

Flanged Idlers with Teeth

S5M, S8M, S14M

The shaft bore specifications 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.

Type	Center Bearing		Both Sides Bearing		Main Body		Flange	Bearing	Surface Treatment	Material
	AHTF	KHTF	BHTF	MHTF	S5M	S8M				
AHTF	AHTFW	AHTFW	BHTFW	BHTFW	Aluminum Alloy	A7075	-	A5052	Steel	Clear Anodize
KHTF	KHTFW	KHTFW	BHTFW	BHTFW	Aluminum Alloy	A7075	-	A5052	Steel	Hard Clear Anodize*
BHTF	BHTFW	BHTFW	BHTFWNF*	BHTFWNF*	S45C Equivalent		S45C Equivalent	Steel	Black Oxide	*2 Compatible with S14M Type only. On 2014 and later, S14M Type is to be delivered with flange not swaged on, but included.
MHTF	MHTFW	MHTFW	MHTFW	MHTFW	S45C Equivalent		S45C Equivalent	Steel	Electroless Nickel Plating	
SHTF	-	-	-	-	SUS304	-	-	SUS304	Stainless Steel	

*1 Hard Clear Anodize: Film Hardness 300HV ~
*2 Compatible with S14M Type only. On 2014 and later, S14M Type is to be delivered with flange not swaged on, but included.

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	Type	Number of Teeth	Applicable Belt	Shaft Dia. d	P.D.	O.D.	F	E	A	W	S	Bearing Dimensions			Unit Price				
												No.	D	B	AHTF	KHTF	BHTF	MHTF	SHTF
16	S5M100	6	S5M100	6	25.46	24.50	32	20	11	16	5	606ZZx1	17	6	-	-	-	-	-
18	S5M100	8	S5M100	8	28.65	27.69	33	22	11	16	5	698ZZx1	19	6	-	-	-	-	-
20	S5M100	10	S5M100	10	31.83	30.87	36	24	11	16	5	698ZZx1	19	6	-	-	-	-	-
22	S5M100	12	S5M100	12	35.01	34.05	40	27	11	16	4	628ZZx1	24	8	-	-	-	-	-
24	S5M100	14	S5M100	14	38.20	37.24	45	30	11	16	4	600ZZx1	26	8	-	-	-	-	-
25	S5M100	15	S5M100	15	39.79	38.83	45	30	11	16	4	600ZZx2	26	8	-	-	-	-	-
26	S5M100	16	S5M100	16	41.38	40.42	48	35	11	16	3.5	6200ZZx1	30	9	-	-	-	-	-
28	S5M100	18	S5M100	18	44.56	43.60	48	35	11	16	3.5	6200ZZx1	30	9	-	-	-	-	-
30	S5M100	20	S5M100	20	47.75	46.79	52	36	11	16	3	6201ZZx1	32	10	-	-	-	-	-
32	S5M100	22	S5M100	22	50.93	49.97	55	40	11	16	3	6201ZZx1	32	10	-	-	-	-	-
36	S5M100	24	S5M100	24	57.30	56.34	61	45	11	16	3	6201ZZx1	32	10	-	-	-	-	-
40	S5M100	28	S5M100	28	63.66	62.70	67	50	11	16	3	6201ZZx1	32	10	-	-	-	-	-

S5M (Both Sides Bearing)

Part Number	Type	Number of Teeth	Applicable Belt	Shaft Dia. d	P.D.	O.D.	F	E	A	W	Dh	Bearing Dimensions			Unit Price				
												No.	D	B	AHTFW	KHTFW	BHTFW	MHTFW	
16	S5M100	6	S5M100	6	25.46	24.50	32	20	17	22	14.5	606ZZx2	17	6	-	-	-	-	-
18	S5M100	8	S5M100	8	28.65	27.69	33	22	17	22	16.5	698ZZx2	19	6	-	-	-	-	-
20	S5M100	10	S5M100	10	31.83	30.87	36	24	17	22	16.5	698ZZx2	19	6	-	-	-	-	-
22	S5M100	12	S5M100	12	35.01	34.05	40	27	17	22	19.5	608ZZx2	22	7	-	-	-	-	-
24	S5M100	14	S5M100	14	38.20	37.24	45	30	17	22	19.5	608ZZx2	22	7	-	-	-	-	-
25	S5M100	15	S5M100	15	39.79	38.83	45	30	11	16	13	696ZZx2	15	5	-	-	-	-	-
25	S5M100	15	S5M100	15	39.79	38.83	45	30	17	22	19.5	608ZZx2	22	7	-	-	-	-	-
26	S5M100	16	S5M100	16	41.38	40.42	48	35	17	22	25	6200ZZx2	30	9	-	-	-	-	-
28	S5M100	18	S5M100	18	44.56	43.60	48	35	11	16	19.5	6900ZZx2	22	6	-	-	-	-	-
30	S5M100	20	S5M100	20	47.75	46.79	52	36	17	22	25	6001ZZx2	28	8	-	-	-	-	-
32	S5M100	22	S5M100	22	50.93	49.97	55	40	17	22	25	6001ZZx2	28	8	-	-	-	-	-
36	S5M100	24	S5M100	24	57.30	56.34	61	45	17	22	29	6002ZZx2	32	9	-	-	-	-	-
40	S5M100	28	S5M100	28	63.66	62.70	67	50	17	22	29	6002ZZx2	32	9	-	-	-	-	-

S8M (Center Bearing)

Part Number	Type	Number of Teeth	Applicable Belt	Shaft Dia. d	P.D.	O.D.	F	E	A	W	S	Bearing Dimensions			Unit Price			
												No.	D	B	AHTF	KHTF	BHTF	MHTF
20	S8M150	12	S8M150	12	50.93	49.56	58	40	17	22	6	6201ZZx1	32	10	-	-	-	-
22	S8M150	15	S8M150	15	56.02	54.65	61	45	17	22	6	6201ZZx1	32	10	-	-	-	-
24	S8M150	18	S8M150	18	61.12	59.74	67	50	17	22	6	6201ZZx1	32	10	-	-	-	-
25	S8M150	20	S8M150	20	63.66	62.29	70	56	17	22	5.5	6202ZZx1	35	11	-	-	-	-
26	S8M150	22	S8M150	22	66.21	64.84	74	58	17	22	5.5	6202ZZx1	35	11	-	-	-	-
28	S8M150	24	S8M150	24	71.30	69.93	80	60	17	22	5.5	6202ZZx1	35	11	-	-	-	-
30	S8M150	26	S8M150	26	76.39	75.02	87	67	17	22	5.5	6202ZZx1	35	11	-	-	-	-
32	S8M150	28	S8M150	28	81.49	80.12	95	75	17	22	4	6204ZZx1	47	14	-	-	-	-
34	S8M150	30	S8M150	30	86.58	85.21	95	75	17	22	4	6204ZZx1	47	14	-	-	-	-
40	S8M150	36	S8M150	36	101.86	100.49	111	90	17	22	3.5	6205ZZx1	52	15	-	-	-	-

S8M (Both Sides Bearing)

Part Number	Type	Number of Teeth	Applicable Belt	Shaft Dia. d	P.D.	O.D.	F	E	A	W	Dh	Bearing Dimensions			Unit Price			
												No.	D	B	AHTFW	KHTFW	BHTFW	MHTFW
22	S8M250	12	S8M250	12	56.02	54.65	61	45	28	33	27	6201ZZx2	32	10	-	-	-	-
24	S8M300	14	S8M300	14	61.12	59.74	67	50	33	38	27	6201ZZx2	32	10	-	-	-	-
25	S8M300	15	S8M300	15	63.66	62.29	70	56	28	33	27	6201ZZx2	32	10	-	-	-	-
26	S8M300	16	S8M300	16	66.21	64.84	74	58	33	38	25	6001ZZx2	28	8	-	-	-	-
28	S8M300	18	S8M300	18	71.30	69.93	80	60	33	38	27	6201ZZx2	32	10	-	-	-	-
30	S8M300	20	S8M300	20	76.39	75.02	87	67	33	38	30	6202ZZx2	35	11	-	-	-	-
30	S8M300	20	S8M300	20	76.39	75.02	87	67	44	49	37	6004ZZx2	42	12	-	-	-	-
32	S8M300	22	S8M300	22	81.49	80.12	95	75	28	33	41	6204ZZx2	47	14	-	-	-	-
34	S8M300	24	S8M300	24	86.58	85.21	95	75	33	38	41	6204ZZx2	47	14	-	-	-	-
40	S8M300	30	S8M300	30	101.86	100.49	111	90	44	49	47	6205ZZx2	52	15	-	-	-	-

S14M (Both Sides Bearing)

On 2014 and later, S14M Type is to be delivered with flange included (but not swaged on).

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

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

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