

Flanged Idlers with Teeth

S5M, S8M, S14M

⚠ The shaft bore specifications (V) for the Timing Pulleys is applicable to the Idlers. P.1401~1405 ⚠ Idler shafts (cantilever shafts) are selectable from P.881~906. ⚠ Tensioners can be selected from P.1555, P.1556.



RoHS10

Type		Material			Surface Treatment
Center Bearing	Both Sides Bearing	Main Body	Flange	Bearing	
AHTF	AHTFW	S5M	S8M	S14M	Steel
KHTF	KHTFW	Aluminum Alloy	A7075	-	
BHTF	BHTFW	S45C Equivalent			S45C Equivalent
MHTF	MHTFW	S45C Equivalent			
SHTF	-	SUS304	-	-	SUS304

• Center Bearing
<Bearing 1 pc.>

• Both Sides Bearing
<Bearing 2 pcs.>

⚠ Bearings are press-fitted. * Bearing Accuracy: JIS B1514 Class 0 (before press-fitting)

S5M (Center Bearing)

Part Number			Shaft Dia.	P.D.	O.D.	F	E	A	W	S	Bearing Dimensions			Unit Price				
Type	Number of Teeth	Applicable Belt	d								No.	D	B	AHTF	KHTF	BHTF	MHTF	SHTF
AHTF KHTF BHTF MHTF SHTF	16	S5M100	6	25.46	24.50	32	20	11	16	5	606ZZx1	17	6					-
	18	S5M100	8	28.65	27.69	33	22	11	16	5	698ZZx1	19	6					-
	20	S5M100	8	31.83	30.87	36	24	11	16	5	698ZZx1	19	6					
		17						22	5	698ZZx2								
	22	S5M100	8	35.01	34.05	40	27	11	16	4	628ZZx1	24	8					-
		17						22	3	628ZZx2	-							
	24	S5M100	10	38.20	37.24	45	30	11	16	4	6000ZZx1	26	8					-
		17						22	3	6000ZZx2	-							
	25	S5M100	10	39.79	38.83	45	30	11	16	4	6000ZZx1	26	8					
		17						22	3	6000ZZx2								
	26	S5M100	10	41.38	40.42	48	35	11	16	3.5	6200ZZx1	30	9					-
	28	S5M100	10	44.56	43.60	48	35	11	16	3.5	6200ZZx1	30	9					
		17						22	6.5									
	30	S5M100	12	47.75	46.79	52	36	11	16	3	6201ZZx1	32	10					
		17						22	6									
	32	S5M100	12	50.93	49.97	55	40	11	16	3	6201ZZx1	32	10				-	-
S5M150		10									17	22	3	6000ZZx2	26	8		
36	S5M100	12	57.30	56.34	61	45	11	16	3	6201ZZx1	32	10				-	-	-
40	S5M100	12	63.66	62.70	67	50	11	16	3	6201ZZx1	32	10				-	-	-

S5M (Both Sides Bearing)

Part Number			Shaft Dia. d	P.D.	O.D.	F	E	A	W	Dh	Bearing Dimensions			Unit Price			
Type	Number of Teeth	Applicable Belt									No.	D	B	AHTFW	KHTFW	BHTFW	MHTFW
AHTFW KHTFW BHTFW MHTFW	16	S5M150	6	25.46	24.50	32	20	17	22	14.5	606ZX2	17	6				
		S5M250						27	32							-	-
	18	S5M150	8	28.65	27.69	33	22	17	22	16.5	698ZX2	19	6				
		S5M250						27	32							-	-
	20	S5M150	8	31.83	30.87	36	24	17	22	16.5	698ZX2	19	6				
		S5M250						27	32							-	-
	22	S5M150	8	35.01	34.05	40	27	17	22	19.5	608ZX2	22	7				
		S5M250						27	32							-	-
	24	S5M150	8	38.20	37.24	45	30	17	22	19.5	608ZX2	22	7				
		S5M250						27	32							-	-
	25	S5M100	6	39.79	38.83	45	30	11	16	13	696ZX2	15	5				
		S5M150						17	22								
	25	S5M250	8	39.79	38.83	45	30	27	32	14.5	606ZX2	17	6				
		S5M100						11	16							-	-
	25	S5M150	8	39.79	38.83	45	30	17	22	16.5	698ZX2	19	6				
		S5M250						27	32							-	-
	26	S5M150	10	41.38	40.42	48	35	17	22	19.5	608ZX2	22	7				
		S5M250						27	32							-	-
	28	S5M100	10	44.56	43.60	48	35	11	16	19.5	6900ZX2	22	6				
		S5M150						17	22								
30	S5M250	12	47.75	46.79	52	36	27	32	25	6200ZX2	30	9					
	S5M150						17	22							-	-	
32	S5M250	12	50.93	49.97	55	40	27	32	25	6001ZX2	28	8					
	S5M150						27	32							-	-	
36	S5M250	15	57.30	56.34	61	45	17	22	29	6201ZX2	32	10					
	S5M150						27	32							-	-	
40	S5M250	15	63.66	62.70	67	50	17	22	29	6002ZX2	32	9					
	S5M150						27	32							-	-	

S8M (Center Bearing)

Part Number		Shaft Dia. d	P.D.	O.D.	F	E	A	W	S	Bearing Dimensions			Unit Price			
Type	Number of Teeth	Applicable Belt								No.	D	B	AHTF	KHTF	BHTF	MHTF
AHTF KHTF BHTF MHTF	20	S8M150	12	50.93	49.56	58	40	17	22	6	6201ZZx1	32	10			
		S8M250	15					28	33	5.5	6202ZZx2	35	11			
	22	S8M150	12	56.02	54.65	61	45	17	22	6	6201ZZx1	32	10			
	24	S8M150	12	61.12	59.74	67	50	17	22	6	6201ZZx1	32	10			
		S8M250	28					33	6.5	6201ZZx2						
		S8M300	15					33	38	8	6202ZZx2	35	11			
		S8M400						44	49	13.5						
	25	S8M150	15	63.66	62.29	70	56	17	22	5.5	6202ZZx1	35	11			
	26	S8M150	15	66.21	64.84	74	58	17	22	5.5	6202ZZx1	35	11			
	28	S8M150	15	71.30	69.93	80	60	17	22	5.5	6202ZZx1	35	11			
	30	S8M150	15	76.39	75.02	87	67	17	22	5.5	6202ZZx1	35	11			
		S8M250	28					33	5.5	6202ZZx2						
		S8M300	20					33	38	5	6204ZZx2	47	14			
		S8M400						44	49	10.5						
	32	S8M150	20	81.49	80.12	87	67	17	22	4	6204ZZx1	47	14			
	34	S8M150	20	86.58	85.21	95	75	17	22	4	6204ZZx1	47	14			
40	S8M150	25	101.86	100.49	111	90	17	22	3.5	6205ZZx1	52	15		-	-	

S8M (Both Sides Bearing)

Part Number			Shaft Dia. d	P.D.	O.D.	F	E	A	W	Dh	Bearing Dimensions			Unit Price			
Type	Number of Teeth	Applicable Belt									No.	D	B	AHTFW	KHTFW	BHTFW	MHTFW
AHTFW KHTFW BHTFW MHTFW	22	S8M250	12	56.02	54.65	61	45	28	33	27	6201ZZx2	32	10	-	-		
		S8M300						33	38								
		S8M400						44	49								
	24	S8M250	12	61.12	59.74	67	50	28	33	27	6201ZZx2	32	10	-	-		
		S8M300						33	38								
		S8M400						44	49								
	25	S8M250	12	63.66	62.29	70	56	28	33	27	6201ZZx2	32	10	-	-		
		S8M300						33	38								
		S8M400						44	49								
	26	S8M150	12	66.21	64.84	74	58	17	22	25	6001ZZx2	28	8				
		S8M250						28	33								
		S8M300						33	38								
	28	S8M400	15	71.30	69.93	80	60	44	49	27	6201ZZx2	32	10	-	-		
		S8M250						28	33								
		S8M300						33	38								
	30	S8M400	15	76.39	75.02	87	67	44	49	30	6202ZZx2	35	11	-	-		
		S8M150						17	22								
		S8M250						28	33								
	30	S8M300	20	76.39	75.02	87	67	33	38	37	6004ZZx2	42	12	-	-		
		S8M400						44	49								
		S8M250						28	33								
	32	S8M300	20	81.49	80.12	87	67	33	38	41	6204ZZx2	47	14	-	-		
		S8M400						44	49								
		S8M250						28	33								
34	S8M300	20	86.58	85.21	95	75	33	38	41	6204ZZx2	47	14	-	-			
	S8M400						44	49									
	S8M250						28	33									
40	S8M300	25	101.86	100.49	111	90	28	33	43	6005ZZx2	47	12			-	-	
	S8M400						33	38									
	S8M250						44	49									

S14M (Both Sides Bearing)

Part Number			Shaft Dia. d	P.D.	O.D.	F	E	A	W	Dh	Bearing Dimensions			Unit Price
Type	Number of Teeth	Applicable Belt									No.	D	B	BHTFWNF 
BHTFWNF	28	S14M400	30	124.78	121.98	136	101	46	53	57	6206ZZx2	62	16	
		S14M600						67	74					
		S14M400	40	124.78	121.98	136	101	46	53	73.5	6208ZZx2	80	18	
		S14M600						67	74					

⚠ For orders of 5 or more pieces of S14M, please request a quotation.



Ordering Example

• Center Bearing
Part Number
Type Number of Teeth Applicable Belt
AHTF 30 S5M100

• Both Sides Bearing
Part Number
Type Number of Teeth Applicable Belt
BHTFWNF 28 - S14M400 - 30



Alterations



Part Number - d - (FC, NFC, LFC, RFC)
AHTF28S5M100 - FC46

Alterations	Flange Cut	No Flange	Single Flange
Code	FC	NFC	LFC, RFC
Spec.	Low flange by cutting. FC: 0.5mm Increment ⚠ Not available for Stainless Steel Type. ⚠ No surface treatment is applied on flange circumference. FC=(O.D.)÷1 FC=F-2 (Ordering Code) FC46	Flange is not installed. (Flange Included)	Flange installed by swaging only on either hub side (RFC) or the opposite side (LFC) at the time of shipment. (Flange 1 pc. Included)