

# Flanged Idlers with Teeth

## S2M, S3M

The shaft bore specifications for the Timing Pulleys is applicable to the Idlers. P.1397, 1399

Idler shafts (cantilever shafts) are selectable from P.881~906. Tensioners can be selected from P.1555, P.1556.

Type		Material			Surface Treatment	
Center Bearing	Both Sides Bearing	Main Body	Flange	Bearing	Surface Treatment	
AHTF	AHTFW	Aluminum Alloy	A5052	Steel	Clear Anodize	
NHTF	KHTFW				Hard Clear Anodize *	
SHTF	NHTFW	SUS304		Stainless Steel	Electroless Nickel Plating	

\* Hard Clear Anodize: Film Hardness 300HV ~

• Center Bearing  
<Bearing 1 pc.>

<Bearing 2 pcs.>

• Both Sides Bearing

RoHS10

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

### S2M (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	
40	S2M040	5				5	9	2.5	695ZZx1	13 4	
	S2M060	6	25.46	24.96	30	20	7	11	3	696ZZx1	15 5
	S2M100	6				11	15	5			
48	S2M040	6	30.56	30.05	35	25	5	9	2	696ZZx1	15 5
	S2M060	6				7	11	3			
	S2M100	6				7	11	3			
50	S2M040	6	31.83	31.32	35	25	5	9	2	696ZZx1	15 5
	S2M060	8				7	11	2.5	698ZZx1	19 6	
	S2M100	8				5	9	1.5	6900ZZx1	22 6	
60	S2M040	10	38.20	37.69	44	32	7	11	2.5	6900ZZx1	22 6
	S2M060	10				7	11	2.5			

### S2M (Both Sides Bearing)

Part Number	Shaft Dia.	P.D.	O.D.	F	E	A	W	Dh	Bearing Dimensions	Unit Price	
Type	Number of Teeth	Applicable Belt	d						No. D B	AHTFW NHTFW	
20	S2M040	3				5	9		673ZZx2	6 2.5	
	S2M060	4	12.73	12.22	16	10	11	15	6	674ZZx2	7 2.5
	S2M100	4				11	15	6			
30	S2M040	3	19.01	18.59	22	14	5	9	5	673ZZx2	6 2.5
	S2M060	4				7	11	6	674ZZx2	7 2.5	
	S2M100	4				11	15	6			
32	S2M040	3	20.37	19.86	25	16	5	9	5	673ZZx2	6 2.5
	S2M060	4				7	11	6	694ZZx2	11 4	
	S2M100	4				11	15	9.5			
36	S2M040	4	22.92	22.41	28	18	5	9	6	674ZZx2	7 2.5
	S2M060	5				7	11	6	695ZZx2	13 4	
	S2M100	5				11	15	11			
40	S2M040	4	25.46	24.96	30	20	5	9	6	674ZZx2	7 2.5
	S2M060	5				7	11	11	695ZZx2	13 4	
	S2M100	6				11	15	13			
48	S2M100	8	30.56	30.05	35	25	11	15	16.5	698ZZx2	19 6
50	S2M100	8	31.83	31.32	35	25	11	15	16.5	698ZZx2	19 6
60	S2M100	8	38.20	37.69	44	32	11	15	16.5	698ZZx2	19 6

Ordering Example

Center Bearing				Both Sides Bearing			
Part Number	Type	Number of Teeth	Applicable Belt	Part Number	Type	Number of Teeth	Applicable Belt
AHTF 40 S2M060	AHTF	40	S2M060	AHTFW 32 - S3M100 - 8	AHTFW	32	S3M100 - 8

### S3M (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 NHTF SHTF	
20	S3M060	5	19.10	18.34	22	14	7	11	3	685ZZx1	
	S3M100	5				11	15	2.5	685ZZx2	11* 5	
24	S3M060	5	22.92	22.16	25	16	7	11	3.5	695ZZx1	
	S3M100	5				11	15	3.5	695ZZx2	13 4	
25	S3M060	5	23.87	23.11	28	18	7	11	3.5	695ZZx1	13 4
26	S3M060	6	24.83	24.07	28	18	7	11	3	696ZZx1	15 5
28	S3M060	6	26.74	25.98	30	20	7	11	3	696ZZx1	15 5
30	S3M060	6	28.65	27.89	32	23	7	11	3	696ZZx1	15 5
	S3M100	6				11	15	4.5	626ZZx1	19 6	
32	S3M060	8	30.56	29.80	35	25	7	11	2.5	698ZZx1	19 6
	S3M100	8				11	15	4.5			
36	S3M060	8	34.38	33.62	40	28	7	11	2.5	698ZZx1	19 6
40	S3M060	10	38.20	37.44	44	32	7	11	2.5	6900ZZx1	22 6
44	S3M060	10	42.02	41.25	48	36	7	11	2.5	6900ZZx1	22 6
48	S3M060	10	45.84	45.07	50	38	7	11	2.5	6900ZZx1	22 6
50	S3M060	10	47.75	46.98	52	40	7	11	2.5	6900ZZx1	22 6
60	S3M060	10	57.30	56.53	61	46	7	11	2.5	6900ZZx1	22 6

\* The Opening on the hub side is Ø12.

### S3M (Both Sides Bearing)

Part Number	Shaft Dia.	P.D.	O.D.	F	E	A	W	Dh	Bearing Dimensions	Unit Price	
Type	Number of Teeth	Applicable Belt	d						No. D B	AHTFW KHTFW	
20	S3M060	3				7	11	5	673ZZx2	6 2.5	
	S3M100	4	19.10	18.34	22	14	11	15	6	674ZZx2	7 2.5
	S3M150	5				17	21	9	685ZZx2	11 5	
24	S3M060	5	22.92	22.16	25	16	7	11	11	695ZZx2	13 4
	S3M100	5				11	15				
	S3M150	5				17	21				
25	S3M100	6	23.87	23.11	28	18	11	15	13	696ZZx2	15 5
	S3M150	6				17	21				
	S3M100	6	24.83	24.07	28	18	11	15	13	696ZZx2	15 5
26	S3M100	6	26.74	25.98	30	20	11	15	13	696ZZx2	15 5
	S3M150	6				17	21				
	S3M100	6	28.65	27.89	32	23	11	15	13	696ZZx2	15 5
30	S3M100	6	30.56	29.80	35	25	11	15	13	696ZZx2	15 5
	S3M150	6				17	21				
	S3M100	6	34.38	33.62	40	28	11	15	19.5	6900ZZx2	22 6
36	S3M100	10	38.20	37.44	44	32	11	15	19.5	6900ZZx2	22 6
	S3M150	10				17	21				
	S3M100	10	42.02	41.25	48	36	11	15	19.5	6900ZZx2	22 6
44	S3M100	10	45.84	45.07	50	38	11	15	19.5	6900ZZx2	22 6
	S3M150	10				17	21				
	S3M100	10	47.75	46.98	52	40	11	15	19.5	6900ZZx2	22 6
50	S3M100	10	57.30	56.53	61	46	11	15	19.5	6900ZZx2	22 6
	S3M150	10				17	21				
	S3M150	12				17	21	25	6001ZZx2	28 8	

Example  
Combination of these app. examples can be selected on our website. Details about Selection Procedure

e-Catalog Search Keyword #MA261 Search  
\* Enter the search keyword in the search box on e-Catalog. The search result will be shown in "Modular Assembler" area.

Alterations

Alterations	Flange Cut	Flange Not Swaged	Flange Swaged on One Side
Code	FC	NFC	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 ⊕ FC=F-2</p> <p>Ordering Code FC28</p>	<p>Flange is not installed. (Flange Included)</p>	<p>Flange installed by swaging only on either hub side (RFC) or the opposite side (LFC) at the time of shipment. (Flange 1 pc. Included)</p>