

# High Torque Timing Pulleys - 5GT

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

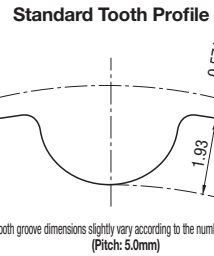
For e-Catalog non-standard products, see P.131.

For Super High Torque Timing Belts (compatible with EV5GT belts), see P.1495. For Idlers with Teeth, see P.1487.

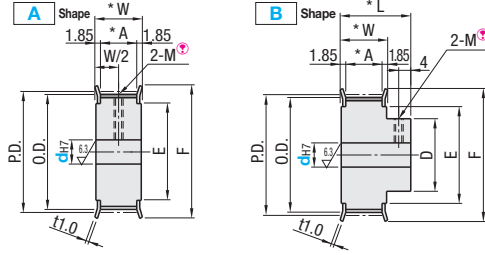


Type	Belt Width			Material*		Surface Treatment	Accessory* Set Screws
	9mm	12mm	15mm	Pulley	Flange		
GPA	●	●	●	Aluminum Alloy	Aluminum Alloy	Clear Anodize	SUS304
GPT	●	●	●	S45C Equivalent	SPCC	-	Chrome Molybdenum Steel (Black Oxide)
GPM	●	●	●			Black Oxide	

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



### 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)

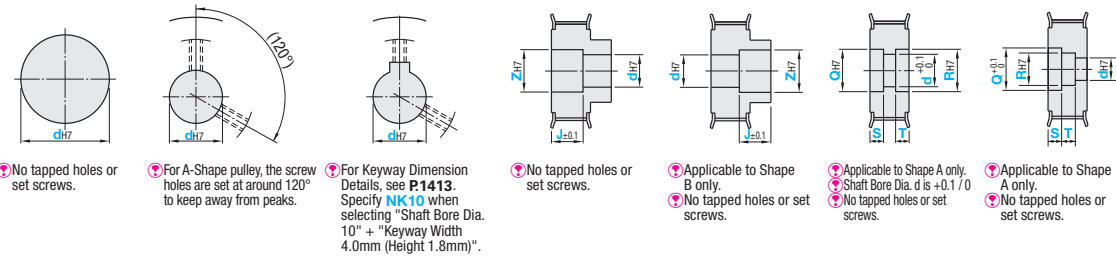
Shaft Bore Specs. H (Round hole), V or F (Stepped Hole), Y (Both Sides Stepped Hole) and WB (Two-stepped Hole) do not have tapped holes.

### Number of Teeth / Dimension

mm	Number of Teeth																		
	14	15	16	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	30	32	34	36	38	40	42	46	48	50	60
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

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

- H Round Hole
- P Round Hole + Tap
- N New JIS Keyway Bore + Tap
- V Stepped Hole
- F Stepped Hole
- Y Both Ends Stepped Hole
- WB Two-stepped Hole



Type	Number of Teeth	Type Nominal Width	Pulley Shape																			
			Shaft Bore Specs. "A": 1mm Increments "B": Selectable						Shaft Bore Specs. "A": 1mm Increments "B": Selectable													
Aluminum GPA	14-32	GT5090	A	H(d)	P(d)	N(d)	V	Y	H(d)	P(d)	N(d)	V, F	Y	B	H(d)	P(d)	N(d)	V, F	Y			
				Round Hole	Round Hole + Tap	Keyway + Tap	Stepped Hole	Both Sides Stepped Hole	Round Hole	Round Hole + Tap	Keyway + Tap	Stepped Hole	Both Sides Stepped Hole									
				Z	Z-d2	Z	Z-d2	Q(R)-Ys2	Z	Z-d2	Z	Z-d2	Q(R)-Ys2									
				6-12	6-8	8	6-10	8-12	6-10	8-12	6-8	6	6-7		8-9							
				6-13	6-8	8	6-11	8-13	6-11	8-13	6-10	6	6-9		8-11							
				6-15	6-10	8	6-13	8-15	6-13	8-15	6-12	6	6-12		8-14							
			Steel GPT	28-30	GT5120	A	H(d)	P(d)	N(d)	V	Y	H(d)	P(d)	N(d)	V, F	Y	B	H(d)	P(d)	N(d)	V, F	Y
							Round Hole	Round Hole + Tap	Keyway + Tap	Stepped Hole	Both Sides Stepped Hole	Round Hole	Round Hole + Tap	Keyway + Tap	Stepped Hole	Both Sides Stepped Hole						
							Z	Z-d2	Z	Z-d2	Q(R)-Ys2	Z	Z-d2	Z	Z-d2	Q(R)-Ys2						
							6-18	6-13	8, 10	6-16	8-18	6-16	8-18	6-14	6-9	6-12		8-14				
							8-20	8-14	8-12	8-18	10-20	8-18	10-20	8-16	8-10	8-14		10-16				
							8-23	8-17	8-12	8-21	10-23	8-21	10-23	8-19	8-12	8		8-16	10-18			
Steel GPM	32-60	GT5150	A	H(d)	P(d)	N(d)	V	Y	H(d)	P(d)	N(d)	V, F	Y	B	H(d)	P(d)	N(d)	V, F	Y			
				Round Hole	Round Hole + Tap	Keyway + Tap	Stepped Hole	Both Sides Stepped Hole	Round Hole	Round Hole + Tap	Keyway + Tap	Stepped Hole	Both Sides Stepped Hole									
				Z	Z-d2	Z	Z-d2	Q(R)-Ys2	Z	Z-d2	Z	Z-d2	Q(R)-Ys2									
				8-26	8-18	8-14	8-24	10-26	8-24	10-26	8-22	8-16	8, 10		8-20	10-22						
				8-28	8-20	8-16	8-26	10-28	8-26	10-28	8-24	8-16	8-12		8-22	10-24						
				10-29	10-21	10-17	10-27	12-29	10-27	12-29	10-24	10-16	10-13		10-22	12-24						

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.

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, WB) GPA40GT5150 - A - Y25 - Q27 - R35 - S5 - T7

Number of Teeth	Body Price									Shaft Bore Machining Charge (Body Price +)
	Aluminum Alloy (Clear Anodize)			S45C Equivalent			S45C Equivalent (Black Oxide)			
	GT5090	GT5120	GT5150	GT5090	GT5120	GT5150	GT5090	GT5120	GT5150	
14										
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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	Cuts the hub length in 0.5mm increment. Ordering Code: BC6.5

Alterations	Add Side Holes		
Code	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	Machines through hole on the side surface. Ordering Code: KTC28-K4.5	Machines counterbored hole on the side surface. Ordering Code: ZTC28-Z4

For details, see Shaft Alteration Overview. P.1414