


High Torque Timing Pulleys - 1.5GT, 2GT

For 2GT High Torque Timing Belts, see **P.1493**. For 2GT Idlers with Teeth, see **P.1487**. For 1.5GT High Torque Timing Belts, see VONA website.

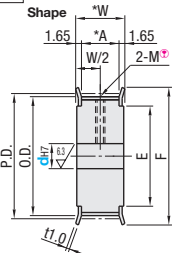


RoHS 10

Type	Belt Width				Material*		Surface Treatment	Accessory* Set Screws
	4mm	6mm	9mm	12mm	Pulley	Flange		
GPA	GT15040	GT2040	GT2060	GT2090	Aluminum Alloy	Aluminum Alloy	Clear Anodize	SUS304

* The above material and accessory might be changed to the ones equivalent to the originals.
 † Flange is already swaged, and set screws are included with for Shaft Bores P and N.

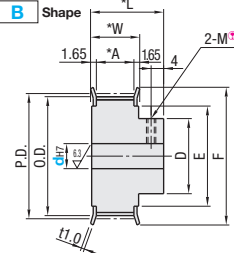
• Pulley Shape **A**



Shape "W" 1.65 "A" 1.65 W/2 2-M†

P.D. O.D. E L

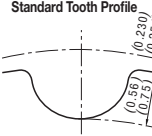
• Pulley Shape **B**



Shape "L" "W" "A" 1.65 1.65 4 2-M†

P.D. O.D. E L

Standard Tooth Profile



Tooth groove dimensions slightly vary according to the number of teeth.
Top (Pitch: 1.5mm)
Bottom (Pitch: 2.0mm)

† Shaft Bore Specs. H (Round Hole) do not have tapped holes.

• Number of Teeth, Dimension: 1.5GT

mm	Number of Teeth				
	18	20	24	30	36
P.D.	8.59	9.55	11.46	14.32	17.19
O.D.	8.13	9.09	11.00	13.86	16.73
D	-	-	-	8	10
F	13	14	16	18	22
E	6	7	8	10	13

• Belt Nominal Width / Dimension

mm	Nominal			
	GT15040	GT2040	GT2060	GT2090
A	5.0	5.0	7.0	10.0
W	8.3	8.3	10.3	13.3
L	16.0	16.0	18.0	21.0

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

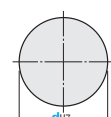
dH7	M (Coarse)	Accessory Set Screws
5	M3	M3x3
6-22	M4	M4x3

• Number of Teeth, Dimension: 2GT

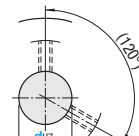
mm	Number of Teeth																				
	14	15	16	18	20	21	22	24	25	26	28	30	32	34	36	38	40	44	48	50	60
P.D.	8.91	9.55	10.19	11.46	12.73	13.37	14.01	15.28	15.92	16.55	17.83	19.10	20.37	21.65	22.92	24.19	25.46	28.01	30.56	31.83	38.20
O.D.	8.40	9.04	9.68	10.95	12.22	12.86	13.50	14.77	15.41	16.04	17.32	18.59	19.86	21.14	22.41	23.68	24.95	27.50	30.05	31.32	37.69
D	-	-	-	-	-	-	8	10	10	10	11	13	14	14	16	17	19	22	22	22	28
F	13	14	14	16	17	18	18	20	20	21	23	24	25	27	27	29	30	32	35	36	42
E	6	7	7	8	9	10	10	12	12	12	14	15	17	18	18	20	21	23	26	27	33

• Shaft Bore Specs. Select shaft bore spec mark and d dim. from the table below. † Surface treatment may not be applied to shaft bores.

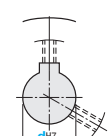
H Round Hole



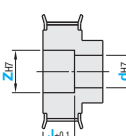
P Round Hole + Tap



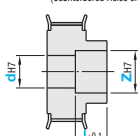
N New JIS Keywayed Bore + Tap



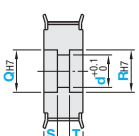
V Stepped Hole



F Stepped Hole
(Counterbored Holes on the Hub Side)



Y Both Ends Stepped Hole



- † No tapped holes or set screws. † Shaft Bore Dia. 4.5 and 6.35 are selectable when the shaft bore dim. d is within the selection range.
- † Shaft Bore Dia. 6.35 is selectable when the shaft bore dim. d is within the selection range.
- † For Keyway Dimension Details, see P.1413. Specify NK10 when selecting "New JIS Keywayed Bore" + "Shaft Bore Dia. 10" + "Keyway Width 4.0mm".
- † No tapped holes or set screws. † Shaft Bore Dia. 6.35 is selectable when the shaft bore dim. d is within the selection range.
- † Applicable to Shape B only. † No tapped holes or set screws. † Shaft Bore Dia. 6.35 is selectable when the shaft bore dim. d is within the selection range.
- † Applicable to Shape A only. † Shaft Bore Dia. d is +0.1 / 0 † No tapped holes or set screws.

• 1.5GT

Type	Part Number	Number of Teeth	Type, Nominal Width	Pulley Shape	Pulley Shape					
					A		B			
					Shaft Bore Specs. d (Selection)		Shaft Bore Specs. d (Selection)			
Aluminum GPA	GT15040	18	4	A	H Round Hole	P Round Hole + Tap	N Keyway + Tap	H Round Hole	P Round Hole + Tap	
		20			3	-	-	-		
		24			3, 4	-	-	-		
		30			4, 4.5, 5, 6	5	-	-		
		36			4, 4.5, 5, 6	5, 6	4	5, 6		
Aluminum GPA	GT2040	24	6	A	H Round Hole	P Round Hole + Tap	N Keyway + Tap	H Round Hole	P Round Hole + Tap	
		25			4	5, 6, 7, 8	-	-	-	
		26			5	6, 7, 8	-	-	-	
		28			5, 6	7, 8	-	-	-	
		30			5, 6, 7, 8	-	-	-	-	
		32			5, 6, 7, 8	8	-	5, 6, 6.35, 7, 8	5, 6, 6.35, 7, 8	
	Aluminum GPA	GT2060	24	6	B	H Round Hole	P Round Hole + Tap	N Keyway + Tap	H Round Hole	P Round Hole + Tap
			25			4	5, 6, 7, 8	-	-	-
			26			5	6, 7, 8	-	-	-
			28			5, 6	7, 8	-	-	-
			30			5, 6, 7, 8	-	-	-	-
			32			5, 6, 7, 8	8	-	5, 6, 6.35, 7, 8	5, 6, 6.35, 7, 8

• 2GT

Type	Part Number	Number of Teeth	Type, Nominal Width	Pulley Shape	Pulley Shape														
					A						B								
					Shaft Bore Specs. "": 1mm Increments "": Selectable						Shaft Bore Specs. "": 1mm Increments "": Selectable								
Aluminum GPA	GT2040	14	6	A	V Stepped Hole						Y Both Sides Stepped Hole								
		H (t) Round Hole			P (t) Round Hole + Tap See Below †	N (t) Keyway + Tap See Below †	V (t) Stepped Hole	Z Z-ds2 (t) (1mm Increment)	J (t) (1mm Increment)	Y (t) Both Sides Stepped Hole	Q (R) Y-s2 (t) (1mm Increment)	S, T Keyway + Tap See Below †	H (t) Round Hole	P (t) Round Hole + Tap See Below †	N (t) Keyway + Tap See Below †	V, F (t) Stepped Hole	Z Z-ds2 (t) (1mm Increment)	J (t) (1mm Increment)	
		15			3	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		16			3, 4	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		18			3, 4	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		18			4, 4.5, 5	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		20			4, 4.5, 5, 6	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		21			4-6	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		22			4-6	-	-	-	4	6	4	6	4	6	4	6	4	6	4
		24			5-8	-	-	-	5, 6	7, 8	5, 6	7, 8	5, 6	7, 8	5, 6	7, 8	5, 6	7, 8	5, 6
	25	5-8	-	-	-	5, 6	7, 8	5, 6	7, 8	5, 6	7, 8	5, 6	7, 8	5, 6	7, 8	5, 6			
	26	5-8	-	-	-	5, 6	7, 8	5, 6	7, 8	5, 6	7, 8	5, 6	7, 8	5, 6	7, 8	5, 6			
	28	5-10	-	-	-	5-8	7-10	5-8	7-10	5-8	7-10	5-8	7-10	5-8	7-10	5-8			
	30	5-11	-	-	-	5-9	7-11	5-9	7-11	5-9	7-11	5-9	7-11	5-9	7-11	5-9			
	32	5-13	5-10	-	-	5-11	7-13	5-11	7-13	5-11	7-13	5-11	7-13	5-9	5, 6	5-7	7-9		
	34	6-14	6-10	-	-	6-12	8-14	6-12	8-14	6-12	8-14	6-12	8-14	6-10	6-8	6-8	8-10		
	36	6-14	6-10	-	-	6-12	8-14	6-12	8-14	6-12	8-14	6-12	8-14	6-10	6-8	6-8	8-10		
	38	6-16	6-10	8	-	6-14	8-16	6-14	8-16	6-14	8-16	6-14	8-16	6-12	6-8	6-10	8-12		
	40	6-17	6-12	8, 10	-	6-15	8-17	6-15	8-17	6-15	8-17	6-15	8-17	6-13	6-10	6-11	8-13		
	44	6-19	6-13	8-11	-	6-17	8-19	6-17	8-19	6-17	8-19	6-17	8-19	6-15	6-12	6-13	8-15		
48	8-22	8-15	8-13	-	8-20	10-22	8-20	10-22	8-20	10-22	8-20	10-22	8-18	8-12	8	8-16	10-18		
50	8-23	8-16	8-14	-	8-21	10-23	8-21	10-23	8-21	10-23	8-21	10-23	8-18	8-12	8	8-16	10-18		
60	8-29	8-22	8-19	-	8-27	10-29	8-27	10-29	8-27	10-29	8-27	10-29	8-24	8-22	8-14	8-22	10-24		

† Shaft Bore Dia. 9 is not available for Shaft Bore Specs. N. † Shaft Bore Dia. 6.35 is selectable for Shaft Bore Specs. H, P, V and F.