

Timing pulleys



Timing belts are drive belts comparable to flat belts, with fixed teeth on the inside. The teeth grasp form-fitting in identically toothed pulleys, the form-fitting provides high torque transmission and maintains the transmission ratio.

Timing belts are particularly suitable in the following cases:

- To replace chain drives as these are loud and not maintenance-free
- For use in adjusting drives as the gearing ensures precise angle transmission

MISUMI offers a wide range of timing pulleys:

- Made of different materials: Aluminium, steel (1.1191/C45E) and stainless steel (1.4301)
- Profile forms MXL, XL, L, H, GT, YU, T und AT
- With additional surface treatment: anodized, clear or black, chemical nickel plated and burnished
- In disc-shape of form A – and B (K)
- With individually configurable shaft diameter - available for many sizes
- With flexible adaptation to different application.

Verschiedene Möglichkeiten der Montage



- Drilling hole with parallel key



- Clamping with set screw
- Conical clamping sleeve
- Hub clamping

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Timing pulleys with tooth profile for various applications

Application	Features	Profile	Pitch	URL
Regular torsional moment	General purpose timing pulleys suitable for torsional moment transmission and light load conveyance	MXL	2.032 mm (2/25 Zoll)	http://uk.misumi-ec.com/vona2/detail/110300405420/
		XL	5.08 mm (1/5 Zoll)	http://uk.misumi-ec.com/vona2/detail/110300405510/
		L	9.525 mm (3/8 Zoll)	http://uk.misumi-ec.com/vona2/detail/110300405670/
		H	12.7 mm (1/2 Zoll)	http://uk.misumi-ec.com/vona2/detail/110300405760/
High torsional moment	Timing pulleys suitable for high torque transmission	S2M	2.0 mm	http://uk.misumi-ec.com/vona2/detail/110300405850/
		S3M	3.0 mm	http://uk.misumi-ec.com/vona2/detail/110300405940/
		S5M	5.0 mm	http://uk.misumi-ec.com/vona2/detail/110300406030/
		S8M	8.0 mm	http://uk.misumi-ec.com/vona2/detail/110300406120/
		S14M	14.0 mm	http://uk.misumi-ec.com/vona2/detail/110302626610/
		P2M	2.0 mm	http://uk.misumi-ec.com/vona2/detail/110300406460/
		P5M	5.0 mm	http://uk.misumi-ec.com/vona2/detail/110300406640/
		P8M	8.0 mm	http://uk.misumi-ec.com/vona2/detail/110300406730/
High accuracy, positioning	Timing pulleys with small backlash. Suitable for positioning	2GT	2.0 mm	http://uk.misumi-ec.com/vona2/detail/110302193470/
		3GT	3.0 mm	http://uk.misumi-ec.com/vona2/detail/110302193560/
		5GT	5.0 mm	http://uk.misumi-ec.com/vona2/detail/110302193650/
		8YU	8.0 mm	http://uk.misumi-ec.com/vona2/detail/110302193740/
High load conveyance, regular torsional moment	Trapezoidal toothed timing pulleys suitable for conveyance. Also usable for transmission	T5	5.0 mm	http://uk.misumi-ec.com/vona2/detail/110300406820/
		T10	10.0 mm	http://uk.misumi-ec.com/vona2/detail/110300406910/
Heavy load conveyance	Timing belts suitable for heavy load conveyance. Possesses 1,3 times larger allowable tension than T type	AT5	5.0 mm	http://uk.misumi-ec.com/vona2/detail/110302193920/
		AT10	10.0 mm	

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Synchronous belts made of polyurethane and rubber

Application	Features	Profile	Pitch	URL
Regular torsional moment	<ul style="list-style-type: none"> For universal transmission Number of teeth up to a length of 10 m is possible Suitable for reciprocal linear motion 	MXL	2.032 mm (2/25 Zoll)	http://uk.misumi-ec.com/vona2/detail/110302566050/
		XL	5.08 mm (1/5 Zoll)	
		L	9.525 mm (3/8 Zoll)	
		H	12.7 mm (1/2 Zoll)	
High torsional moment	<ul style="list-style-type: none"> For universal transmission Number of teeth up to a length of 10 m is possible Suitable for reciprocal linear motion 	S2M	2.0 mm	http://uk.misumi-ec.com/vona2/detail/110302566230/
		S3M	3.0 mm	
		S5M	5.0 mm	
		S8M	8.0 mm	
	<ul style="list-style-type: none"> For universal transmission Suitable for reciprocal linear motion 	P2M	2.0 mm	http://uk.misumi-ec.com/vona2/detail/110302566410/
		P3M	3.0 mm	
		P5M	5.0 mm	
		P8M	8.0 mm	
High accuracy, positioning	<ul style="list-style-type: none"> For universal transmission Suitable for reciprocal linear motion 	2GT	2.0 mm	http://uk.misumi-ec.com/vona2/detail/110302190510/
		3GT	3.0 mm	
		5GT	5.0 mm	
		8YU	8.0 mm	
High load conveyance, regular torsional moment	<ul style="list-style-type: none"> For universal transmission Number of teeth up to a length of 10 m is possible 	T5	5.0 mm	http://uk.misumi-ec.com/vona2/detail/110302194260/
		T10	10.0 mm	
Heavy load conveyance	<ul style="list-style-type: none"> Suitable for accumulation conveyance and noise reduction 	AT5	5.0 mm	
		AT10	10.0 mm	