

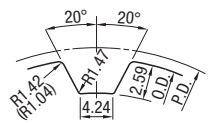
Timing Pulleys - H

■ For Timing Belts, see **P1497**. For Long Timing Belts, see **P1507**. For Keyless Timing Pulleys, see **P1463, 1464**. For Idlers with Teeth, see **P1481**.



RoHS10

Tooth Profile (ISO Standard Rack Dimensions)



(): 19 teeth or less.

Tooth groove dimensions slightly vary according to the number of teeth.

(Pitch: 12.7mm)

- ⚠ Aluminum flanges will have a thickness of 1.5.
- ⚠ 1. $t=2.0$ for 38-50 teeth. (Machined Flange)
- ⚠ 2. Shaft Bore Specs. H (Round hole), V or F (Stepped Hole), Y (Both Sides Stepped Hole) and WB (Two-stepped Hole) do not have tapped holes.

Number of Teeth / Dimension

mm	Number of Teeth																											
	14	15	16	17	18	19	20	21	22	24	25	26	28	30	32	34	36	38	40	42	44	48	50	60	72			
P.D.	56.60	60.64	64.68	68.72	72.77	76.81	80.85	84.89	88.94	97.01	101.06	105.11	113.19	121.28	129.36	137.45	145.53	153.62	161.70	169.79	177.87	194.04	202.13	242.55	291.06			
O.D.	55.22	59.27	63.31	67.35	71.39	75.44	79.48	83.52	87.56	95.65	99.69	103.73	111.82	119.90	127.99	136.07	144.16	152.24	160.33	168.41	176.50	192.67	200.76	241.18	289.69			
E	41	67	70	80	80	87	87	95	95	104	111	111	123	127	135	144	152	165	170	188	188	210	210	-	-			
F	65	50	56	60	60	67	67	75	75	84	90	90	102	105	115	125	130	140	148	150	150	180	180	215	216			

■ Belt Nominal Width / Dimension

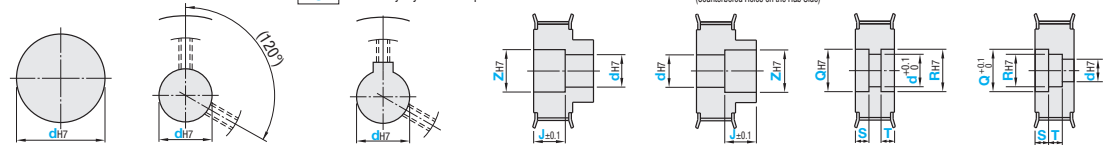
mm	Nominal				
	H075	H100	H150	H200	H300
A	21	27	40	54	80
W	26	32	45	59	85
L Number of Teeth 14-36	41	47	60	74	100
L Number of Teeth 38-60	-	53	65	-	-
L Number of Teeth 72	-	58	70	-	-

- **Shaft Bore Specs.** Select shaft bore spec mark and each dim. from the table below.

- ⚠ Surface treatment may not be applied to shaft bores.

- ⓈE dimensions in () are for Shape D.

- H** Round Hole
 P Round Hole + Tap
 N New JIS Keywayed Bore + Tap
 V Stepped Hole
 F Stepped Hole
 Y Both Ends Stepped Hole
 WB Two-stepped Hole
C Old JIS Keywayed Bore + Tap
 (Counterbored Holes on the Hub Side)



-  No tapped holes or set screws.
  For A-Shape pulley, the screw holes are set at around 120° to keep away from peaks.
  For Keyway Dimension Details, see **P.1413**.
  Not applicable to Shape D.
  No tapped holes or set screws.
  Applicable to Shape B only.
  No tapped holes or set screws.
  Applicable to Shape A only.
  Shift Bore Dia. d is $+0.1/0$.
  No tapped holes or set screws.
  Applicable to Shape A only.
  No tapped holes or set screws.

Part Number			Pulley Shape	Pulley Shape																			
Type	Number of Teeth	Type Nominal Width		Shaft Bore Specs. "A": 1mm Increments "B": Selectable										Shaft Bore Specs. "B, D": 1mm Increments "B": Selectable									
				Shaft Bore Specs.			"A": 1mm Increments			"B": Selectable				Shaft Bore Specs.			"B, D": 1mm Increments			"B": Selectable			
				H(d) Round Hole	P(d) Round Hole + Tap	N(d), C(d) Keyway + Tap	Stepped Hole			Both Ends Stepped Hole + Two-stepped Hole				H(d) Round Hole	P(d) Round Hole + Tap	N(d), C(d) Keyway + Tap	Stepped Hole						
			V(d)	Z	d=2 (0.1mm Increment)	Y W(d)	Q, R Q(R)-d=2	WB F(d)		S, T (0.1mm Increment)				V(d)	Z	d=2 (0.1mm Increment)							
Aluminum ATPA ATPB ATPK ATPN	14	H075 (Number of Teeth: Up to 36)	A	12-41	12-30	12-30	12-39	14-41	12-39	14-41				12-35	12-29	12-25	12-33	14-35					
	15			12-46	12-34	12-31	12-44	14-46	12-44	14-46				12-41	12-33	12-29	12-39	14-41					
	16			12-52	12-40	12-36	12-50	14-52	12-50	14-52				12-44	12-36	12-30	12-42	14-44					
	17			12-56	12-44	12-41	12-54	14-56	12-54	14-56				12-44	12-36	12-30	12-42	14-44					
	18			12-56	12-44	12-44	12-54	14-56	12-54	14-56				12-46	12-38	12-35	12-44	14-46					
	19			14-63	14-49	14-47	14-61	16-63	14-61	16-63				14-46	12-38	14-35	14-44	16-46					
	20			14-63	14-50	14-50	14-61	16-63	14-61	16-63				14-54	14-46	14-38	14-52	16-54					
	21			14-67	14-57	14-50	14-65	16-67	14-65	16-67				14-54	14-46	14-38	14-52	16-54					
	22			14-67	14-57	14-50	14-65	16-67	14-65	16-67				14-54	14-46	14-38	14-52	16-54					
	Steel ATPT ATP ATPP			24	H100 (Number of Teeth: Up to 36)	B	16-78	16-65	16-55	16-74	18-76	16-74	18-76				16-54	16-46	16-38	16-52	18-54		
25		16-80	16-70	16-55			16-80	18-82	16-80	18-82				16-59	16-49	16-41	16-57	18-59					
26		20-84	20-70	20-55			20-82	22-84	20-82	22-84				20-59	20-49	20-41	20-57	22-59					
28		20-85	20-70	20-55			20-83	22-84	20-83	22-84				20-59	20-49	20-41	20-57	22-59					
30		20-85	20-70	20-55			20-83	22-85	20-83	22-85				20-59	20-49	20-41	20-57	22-59					
32		20-85	20-70	20-55			20-83	22-95	20-83	22-95				20-59	20-49	20-43	20-57	22-59					
34		20-85	20-70	20-55			20-83	22-95	20-83	22-95				20-67	20-57	20-49	20-65	22-67					
36		20-85	20-70	20-55			20-83	22-95	20-83	22-95				20-67	20-57	20-49	20-65	22-67					
Steel ATPT ATP ATPP		38	H300 (Number of Teeth: Up to 36)	A			20-85	20-70	20-55	20-83	22-95	20-83	22-95				20-72	20-62	20-55				
		40					20-85	20-70	20-55	20-83	22-95	20-83	22-95				20-72	20-62	20-55				
	42	20-85			20-70	20-55	20-83	22-95	20-83	22-95				20-72	20-62	20-55							
	44	20-105			20-70	20-55	20-103	22-125	20-105	22-125				20-72	20-62	20-55							
	D	20-105		20-70	20-55	20-103	22-125	20-105	22-125				20-72	20-62	20-55								
		20-105		20-70	20-55	20-103	22-125	20-105	22-125				20-72	20-62	20-55								
		20-105		20-70	20-55	20-103	22-125	20-105	22-125				20-72	20-62	20-55								
		20-105		20-70	20-55	20-103	22-125	20-105	22-125				20-72	20-62	20-55								
60	D	-	-	-	-	-	-	-	-				25-72	25-62	25-55	-	-						
72		-	-	-	-	-	-	-	-				25-72	25-62	25-55	-	-						

⊗ Shaft Bore Dia. 9, 51~54 are not available for Shaft Bore Specs. N. ⊗ Shaft Bore Dia. 13, 14, 17 or 21 ~ 55 are not available for Shaft Bore Specs. C.



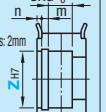
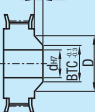
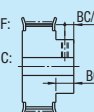
Part Number	Pulley Shape	Shaft Bore Specs., I.D.	Z	J	Q	R	S	T
(Shaft Bore Specs.: H, P, N, C) ATP18H150	B	N20						
(Shaft Bore Specs.: V, F) ATP20H100	A	V20	- Z38	- J23.0				
(Shaft Bore Specs.: Y, WB) ATP20H150	A	Y25			- Q42	- R42	- S9	- T9

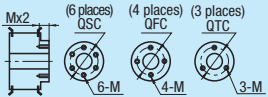
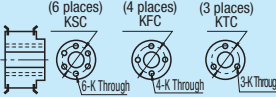
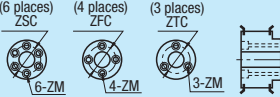
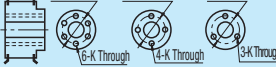
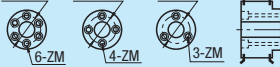
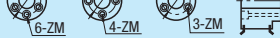
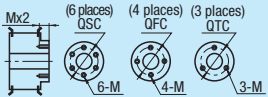
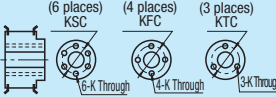
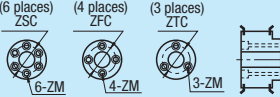
🔍 For e-Catalog non-standard products, see 📄 P.131.

[illegible]

 **Part Number** - **Pulley Shape** - **Shaft Bore Spec., I.D.** - **Z** - **J** - **Q** - **R** - **S** - **T** - (KC90...etc.)
ATP18H150 - B - H20 - - - - - KSC30 -

Alterations	Set Screw Angle	No Flange Swaged	Single Flange	Flange Cut
Code	KC90	NFC	RFC, LFC	FC
Spec.	Changes an angle of set screw to 90. ⚠ For A-Shape pulley, the screw holes are set at around 90° to keep away from peaks. 	(Flange 2 pcs. Included) ⚠ Ordering Code NFC ⚠ Not applicable to Shape D. 	(Flange 1 pc. Included) ⚠ Ordering Code RFC ⚠ Not applicable to Shape D. RFC  LFC 	Cut the flange O.D. in 0.5mm increment. ⚠ Ordering Code FC17 ⚠ Application Notes ⚠ FC≥(O. D.)÷1 ⚠ FC≤F-2 ⚠ No surface treatment is applied on flange circumference. ⚠ Not applicable to Shape D. 

Alterations	Retaining Ring Groove	Adds taper for retaining bearing	Hub Shortening	Tapped Hole Dimensions	Changes the length of the included set screws																								
Code	SRG	BTC	BC	TPC	SLH																								
Spec.	Retaining Ring Groove applicable to the shaft dia. of stepped hole is machined. Retaining Ring Groove Dim. SRG P1413 (Specify SRG) 2.5–91.5mm 0.5mm Increments Application Notes - Minimum Thickness: 2mm - Applicable to Shaft Bore Specs. V and F only. - Standards of retaining ring groove for Z dim. is applied. - n≤J-SRG-m Ordering Code SRG7 	Add taper for retaining bearing inner ring Ordering Code BTC72-TL1.5 Application Notes - Applicable to Shape A only. - Applicable to Shaft Bore Specs. H and P holes only. - TL<L-W 	Cuts the hub length in 0.5mm increment. Ordering Code BC6.5 Application Notes - Shaft Bore Specs.H, V, F: 3≤BC<L-W - Shaft Bore Specs.P, N, C: M+3≤BC<L-W - Not applicable to Shapes A and D. 	Ordering Code TPC5 Application Notes Applicable to Shaft Bore Specs. P, N, C only. <table><tr><th>M</th><th>TPC</th></tr><tr><td>M4</td><td>M5</td></tr><tr><td>M5</td><td>M4, M6</td></tr><tr><td>M6</td><td>M5, M8</td></tr><tr><td>M8</td><td>M6, M10</td></tr><tr><td>M10</td><td>M8</td></tr></table>	M	TPC	M4	M5	M5	M4, M6	M6	M5, M8	M8	M6, M10	M10	M8	Ordering Code SLH10 Application Notes Applicable to Shaft Bore Specs. P, N, C only. <table><tr><th>Set Screws</th><th>SLH</th></tr><tr><td>M4x3</td><td>5, 8</td></tr><tr><td>M5x4</td><td>6, 10</td></tr><tr><td>M6x5</td><td>10</td></tr><tr><td>M8x6</td><td>10, 12</td></tr><tr><td>M10x8</td><td>12, 15</td></tr></table>	Set Screws	SLH	M4x3	5, 8	M5x4	6, 10	M6x5	10	M8x6	10, 12	M10x8	12, 15
	M	TPC																											
	M4	M5																											
	M5	M4, M6																											
M6	M5, M8																												
M8	M6, M10																												
M10	M8																												
Set Screws	SLH																												
M4x3	5, 8																												
M5x4	6, 10																												
M6x5	10																												
M8x6	10, 12																												
M10x8	12, 15																												
For details, see Shaft Alteration Overview. SRG P1414																													

Alterations	Add Side Holes			Conditions may vary depending on the shaft bore specs. P1414		
	Side Tapped Hole	Side Through Hole	Side Counterbored			
Code	QTC, QFC, QSC	KTC, KFC, KSC	ZTC, ZFC, ZSC			
Spec.	Machines tapped hole on the side surface of hub side. Ordering Code QTC28-M4 Z C Selection Specify the hole position (P. C. D. dim.). M Selection M3, M4, M5, M6, M8 Application Notes ⊗ Not applicable to Shape D. ⚙ Minimum Thickness: 2mm Formula P1414 ⚙ Conditions may vary depending on the shaft bore specs. P1414	Machines through hole on the side surface. Ordering Code KTC28-K4.5 K C Selection Specify the hole position (P. C. D. dim.). K Code K4.0 ~ 13.0 (0.5mm Increments) Application Notes ⊗ Not applicable to Shape D. ⚙ Minimum Thickness: 2mm Formula P1414 ⚙ Conditions may vary depending on the shaft bore specs. P1414	Machines counterbored hole on the side surface. Ordering Code ZTC28-Z4 Z C Selection Specify the hole position (P. C. D. dim.). Z Selection ZM3, ZM4, ZM5, ZM6, ZM8 Application Notes ⊗ Not applicable to Shape D. ⚙ Minimum Thickness: 2mm Formula P1414 ⚙ Conditions may vary depending on the shaft bore specs. P1414			
						
						
						
						

For details, see Shaft Alteration Overview. **P1414**