley flange - Insufficient teeth on clamp plate - Over- tightened clamp- plate screws	- Change belt size / model - Add protective guard - Use aramid / stainless- steel cords - Realign pulley, replace flanges - Use multi- tooth clamp plate - Use torque wrench or limit spacer
Belt side- face abrasion	- Improper pulley position - Defective flange shape - Rough flange surface	- Fix pulley mounting offset - Replace pulley flange - Fit suitable flange
Belt tooth wear	- Foreign particles in mesh - Overload - Excessive tension - Tooth jumping from low initial tension	- Install protective housing - Revise design (increase belt size) - Reset initial tension - Apply sufficient initial tension
Belt tooth- root wear	- Poor pulley tooth profile - Excessive installation tension	- Use high- quality pulley - Adjust belt initial tension
Belt back- surface abrasion	- Unwanted contact with machine frame	- Remove interfering contact
Belt back- side cracking	- Extremely low operating temperature - Pulley diameter below minimum spec	- Raise temperature or select special belt - Follow minimum pulley- diameter requirement
Partial tension- member rupture	- Foreign particles at meshing zone - Incorrect assembly - Belt distorted in storage - One- sided fatigue from misalignment	- Fit protective shield - Maintain belt- pulley alignment - Avoid deformation during handling - Ensure accurate installation alignment
Abnormal back- coating wear	- Corrosive working environment	- Modify back- coating or improve environment
Pulley tooth wear	- Foreign particles in mesh - Transmission overload - Excessive belt tension - Soft pulley material	- Add protective cover - Revise mechanical design - Calibrate initial tension - Change pulley material or apply surface treatment



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