

# High Torque Timing Pulleys - 8YU

Compatible with EV8YU  
Type from Gates Unitta Asia  
Company.

For Super High Torque Timing Belts (compatible EV8YU belts), see **P.1461** and for Idlers with Teeth, see **P.1453**.

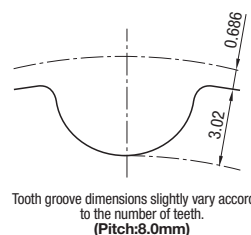


RoHS 10

Type	Belt Width			Material*		Surface Treatment	Accessory* Set Screws
	15mm	20mm	25mm	Pulley	Flange		
GPA	●	●	●	Aluminum Alloy	Aluminum Alloy	Clear Anodize	SUS304
GPT	●	●	●	S45C Equivalent	SPCC	-	Chrome Molybdenum Steel (Black Oxide)
GPM	●	●	●			Black Oxide	

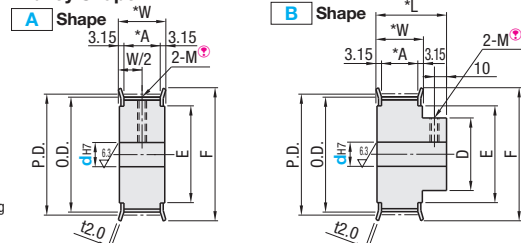
\*Flange is installed, and set screws are included with Shaft Bores P and N. \*The above material and accessory might be changed to the ones equivalent to the originals.

## Standard Tooth Profile



Tooth groove dimensions slightly vary according to the number of teeth. (Pitch:8.0mm)

## Pulley Shape



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

dh7 Shaft Bore I.D.	M (Coarse)	Accessory Set Screws
16~17	M5	M5x4
18~30	M6	M6x5
31~45	M8	M8x6
46~65	M10	M10x8

## Belt Nominal Width / Dimension

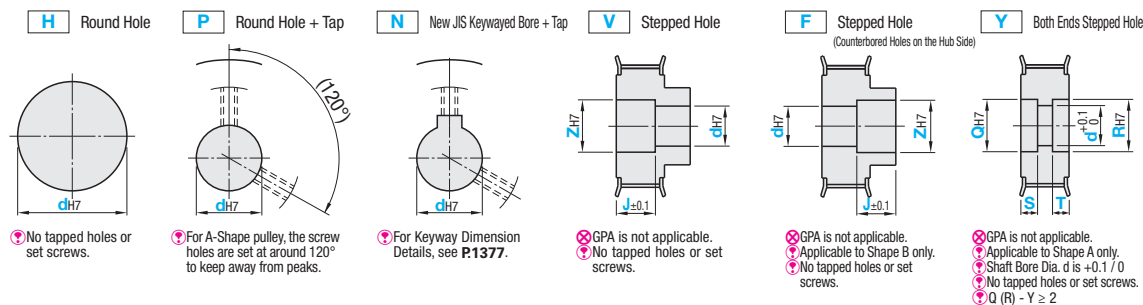
mm	Nominal		
	YU8150	YU8200	YU8250
A	16.7	21.7	26.7
W	23.0	28.0	33.0
L	43.0	48.0	53.0

## Number of Teeth / Dimension

mm	Number of Teeth															
	20	22	24	25	26	28	30	32	34	36	38	40	44	48	50	60
P.D.	50.93	56.02	61.12	63.66	66.21	71.30	76.39	81.49	86.58	91.67	96.77	101.86	112.05	122.23	127.32	152.79
O.D.	49.56	54.65	59.75	62.29	64.84	69.93	75.02	80.12	85.21	90.30	95.40	100.49	110.68	120.86	125.95	151.42
D	36	40	44	46	48	52	56	60	64	68	72	74	78	80	82	88
F	62	64	70	72	75	80	85	90	95	100	105	110	121	131	136	161
E	40	45	50	52	54	59	64	69	74	79	84	89	99	109	114	140

## Shaft Bore Specs.

Surface treatment may not be applied to shaft bores.



Part Number	Type	Number of Teeth	Type	Pulley Shape	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	F Stepped Hole	Y Both Ends Stepped Hole	H Round Hole	P Round Hole + Tap	N Keyway + Tap	V Stepped Hole	F Stepped Hole	Y Both Ends Stepped Hole		
Aluminum GPA	YU8150	20	A	16-32	16-28	16-21	16-30	18-32	16-30	16-20	16-18	16-30	18-32	16-30	16-20	16-18	16-30	18-32
		22	A	16-37	16-29	16-26	16-35	18-37	16-35	16-24	16-22	16-32	18-34	16-35	16-24	16-22	16-32	18-34
		24	A	16-42	16-34	16-30	16-40	18-42	16-40	16-28	16-24	16-38	18-40	16-40	16-28	16-24	16-38	18-40
		25	A	16-48	16-36	16-30	16-46	18-48	16-46	16-30	16-26	16-40	18-42	16-46	16-30	16-26	16-40	18-42
		26	A	16-50	16-38	16-30	16-48	18-50	16-48	16-30	16-28	16-43	18-45	16-48	16-30	16-28	16-43	18-45
		28	A	16-52	16-42	16-30	16-50	18-52	16-50	16-30	16-26	16-44	18-46	16-50	16-30	16-26	16-44	18-46
		30	A	16-59	16-45	16-30	16-57	18-59	16-57	16-30	16-26	16-48	18-50	16-57	16-30	16-26	16-48	18-50
		32	A	20-59	20-48	20-30	20-57	22-59	20-57	20-48	20-30	20-48	22-56	20-57	20-48	20-30	20-48	22-56
		34	A	20-67	20-52	20-30	20-65	22-67	20-65	20-45	20-30	20-54	22-56	20-65	20-45	20-30	20-54	22-56
		36	A	20-72	20-58	20-30	20-70	22-72	20-70	20-48	20-30	20-60	22-62	20-70	20-48	20-30	20-60	22-62
		38	A	20-76	20-62	20-30	20-74	22-76	20-74	22-76	20-30	20-62	22-64	20-74	22-76	20-30	20-62	22-64
		Steel GPT GPM	YU8250	40	A	25-80	25-65	25-30	25-80	27-82	25-75	25-54	25-30	25-64	27-66	25-75	25-54	25-30
44	A			25-80	25-65	25-30	25-80	27-92	25-75	25-56	25-30	25-66	27-68	25-75	25-56	25-30	25-66	27-68
48	A			25-80	25-65	25-30	25-80	27-95	25-75	25-58	25-30	25-68	27-70	25-75	25-58	25-30	25-68	27-70
50	A			25-80	25-65	25-30	25-80	27-95	25-75	25-58	25-30	25-70	27-72	25-75	25-58	25-30	25-70	27-72
60	A			30-80	30-65	30	30-80	32-95	30-75	32-95	30	30-72	32-74	30-75	32-95	30	30-72	32-74

Ordering Example: Part Number - Pulley Shape - Shaft Bore Specs., I.D. - Z - J - Q - R - S - T

(Shaft Bore Specs.: H, P, N) GPA30YU8150 - A - P25

(Shaft Bore Specs.: V, F) GPT36YU8200 - B - V20 - Z24 - J20.0

(Shaft Bore Specs.: Y) GPM40YU8250 - A - Y30 - Q34 - R38 - S10 - T15

Number of Teeth	Body Price														Shaft Bore Machining Charge (Body Price +)		
	2000 Aluminum Alloy (Clear Anodize)				S45C				S45C (Black Oxide)								
	YU8150	YU8200	YU8250	YU8150	YU8200	YU8250	YU8150	YU8200	YU8250	YU8150	YU8200	YU8250	YU8150	YU8200	YU8250	P Hole	N, V, F Hole
20																	
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. - Z - J - Q - R - S - T - (KC90-etc.)

GPA30YU8150 - A - P25 - KC90 - QFC40 - M4

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) NFC	(Flange 1 pc. Included) RFC, LFC	Cut the flange O.D. in 0.5mm increment. FC17	Cuts the hub length in 0.5mm increment. BC6.5

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. KTC20-K5.0, QTC28-M4, K4.0-K13.0 (0.5mm Increment), M3, M4, M5, M6, M8.	Machine Through Hole / Tapped Hole on the side surface of hub side. KFC20-K5.0, QFC28-M4, K4.0-K13.0 (0.5mm Increment), M3, M4, M5, M6, M8.	Machine Through Hole / Tapped Hole on the side surface of hub side. KSC20-K5.0, QSC28-M4, K4.0-K13.0 (0.5mm Increment), M3, M4, M5, M6, M8.