

# High Torque Timing Pulleys - 5GT

Compatible with 5GT Type from Gates Unitta Asia Company.

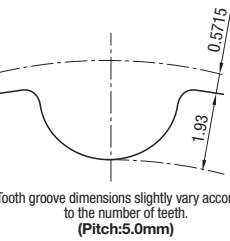
For Super High Torque Timing Belts (compatible with EV5GT belts), see **P.1461** and for Idlers with Teeth, see **P.1453**



Type	Belt Width			Material*		Surface Treatment	Accessory* Set Screws
	9mm	12mm	15mm	Pulley	Flange		
GPA	●	●	●	EN AW-2017 Equiv.	Aluminum Alloy	Clear Anodize	EN 1.4301 Equiv.
GPT	●	●	●	EN 1.1191 Equiv.	EN 1.0330 Equiv.	-	Chrome Molybdenum Steel (Black Oxide)
GPM	●	●	●	EN 1.1191 Equiv.	EN 1.0330 Equiv.	Black Oxide	(Black Oxide)

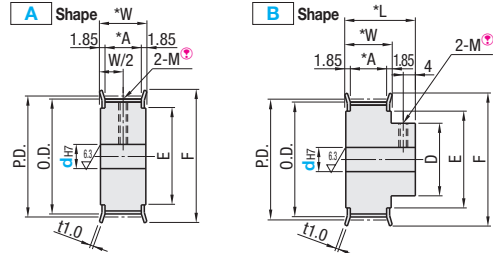
\*Flange is installed, and set screws are included with Shaft Bore P and N. \*The above material and accessory might be changed to the ones equivalent to the originals.

## Standard Tooth Profile



Tooth groove dimensions slightly vary according to the number of teeth. (Pitch: 5.0mm)

## Pulley Shape



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

dH7 Shaft Bore I.D.	M (Coarse)	Accessory: Set Screw
6~12	M4	M4x3
13~30	M5	M5x4
31~45	M6	M6x5 (Shape A only)

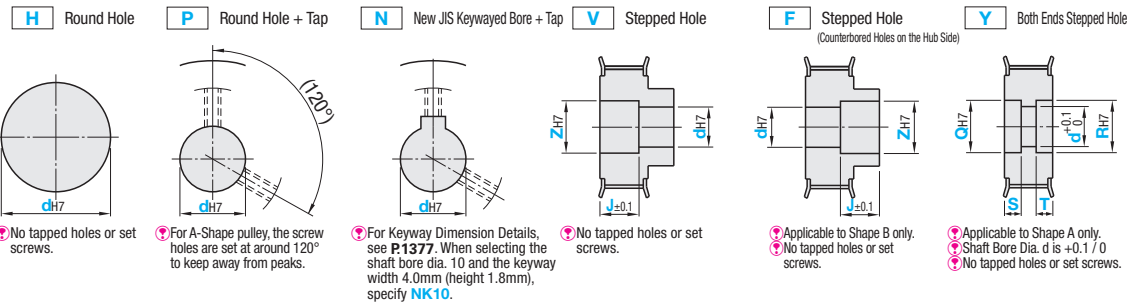
## Number of Teeth / Dimension

mm	Number of Teeth																		
	14	15	16	18	20	22	24	25	26	28	30	32	34	36	40	44	48	50	60
P.D.	22.28	23.87	25.46	28.65	31.83	35.01	38.20	39.79	41.38	44.56	47.75	50.93	54.11	57.30	63.66	70.03	76.39	79.58	95.49
O.D.	21.14	22.73	24.32	27.51	30.69	33.87	37.06	38.65	40.24	43.42	46.61	49.79	52.97	56.16	62.52	68.89	75.25	78.44	94.35
D	12	13	15	18	20	22	26	28	28	30	32	34	36	38	40	42	46	46	52
F	26	27	29	32	35	39	42	43	45	48	51	55	58	61	67	74	80	83	99
E	16	17	19	22	24	27	30	32	33	36	39	42	46	49	55	62	68	71	87

## Belt Nominal Width / Dimension

mm	Nominal		
	GT5090	GT5120	GT5150
A	10.3	13.3	16.3
W	14.0	17.0	20.0
L	22.0	25.0	28.0

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



Number of Teeth	Body Price															Shaft Bore Machining Charge (Body Price +)					
	2000 Aluminum Alloy (Clear Anodize)						EN 1.1191 Equiv.			EN 1.1191 Equiv. (Black Oxide)											
	GT5090		GT5120		GT5150		GT5090		GT5120		GT5150		GT5090		GT5120		GT5150		P Hole	N, V, F Hole	Y Hole
14																					
15																					
16																					
18																					
20																					
22																					
24																					
25																					
26																					
28																					
30																					
32																					
34																					
36																					
40																					
44																					
48																					
50																					
60																					

Alterations Part Number - Pulley Shape - Shaft Bore Specs., I.D. - Z - J - Q - R - S - T - (KC90...etc.)  
 GPA20GT5090 - A - N10 - KC90

Alterations	Set Screw Angle	Flange Not Swaged	Flange Swaged on One Side	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: FC<(O.D.)+1, FC<F-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, V, F, 3<BC<L-W, P, N: M-3-BC<L-W. Not available for Shape A.

Part Number	Type	Number of Teeth	Type	Nominal Width	Pulley Shape																								
					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			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	V Stepped Hole	Y Both Ends Stepped	H Round Hole	P Round Hole + Tap	N Keyway + Tap	V Stepped Hole	Y Both Ends Stepped	H Round Hole	P Round Hole + Tap	N Keyway + Tap	V Stepped Hole	Y Both Ends Stepped	H Round Hole	P Round Hole + Tap	N Keyway + Tap	V Stepped Hole	Y Both Ends Stepped					
					6, 6.35, 7-10	6, 6.35, 7, 8	8, 10, NK10	6, 8	6-8, 8-10	6, 6.35, 7, 8	6, 6.35, 7-10	6	6-8, 8-10	6, 6.35, 7-12	6	6-8, 8-10	6, 6.35, 7-14	6, 6.35, 7-9	6-10, 8-12	6, 6.35, 7, 8	6, 6.35, 7-10	6	6-8, 8-10	6, 6.35, 7-12	6	6-8, 8-10			
					8-16	8-14	8, 10, NK10, 11, 12	8-14	10-16	8-19	8-17	8, 10, NK10, 11-12	8-17	10-19	8-22	8-18	8, 10, NK10, 11-14	8-20	10-23	8-22	8-16	8, 10, NK10, 11, 12	8-18	10-20	8-22	8-16	8, 10, NK10, 11, 12	8-18	10-20
					10-27	10-21	10, NK10, 11-17	10-25	12-27	10-24	10-16	10, NK10, 11-13	10-20	12-22	10-27	10-24	10, NK10, 11-15	10-25	12-27	10-26	10-26	10, NK10, 11-16	10-26	12-28	10-32	10-30	10, NK10, 11-17	10-26	12-28
					12-37	12-32	12-26	12-35	14-37	12-37	12-34	12-30	12-35	14-37	12-42	12-36	12-30	12-40	14-42	12-48	12-42	12-30	12-48	14-50	12-55	12-45	12-30	12-53	14-55
					12-59	12-45	12-30	12-57	14-59	12-57	12-45	12-30	12-57	14-59	12-72	12-45	12-30	12-70	14-72	12-48	12-45	12-30	12-48	14-50	12-53	12-42	12-30	12-26	14-36
					12-72	12-45	12-30	12-70	14-72	12-44	12-30	12-30	12-40	14-42															

Ordering Example: Part Number - Pulley Shape - Shaft Bore Specs., I.D. - Z - J - Q - R - S - T  
 (Shaft Bore Specs.: H, P, N) GPA20GT5090 - A - N10  
 (Shaft Bore Specs.: V, F) GPA36GT5120 - B - V20 - Z22 - J10.0  
 (Shaft Bore Specs.: Y) GPA40GT5150 - A - Y25 - Q27 - R35 - S5 - T7

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, (Tapped Hole): QTC28-M4. Selection (Through Hole) K Selection: K4.0-K13.0 (0.5mm Increment), Selection (Tapped Hole) M Selection: M3, M4, M5, M6, M8. Application Notes: Not applicable to Shaft Bore Specs. F or Y. When KTC/QTC is selected for Shaft Bore Specs. P and N, KC90 is not available.	Machine Through Hole / Tapped Hole on the side surface of hub side. Ordering Code (Through Hole): KFC20-K5.0, (Tapped Hole): QFC28-M4. Selection (Through Hole) K Selection: K4.0-K13.0 (0.5mm Increment), Selection (Tapped Hole) M Selection: M3, M4, M5, M6, M8. Application Notes: Not applicable to Shaft Bore Specs. F or Y. Specify KC90 when selecting KFC/QFC for Shaft Bore Specs. P and N. Side holes and tooth side tapped holes might interfere with each other. For details, see the relevant CAD data.	Machine Through Hole / Tapped Hole on the side surface of hub side. Ordering Code (Through Hole): KSC20-K5.0, (Tapped Hole): QSC28-M4. Selection (Through Hole) K Selection: K4.0-K13.0 (0.5mm Increment), Selection (Tapped Hole) M Selection: M3, M4, M5, M6, M8. Application Notes: Not applicable to Shaft Bore Specs. F or Y. KSC/QSC is not applicable to the Shaft Bore Specs. P and N.

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