

Chain Guide Tensioners

Chain Guide Tensioners

RoHS 10

TSBXA (Standard Type)

TSBxB (Tension Adjusting Type)

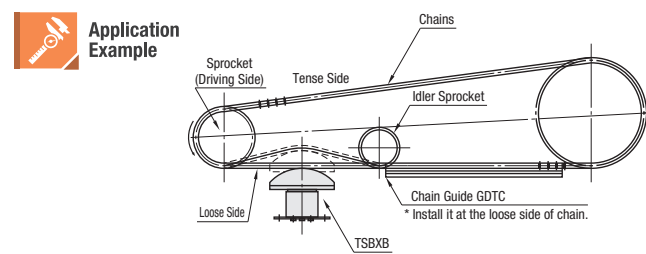
Type	Material	
	Chain Guide Part	Main Body
TSBXA	Ultra High-Molecular-Weight Polyethylene (Green)	Plastic
TSBxB	Ultra High-Molecular-Weight Polyethylene (Green)	Steel

Operating Temperature: -10~60°C
⊘ Never remove the stopper screw.

Type	Part Number		T ₁	h	Applicable Chain
	No.	Load Type (Refer to Fig.1)			
TSBXA Standard Type	35	L	4	2.6	CHE35
	35	H			
	40	L	7	2.6	CHE40/CHE50
	40	H			
TSBxB Tension Adjusting Type	60	H	11	3.5	CHE60
	40	L	6.3	2.6	CHE40
	40	H			
	50	L	8	2.6	CHE50
	50	H			

Part Number Example

Part Number: **TSBXA40H**
TSBxB50L



Features

UHMW with excellent abrasion resistance is used for the guide part of the Chain Guide Tensioner. Force of built-in spring constantly maintains appropriate tension automatically, and enhance the performance and extend life without maintenance.

How to Install

Install by putting the guide onto the chain, firmly push until reaching a location where the tension stroke does not exceed 50% of that during empty load (40 mm). If necessary, adjust location by using shims or spacers.

Tension Adjusting Method (TSBxB)

For TSBxB, it is possible to adjust tension load in three stages by loosening the spring retention screw. During shipment, all three pieces of springs are not released. Loosen the center screw when required to release only one maintaining screw, loosen screws on both sides when 2 springs need to be released. Provide enough free space below the retention screw to allow access for tension adjustments, after installation. The springs can be returned to retained state by turning the retention screws while pressing the guide down.

*There is no spring retention screw in TSBXA.

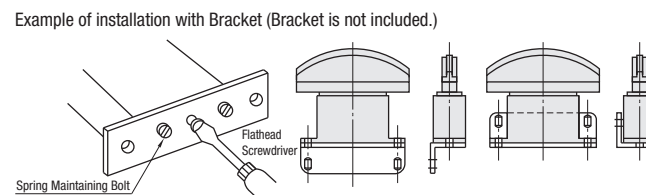


Table 1: Load Type

Type	Loosening Retaining Screw Qty.	Tension Load (N)			
		Load Type L		Load Type H	
		min.	max.	min.	max.
TSBXA	(Not Provided)	37	64	64	137
	1 Pc.	37	64	64	137
TSBxB	2 Pcs.	75	127	127	274
	3 Pcs.	112	191	191	412

Chain Guides with C-Channel / Raised Track / Channel

L Dimension Selectable & Configurable

Chain Guides with C-Channel – L Dimension Selectable & Configurable

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Type				Material	
L Dimension Selectable without Hole Machining		L Dimension Configurable with Hole Machining		Guide Rail	C-Channel
Raised Track	Channel	Raised Track	Channel	Ultra High-Molecular-Weight Polyethylene	Galvanized Steel
GDTC	GDCC	LGTC	LGCC		Stainless Steel
GDTS	GDCS	LGTS	LGCS		

Raised Track

Channel

$*Q = \frac{L - P(K-1)}{2} \geq 7$

⊘ C-Channels can be pulled out.

L Dimension Selectable without Hole Machining

Part Number	Type	No.	L (mm)	A	B	C	D	E	F	G	H	t	Mass (kg/m)
GDTC (Steel)		35	450	4.4	2.3	20	17	14	17	10	10	1.5	0.67
GDTS (Stainless Steel)		40	950	7.4	2.4								
		50	2000	8.8	2.8								
Channel													
GDCC (Steel)		35	450	4.5	4.4	30	24	5.3	9.9	7.8	9.3	1.5	1.46
GDCS (Stainless Steel)		40	950	5.0	7.4								
		50	2000	6.4	8.8								

L Dimension Configurable with Hole Machining

Part Number	Type	No.	L (mm)	K	No. of Holes	P Hole Pitch (mm)	A	B	C	D	E	F	G	H	t	M	ℓ	d	d ₁	h	Mass (kg/m)
LGTC (Steel)		35	200~2000	0~10	Hole=1 cannot be specified.	50~500	4.4	2.3	20	17	14	17	10	10	1.5	M4	6	—	—	—	0.67
LGTS (Stainless Steel)		40					7.4	2.4													
		50					8.8	2.8													
Channel																					
LGCC (Steel)		35	200~2000	0~10	Hole=1 cannot be specified.	50~500	4.5	4.4	30	24	5.3	9.9	7.8	9.3	1.5	M6	9	—	—	—	1.46
LGCS (Stainless Steel)		40					5.0	7.4													
		50					6.4	8.8													

⊘ P selection is unnecessary when No. of hole is 0. ⊘ Hole machining is not applicable to Channel No. 60. ⊘ Ultrahigh molecular weight polyethylene may change in dimensions as its stretch rate changes by temperature.

Part Number Example

Part Number: **GDCC50 - 450**
LGTC40 - 860 - K8 - P100
LGCS60 - 1600 - K0

Raised Track / Channel

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Type		Material
Raised Track	GDTC	Ultra High-Molecular-Weight Polyethylene
Channel	GDCC	Ultra High-Molecular-Weight Polyethylene

Raised Track

Channel

Example of Installation

L Dimension Configurable Type

Part Number	Type	No.	L (mm)	A	B	C	D	E	F	G	H	Mass (kg/m)
GDTC		40	450	7.4	2.4	20	10	—	—	—	—	0.16
		50	950	8.8	2.8							
		60	2000	11.8	3.5							
Channel												
GDCC		40	450	5.0	7.4	30	35	8.3	13.2	11.7	13.4	0.58
		50	950	6.4	8.8							
		60	2000	7.4	11.8							

⊘ Ultrahigh molecular weight polyethylene may change in dimensions as its stretch rate changes by temperature.

Part Number Example

Part Number: **GDT50 - 450**
GDC60 - 2000