

Timing Pulleys -L-

-Pitch:0.375"-



These Timing Pulleys are for use with L standard Timing Belts with 0.375 inch tooth pitch, in 1/2 inch, 3/4 inch, or 1.0 inch width belts. The pulleys are available in high strength 7075 aluminum and steel. We offer various configuration and modification options so the pulleys are ready to use when they arrive. See P.309 for matching Timing Belts. See application examples on P.292.



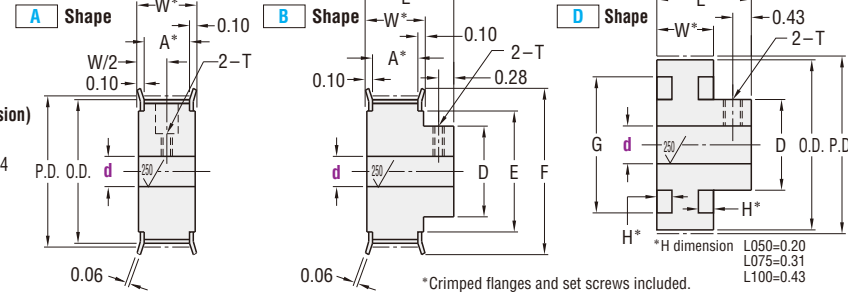
U-ATPA L050
L075
L100

U-ATP L050
L075
L100

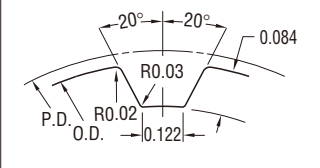
Material		Surface Treatment	Type
Pulley	Flange		
7075 Aluminum	5052 Aluminum	Clear Anodizing	U-ATPA
1045 Steel	Cold Rolled Steel	Black Oxide	U-ATP

Material Characteristics P.628, 629

Pulley Shapes

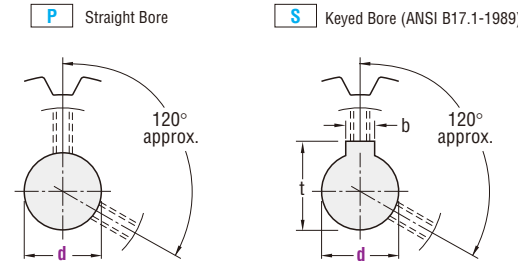


Tooth Shape (ISO Standard Rack Dimension)



Bore Configurations

Bore may not be plated.



※ In case of shape A pulleys, the set screw holes are angled at approx. 120° in order to avoid peaks.

P Straight Bore

Callout	d (Bore Diameter)				T (Set Screw Size)
	Nominal	Tolerance	Nominal	Tolerance	
0.25	1/4	0.2506	0.2500	0.2500	#8-32
0.31	5/16	0.3131	0.3125	0.3125	#8-32
0.38	3/8	0.3756	0.3750	0.3750	#8-32
0.50	1/2	0.5007	0.5000	0.5000	#8-32
0.63	5/8	0.6257	0.6250	0.6250	#10-32
0.75	3/4	0.7508	0.7500	0.7500	#10-32
0.88	7/8	0.8758	0.8750	0.8750	1/4-20
1.00	1"	1.0008	1.0000	1.0000	1/4-20

S Keyed Bore

d	Width	b	Tolerance	Height	t	Tolerance	Applicable Square Key Size*
0.31	3/32	0.094	0.096	0.352	0.352	0.362	3/32
0.38	3/32	0.094	0.096	0.416	0.416	0.426	3/32
0.50	1/8	0.125	0.127	0.560	0.560	0.570	1/8
0.63	3/16	0.188	0.190	0.709	0.709	0.719	3/16
0.75	3/16	0.188	0.190	0.837	0.837	0.847	3/16
0.88	3/16	0.188	0.190	0.964	0.964	0.974	3/16
1.00	1/4	0.250	0.252	1.114	1.114	1.124	1/4

Keyed bore is not available for d = 0.25

*ANSI B17.1-1989

Type	Part No.	Number of Teeth	Belt Type & Width	Pulley Shapes	Bore Configurations	Bore Diameter Selection (Pulley Shape A)															
						1/4	5/16	3/8	1/2	5/8	3/4	7/8	1"	1/4	5/16	3/8	1/2	5/8	3/4	7/8	1"
U-ATPA	10	12	L050	A B	P Straight bore with 2 set screws at 120 deg.	0.25	0.31	0.38	0.50	0.63	0.75	0.88	1.00	0.25	0.31	0.38	0.50	0.63	0.75	0.88	1.00
	12	14	L050, L075	A B		0.31	0.38	0.50	0.63	0.75	0.88	1.00	0.31	0.38	0.50	0.63	0.75	0.88	1.00		
	14	15	L050	A B		0.31	0.38	0.50	0.63	0.75	0.88	1.00	0.31	0.38	0.50	0.63	0.75	0.88	1.00		
	15	16	L050	A B		0.31	0.38	0.50	0.63	0.75	0.88	1.00	0.31	0.38	0.50	0.63	0.75	0.88	1.00		
	16	17	*A: 0.551	A B		0.50	0.63	0.75	0.88	1.00	0.50	0.63	0.75	0.88	1.00	0.50	0.63	0.75	0.88	1.00	
	17	18	*W: 0.748	A B		0.50	0.63	0.75	0.88	1.00	0.50	0.63	0.75	0.88	1.00	0.50	0.63	0.75	0.88	1.00	
	18	19	*L: 1.220	A B		0.50	0.63	0.75	0.88	1.00	0.50	0.63	0.75	0.88	1.00	0.50	0.63	0.75	0.88	1.00	
	19	20		A B		0.50	0.63	0.75	0.88	1.00	0.50	0.63	0.75	0.88	1.00	0.50	0.63	0.75	0.88	1.00	
	20	21		A B		0.50	0.63	0.75	0.88	1.00	0.50	0.63	0.75	0.88	1.00	0.50	0.63	0.75	0.88	1.00	
	21	22		A B		0.50	0.63	0.75	0.88	1.00	0.50	0.63	0.75	0.88	1.00	0.50	0.63	0.75	0.88	1.00	
U-ATP	22	24	L075	A B	S ANSI Std. Keyed bore with 2 set screws at 120 deg.	0.50	0.63	0.75	0.88	1.00	0.50	0.63	0.75	0.88	1.00	0.50	0.63	0.75	0.88	1.00	
	24	25	L075	A B		0.50	0.63	0.75	0.88	1.00	0.50	0.63	0.75	0.88	1.00	0.50	0.63	0.75	0.88	1.00	
	25	26	*A: 0.827	A B		0.50	0.63	0.75	0.88	1.00	0.50	0.63	0.75	0.88	1.00	0.50	0.63	0.75	0.88	1.00	
	26	28	*W: 1.024	A B		0.50	0.63	0.75	0.88	1.00	0.50	0.63	0.75	0.88	1.00	0.50	0.63	0.75	0.88	1.00	
	28	30	*L: 1.496	A B		0.50	0.63	0.75	0.88	1.00	0.50	0.63	0.75	0.88	1.00	0.50	0.63	0.75	0.88	1.00	
	30	32		A B		0.50	0.63	0.75	0.88	1.00	0.50	0.63	0.75	0.88	1.00	0.50	0.63	0.75	0.88	1.00	
	32	34		A B		0.50	0.63	0.75	0.88	1.00	0.50	0.63	0.75	0.88	1.00	0.50	0.63	0.75	0.88	1.00	
	34	36		A B		0.50	0.63	0.75	0.88	1.00	0.50	0.63	0.75	0.88	1.00	0.50	0.63	0.75	0.88	1.00	
	36	38	L100	A B		0.50	0.63	0.75	0.88	1.00	0.50	0.63	0.75	0.88	1.00	0.50	0.63	0.75	0.88	1.00	
	38	40	*A: 1.063	A B		0.50	0.63	0.75	0.88	1.00	0.50	0.63	0.75	0.88	1.00	0.50	0.63	0.75	0.88	1.00	
40	42	*W: 1.260	A B	0.50	0.63	0.75	0.88	1.00	0.50	0.63	0.75	0.88	1.00	0.50	0.63	0.75	0.88	1.00			
42	44	*L: 1.732	A B	0.50	0.63	0.75	0.88	1.00	0.50	0.63	0.75	0.88	1.00	0.50	0.63	0.75	0.88	1.00			
44	46		A B	0.50	0.63	0.75	0.88	1.00	0.50	0.63	0.75	0.88	1.00	0.50	0.63	0.75	0.88	1.00			
46	48		A B	0.50	0.63	0.75	0.88	1.00	0.50	0.63	0.75	0.88	1.00	0.50	0.63	0.75	0.88	1.00			
48	50		A B	0.50	0.63	0.75	0.88	1.00	0.50	0.63	0.75	0.88	1.00	0.50	0.63	0.75	0.88	1.00			
50	60		D	0.75	0.88	1.00	0.75	0.88	1.00	0.75	0.88	1.00	0.75	0.88	1.00	0.75	0.88	1.00			
60	72		D	0.75	0.88	1.00	0.75	0.88	1.00	0.75	0.88	1.00	0.75	0.88	1.00	0.75	0.88	1.00			

Order Example: The part number consists only of the fields with blue characters. Please refer to the table below for technical information.

Part No. Pulley Shapes Bore Config. + d

Type Number of Teeth Belt Type & Width

U-ATP 20 L075 A P 1.00

For compatible Timing Belts, refer to P.309.

Technical Information

Number of Teeth	P.D. (Pitch Diameter)	O.D. (Outer Diameter)	D		F		E		G	
			Inch	mm	Inch	mm	Inch	mm	Inch	mm
10	1.194	1.164	0.87	22	1.42	36	0.94	24	-	-
12	1.432	1.402	1.06	27	1.77	45	1.18	30	-	-
14	1.671	1.641	1.18	30	1.89	48	1.38	35	-	-
15	1.790	1.760	1.18	30	1.89	48	1.38	35	-	-
16	1.910	1.880	1.26	32	2.17	55	1.57	40	-	-
17	2.029	1.999	1.34	34	2.17	55	1.57	40	-	-
18	2.149	2.119	1.42	36	2.40	61	1.77	45	-	-
19	2.268	2.238	1.50	38	2.64	67	1.97	50	-	-
20	2.387	2.357	1.57	40	2.64	67	1.97	50	-	-
21	2.507	2.477	1.65	42	2.76	70	2.20	56	-	-
22	2.626	2.596	1.77	45	3.15	80	2.36	60	-	-
24	2.865	2.835	1.97	50	3.43	87	2.64	67	-	-
25	2.984	2.954	1.97	50	3.43	87	2.64	67	-	-
26	3.104	3.074	1.97	50	3.43	87	2.64	67	-	-
28	3.342	3.312	1.97	50	3.74	95	2.95	75	-	-
30	3.581	3.551	2.20	56	3.90	99	3.15	80	-	-
32	3.820	3.790	2.20	56	4.09	104	3.31	84	-	-
34	4.058	4.028	2.48	63	4.37	111	3.54	90	-	-
36	4.297	4.267	2.48	63	4.84	123	4.02	102	-	-
38	4.536	4.506	2.48	63	5.00	127	4.13	105	-	-
40	4.775	4.745	2.48	63	5.16	131	4.33	110	-	-
42	5.013	4.983	2.80	71	5.31	135	4.53	115	-	-
44	5.252	5.222	2.80	71	5.51	140	4.72	120	-	-
46	5.491	5.461	2.80	71	5.67	144	4.92	125	-	-
48	5.730	5.700	2.80	71	5.98	152	5.12	130	-	-
50	5.969	5.939	2.80	71	6.30	160	5.51	140	-	-
60	7.162	7.132	2.80	71	-	-	-	-	6.30	160
72	8.594	8.564	2.80	71	-	-	-	-	7.76	197

Bore Selection Table

Callout	Nominal	Pore	
		Straight Bore	Keyed Bore
0.25	1/4	○	N/A
0.31	5/16	○	○
0.38	3/8	○	○
0.50	1/2	○	○
0.63	5/8	○	○
0.75	3/4	○	○
0.88	7/8	○	○
1.00	1"	○	○

Days to Ship: Standard 6 Days, Express 4 Days (Specify Express A) \$8.00/piece P.30

Optional Modifications: Part No. Pulley Shapes Bore Config. + d (Ordering Code) (NFC, MTC, KC90)

Optional Modifications: Set Screw Angle Modification (KC90), Disassembled Flanges (NFC), Surface Treatment Modification (MTC)

Price: Quantity Discount Rate table

When using Optional Modifications, add the "Price Adder" to the standard "Unit Price".

Number of Teeth	U-ATPA Main Body with P Bore: \$ Price (Qty. 1-4)						U-ATP Main Body with P Bore: \$ Price (Qty. 1-4)						\$ Bore Config. Price Adder
	L050		L075		L100		L050		L075		L100		
	A Shape	B Shape	A Shape	B Shape	A Shape	B Shape	A Shape	B, D Shapes	A Shape	B, D Shapes	A Shape	B, D Shapes	
10	36.20	41.80	-	-	-	-	35.10	40.10	-	-	-	4.10	
12	37.70	42.40	40.60	46.80	-	-	36.20	40.10	38.80	44.00	-	4.10	
14	38.60	43.80	42.00	48.90	47.10	53.60	36.70	41.00	39.40	45.40	44.10	4.50	
15	39.00	44.50	42.50	49.70	47.70	54.50	36.70	41.00	39.40	45.40	44.10	4.50	
16	40.70	46.70											