

High Torque Timing Pulleys - 1.5GT, 2GT

Compatible with 1.5GT and 2GT Types
from Gates Unitta Asia Company.

For 2GT High Torque Timing Belts, see **P.1459** and for 2GT Idlers with Teeth, see **1453**. For 1.5GT High Torque Timing Belts, see the VONA Site.



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.

• Pulley Shape

Shape A

Shape B

■ Number of Teeth, Dimension: 1.5GT

mm	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	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)

mm	M	Accessory Set Screws
5	M3	M3x3
6-22	M4	M4x3

■ Number of Teeth, Dimension: 2GT

mm	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	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	29	30	32	35	36	42	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. Surface treatment may not be applied to shaft bores.

H Round Hole

P Round Hole + Tap

N New JIS Keywayed Bore + Tap

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 **P1377**. When selecting the shaft bore dia. 10 and the keyway width 4.0mm (height 1.8mm), specify **NK10**.

1.5GT								
Part Number			Pulley Shape	Pulley Shape				
Type	Number of Teeth	Type Nominal Width		A		B		
				Shaft Bore Specs. (Selection)		Shaft Bore Specs. (Selection)		
			H Round Hole	P Round Hole + Tap	N: Keyway + Tap	H Round Hole	P Round Hole + Tap	N: Keyway + Tap
Aluminum GPA	18	GT15040	A	3	-	-	-	-
	20			3, 4	-	-	-	
	24			4, 4.5, 5	5	-	-	
	30			4, 4.5, 5, 6	5, 6	-	-	
	36		5, 6, 6.35, 7, 8	5, 6, 6.35, 7, 8	8	5, 6, 6.35, 7, 8	5, 6, 6.35, 7, 8	8
2GT								
Part Number			Pulley Shape	Pulley Shape				
Type	Number of Teeth	Type Nominal Width		A		B		
				Shaft Bore Specifications (-): Specify in 1mm Increment, (): Select the former or latter		Shaft Bore Specifications (-): Specify in 1mm Increment, (): Select the former or latter		
			H Round Hole	P Round Hole + Tap	N: Keyway + Tap	H Round Hole	P Round Hole + Tap	N: Keyway + Tap
Aluminum GPA	14	GT2040	A	3	-	-	-	-
	15			3, 4	-	-	-	
	16			3, 4	-	-	-	
	18			4, 4.5, 5	-	-	-	
	20			4, 4.5, 5, 6	-	-	-	
	21			4-6	-	-	-	
	22		4-6	-	-	-		
	24		5, 6, 6.35, 7	-	-	-		
	25		5, 6, 6.35, 7	-	-	-		
	26		5, 6, 6.35, 7, 8	-	-	-		
	28	5, 6, 6.35, 7, 8	-	-	-			
	30	5, 6, 6.35, 7, 8	-	-	-			
	32	5, 6, 6.35, 7-10	5, 6, 6.35, 7-10	-	-	-		
	34	6, 6.35, 7-10	6, 6.35, 7-10	-	-	-		
	36	6, 6.35, 7-10	6, 6.35, 7-10	-	-	-		
	38	6, 6.35, 7-10	6, 6.35, 7-10	8	6, 6.35, 7-10	6, 6.35, 7, 8		
	40	6, 6.35, 7-12	6, 6.35, 7-12	8, 10, NK10	6, 6.35, 7-13	6, 6.35, 7-10		
	44	6, 6.35, 7-15	6, 6.35, 7-13	8, 10, NK10, 11	6, 6.35, 7-15	6, 6.35, 7-12		
	48	8-17	8-15	8, 10, NK10, 11-13	8-16	8-12	8	
	50	8-17	8-16	8, 10, NK10, 11-14	8-16	8-12	8	
60	8-24	8-22	8, 10, NK10, 11-19	8-24	8-22	8, 10, NK10, 11-14		

Ordering Example: Part Number - Pulley Shape - Shaft Bore Specs., I.D.
GPA32GT2060 - A - H8

Number of Teeth	Body Price								Shaft Bore Machining Charge (Body Price +)			
	2000 Series Aluminum Alloy (Clear Anodize)											
	GT15040		GT2040		GT2060		GT2090		1.5GT		2GT	
	Shape A	Shape B	Shape A	Shape B	Shape A	Shape B	Shape A	Shape B	P Hole	N Hole	P Hole	N Hole
14	-	-	-	-	-	-	-	-	-	-	-	-
15	-	-	-	-	-	-	-	-	-	-	-	-
16	-	-	-	-	-	-	-	-	-	-	-	-
18	-	-	-	-	-	-	-	-	-	-	-	-
20	-	-	-	-	-	-	-	-	-	-	-	-
21	-	-	-	-	-	-	-	-	-	-	-	-
22	-	-	-	-	-	-	-	-	-	-	-	-
24	-	-	-	-	-	-	-	-	-	-	-	-
25	-	-	-	-	-	-	-	-	-	-	-	-
26	-	-	-	-	-	-	-	-	-	-	-	-
28	-	-	-	-	-	-	-	-	-	-	-	-
30	-	-	-	-	-	-	-	-	-	-	-	-
32	-	-	-	-	-	-	-	-	-	-	-	-
34	-	-	-	-	-	-	-	-	-	-	-	-
36	-	-	-	-	-	-	-	-	-	-	-	-
38	-	-	-	-	-	-	-	-	-	-	-	-
40	-	-	-	-	-	-	-	-	-	-	-	-
44	-	-	-	-	-	-	-	-	-	-	-	-
48	-	-	-	-	-	-	-	-	-	-	-	-
50	-	-	-	-	-	-	-	-	-	-	-	-
60	-	-	-	-	-	-	-	-	-	-	-	-

Alterations Part Number - Pulley Shape - Shaft Bore Specs., I.D. - (KC90...etc.)
GPA32GT2060 - A - H8 - NFC

Alterations	Set Screw Angle	No Flange	Single Flange	Flange Cut	Hub Shortening
Code	KC90	NFC	RFC, LFC	FC	BC
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	(Flange 1 pc. Included) Ordering Code RFC	Cut the flange O.D. in 0.5mm increment. Ordering Code FC17 Application Notes FCz(0. D.)+1 FCzF-2 No surface treatment is applied on flange circumference.	Cuts the hub length in 0.5mm increment. Ordering Code BC6.5 Application Notes Shaft Bore Specs. H: 3≤BC≤L-W Shaft Bore Specs. P, N: M+3≤BC≤L-W Not available for Shape A.

Alterations	Side Through Hole / Side Tapped Hole, 3 places	Side Through Hole / Side Tapped Hole, 4 places	Side Through Hole / Side Tapped Hole, 6 places
Code	KTC, QTC	KFC, QFC	KSC, QSC
Spec.	Machine Through Hole / Tapped Hole on the side surface of hub side Ordering Code (Through Hole) KTC20-K5.0 Ordering Code (Tapped Hole) QTC28-M4 Selection (Through Hole) K Selection K4.0-K8.0 (0.5mm Increment) Selection (Tapped Hole) M Selection M3, M4, M5, M6, M8 Application Notes When KTC/QTC is selected for Shaft Bore Specs. P and N, KC90 is not available. Not available for 1.5GT	Machine Through Hole / Tapped Hole on the side surface of hub side Ordering Code (Through Hole) KFC20-K5.0 Ordering Code (Tapped Hole) QFC28-M4 Selection (Through Hole) K Selection K4.0-K8.0 (0.5mm Increment) Selection (Tapped Hole) M Selection M3, M4, M5, M6, M8 Application Notes Specify KC90 when selecting KFC/QFC for Shaft Bore Specs. P, N and C. Side holes and tooth side tapped holes might interfere with each other. For details, see the relevant CAD data. Not available for 1.5GT	Machine Through Hole / Tapped Hole on the side surface of hub side Ordering Code (Through Hole) KSC20-K5.0 Ordering Code (Tapped Hole) QSC28-M4 Selection (Through Hole) K Selection K4.0-K8.0 (0.5mm Increment) Selection (Tapped Hole) M Selection M3, M4, M5, M6, M8 Application Notes KSC/QSC is not applicable to the Shaft Bore Specs. P and N. Not available for 1.5GT

For details, see the "Timing Pulley Alterations - Overview" section (P.1378).

Performance Comparison between MXL and 2GT Belts

