

## 聚氨酯同步带

### Polyurethane Timing Belt

- 开口(PU)同步带由热塑聚氨酯材料制成,具有较高抗磨损能力。各种类型钢丝芯保证其在高负载传动中仍然保持良好的运转能力。
- 生产公差小。传动可靠且具有尺寸稳定性。生产过程中在齿面和 / 或齿背加一层尼龙布以保证在特殊应用中的运行特性不变。还可在皮带背面加厚一层聚氨酯以防止腐蚀或高负载。
- 开口(PU)同步带具有以下性能: 机械性能 - 尺寸稳定性 - 预拉力低 - 噪音低 - 高度耐磨损 - 无须维护 - 弹性好:  $-30^{\circ}\text{C} \sim +80^{\circ}\text{C}$  短时间可承受最高  $+110^{\circ}\text{C}$  高度防油、防油酯、抗大多数酸、碱腐蚀或以与其他热塑材料结合。
- 开口带成品带为连续长度,中间有与两边平行的钢丝芯。标准卷长为 50 或 100 米。
- Open(PU)belt made by the thermoplastic polyurethane material with high wear resistance. Ensure all types of wire core is still in the high-load transmission good running ability.
- Production tolerances. Drive, reliable and dimensional stability. The production process in the tooth surface and/or teeth and add a layer of nylon to ensure that applications running in the special characteristics of the same. Also thicker layer of polyurethane on the back of the belt to prevent corrosion or high load.
- Open(PU)belt has the following properties: Mechanical properties, Dimensional stability, pre-tension low, low noise, highly resistant to wear, no maintenance, elastic good, highly accurate straight, straight line speed of up to 80 m /sec and chemical properties aging, water solution, UV UVA, anti-ozone working temperature:  $-30^{\circ}\text{C} \sim +80^{\circ}\text{C} +110^{\circ}\text{C}$  short period of time can withstand the maximum height of anti-oil, anti-oil, anti-oil esters most anti-acid and alkali corrosion with other thermoplastic materials combination.
- Opening finished belt with a continuous length, the middle and the sides parallel to the wire core. Standard roll length is 50 or 100 meters.



## 技术参数 Technical Datas

型号 Type ( 50mm)	AT5	AT10	AT15	AT20	T5	T10	T20
开口带额定负载 Nominal loading of open roll ( N )	3410	7760	7240	7255	1764	4980	7250
接驳带最大负载 Max. loading of endless belt ( N )	1750	3880	3610	3630	882	2490	3625
开口带断裂负载 breakage loading of open roll ( N )	12390	32440	30220	30260	7230	18760	30250
重量 Weight ( kg/m)	0.16	0.30	0.34	0.38	0.104	0.22	0.37

### 参数特性 Parameters

公制节距 5MM,10MM,15MM,20MM 钢丝芯聚氨酯同步带钢丝芯齿形。按 DIN7721 T1 标准最适合用与高柔性的驱动应用场合被广泛使用在输送传动,线性驱动和小功率传动。AT15,AT20,T20 使用与大功率传动

Steel wire polyurethane timing belt with metric pitch of 5MM,10MM,15MM and 20MM are equipped with steel wire shaped teeth. In accordance with DIN7721 standard,it's most applicable to high flexible drive.It's widely used in transportation transmission, linear drive and small power transmission. AT15,AT20 and T20 are applied to large power transmission.

### 公差范围 Tolerance

宽度公差:  $\pm 0.5$  [ MM ]      长度公差:  $\pm 0.5$  [ MM ]      厚度公差:  $\pm 0.2$  [ MM ]  
Width tolerance:  $\pm 0.5$ [MM]      Length tolerance:  $\pm 0.5$ [MM]      Thickness tolerance:  $\pm 0.2$ [MM]

型号 Type ( 50mm)	HTD3M	HTD5M	HTD8M	HTD14M	STD5M	STD8M
开口带额定负载 Nominal loading of open roll ( N )	1560	4960	7210	12730	4960	7210
接驳带最大负载 Max. loading of endless belt ( N )	780	2480	3650	6365	2480	3605
开口带断裂负载 breakage loading of open roll ( N )	6500	18700	3100	48870	18700	31100
重量 Weight ( kg/m)	0.10	0.23	0.36	0.58	0.23	0.36

### 参数特性 Parameters

公制节距 :3MM,5MM,8MM,14MM 钢丝芯聚氨酯同步带圆弧齿型。按 ISO 13050 标准, 传送扭矩高, 传动精度高被广泛使用在线性定位, 3MM,5MM 节距用于小功率传动, 8MM 节距用于中等功率, 14MM 节距适用于大功率传动

Steel wire polyurethane cheronous belts whose nominal pitches are 3mm,5mm,8mm and 14mm are equipped with arch shaped teeth. With characteristics of high transmitted torque, transmission accuracy, it is widely used in linear positioning. Among them, steel wire polyurethane cheronous belts with nominal pitch of 3mm,5mm are used in small power transmission; steel wire polyurethane cheronous belts with nominal pitch of 8mm is used in medium power transmission and steel wire polyurethane cheronous belts with nominal pitch of 14mm is used in large power transmission.

### 公差范围 Tolerance

宽度公差:  $\pm 0.5$  [ MM ]      长度公差:  $\pm 0.5$  [ MM ]      厚度公差:  $\pm 0.2$  [ MM ]  
Width tolerance:  $\pm 0.5$ [MM]      Length tolerance:  $\pm 0.5$ [MM]      Thickness tolerance:  $\pm 0.2$ [MM]

型号 Type ( 50mm)	L	XL	H	XH
开口带额定负载 Nominal loading of open roll ( N )	3410	1480	5120	7180
接驳带最大负载 Max. loading of endless belt ( N )	1750	740	2560	3590
开口带断裂负载 breakage loading of open roll ( N )	11700	6160	18790	29890
重量 Weight ( kg/m)	0.195	0.122	0.21	0.55

### 参数特性 Parameters

公制节距: XL(5.08MM),L(9.525MM),H(12.7MM),XH(22.220MM) 钢丝芯聚氨酯同步带梯形齿形,按 DIN/SIO,5296 标准可以配合小直径滑轮使用被广泛使用在英制节距的使用场合

Steel wire polyurethane timing belt with metric pitch of XL(5.08MM),L(9.525MM),H(12.7MM),XH(22.220MM) are equipped with trapezoidal-shaped teeth. In accordance with DIN/SIO 5296 standard,it's widely used in application of imperial pitch with small diameter pulleys.

### 公差范围 Tolerance

宽度公差:  $\pm 0.5$  [ MM ]      长度公差:  $\pm 0.5$  [ MM ]      厚度公差:  $\pm 0.2$  [ MM ]  
Width tolerance:  $\pm 0.5$ [MM]      Length tolerance:  $\pm 0.5$ [MM]      Thickness tolerance:  $\pm 0.2$ [MM]



## 接驳环形的同步带

### The Jointed Timing Belt

- 接口环形同步带
- 接口带是根据热塑特性由开口带加工而成的环型皮带,可以接驳成任何长度的环型带。其中 V 型的接口设计使皮带的接口区可承受较强拉力。接口带适用于输送用途,尤其当动力额定的情况下,可生产不同的用途、齿形的皮带,并可附加不同的挡板和覆盖物。
- 可提供 400mm 长度以上的接驳环形 PU 带
- Interface ring belt
- Characteristics of the interface zone is based on thermoplastic processed by open belt,could be connected into the ring with any length .The multi-interface design of V -belt interface area can be made stronger to withstand tension.The jointed timing belt can be used in conveying ,especially when the power rating of the circumstances,can produce different uses,toothed belt, or gluing variety of cleats and covers.
- The jointed belt length can be more than 400mm

## 聚氨酯环形无缝 PU 同步带

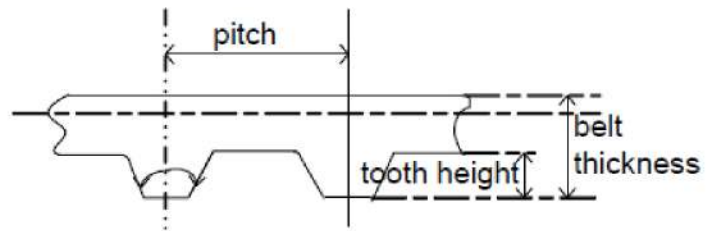
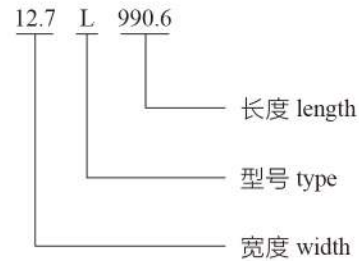
### PU Flex Timing Belt/PU Seamless Timing Belt

- 优质聚氨酯材料使皮带具有耐磨损及抗撕裂性能
- 其中的钢丝芯增加皮带强度、抗拉力,使皮带具有良好的尺寸稳定性
- 聚氨酯无缝环形带动力公差小,可以保证厚度及长度的精确性
- 以上各种特点使聚氨酯环型动力带具有较高的物理和化学稳定性
- 聚氨酯皮带具有以下性能:
  - 机械性能
    - 尺寸稳定性 -预拉力低 -噪音低
    - 高度耐磨损 -无须维护 -弹性好
    - 直线速底最高中达 80 米 / 秒
  - 化学性能
    - 防老化、防水解、防紫外 UVA、防臭氧
    - 工作温度: -30℃ ~ 80℃ 短时间可承受最高 +110℃
    - 高度防油、防油脂
    - 抗大多数酸、碱腐蚀
- High-quality polyurethane material resistant to wear and tear
- One of the core wire to increase belt strength,tensile strength,so that the belt has good dimensional stability
- Polyurethane seamless with small tolerances,can guarantee the accuracy of thickness and length
- All of the above features make the polyurethane belt has a higher power with the physical and chemical stability
- Polyurethane belt has the following properties:
  - Mechanical properties
    - Dimensional stability-pre-tension low-low noise
    - Highly resistant to wear-no maintenance-good elasticity-Linear speeds up to 80m/s
  - Chemical properties
    - Anti-aging, water solution,UV UVA,anti-ozone
    - Operating temperature:-30℃ ~+80℃ short time up to +110℃
    - Highly resistant to oil,oil ester
    - Good anti acids,alkali corrosion

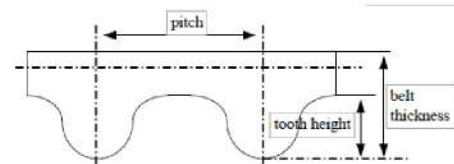
T type PU timing belt 梯形齿 PU 同步带			
型号 Type	节距 Pitch	齿高 Tooth height	带厚 Belt thickness
	(mm)	(mm)	(mm)
MXL	2.032	0.51	1.14
XL	5.08	1.27	2.3
L	9.525	1.91	3.6
H	12.7	2.29	4.3
XH	22.225	6.35	11.2
XH	31.75	9.53	15.7
T2.5	2.5	0.7	1.3
T5	5	1.2	2.2
T10	10	2.5	4.5
T20	20	5	8
AT5	5	1.2	2.7
AT10	10	2.5	5
AT20	20	5	8

规格型号标记示例:

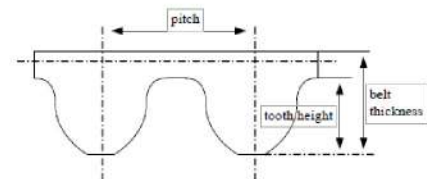
**EXAMPLE OF MARK:**



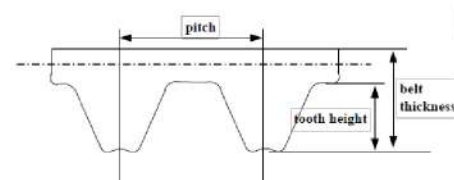
Arc tooth PU timing belt 圆弧齿 PU 同步带				
系列 Series	型号 Type	节距 Pitch	齿高 Tooth height	带厚 Belt thickness
		(mm)	(mm)	(mm)
HTD	2M	2	0.75	1.36
	3M	3	1.17	2.4
	5M	5	2.06	3.8
	8M	8	3.36	6
	14M	14	6.02	10
	20M	20	8.4	13.2
STPD/STS	S2M	2	0.76	1.36
	S3M	3	1.14	2.2
	S4.5M	4.5	1.17	2.81
	S5M	5	1.91	3.4
	S8M	8	3.05	5.3
	S14M	14	5.3	10.2
RPP/HPPD	P2M	2	0.76	1.36
	P3M	3	1.15	1.9
	P5M	5	1.95	3.5
	P8M	8	3.2	5.5
	P14M	14	6	10



HTD 圆弧齿  
HTD Arc tooth



STPD/STS 圆弧齿  
STPD/STS Arc tooth



RPP/HPPD 圆弧齿  
RPP/HPPD Arc tooth