

Metal Fittings for Timing Belts

Overpressure Prevention Type

Metal Fittings for Timing Belts – Overpressure Prevention Type

RoHS 10

TBCK (1) Rack + (2) Support Plate

1 (Rack)

2 (Support Plate)

Materials: A6N01-T5
Surface Treatment: Clear Anodize
Accessories: Hex Socket Head Cap Screw

Type	Part Number		W	A	B	T ₁	T ₂	T ₃	h	L	P	M	d	Included Screw	Number of Mounting Holes Number of Hole(s)
	Belt Type	Belt Nominal Width													
TBCK (1)+(2)	XL	025	6.4	66	24	6	4.5	2.10	1.30	56	13	M4	4.5	M4-10	6
		037	9.5		26										
		050	12.7		30										
	L	050	12.7	124	32	8	5.5	3.33	2.05	111	21	M5	5.5	M5-12	8
		075	19.1		38										
		100	25.4		46										
	H	075	19.1	165	38	10	6.5	4.15	2.55	147	27	M5	5.5	M5-14	8
		100	25.4		46										
		150	38.1		58										
	S3M	060	6	39	18	4	3.5	1.94	1.25	31	11	M3	3.4	M3-6	6
		100	10		26										
		150	15		32										
	S5M	150	15	65	32	6	5.5	3.14	2.00	51	22	M4	4.5	M4-10	6
		250	25		42										
		300	30		50										
	S8M	150	15	104	34	8	6.5	4.72	3.00	84	23	M5	5.5	M5-12	8
		250	25		44										
		300	30		50										
	MA3	070	7	39	20	4	3.5	1.8	1.1	31	13	M3	3.4	M3-6	6
		100	10		24										
150		15	29												
MA5	100	10	65	26	6	5.5	2.9	1.7	51	7	M4	4.5	M4-10	6	
	150	15		32											
	250	25		37											
MA8	150	15	104	34	8	6.5	4.3	2.8	84	23	M5	5.5	M5-12	8	
	200	20		39											
	250	25		45											
T5	100	10	65	26	6	4.5	2.20	1.40	51	17	M4	4.5	M4-10	6	
	150	15		32											
	200	20		38											
T10	150	15	130	34	8	6.5	4.30	2.70	111	23	M5	5.5	M5-12	8	
	200	20		40											
	250	25		46											
AT5	150	15	65	32	6	4.5	2.6	1.40	51	22	M4	4.5	M4-10	6	
	200	20		40											
	250	25		44											
AT10	150	15	130	34	8	6.5	4.30	2.70	111	23	M5	5.5	M5-12	8	
	200	20		40											
	250	25		44											

- ⓘ This product is designed to be compatible with the Open End Belts (Urethane Type).
- ⓘ The tooth profile complies with the Timing Belts and the Open End Belts. When using this product for other types of belts, check the back thickness of the belts and dimensions of this product before use.
- ⓘ A Dimension is set for engaging 6 teeth (fitting).

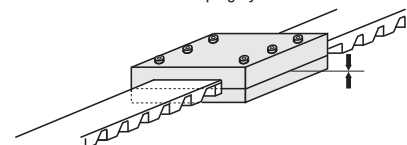
Part Number Example

Part Number: **TBCK -XL 025**

Type: **TBCK** Type of Belt: **-XL** Belt Nominal Width: **025**

Features

Prevents excessive belt clamping by face-to-face contacting of the plates.



Metal Fittings for Timing Belts

Overpressure Prevention Metal Fittings Hole Position Configurable Type

Feature: Metal Fittings for timing belts with specifiable mounting hole positions.

Metal Fittings for Timing Belts – Overpressure Prevention Metal Fittings Hole Position Configurable Type

RoHS 10

TBCF Rack only

4H 4 Holes

6H 6 Holes

8H 8 Holes

Hole Machining Details: N (Through Hole), M (Tapped Hole)

Machining Limits: d, 0.5

*1 L Dimension: $A \geq L + M(d) + 6$
 $L/2, L/3 \geq M(d) + 3$
*2 P Dimension: $B \geq P + M(d) + 4$
 $P \geq W + M(d) + 1$

Materials: A6N01-T5
Surface Treatment: Clear Anodize

Type	Part Number		Number of Hole(s)	Selection		L (1 mm Increment)	P (0.5 mm Increment)	W	A	B	T ₁	h				
	Belt Type	Belt Nominal Width		Hole Spec.	Nominal Dia.											
TBCF	MXL	025	4	N	3	6-17	11	6.4	26	18	4	0.60				
		037			3								14-15	9.5	22	
		050			3 4								17-19	12.7	26	
	XL	025	6	N	3	6-57	11-17	6.4	66	24	25	6	1.30			
		031												12-18	7.9	26
		037												14-19	9.5	30
	L	050	8	N	4	6-115	17-23	12.7	124	32	38	8	2.05			
		075												24-31	19.1	46
		100												30-39	25.4	58
	H	075	10	N	5	6-156	43-51	3.1	165	46	58	10	2.55			
		100												24-31	19.1	38
		150												30-39	25.4	46
	S2M	040	6	N	3	6-17	8-9	4	26	16	18	4	0.90			
		060												10-11	6	24
		100												14-17	10	28
	S3M	060	8	N	3	6-30	10-11	6	39	18	22	8	1.25			
		100												14-15	10	28
		150												19-21	15	34
	S5M	100	10	N	3	6-56	14-19	10	65	26	32	6	2.00			
		150												19-25	15	42
250		29-35												25	44	
S8M	150	12	N	3	6-95	19-27	15	104	34	44	8	3.00				
	250												29-37	25	50	
	300												34-43	30	60	
MA3	070	4	M	3	6-30	11-13	7	39	20	24	4	1.1				
	100												14-17	10	29	
	150												19-22	15	34	
MA5	100	6	M	3	6-56	14-19	10	65	26	32	6	1.7				
	150												19-25	15	42	
	250												29-35	25	44	
MA8	150	8	M	3	6-95	19-27	15	104	34	44	8	2.8				
	200												24-32	20	50	
	250												29-38	25	60	
T5	100	6	N	4	6-56	14-19	10	65	26	32	6	1.40				
	150												19-25	15	42	
	200												24-31	20	44	
T10	250	8	N	5	6-56	29-36	25	130	34	40	8	2.70				
	150												19-27	15	40	
	200												24-33	20	44	
AT5	100	6	N	3	6-121	19-27	15	130	26	32	6	1.40				
	150												24-33	20	44	
	200												29-37	25	50	
AT10	150	8	N	3	6-121	44-53	40	130	60	70	8	2.70				
	200												54-63	50	44	
	250												59-68	55	50	

- ⓘ Metal fitting of S_M type can be used with a P_M type belt. ⓘ The tooth profile complies with the Timing Belts and the Open End Belts. ⓘ When selecting number of holes 8H, specify L dimension in multiples of 3.
- ⓘ When selecting L, P dimensions, make sure that they satisfy the conditions mentioned on *1 or *2 positioned on the right bottom of Drawing.

Part Number Example

Part Number: **TBCF -S5M 250 - 4H - M4 - L48 - P31.5**

Type: **TBCF** Belt Type: **S5M** Belt Nominal Width: **250** Number of Hole(s): **4H** Hole Specification, Nominal Dia.: **M4** L: **L48** P: **P31.5**

Part Number Alterations

Part Number: **TBCF-S5M150 - 6H - M4 - L30 - P22 - AC45**

Type: **TBCF** Belt Type: **S5M** Belt Nominal Width: **150** Number of Hole(s): **6H** Hole Spec. / Nominal Dia.: **M4** L: **L30** P: **P22** (AC, BC): **AC45**

Alteration Code	A Dimension Cut		B Dimension Cut	
	AC	BC	AC	BC
Spec.	Cuts A dimension in 1 mm increment.	Cuts B dimension in 1 mm increment.	AC	BC
	$AC \geq L + M(d) + 6$	$BC \geq P + M(d) + 4$		