

High Torque Timing Pulleys - 5GT

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

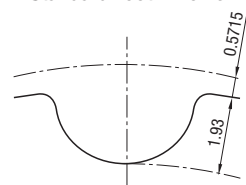
For Super High Torque Timing Belts (compatible with EV5GT belts), see P.1495. For Idlers with Teeth, see P.1487.



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 Bores 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)

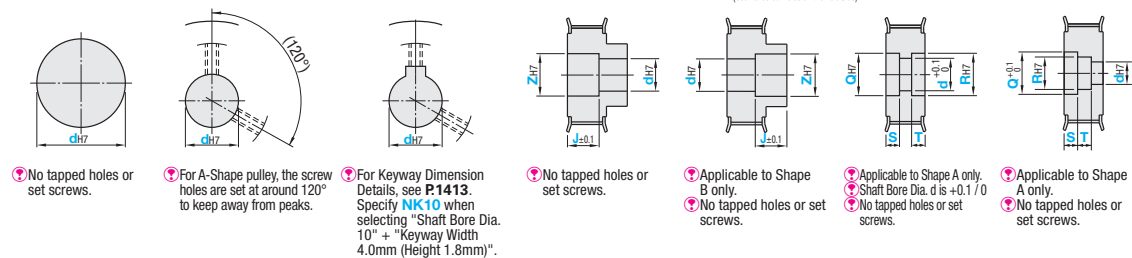
Shaft Bore Specs. H (Round hole), V or F (Stepped Hole), Y (Both Sides Stepped Hole) and WB (Two-stepped Hole) do not have tapped holes.

Number of Teeth / Dimension

mm	Number of Teeth															
	14	15	16	18	20	22	24	25	26	28	30	32	34	36	40	44
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
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
D	12	13	15	18	20	22	26	28	28	30	32	34	36	38	40	42
F	26	27	29	32	35	39	42	43	45	48	51	55	58	61	67	74
E	16	17	19	22	24	27	30	32	33	36	39	42	46	49	55	62

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



Part Number		Pulley Shape															
Type	Number of Teeth	Type Nominal Width	Pulley Shape	A								B					
				Shaft Bore Specs. "A": 1mm Increments "B": Selectable								Shaft Bore Specs. "A": 1mm Increments "B": Selectable					
				H(d) Round Hole	P(d) Round Hole + Tap See Below	N(d) Keyway + Tap See Below	V Stepped Hole		Y Both Sides Stepped Hole WB Two-stepped Hole			H(d) Round Hole	P(d) Round Hole + Tap See Below	N(d) Keyway + Tap See Below	V Stepped Hole		
							V(d)	Z-ds2 (0.1mm Increment)	Y(d)	Q(R)-Ys2 (0.1mm Increment)					V(d)	Z-ds2 (0.1mm Increment)	
Aluminum	14	GT5090	A	6-12	6-8		6-10	8-12	6-10	8-12		6-8			6	8	
	15			6-13	6-8		6-11	8-13	6-11	8-13		6-10			6-7	8, 9	
	16			6-15	6-10	8	6-13	8-15	6-13	8-15		6-12	6		6-9	8-11	
	18			6-18	6-13	8, 10	6-16	8-18	6-16	8-18		6-14	6-9		6-12	8-14	
	20			8-20	8-14	8-12	8-18	10-20	8-18	10-20		8-16	8-10	8	8-14	10-16	
	22			8-23	8-17	8-12	8-21	10-23	8-21	10-23		8-19	8-12	8	8-16	10-18	
	24			8-26	8-18	8-14	8-24	10-26	8-24	10-26		8-22	8-16	8, 10	8-20	10-22	
	25			8-28	8-20	8-16	8-26	10-28	8-26	10-28		8-24	8-16	8-12	8-22	10-24	
	26			10-29	10-21	10-17	10-27	12-29	10-27	12-29		10-24	10-16	10-13	10-22	12-24	
	28			10-32	10-24	10-19	10-30	12-32	10-30	12-32		10-27	10-20	10-15	10-25	12-27	
Steel	30	GT5120	A	10-35	10-26	10-20	10-33	12-35	10-33	12-35		10-28	10-22	10-16	10-26	12-28	
	32			10-38	10-30	10-23	10-36	12-38	10-36	12-38		10-30	10-22	10-17	10-28	12-30	
	34			12-42	12-32	12-26	12-40	14-42	12-40	14-42		12-32	12-24	12-18	12-30	14-32	
	36			12-45	12-34	12-30	12-43	14-45	12-43	14-45		12-34	12-26	12-20	12-32	14-34	
	40			12-51	12-36	12-30	12-49	14-51	12-49	14-51		12-36	12-26	12-22	12-34	14-36	
	44			12-58	12-42	12-30	12-56	14-58	12-56	14-58		12-38	12-26	12-23	12-36	14-38	
	48			12-64	12-45	12-30	12-62	14-64	12-62	14-64		12-42	12-30	12-26	12-40	14-42	
	50			12-67	12-45	12-30	12-65	14-67	12-65	14-67		12-42	12-30	12-27	12-40	14-42	
	60			12-83	12-45	12-30	12-81	14-83	12-81	14-83		12-48	12-30	12-30	12-46	14-48	

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

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

Number of Teeth	Body Price															Shaft Bore Machining Charge (Body Price +)																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
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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	No Flange Swaged	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 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 Shaft Bore Specs.P, N: M+3≤BC<L-W Not available for Shape A.

For details, see Shaft Alteration Overview. P.1414

Alterations	Add Side Holes Conditions may vary depending on the shaft bore specs. P.1414		
Code	Side Tapped Hole	Side Through Hole	Side Counterbored
	QTC, QFC, QSC	KTC, KFC, KSC	ZTC, ZFC, ZSC
Spec.	Machines tapped hole on the side surface of hub side. Ordering Code QTC28-M4 Q Selection Specify the hole position (P. C. D. dim.). M Selection M3, M4, M5, M6, M8 Application Notes Minimum Thickness: 2mm Formula P.1414 Conditions may vary depending on the shaft bore specs. P.1414	Machines through hole on the side surface. Ordering Code KTC28-K4.5 K Selection Specify the hole position (P. C. D. dim.). Code K K4.0 ~ 13.0 (0.5mm Increments) Application Notes Minimum Thickness: 2mm Formula P.1414 Conditions may vary depending on the shaft bore specs. P.1414	Machines counterbored hole on the side surface. Ordering Code ZTC28-Z4 Z Selection Specify the hole position (P. C. D. dim.). Z Selection ZM3, ZM4, ZM5, ZM6, ZM8 Application Notes Minimum Thickness: 2mm Formula P.1414 Conditions may vary depending on the shaft bore specs. P.1414

For details, see Shaft Alteration Overview. P.1414