

High Torque Timing Pulleys - 3GT

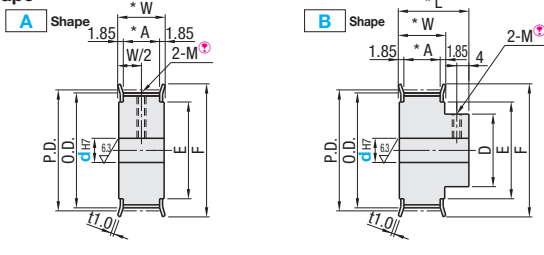
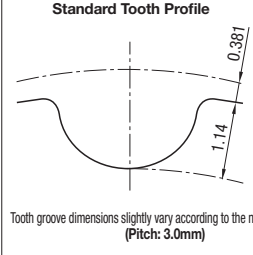
For High Torque Timing Belts, see **P. 1493**. For Idlers with Teeth, see **P. 1487**.



Type	Belt Width			Material*		Surface Treatment	Accessory* Set Screws
	6mm GT3060	9mm GT3090	15mm GT3150	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.

Pulley Shape



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

dh7 Shaft Bore I.D.	M (Coarse)	Accessory: Set Screw
5	M3	M3x3
6~17	M4	M4x3
18~38	M5	M5x4

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.

For Shape B, 20 or less teeth is not selectable.

Number of Teeth / Dimension

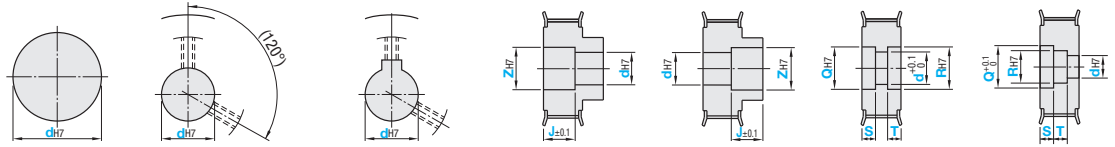
mm	Number of Teeth																
	16	18	20	22	24	25	26	28	30	32	34	36	40	44	48	50	60
P.D.	15.28	17.19	19.10	21.01	22.92	23.87	24.83	26.74	28.65	30.56	32.47	34.38	38.20	42.02	45.84	47.75	57.30
O.D.	14.52	16.43	18.34	20.25	22.16	23.11	24.07	25.98	27.89	29.80	31.71	33.62	37.44	41.26	45.08	46.99	56.54
D	-	-	-	12	14	14	15	17	19	20	22	24	28	30	32	34	36
F	19	21	23	24	26	27	28	30	32	34	36	38	42	46	49	51	61
E	11	12	14	16	18	18	19	21	23	25	27	29	33	36	40	42	52

Belt Nominal Width / Dimension

mm	Nominal		
	GT3060	GT3090	GT3150
A	7.3	10.3	16.3
W	11.0	14.0	20.0
L	19.0	22.0	28.0

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 (Counterbored Holes on the Hub Side)
- Y** Both Ends Stepped Hole
- WB** Two-stepped Hole



- 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 **NK1413**. Specify **NK10** when selecting "Shaft Bore Dia. 10" + "Keyway Width 4.0mm (Height 1.8mm)".
- No tapped holes or set screws.
- Applicable to Shape B only.
- Applicable to Shape A only.
- Applicable to Shape A only.
- No tapped holes or set screws.
- No tapped holes or set screws.
- No tapped holes or set screws.

Part Number	Type	Number of Teeth	Type Nominal Width	Pulley Shape														
				A						B								
				Shaft Bore Specs. "-": 1mm Increments, "": Selectable						Shaft Bore Specs. "-": 1mm Increments, "": 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, F Stepped Hole		
							V(d)	Z	J	Q	R	ST				V, F(d)	Z	J
							Z-dz2	(0.1mm Increment)	(0.1mm Increment)	Q(R)-Ys2	(0.1mm Increment)					Z-dz2	(0.1mm Increment)	
Aluminum	GPA	16	GT3060	4-7	-	-	4, 4.5, 5	6, 7		4, 4.5, 5	6, 7							
		18		5-8	5		5, 6	7, 8		5, 6	7, 8							
		20		5-10	5, 6		5-8	7-10		5-8	7-10							
		22		6-12	6, 6.35, 7		6-10	8-12		6-10	8-12							
		24		6-14	6-8		6-12	8-14		6-12	8-14							
		25		6-14	6-10		6-12	8-14		6-12	8-14							
		26		6-15	6-11	8	6-13	8-15		6-13	8-15							
		28		6-17	6-13	8, 10	6-15	8-17		6-15	8-17							
Steel	GPT	30	GT3090	6-19	6-14	8, 10	6-17	8-19	2-18	6-17	8-19	2.0sJSW-2.0						
		32		6-21	6-14	8-12	6-19	8-21		6-19	8-21							
		34		8-23	8-16	8-13	8-21	10-23		8-21	10-23							
		36		8-25	8-18	8-14	8-23	10-25		8-23	10-25							
		40		8-29	8-23	8-17	8-27	10-29		8-27	10-29							
		44		10-32	10-25	10-20	10-30	12-32		10-30	12-32							
		48		10-36	10-25	10-23	10-34	12-36		10-34	12-36							
		50		10-38	10-28	10-24	10-36	12-38		10-36	12-38							
		60		12-48	12-38	12-30	12-46	14-48		12-46	14-48							

Shaft Bore Dia. 9 is not available for Shaft Bore Specs. N. Shaft Bore Dia. 4.5 and 6.35 are selectable for Shaft Bore Specs. H, P, V and F.

Ordering Example (Shaft Bore Specs.: H, P, N) **Part Number** - **Pulley Shape** - **Shaft Bore Specs., I.D.** - **Z** - **J** - **Q** - **R** - **S** - **T**

(Shaft Bore Specs.: V, F) **GPA30GT3060** - **A** - **H10**

(Shaft Bore Specs.: Y, WB) **GPA40GT3150** - **B** - **V12** - **Z14** - **J18.0**

GPA36GT3090 - **A** - **Y15** - **Q18** - **R20** - **S3** - **T4**