

# Timing Pulleys - MXL

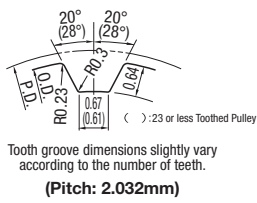
For Timing Belts **P.1227**, for Idlers with Teeth **P.1201**



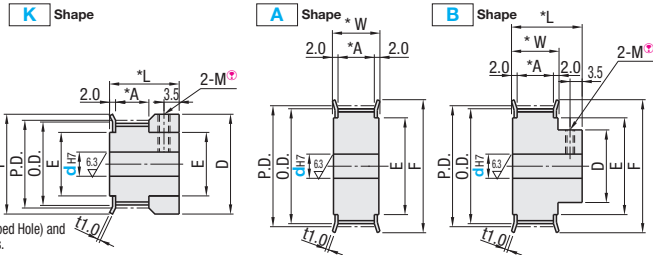
Part Number				Material		Surface Treatment	Accessories
Belt Width 4.8mm (3/16 inch)	Belt Width 6.4mm (1/4 inch)	Belt Width 9.5mm (3/8 inch)	Belt Width 12.7mm (1/2 inch)	Pulley	Flange		Set Screws
A: 6 W: 10 L: 16.5	A: 7.5 W: 11.5 L: 18	A: 11 W: 15 L: 22	A: 14 W: 18 L: 25	2017 Aluminum Alloy (Duralumin)	5052 Aluminum Alloy	Clear Anodize Black Anodize Hard Clear Anodize	304 Stainless Steel
ATP_MXL019	ATP_MXL025	ATP_MXL037	ATP_MXL050	1045 Carbon Steel	Low Carbon Steel	Black Oxide	4137 Alloy Steel (Black Oxide)
BTP_MXL019	BTP_MXL025	BTP_MXL037	BTP_MXL050	304 Stainless Steel	304 Stainless Steel	Electroless Nickel Plating	304 Stainless Steel
KTP_MXL019	KTP_MXL025	KTP_MXL037	KTP_MXL050				
NTP_MXL019	NTP_MXL025	NTP_MXL037	NTP_MXL050				
MTP_MXL025	MTP_MXL037						
MTPB_MXL025	MTPB_MXL037						
MTPM_MXL025	MTPM_MXL037						
STP_MXL025	STP_MXL037						

\*Flange is installed, and set screws are included with shaft bore specifications P, N and C. \*Hard Anodize Treatment: Film Hardness 300HV-

## Tooth Profile (ISO Standard Rack Dimensions) - Pulley Shape



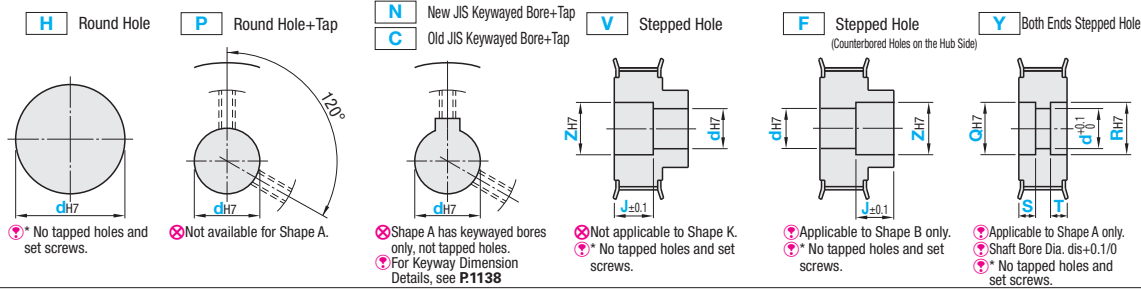
Shaft bore specifications H (Round hole), V or F (Stepped Hole) and Y (Both Sides Stepped Hole) do not have tapped holes.



## Tapped Hole Dimensions (Shaft Bore Specs.: P, N, C)

Shaft Bore ID	M Coarse	Accessories: Set Screw
3-5	M3	M3x3
6-18	M4	M4x3
19-21	M5	M5x4

## Shaft Bore Specs. Surface treatment may not be applied to shaft bores.



Part Number	Type	Number of Teeth	Type Nominal Width	Pulley Shape	Shaft Bore Specs. (1mm Increment)												P.D.	O.D.	D	F	E					
					H			P			N, C			V, F								Y				
					AShape	B, KShape	B, KShape	AShape	BShape	AShape	BShape	AShape	BShape	AShape	BShape	AShape						BShape	AShape	BShape	AShape	BShape
14	(2017 Aluminum Alloy) ATP BTP KTP NTP	14	A: 6 W: 10 L: 16.5	A	K	3, 4	3, 4	3, 4												9.06	8.55	12	12	6		
15		3, 4				3, 4	3, 4															9.70	9.19			
16		3, 4, 5				3, 4, 5	3, 4, 5																10.35	9.84		
17		3, 4, 5		3, 4, 5	3, 4, 5																11.00	10.49				
18		3, 4, 5		3, 4, 5	3, 4, 5																11.64	11.14	14	14	8	
19		3, 4, 5		3, 4, 5	3, 4, 5																12.29	11.78				
20		3, 4, 5		3, 4, 5	3, 4, 5																12.94	12.43				
21		3, 4, 5		3, 4, 5	3, 4, 5																13.58	13.07	9	18	11	
22		3, 4, 5		3, 4, 5	3, 4, 5																14.23	13.72				
23		3, 4, 5		3, 4, 5	3, 4, 5																14.88	14.37				
24		3, 4, 5		3, 4, 5	3, 4, 5																15.52	15.02	11	20	13	
25		3, 4, 5		3, 4, 5	3, 4, 5																16.17	15.66				
26		3, 4, 5		3, 4, 5	3, 4, 5																16.82	16.31	12	22	14	
27		3, 4, 5		3, 4, 5	3, 4, 5																17.46	16.96				
28		3, 4, 5		3, 4, 5	3, 4, 5																18.11	17.60				
30		(1045 Carbon Steel) MTP MTPB MTPM		30	A: 7.5 W: 11.5 L: 18	A	V	4-11	4-10	4-8	8	4-9	4-8	6-11	6-10							19.40	18.90			
32				4-11				4-10	4-8	8	4-9	4-8	6-11	6-10										20.70	20.19	14
34	4-11		4-10	4-8				8	4-9	4-8	6-11	6-10										21.99	21.48			
36	5-13		5-12	5-10		8-11	8	5-11	5-10	7-13	7-12										23.29	22.78				
38	5-13		5-12	5-10		8-11	8	5-11	5-10	7-13	7-12										24.58	24.07	16	28	18	
40	5-15		5-14	5-10		8-13	8, 10	5-13	5-12	7-15	7-14										25.87	25.36				
42	5-15		5-14	5-10		8-13	8, 10	5-13	5-12	7-15	7-14										27.17	26.66	18	30	20	
44	5-18		5-16	5-12		8-16	8, 12	5-16	5-14	7-18	7-16										28.46	27.95				
46	5-18		5-16	5-12		8-16	8, 12	5-16	5-14	7-18	7-16										29.75	29.24	20	32	23	
48	5-20		5-18	5-13		8-17	8-13	5-18	5-16	7-20	7-18										31.05	30.54	22	35	25	
50	5-20	5-18	5-13	8-17	8-13	5-18	5-16	7-20	7-18										32.34	31.84	22	35	25			
52	5-27	5-24	5-20	8-23	8-16	5-25	5-22	7-27	7-24										38.81	38.30	28	44	32			
60	5-35	5-26	5-21	8-31	8-18	5-33	5-24	7-35	7-26										46.57	46.06	30	52	40			

\*STP is available for \* marked number of teeth only.  
 \*Shaft bore specifications N and C for Shape A do not have tapped holes.  
 \*Z-d=2 for shaft bore specifications V and F.  
 \*Q(R)-d=2 for shaft bore specifications Y.  
 \*Specify NK10 when New JIS Keywayed Bore + Tap with shaft bore diameter of 10 and keyway width 4.0mm (height 1.8mm) is requested. **P.1138**

Ordering Example	Part Number	Pulley Shape	Shaft Bore Spec., ID	Z	J	Q	R	S	T
(Shaft Bore Specs.: H, P, N, C)	ATP40MXL025	B	N10						
(Shaft Bore Specs.: V, F)	ATP60MXL037	B	V8	Z14	J13.0				
(Shaft Bore Specs.: Y)	ATP48MXL050	A	Y8			Q16	R16	S5	T5

Days to Ship **Configure Online**

Price **Configure Online**

Number of Teeth	Body Price										Shaft Bore Machining Charge (Body Price +)							
	ATP(x1.0)		BTP, KTP(x1.1)		NTP(x1.2)		MTP(x1.0)		MTPB(x1.1)		MTPM(x1.2)		STP(x1.0)		ATP, BTP, KTP, NTP, MTP, MTPB, MTPM		STP	
	MXL019	MXL025	MXL037	MXL050	MXL025	MXL037	MXL025	MXL037	MXL025	MXL037	MXL025	MXL037	PHole	N, C, V Hole	Y Hole	PHole	N, C, V Hole	Y Hole
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Alterations **Part Number** - **Pulley Shape** - **Shaft Bore Spec., ID** - **Z** - **J** - **Q** - **R** - **S** - **T** - (KC90, QSC, QFC, QTC, KSC, KFC, KTC, BC, NFC, RFC, LFC, FC, TPC, SLH) - KSC20 - K4

Alterations	Set Screw Angle	Side Tapped Hole	Side Through Hole
Code	KC90	QSC, QFC, QTC	KSC, KFC, KTC
Spec.	Changes the angle between setscrews to 90°.	Machines tapped hole on the side surface of hub side (QSC, QFC, QTC: 1mm Increment). *Minimum Thickness: 2mm Shape A: d+M+4≤QSC(QFC, QTC)≤E-(M+4) Shape B: d+M+4≤QSC(QFC, QTC)≤D-(M+4) *d=Z when the Shaft Bore Specifications is V. *Specify KC90 when selecting QFC for shaft bore specifications P, N and C. *When QTC is selected for shaft bore specifications P, N, C, KC90 is not available. *The pilot hole for tapping may go through. *Not applicable to Shape K. *Not applicable to shaft bore specifications F or Y. *For shaft bore specifications P, N, C, QSC is not applicable. [M Selection] M3, M4, M5, M6, M8 [Ordering Code] QFC28-M4	Machines through hole on the side surface (KSC, KFC, KTC: 1mm Increment). *Minimum Thickness: 2mm Shape A: d+K+4≤KSC(KFC, KTC)≤E-(K+4) Shape B: d+K+4≤KSC(KFC, KTC)≤D-(K+4) *d=Z when the Shaft Bore Specifications is V. *Specify KC90 when selecting KFC for shaft bore specifications P, N and C. *When KTC is selected for shaft bore specifications P, N, C, KC90 is not available. *Not applicable to Shape K. *Not applicable to shaft bore specifications F or Y. *For shaft bore specifications P, N, C, KSC is not applicable. [K Through Hole Dia.] K4.0-K13.0 (0.5mm Increment) [Ordering Code] KSC20-K5
Price Adder			

Alterations	Hub Shortening	No Flange	Single Flange	Flange Cut	Tapped Hole Dimensions	Set Screw Length
Code	BC	NFC	RFC, LFC	FC	TPC	SLH
Spec.	Cuts the hub length in 0.5mm increment. *Shaft Bore Spec.: H, V, F: 3≤BC≤L-W *Shaft Bore Specs.: P, N, C: M+3≤BC≤L-W [Ordering Code] BC6.5 *Clear anodized products may not have surface treatment on machined hub surfaces. *Not applicable to Shape K and A.	Flange is not installed. (Flange Included)	Flange installed by swaging only on either hub side (RFC) or the opposite side (LFC) at the time of shipment. (Flange 1 pc. Included) *Same on Shape A. *Not applicable to Shape K.	Lowers flange by cutting. FC: 0.5mm increment *Not applicable to STP. *No surface treatment is applied on flange circumference. *FC≥(0. D.)+2 *FC≤F-2 [Ordering Code] FC22	Changes the tapped hole dimension. *Applicable to shaft bore specifications P, N, C only. *Not applicable to Shape A.	Changes the length of the included set screws. *Applicable to shaft bore specifications P, N, C only. *Not applicable to Shape A. [Set Screws] SLH [Ordering Code] SLH8
Price Adder						