

Guide Channel System

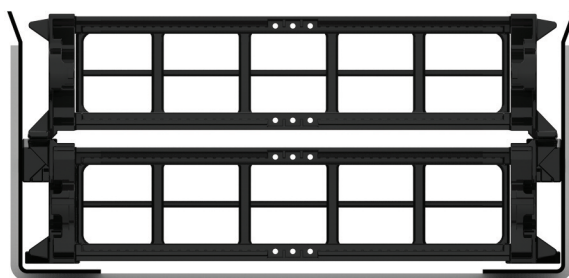
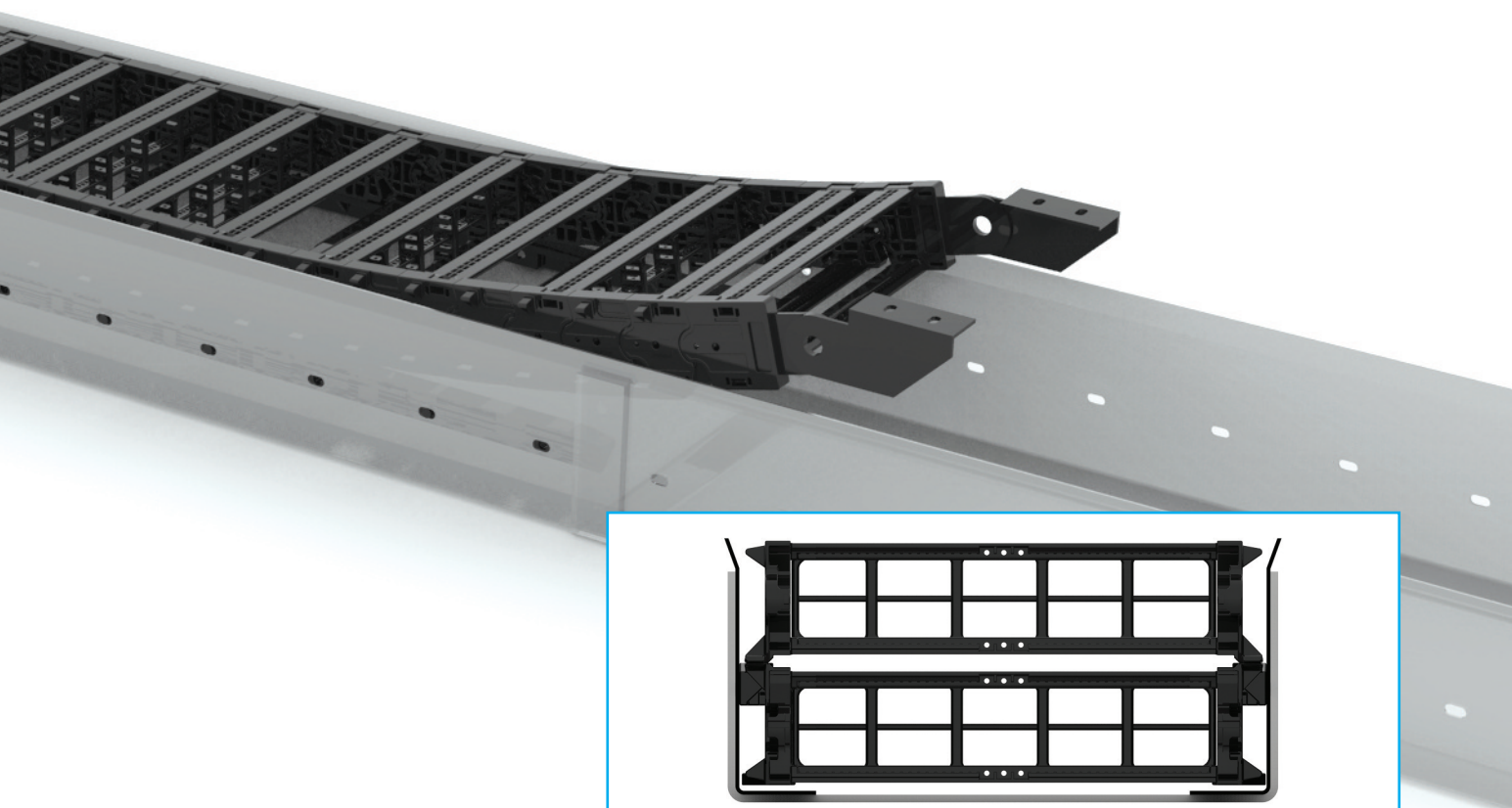


>> General information

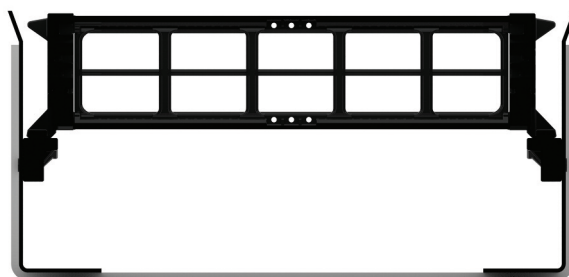
Item	Value
Material	Steel or SUS
Standard-1	Steel + Zn plating
Standard-2	Steel + Zn plating + Powder coating
Color	Silver, Black, Ivory

>> Available Product list with Guide Channel

Product Model	Product type
Shift Chain	ST044S ST044ES, ST072ES, ST095ES, ST120ES ST044RS, ST072RS, ST095RS, ST120RS, ST150RS ST044ERS, ST072ERS, ST095ERS, ST120ERS
nsb Chain	nsb050S, nsb065S, nsb080S



A-zone

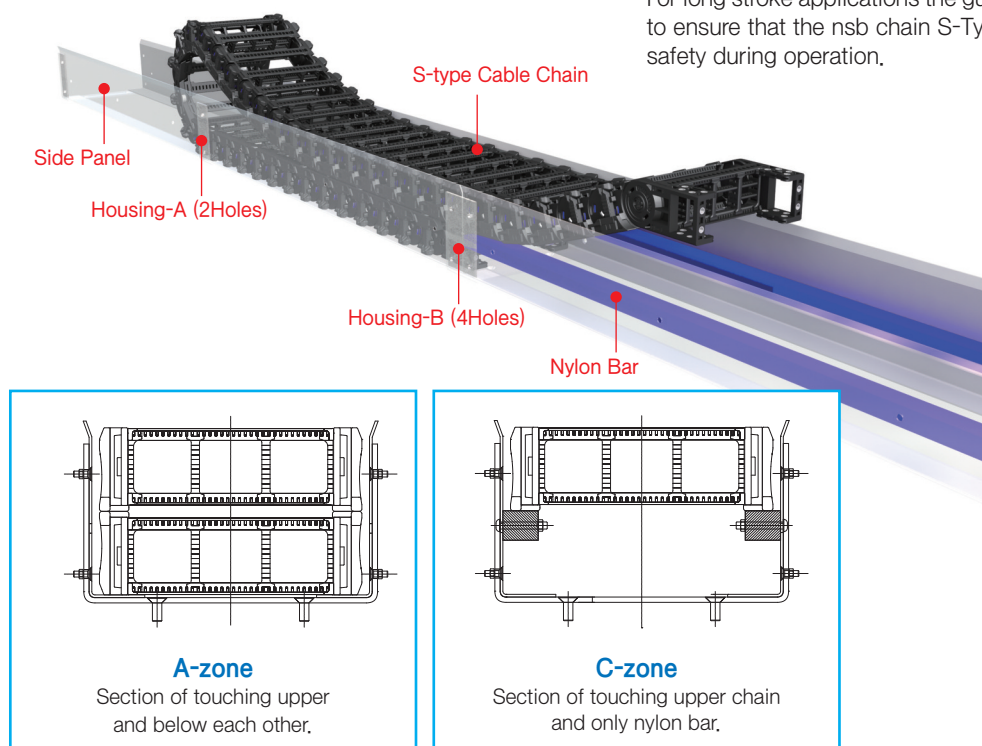


C-zone

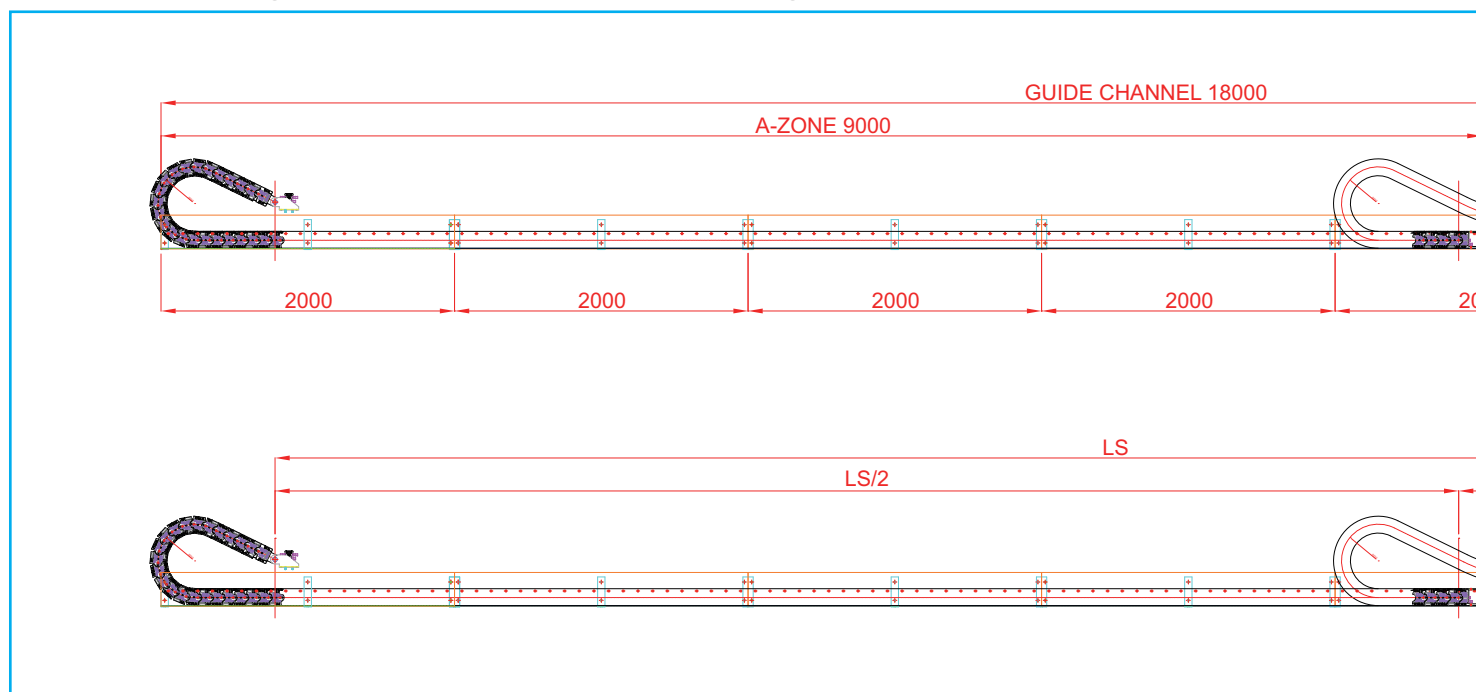
Guide Channel System

>> Guide Channel

For long stroke applications the guide channel is applied to ensure that the nsb chain S-Type stays on track and safety during operation.

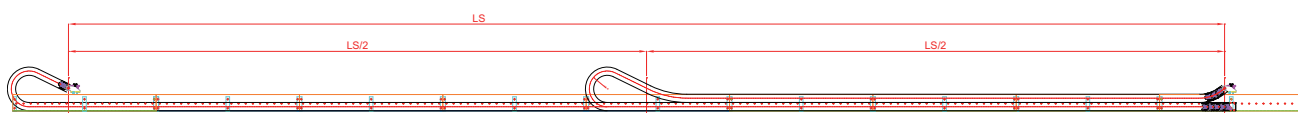


>> Understanding of Guide channel drawing



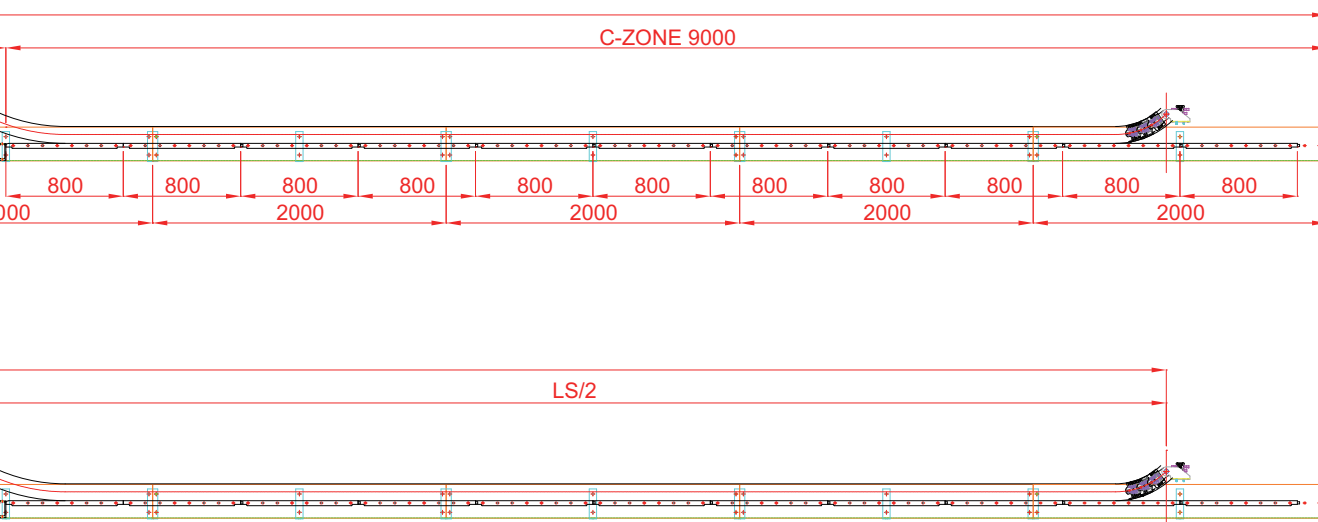
>> Diverse application of guide channel

Single Chain application : Fixing bracket should be at the end of guide channel.



10. *Journal of the American Academy of Child and Adolescent Psychiatry*, 35, 10, 1203-1212.

Section Drawing (C-Zone)	Dim	Contents
	A	Outer width of cable chain
	B	Inner height of cable chain
	C	Inner width of cable chain(=Frame size)
	D	Outer height of cable chain
	W	Space between cabel chain and guide channel
	NH	Height between surface of nylon bar and guide channel.



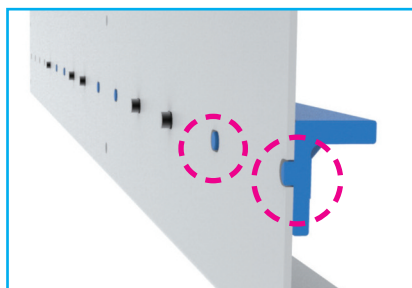
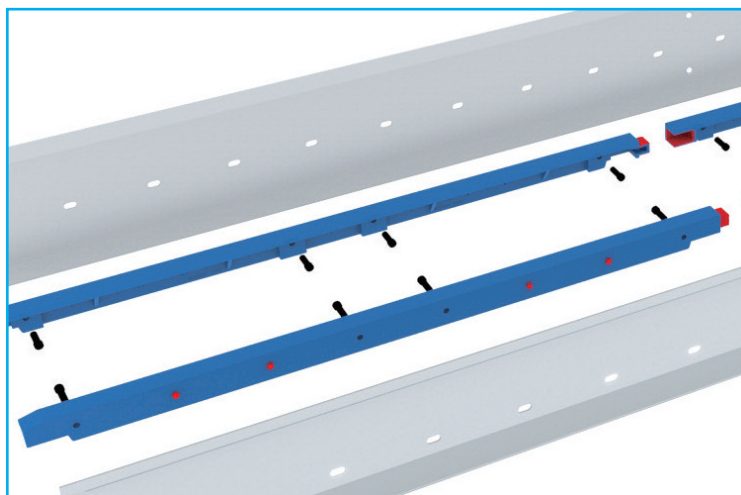
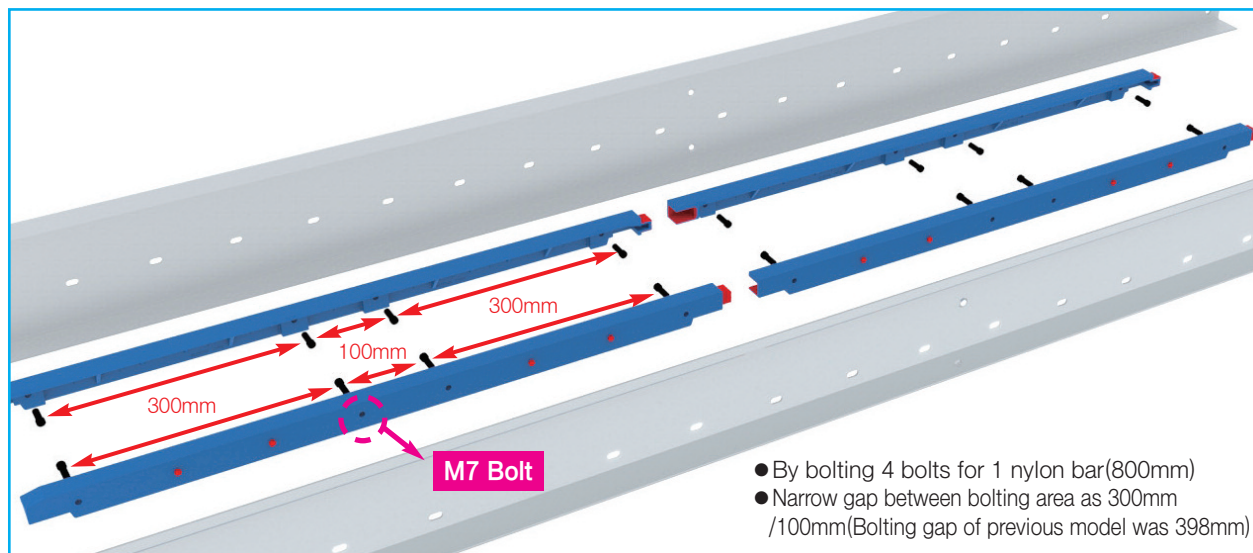
Guide Channel System

>> Nylon Bar

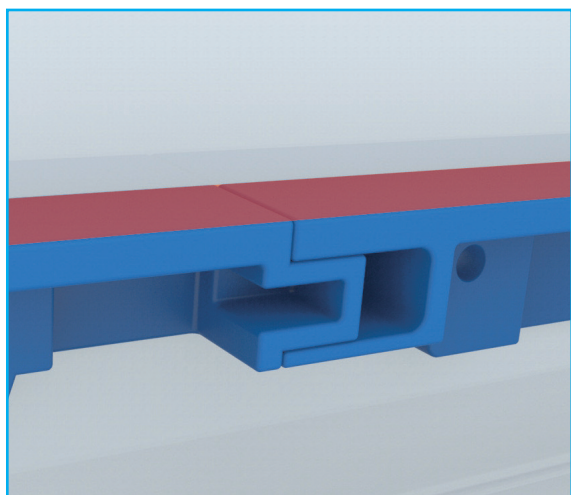
It is a supporting unit for cable chain, when cable chain comes to C-Zone, it has a role of supporting upper cable chain.

>> Characteristic of nylon bar

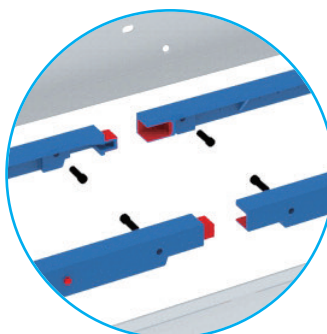
1 *Secure and stable structure!*



- By making 4 bumps per 1 nylon bar(800mm).
- It can avoid bolt loosening and guarantee long life span.



- As each nylon bar gets connected each other, it is more stable than previous one.
- Its design has been changed for being easy to assemble.
- Moreover, as there's no interval(gap), it can make smooth sliding as well.

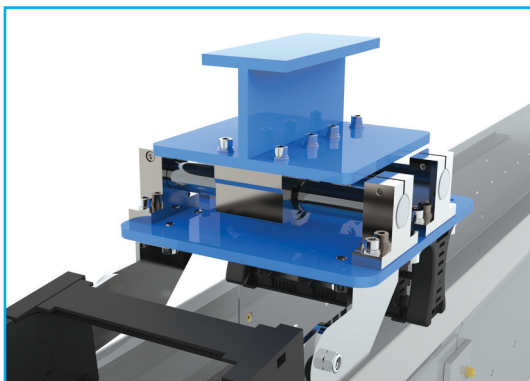


2 Low dust!



- Same material with chain.
- It is low dust and anti-abrasively due to its raw material which is same with chain (Polyamide6+GF30%)
- By reducing narrow cross-section, abrasion part could be fixed regularly. It can make cable chain move smoothly and stably. It creates long life span compared to previous model.

» Moving Bracket (Special moving arm)

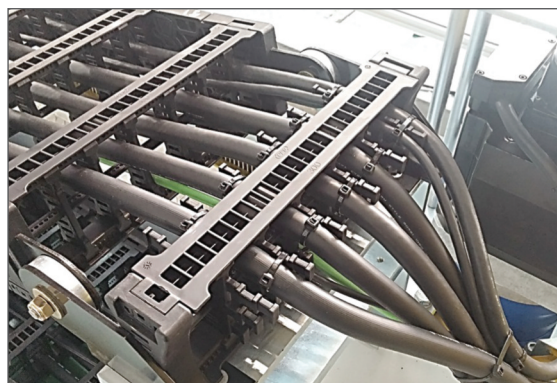


- There are several types of moving brackets and moving arm.
- For over 80 meters crane and any kinds of strokes, special moving arm should be considered to prevent breakage during operation. When you need special moving arm design, please contact to overseas_info@cpsystem.kr

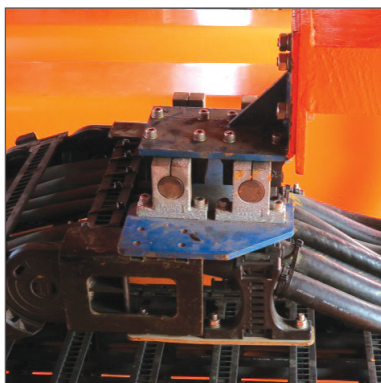
Standard Moving bracket



Standard Moving bracket with System tie wrap (STW)



Special Moving arm

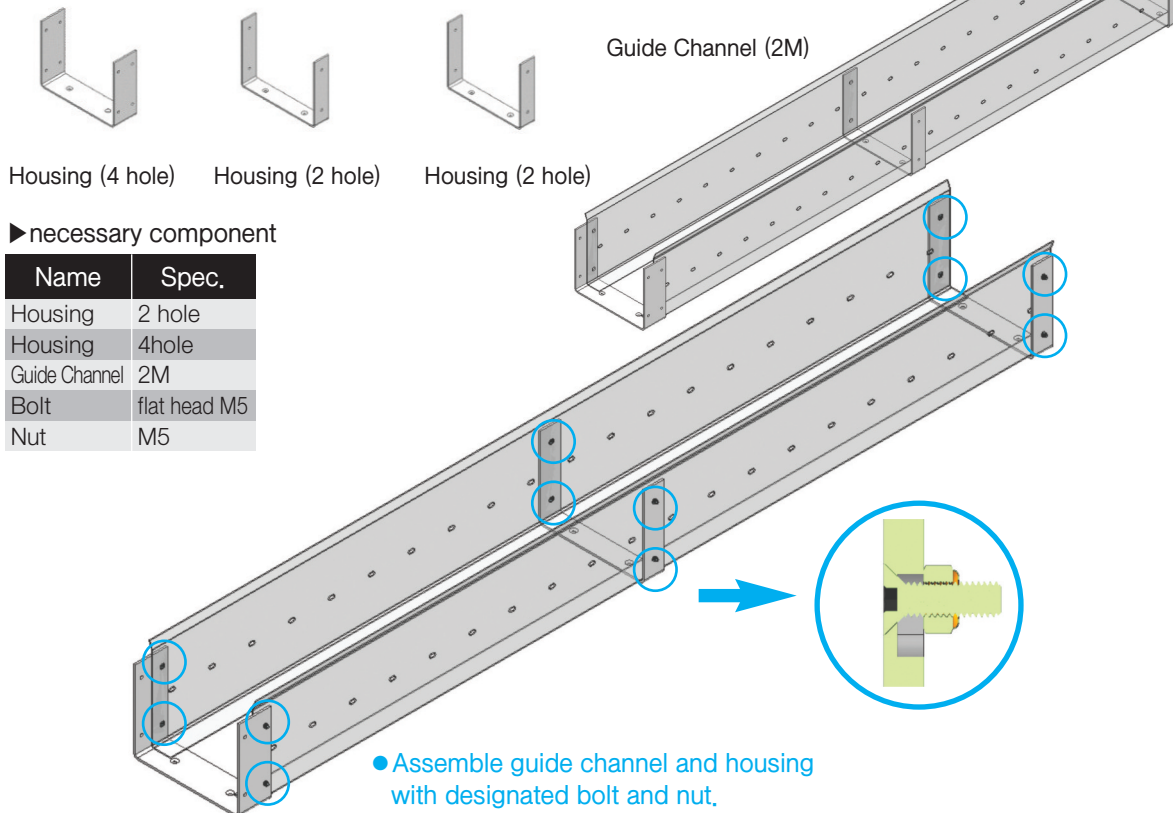


Guide Channel System

>> Assembly procedure of Guide Channel

1 A-1 Section

- Position guide channel and housing at correct area.



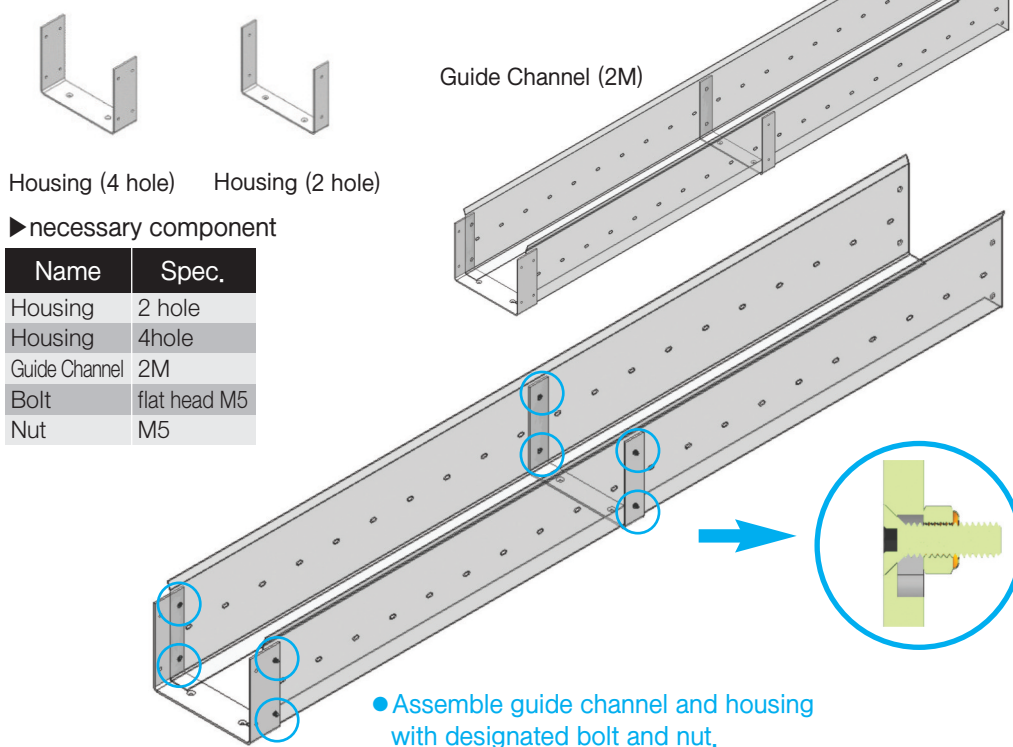
►necessary component

Name	Spec.
Housing	2 hole
Housing	4hole
Guide Channel	2M
Bolt	flat head M5
Nut	M5

- Assemble guide channel and housing with designated bolt and nut.

2 A-2 and A-3 Section

- Position guide channel and housing at correct area.



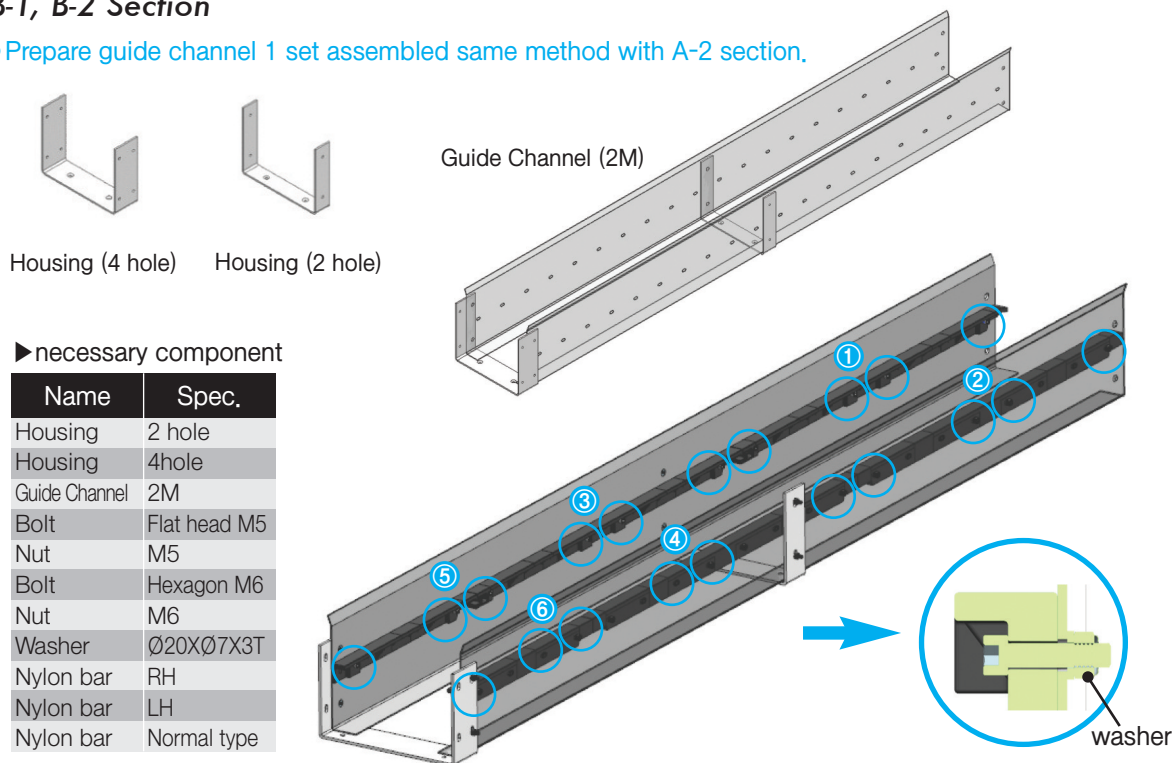
►necessary component

Name	Spec.
Housing	2 hole
Housing	4hole
Guide Channel	2M
Bolt	flat head M5
Nut	M5

- Assemble guide channel and housing with designated bolt and nut.

3 B-1, B-2 Section

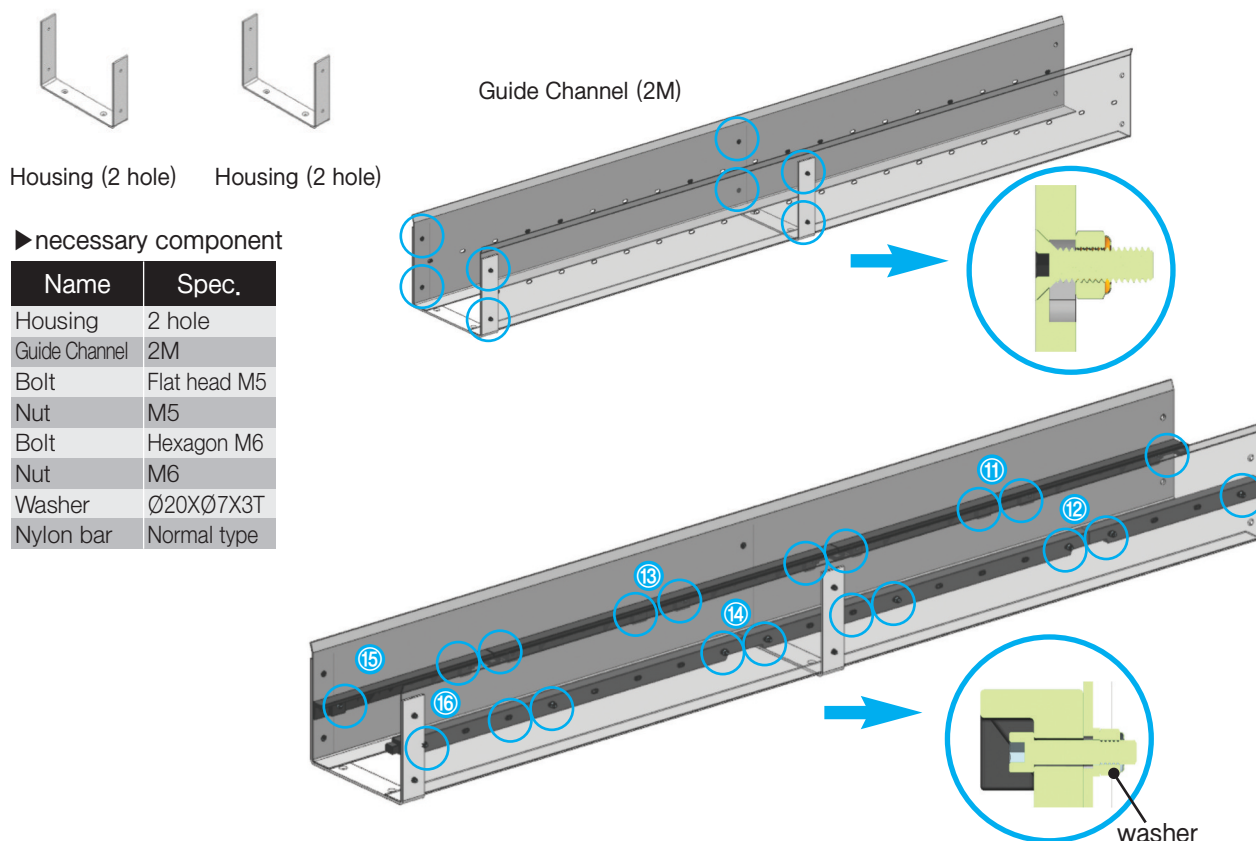
- Prepare guide channel 1 set assembled same method with A-2 section.



- Assemble nylon bar from ① to ⑥ but do not cut the extra 400mm of nylon bar from each ⑤ and ⑥. They will be assembled with B2 section's guide channel

4 B-3 Section

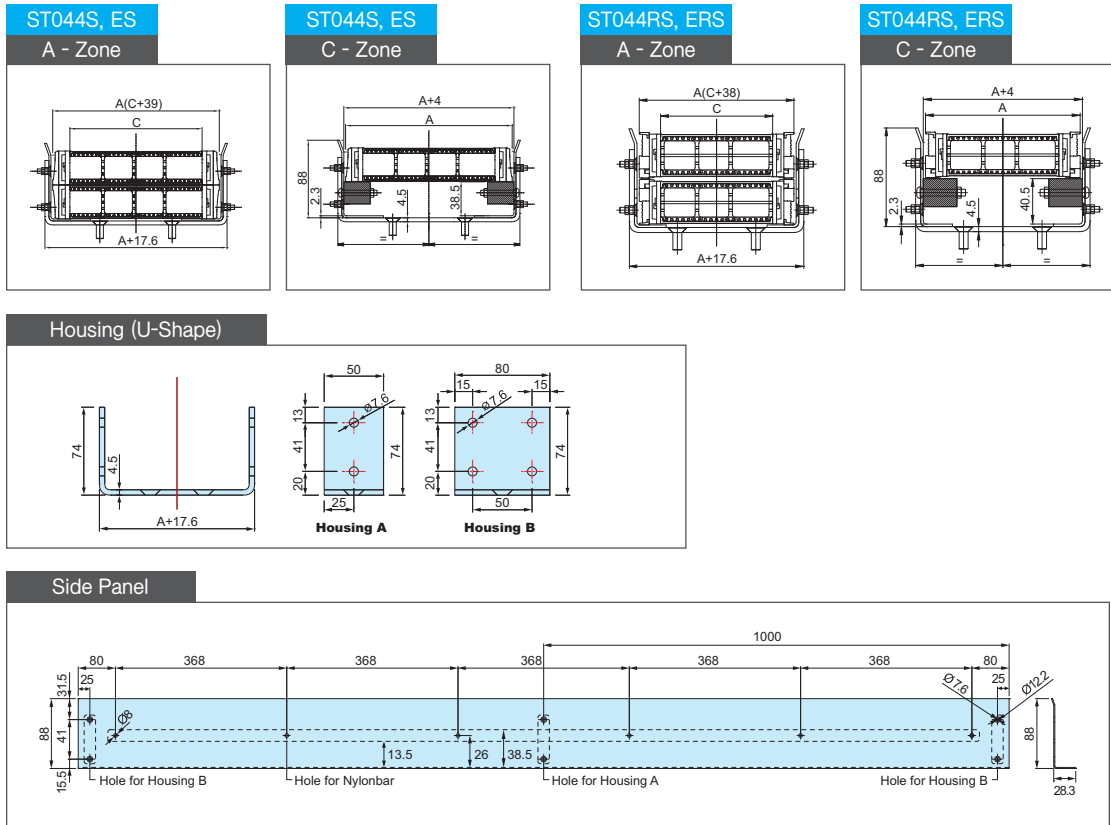
- Assemble guide channel and housing with designated bolt and nut.



- Cut the extra 400mm of nylon bar at ⑮ and ⑯
- 12M Guide channel assembly sequence assembly from A-1 , A-2 , A-3 , B-1 , B-2 , and finally B-3.

ST044S, ES, RS, ERS

>> Guide channel



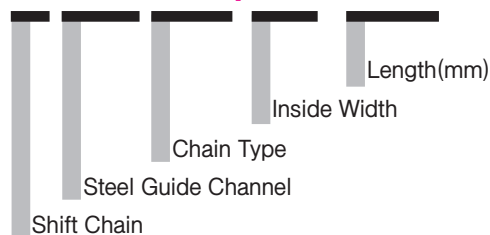
>> Guide channel dimension

ST044S		ST044ES		ST044RS		ST044ERS	
C value	A value	C value	A value	C value	A value	C value	A value
35	74	35	74	35	73	35	73
50	89	55	94	50	88	55	93
55	94	75	114	55	93	75	113
75	114	100	139	75	113	100	138
100	139			100	138		
125	164			125	163		
150	189			150	188		
175	214			175	213		
200	239			200	238		

- ▶ C value : Frame width
- ▶ A value : Outer width of cable chain

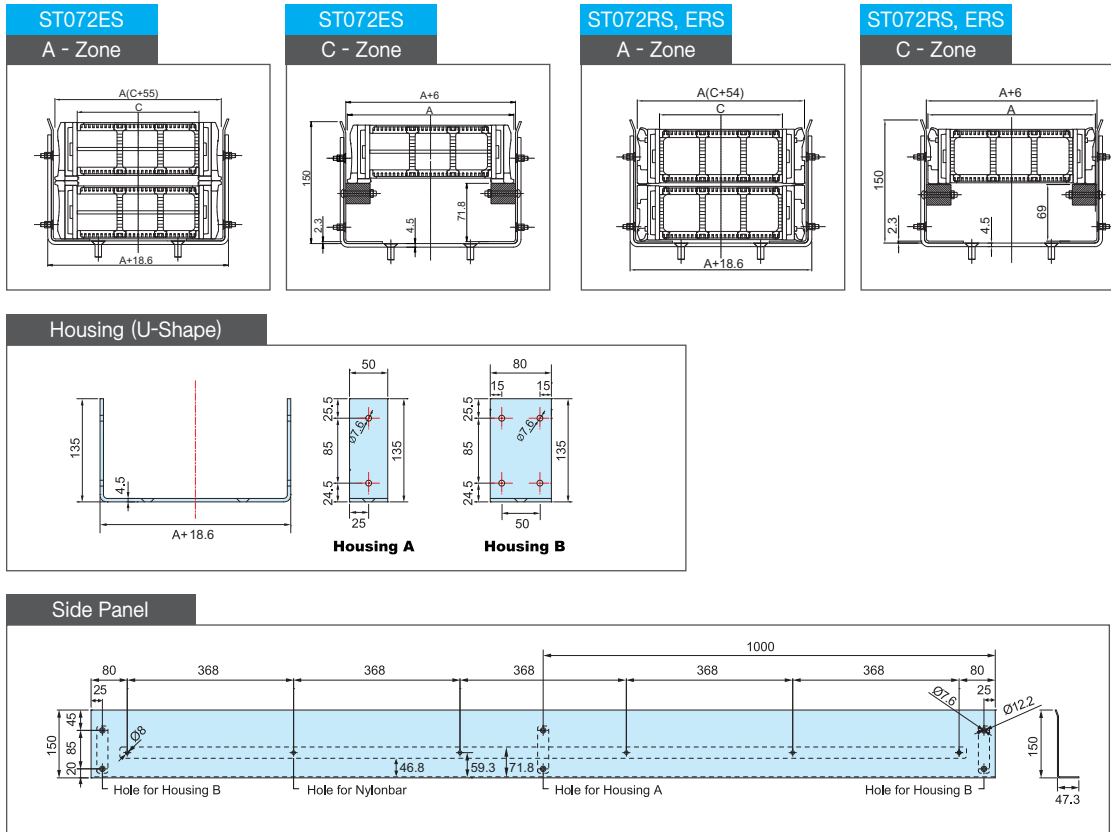
>> Guide channel ordering

ST-GCS 044S, 100 : 200M



ST072ES, RS, ERS

>> Guide channel



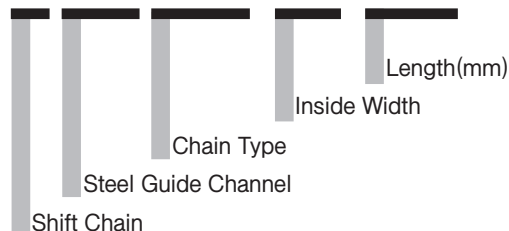
>> Guide channel dimension

ST072ES		ST072RS		ST072ERS	
C value	A value	C value	A value	C value	A value
50	105	50	104	50	104
75	130	75	129	75	129
100	155	100	154	100	154
125	180	125	179	125	179
150	205	140	194	150	204
		150	204		
		165	219		
		175	229		
		190	244		
		200	254		
		240	294		
		250	304		
		300	354		

- ▶ C value : Frame width
- ▶ A value : Outer width of cable chain

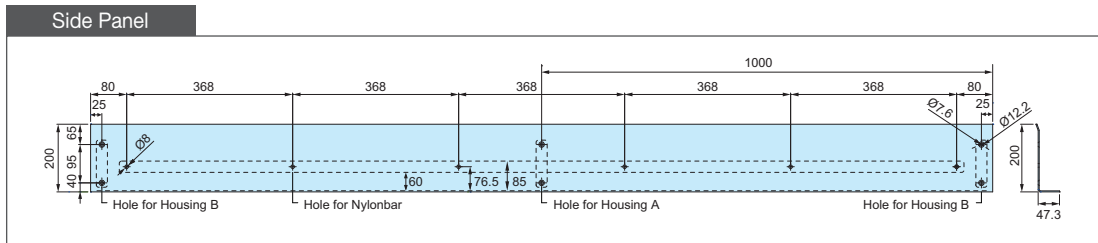
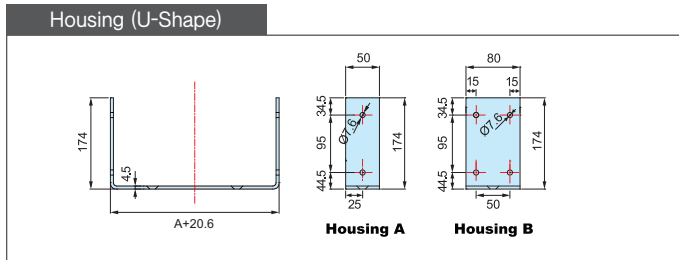
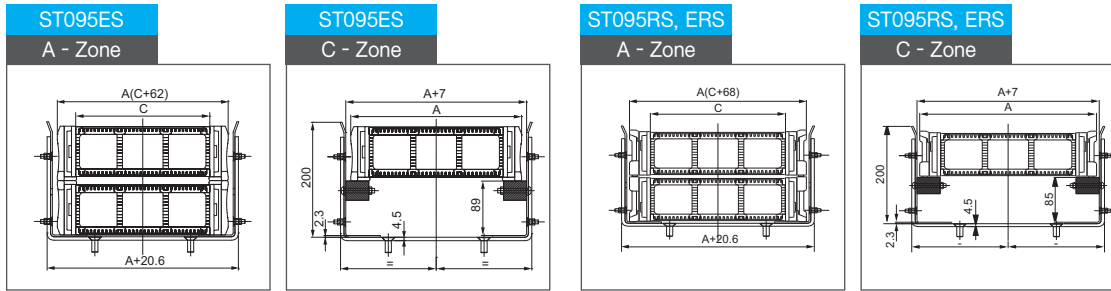
>> Guide channel ordering

ST-GCS 072ES, 150 : 200M



ST095ES, RS, ERS

>> Guide channel



(Dimensions in mm)

>> Guide channel dimension

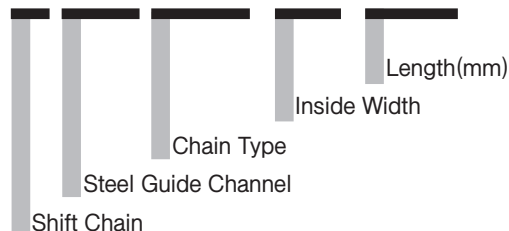
ST095ES		ST095RS		ST095ERS	
C value	A value	C value	A value	C value	A value
100	162	75	143	100	168
125	187	100	168	125	193
150	212	125	193	150	218
175	237	150	218	175	243
200	262	175	243	200	268
		190	258		
		200	268		
		240	308		
		250	318		
		300	368		
		350	418		
		400	468		

► C value : Frame width

► A value : Outer width of cable chain

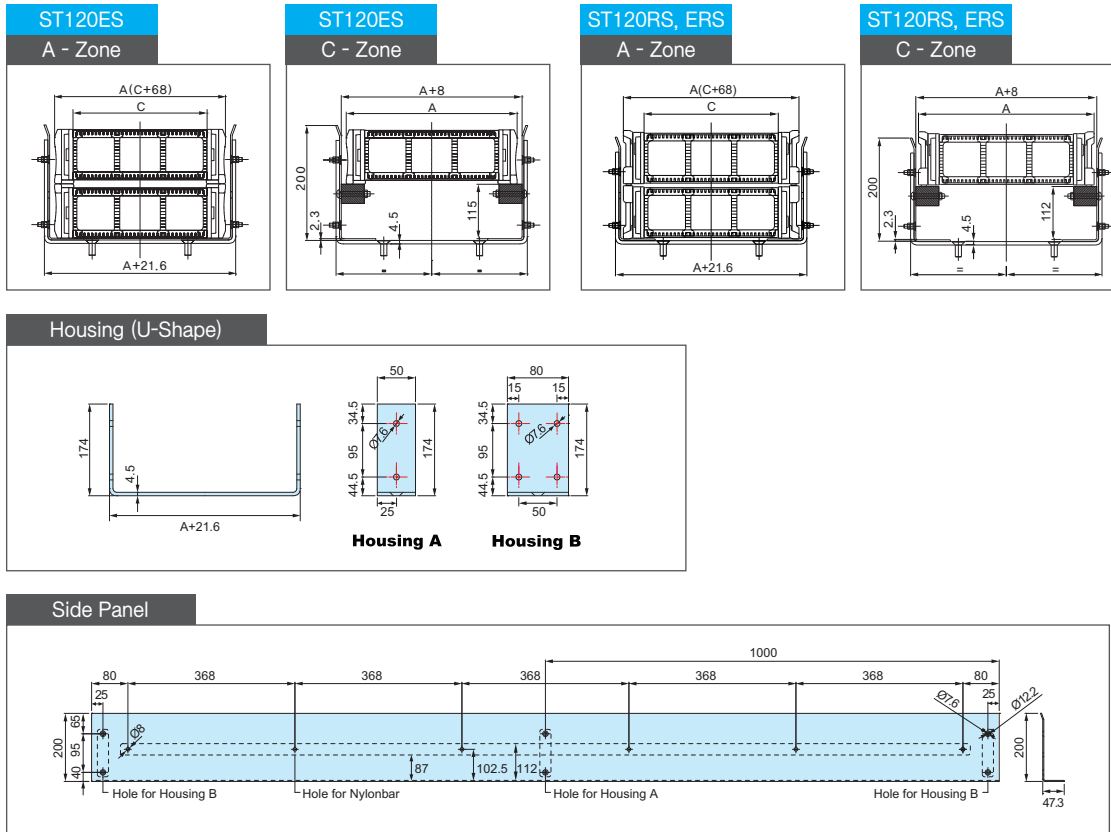
>> Guide channel ordering

ST-GCS 095ES, 175 : 200M



ST120ES, RS, ERS

» Guide channel



(Dimensions in mm)

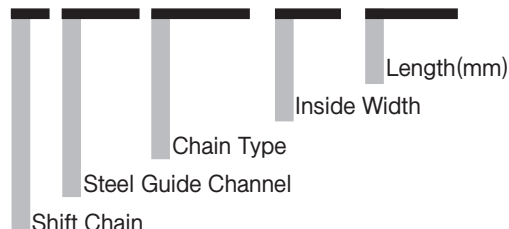
» Guide channel dimension

ST120ES		ST120RS		ST120ERS	
C value	A value	C value	A value	C value	A value
150	218	75	143	150	218
200	268	100	168	200	268
250	318	115	183	250	318
300	368	125	193	300	368
		150	218		
		175	243		
		200	268		
		240	308		
		250	318		
		290	358		
		300	368		
		350	418		
		400	468		
		450	518		
		500	568		
		550	618		
		600	668		

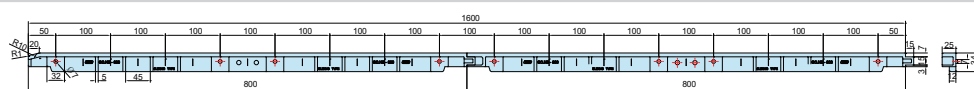
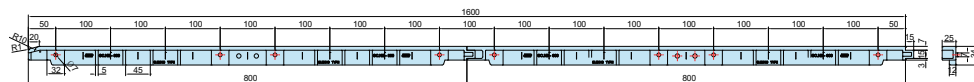
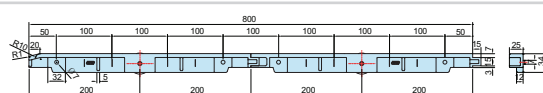
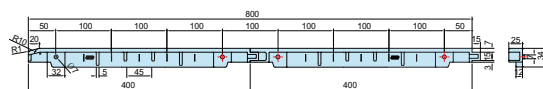
- C value : Frame width
- A value : Outer width of cable chain

» Guide channel ordering

ST-GCS 120ES, 175 : 200M



10. *Journal of the American Medical Association*, 2000; 284: 2689-2695.



>> Nylon bar ordering

GC,NB-800 R / N : 10ST

Q'ty(set)

Nylon Bar Type -N : Normal

$$-R : RH$$
$$-L : LH$$

Roller Type

Length(mm) 400, 800

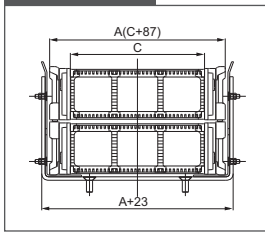
Guide Channel Nylon Bar

ST150RS, ERS

>> Guide channel

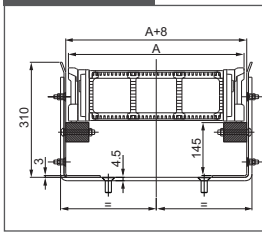
ST150RS, ERS

A - Zone

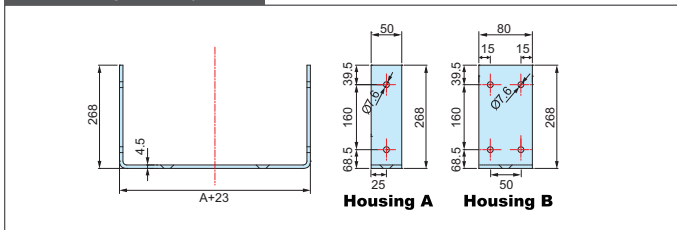


ST150RS, ERS

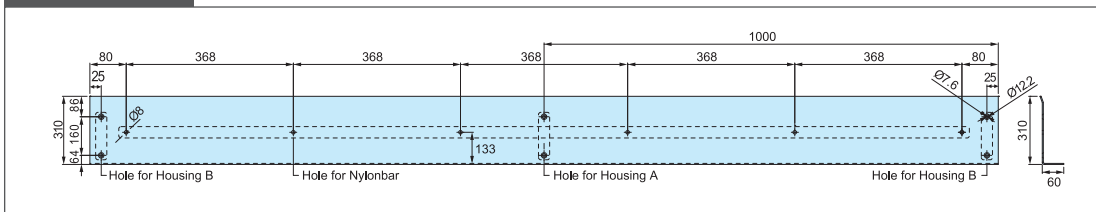
C - Zone



Housing (U-Shape)



Side Panel



(Dimensions in mm)

>> Guide channel dimension

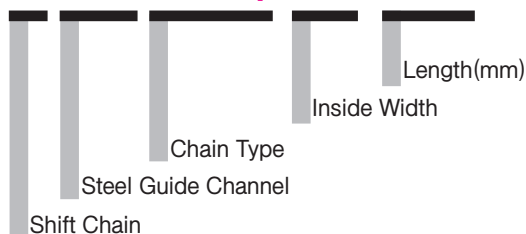
ST150RS		ST150ERS	
C value	A value	C value	A value
75	162	200	287
100	187	250	337
115	202	300	387
125	212	350	437
150	237	400	487
175	262		
200	287		
240	327		
250	337		
290	377		
300	387		
350	437		
400	487		
450	537		
500	587		
550	637		
600	687		

► C value : Frame width

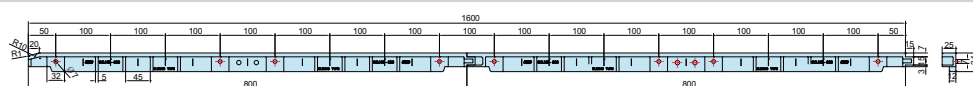
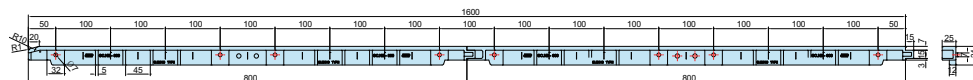
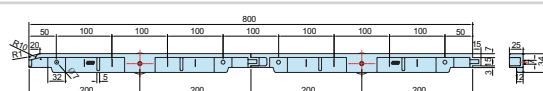
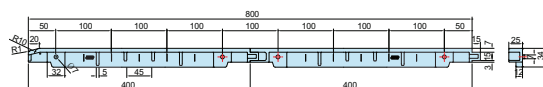
► A value : Outer width of cable chain

>> Guide channel ordering

ST-GCS 150RS, 200 : 200M



10. *Journal of the American Medical Association*, 2000; 284: 2689-2695.



>> Nylon bar ordering

GC,NB-800 R / N : 10ST

Q'ty(set)

Nylon Bar Type -N : Normal

$$-R : RH$$
$$-L : LH$$

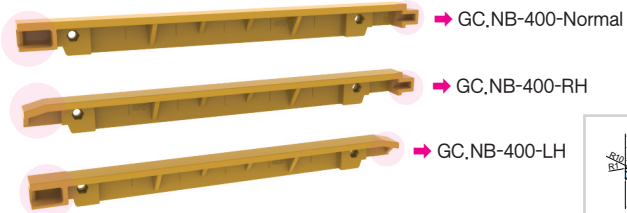
Roller Type

Length(mm) 400, 800

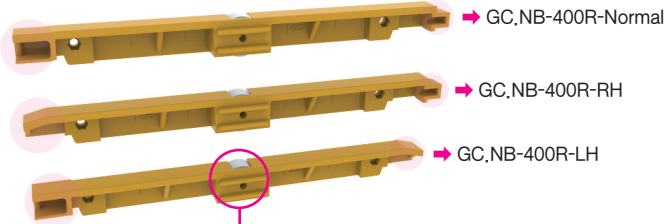
Guide Channel Nylon Bar

10. *Journal of the American Academy of Child and Adolescent Psychiatry*, 35, 10, 1179-1186.

GC.NB-400



GC.NB-400R (Roller type)

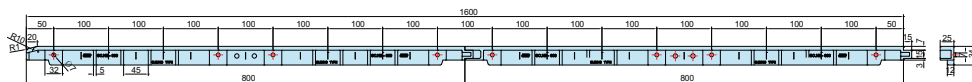


Technical drawing of a beam cross-section. The main section is a rectangle with a width of 800 mm and a height of 135 mm. The top reinforcement consists of 5 bars (5φ16), and the bottom reinforcement consists of 5 bars (5φ16). The beam is supported by a wall on the left and a column on the right. The wall has a thickness of 200 mm. The column has a diameter of 300 mm. The beam is embedded in the wall and column. The drawing shows the reinforcement layout and dimensions for the beam.

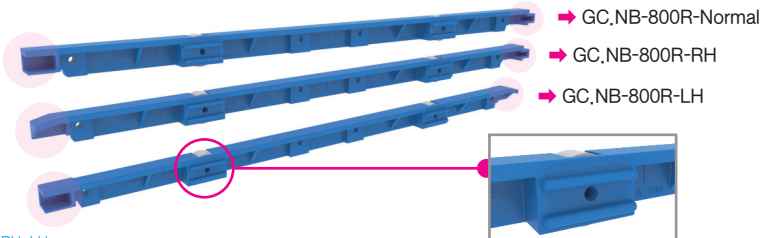
GC.NB-800



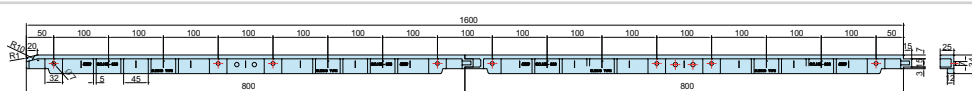
※ Bilateral symmetry for both RH, LH



GC.NB-800R (Roller type)



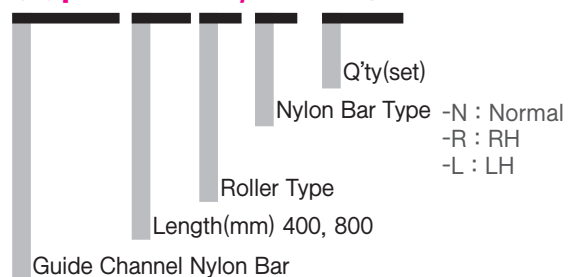
- ※ Bilateral symmetry for both RH, LH



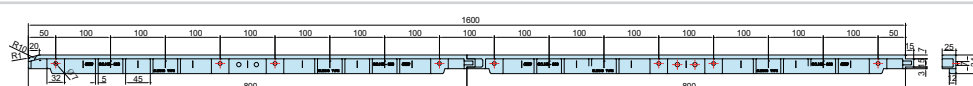
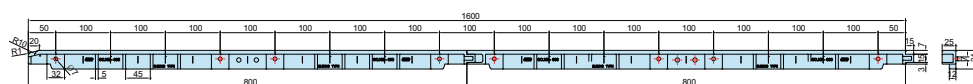
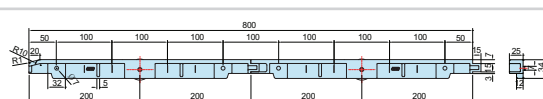
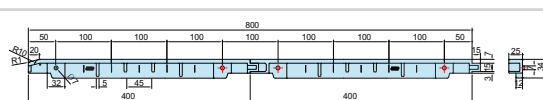
(Dimensions in mm)

» Nylon bar ordering

GC,NB-800 R / N : 10ST



10. *Journal of the American Medical Association*, 2000; 284: 2689-2695.



>> Nylon bar ordering

GC,NB-800 R / N : 10ST

Q'ty(set)

Nylon Bar Type -N : Normal

$$-R : RH$$
$$-L : LH$$

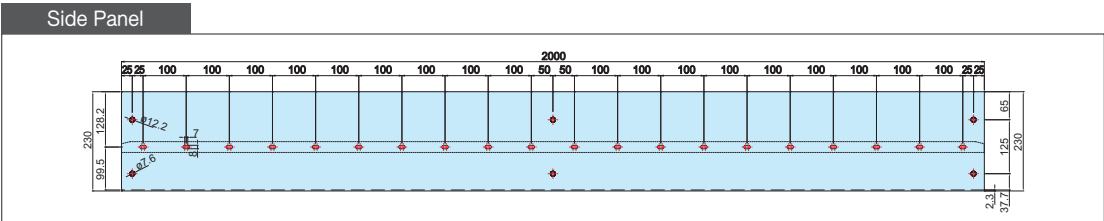
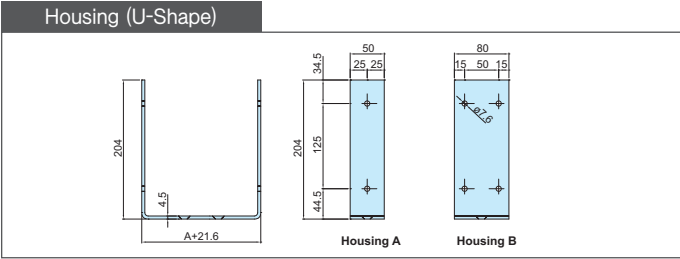
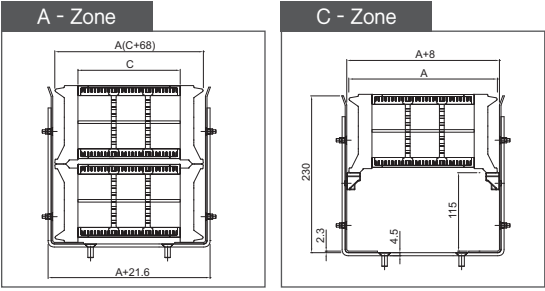
Roller Type

Length(mm) 400, 800

Guide Channel Nylon Bar

nsb080S

>> Guide channel



(Dimensions in mm)

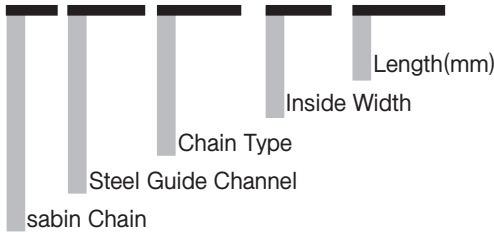
>> Guide channel dimension

nsb080S	
C value	A value
75	143
100	168
115	183
125	193
150	218
175	243
200	268
240	308
250	318
290	358
300	368
350	418
400	468
450	518
500	568
550	618
600	668

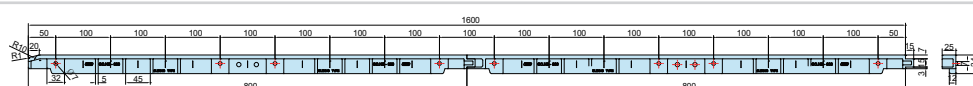
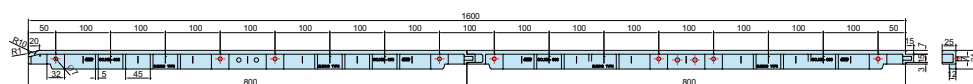
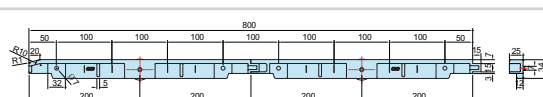
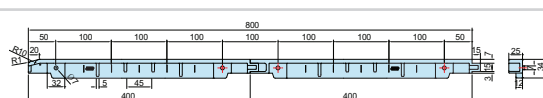
- C value : Frame width
- A value : Outer width of cable chain

>> Guide channel ordering

nsb-GCS 080S. 100 : 200M



10. *Journal of the American Medical Association*, 2000; 284: 1039-1044.



(Dimensions in mm)

GC.NB-800 R / N : 10ST

