

Non-Backlash Timing Pulleys S8M Type



CAD Data

Features: Timing pulleys with backlash significantly reduced in comparison with the conventional pulleys. Special timing belts are not required. Timing Belts P.1195, P.1199

Part Number table with columns for Belt Width (15mm, 25mm, 30mm, 40mm) and Material (Aluminum Alloy, EN 1.1191 Equivalent). Includes diagrams for Standard Tooth Profile and Pulley Shape (A, B) with dimensions. Also includes Tapped Hole Dimensions (Shaft Bore: P / N / C) table.

Shaft Bore Specs. section showing diagrams for Round Hole (H), Round Hole+Tap (P), New JIS Keywayed Bore + Tap (N), Old JIS Keywayed Bore + Tap (C), Stepped Hole (V), Stepped Hole (F), and Both Ends Stepped Hole (Y). Includes detailed dimensions and notes for each type.

Part Number			Pulley Shape	Shaft Bore Specifications	Shaft Bore Spec. (1mm Increment)														P.D.	O.D.	D	F	E
Type	Teeth	Type Nominal Width			H		P		N · C		V · F				J (0.1mm Increment)	Y		S-T					
					dH7				dH7				ZH7				d						
			A	B	A	B	A	B	A	B	A	B	A · B	A	A	A							
(Aluminum Alloy 7000 series)	18		12-28	12-28	12-26	12-22	12-26	12-20	12-26	12-26	14-28	14-28		12-26	14-28		45.84	44.46	32	52	36		
	19	S8M150	12-32	12-31	12-28	12-25	12-28	12-20	12-30	12-29	14-32	14-31		12-30	14-32		48.38	47.01	35	55			
	20	"A" :17 "W" :22	12-32	12-32	12-30	12-26	12-30	12-22	12-30	12-30	14-32	14-32		12-30	14-32		50.93	49.56	36	58	40		
	21	"L" :37 (L :42)	12-37	12-36	12-32	12-30	12-32	12-24	12-35	12-34	14-37	14-36		12-35	14-37		53.48	52.10	40				
	22		12-37	12-37	12-34	12-30	12-34	12-25	12-35	12-35	14-37	14-37		12-35	14-37		56.02	54.65	41	61	45		
	24	S8M250	12-42	12-42	12-40	12-34	12-40	12-28	12-40	12-40	14-42	14-42		12-40	14-42		61.12	59.74	46	67	50		
	25	"A" :28	12-48	12-44	12-40	12-36	12-40	12-28	12-46	12-42	14-48	14-44		12-46	14-48		63.66	62.29	48	70	56		
	26	"W" :33 "L" :48 (L :53)	14-50	14-47	14-45	14-39	14-45	14-31	14-48	14-45	16-50	16-47	(For A Shape) 3.0x3.0W-3.0	14-48	16-50		66.21	64.84	51	74	58		
	28		14-52	14-51	14-48	14-43	14-48	14-35	14-50	14-49	16-52	16-51		14-50	16-52	3-23 S+Ts-W3	71.30	69.93	55	80	60		
	30	"L" :53	14-59	14-56	14-50	14-46	14-50	14-38	14-57	14-54	16-59	16-56		14-57	16-59		76.39	75.02	60				
(EN J 1191 Equivalent)	32	S8M300	14-59	14-59	14-55	14-49	14-50	14-45	14-57	14-57	16-59	16-59	(For B Shape) 3.0x3.1-3.0	14-57	16-59		81.49	80.12	63	87	67		
	34	"A" :33 "W" :38 "L" :53 (L :58)	16-67	16-66	16-60	16-56	16-50	16-48	16-65	16-64	18-67	18-66		16-65	18-67		86.58	85.21	70	95	75		
	36		16-72	16-71	16-65	16-61	16-50	16-50	16-70	16-69	18-72	18-71		16-70	18-72		91.67	90.30	75	99	80		
	38		16-76	16-76	16-65	16-65	16-50	16-50	16-74	16-74	18-76	18-76		16-74	18-76		96.77	95.39	80	104	84		
	40	S8M400	20-80	20-80	20-65	20-65	20-50	20-50	20-80	20-79	22-82	22-81		20-75	22-82		101.86	100.49	85	111	90		
	44	"A" :44 "W" :49 "L" :64 (L :69)	20-80	20-80	20-65	20-65	20-50	20-50	20-80	20-80	22-82	22-86		20-75	22-82		112.05	110.67	90	119	100		
	48		20-80	20-80	20-65	20-65	20-50	20-50	20-80	20-80	22-95	22-95		20-75	22-95		122.23	120.86		127	105		
	50		20-80	20-80	20-65	20-65	20-50	20-50	20-80	20-80	22-95	22-95		20-75	22-95		127.32	125.95		130	115		
	60		20-80	20-80	20-65	20-65	20-50	20-50	20-80	20-80	22-95	22-95		20-75	22-95		152.79	151.42		160	140		

Notes regarding shaft bore specifications, including Z-d≥2 for shaft bore specification V and F, Q(R)-d≥2 for shaft bore specification Y, and L Dimensions in ( ) are for 44~60 toothed pulleys.

Order Example section showing how to specify a part number based on Shaft Bore (H, P, N, C), Pulley Shape (A, B), and Shaft Bore Spec. / Inner Dia. (Z, J, Q, R, S, T).

Days to Ship section showing 8 Days for BLPA / BLPT / BLPM / BLPP and 10 Days for BLPK / BLPN. Includes Volume Discount table and Price information.

Teeth	€ Body Price																Shaft Bore Machining Charge			
	BLPA (x1.0)				BLPK (x1.1)				BLPN (x1.2)				BLPT (x1.0)				BLPM (x1.05)			
	S8M150	S8M250	S8M300	S8M400	S8M150	S8M250	S8M300	S8M400	S8M150	S8M250	S8M300	S8M400	S8M150	S8M250	S8M300	S8M400	S8M150	S8M250	S8M300	S8M400

Alterations section showing a table for Part Number, Pulley Shape, Shaft Bore Spec. / Inner Dia., and Alterations (Z, J, Q, R, S, T) with corresponding codes.

Side Tapped Hole and Side Through Hole sections showing diagrams and specifications for QSC, QFC, QTC, KSC, KFC, and KTC. Includes details on hole placement, dimensions, and material requirements.

Boss Cut, Flange not Attached, Flange Attached on One Side Only, Flange Cut, Tapped Hole Dimensions, and Set Screw Length sections showing diagrams and specifications for BC, NFC, RFC, LFC, FC, TPC, and SLH.

Features of Non-backlash Pulleys (S8M) section describing the benefits of non-backlash pulleys, including reduced backlash and improved timing accuracy.

Reference: Comparison of deviation angles between non-backlash pulleys and standard pulleys

