Shift chain®

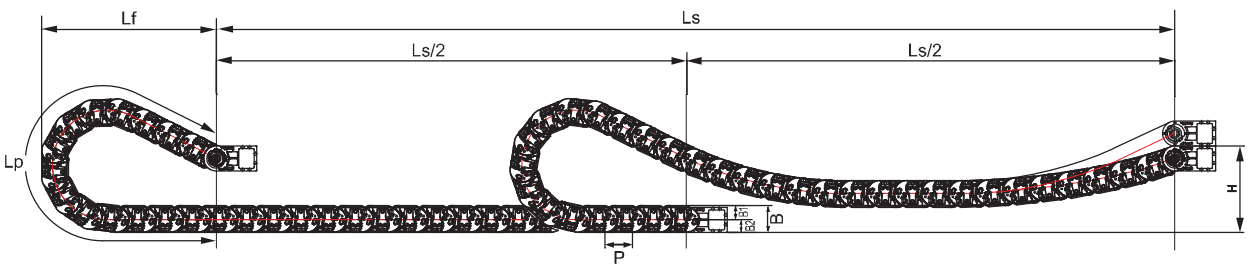
SLIDING - S TYPE : Skid

ST072S _ 93p
ST095S _ 98p
ST120S _ 103p

ST 072S Skid Type

LAYOUT OF THE CHAIN

Ls: Stroke **Lp:** Loop Length **Lf:** Loop Projection



(Dimensions in mm)

Bending radius R	100	120	145	200	250	300
Lp	806	917	1,063	1,400	1,840	2,280
L f	380	420	470	580	752	924
H	230	230	230	230	230	230

ST 072S Type

Pitch P: 72mm
Height B: 71mm
B1: 38mm
B2: 33mm

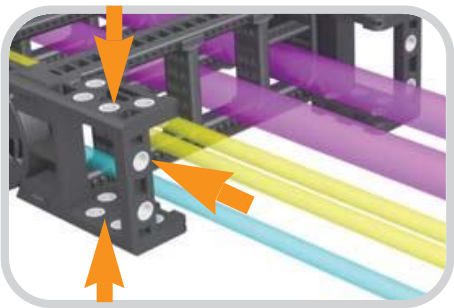
ORDERING (주문방법)

ST 072S . 175. R200 / F - 10000L : 10ST

주문수량	Q´ty(set)
체인길이	Length(mm)
브라켓	Free End Bracket
곡률반경	Bending Radius
내폭	Inside Width
장거리타입(S)	Skid Type

Shift Chain

BRACKET TYPE (브라켓타입)



FEB (Free End Bracket)

FEB Fixes the cable chain to the machinery or moving application. CPS has improved mounting efficiency by unifying the existing Easy End Bracket and Normal End Bracket.
The End Bracket is designed to move up and down as the cable chain or application requires. To add strength, steel washers are inserted into the fixing holes of each Free End Bracket.

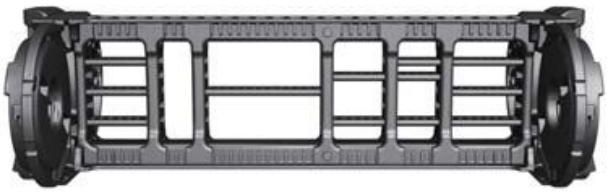
체인을 고정하는 끝부분으로 기존 Easy End Bracket 과 Normal End Bracket을 하나로 통합한 방식으로 취부의 효율성을 높임.
장거리 이동용 ST S-Type에 적용되는 Free End Bracket은 곡률반경을 자유롭게 형성하여 브라켓 부위의 파손을 방지하며 또한 스틸와셔를 결합하여 더욱 견고한 취부가 가능.

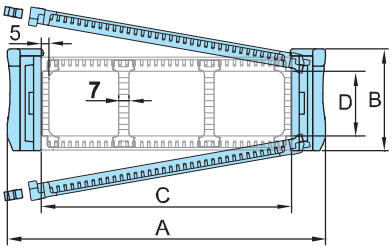
▶ BR should not be inserted in the joint of side band and Free End Bracket
FEB와 결합하는 Side Band에는 BR을 삽입하지 않음.

▶ Above products are patent registered item which can be protected by industrial property right. (상기제품은 특허등록 제품으로 산업재산권의 보호를 받는 제품입니다.)

ST 072S Skid Type

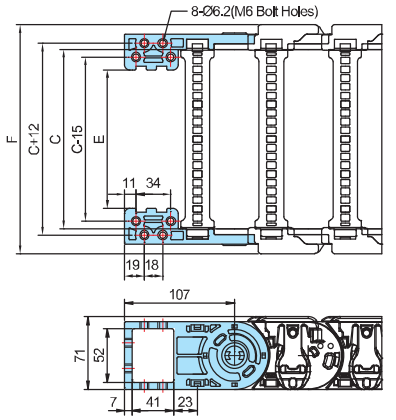
CHAIN CROSS SECTION



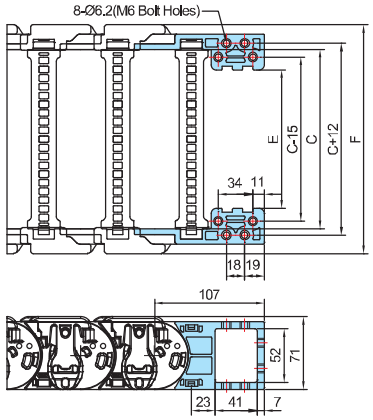


Chain Type	A	B	C	D	Bending Radius(R)	Weight in kg/m
ST 072S.050	98	71	50	45	100, 120, 145, 200, 250, 300	2.48
ST 072S.075	123		75			2.57
ST 072S.100	148		100			2.67
ST 072S.125	173		125			2.81
ST 072S.150	198		150			2.95
ST 072S.175	223		175			3.07
ST 072S.200	248		200			3.49
ST 072S.250	298		250			3.89
ST 072S.300	348		300			4.23

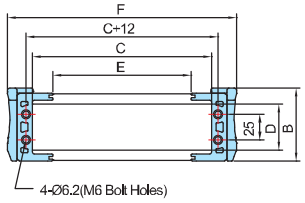
FREE END BRACKET



ST072S Moving point



ST072S Fixing point



ST072S Front point

Chain Type	F	B	C	D	E	Hole Type
ST 072S.050	98	71	50	45	10	M6 Bolt Holes
ST 072S.075	123		75		35	
ST 072S.100	148		100		60	
ST 072S.125	173		125		85	
ST 072S.150	198		150		110	
ST 072S.175	223		175		135	
ST 072S.200	248		200		160	
ST 072S.250	298		250		210	
ST 072S.300	348		300		260	

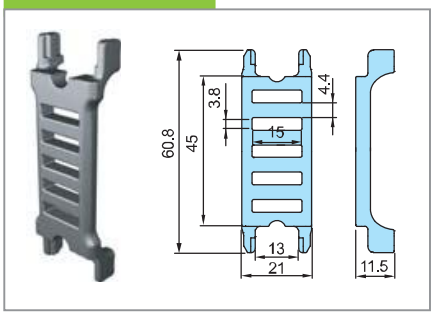
ST 072S Skid Type

DIVIDERS

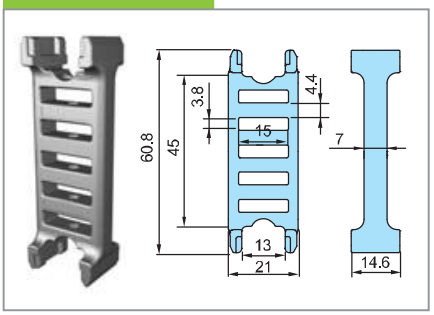
Dividers (Vertical) and Separators (Horizontal) divide the inner chamber of the cable chain to give each cable diameter its own center and keep the cables separated from each other. The use of a separator in some cases, can also reduce the width requirements as two or more levels can be made within the same chamber. To prevent twisting or damage to the cables, as a rule, there needs to be at least 10% space between the inserted cable and its enclosure.

디바이더(세로분리대)와 세퍼레이터(가로분리대)는 체인내에 많은 케이블들이 입선될 시 케이블들을 서로 분리하여 케이블상호간의 마찰로 인한 피복손상 및 단선을 방지하는 역할을 하며 케이블과 10%이상의 여유공간을 확보해야합니다.
또한 케이블을 체인내 2단이상 입선시 반드시 세퍼레이터를 디바이더에 결합하여 사용해야 케이블의 꼬임방지와 피복손상을 방지할 수 있습니다.

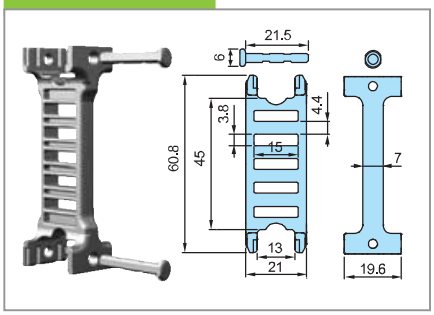
ST 072S DV-S



ST 072S DV-M



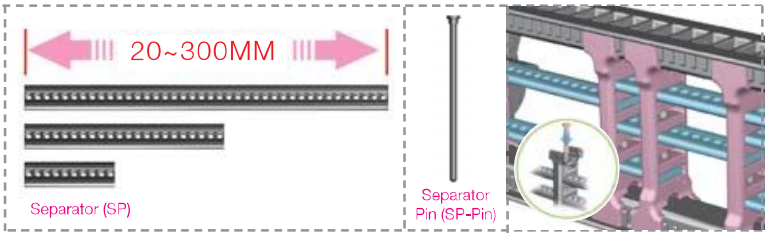
ST 072S DV-T



▶ Assemble divider every Two links. / 2링크마다 결합

▶ DV-T : Frame 200~300적용(상하 프레임을 연결)

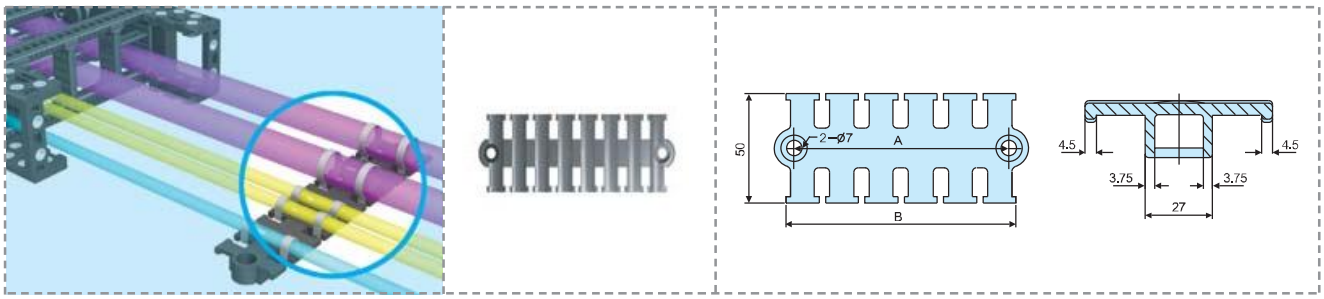
SEPARATORS (SP)



Separator is available in length from 20mm to 300mm and can be cut every 5mm for use. The combined use of divider and sepatator with the pin creates the most effective cable pattern and keep insertion space for cables safely, so it protects the inserted cables.

세퍼레이터의 사용길이는 최소20mm부터 최대300mm까지 사용가능하며 5mm간격으로 절단하여 원하는 길이로 사용가능합니다. 크기가 각각 다른 케이블을 크기에 맞게끔 공간분할이 용이하고 세퍼레이터 핀으로 결합하여 어떠한 경우에도 안전하게 케이블의 입선공간을 유지하여 케이블을 보호할 수 있습니다.

TIE WRAP



(Dimensions in mm)

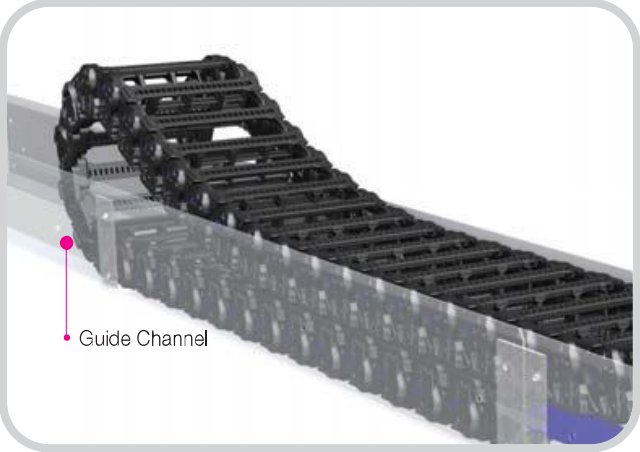
Tie Wrap	050	075	100	125	150
A	58	75	98	122	141
B	65	82	105	129	148

The Tie Wrap separated from the Shift Chain FEB, when installed properly, protects the inserted cables from becoming entangled and twisted during operation.

Tie Wrap은 Shift Chain의 FEB을 기준으로 바깥으로 설치함으로써 체인의 움직임으로 인한 케이블의 유동을 방지하고자 고정하는 시스템으로 케이블의 피복손상 및 단선을 방지하는 역할을 합니다

ST 072S Skid Type

GUIDE CHANNEL

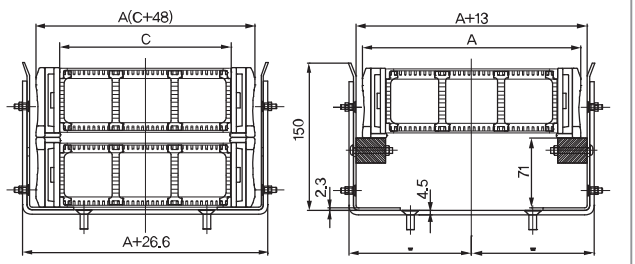


For long stroke applications the guide channel is applied to ensure that the Shift Chain Sliding Chain stays on track and to ensure safety during operation. With the application of a rubber pad on the channel floor, noise is reduced to a minimum. Guide Channels are made of Steel + Zn and can be customized with SUS material .

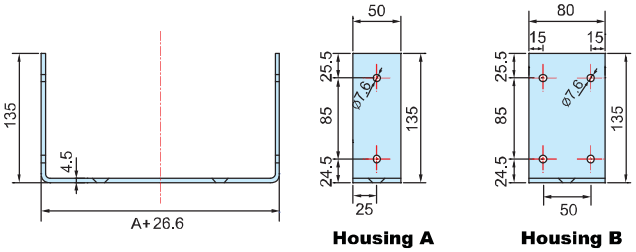
Steel Guide Channel은 장거리 이동형 ST 072S Type 전용으로 Chain의 이탈을 방지하는 가이드 역할을 하며 Chain 이동시 소음을 줄이기 위해 Guide Channel 바닥면에 고무패드를 사용함으로써 소음을 일정부분 억제 시키는 역할을 합니다. Guide Channel의 재질은 스틸 + 아연도금으로 제작되며 SUS재질로 주문제작 가능합니다.

▶ Thickness can be changed by the product standards of material.
(두께는 원재료의 생산규격에 따라 달라질 수 있습니다.)

ST 072S Type

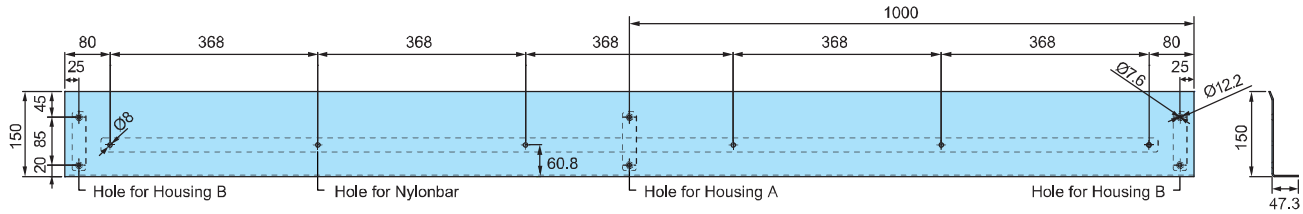


▲ A - zone ▲ C - zone



▲ Housing (U-shape) - ST 072S

ST 072S Side Panel



ORDERING (주문방법)

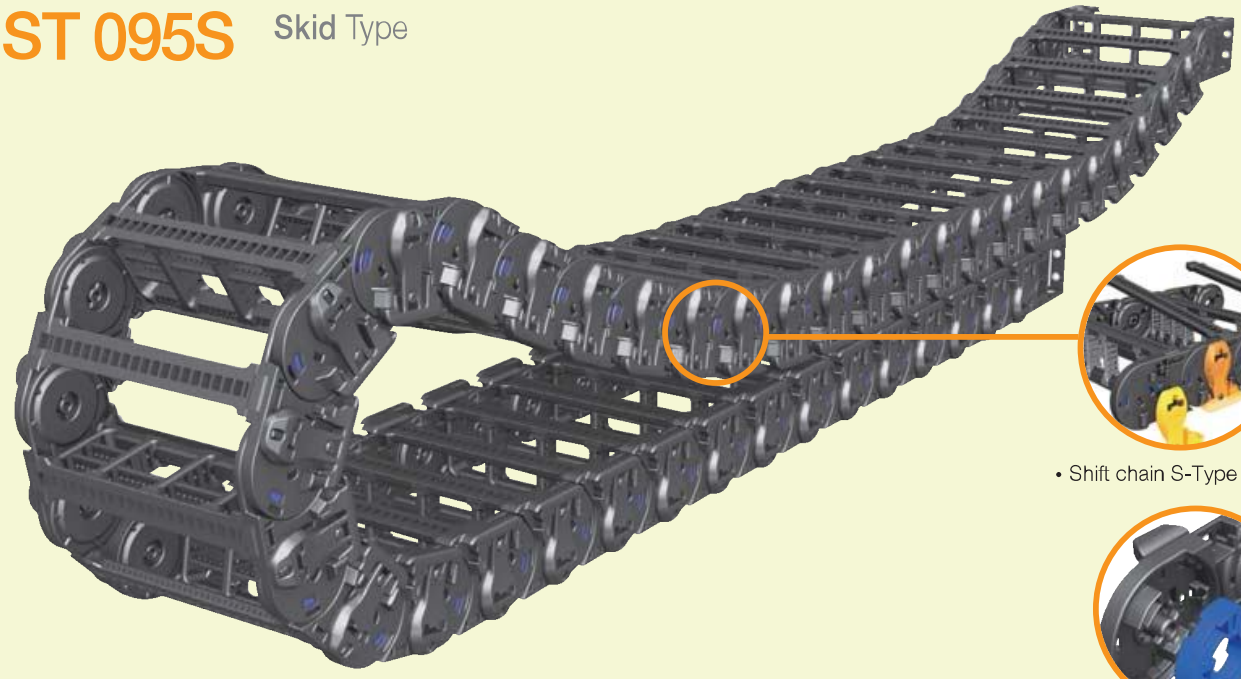
ST-GCS 072S . 175 / A, B, C : 200M

길이	Length(mm)
사이드판넬 종류	Panel A, B, C-Zone
내폭	Inside Width
체인종류	Chain Type

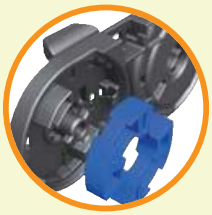
Steel Guide Channel
Shift Chain

Min ●●●●○○ Max

Shift chain®
ST 095S Skid Type



• Shift chain S-Type 분해도 •



• Bending Radius Unit •

MATERIAL

- **Chain material:**
  CPS-polyamide with glass fiber reinforced UL94-HB
- **Low Noise & Low Mote:**
  Skid 사용으로 소음 감소
- **Temperature :** -30°C ~ +130°C
- **Coefficient of Friction :**
  0.3~0.4 μ
- **Applications**

  Facilities and equipments requiring a long travel distance as below; Gantry Robots, Robot Carriages, Automatic Welding Lines, Gantry Cranes, Gantry loder, etc.

  Gantry robots, Robot carriages, Automatic welding Gantry crane, Gantry loader..등
  설치 장비의 케이블이 장거리 이동을 요구하는 사업장에 케이블보호가 필요할때 적용.

- **Calculation of the chain length**

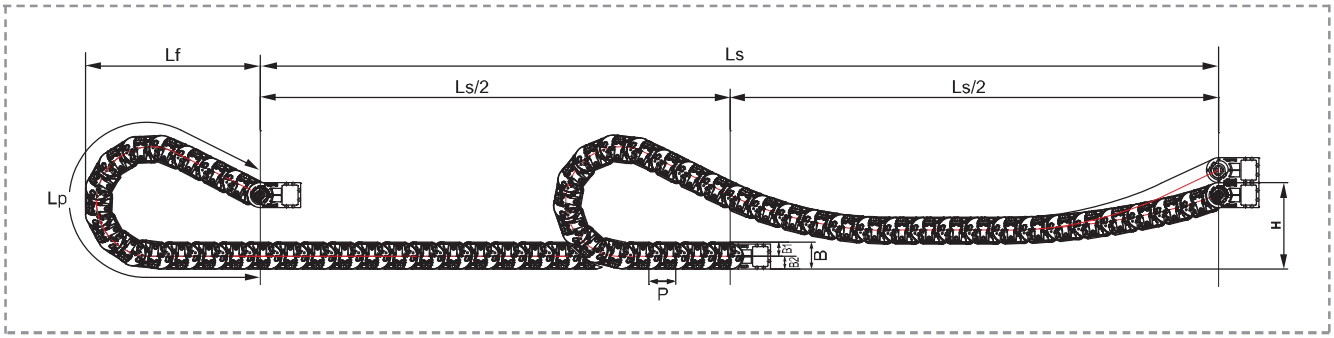
$$\left[\quad L = \frac{Ls}{2} + Lp \quad \right]$$

Affer using skid for a long time, it can be replaced without extra components.

스키드 장착으로 장시간 사용후 Skid를 교체할 수 있고 Skid는 별도의 부품없이 조립이 가능함.

LAYOUT OF THE CHAIN

Ls: Stroke **Lp:** Loop Length **Lf:** Loop Projection



(Dimensions in mm)

Bending radius R	135	150	200	230	280	400
Lp	1,091	1,178	1,479	1,666	2,146	3,232
L f	504	534	634	694	889	1319
H	250	250	250	250	250	250

ST 095S Type

Pitch P: 95mm
Height B: 89mm
B1: 48mm
B2: 41mm

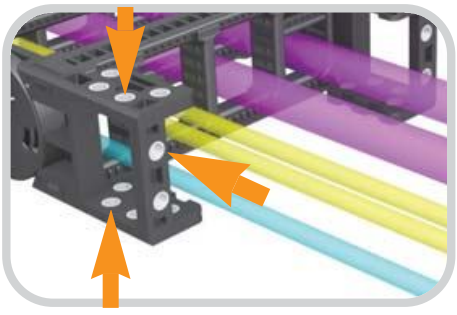
ORDERING (주문방법)

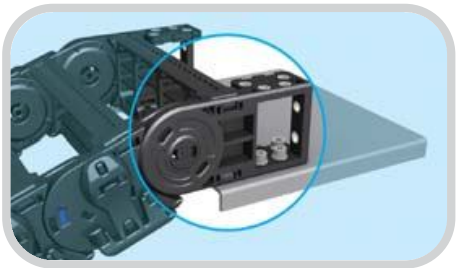
ST 095S . 200. R200 / F - 10000L : 10ST

주문수량	Q´ty(set)
체인길이	Length(mm)
브라켓	Free End Bracket
곡률반경	Bending Radius
내폭	Inside Width
장거리타입(S)	Skid Type

Shift Chain

BRACKET TYPE (브라켓타입)





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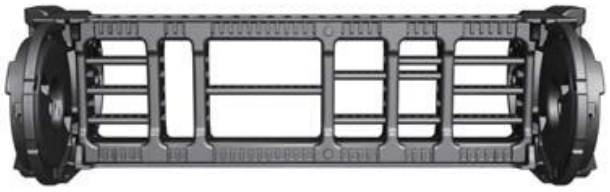
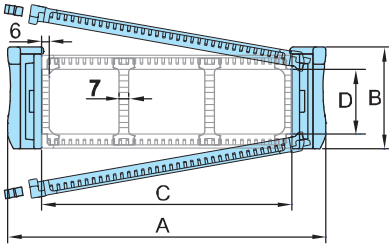
ST 095S Skid Type

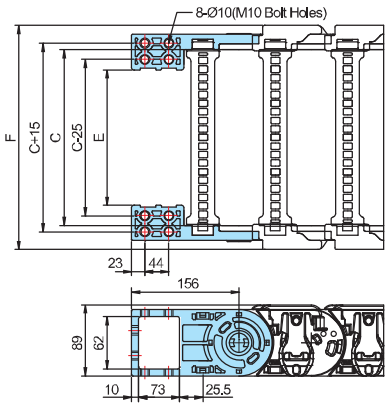
CHAIN CROSS SECTION



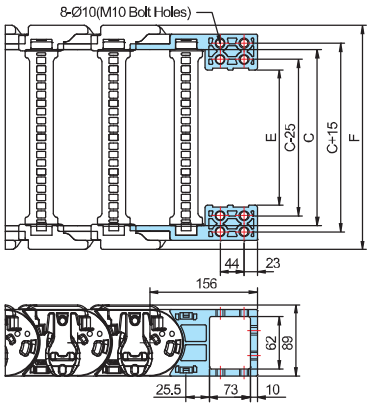


Chain Type	A	B	C	D	Bending Radius(R)	Weight in kg/m
ST 095S.075	137	89	75	56	135,150, 200, 230, 280, 400	3.44
ST 095S.100	162		100			3.50
ST 095S.125	187		125			3.68
ST 095S.150	212		150			3.79
ST 095S.175	237		175			3.92
ST 095S.200	262		200			4.10
ST 095S.250	312		250			4.36
ST 095S.300	362		300			4.63
ST 095S.350	412		350			4.98
ST 095S.400	462		400			5.38

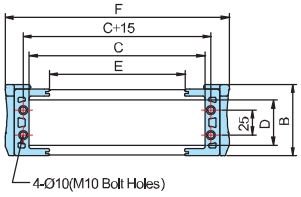
FREE END BRACKET



ST095S Moving point



ST095S Fixing point



ST095S Front point

Chain Type	F	B	C	D	E	Hole Type
ST 095S.075	137	89	75	56	24	M10 Bolt Holes
ST 095S.100	162		100		49	
ST 095S.125	187		125		74	
ST 095S.150	212		150		99	
ST 095S.175	237		175		124	
ST 095S.200	262		200		149	
ST 095S.250	312		250		199	
ST 095S.300	362		300		249	
ST 095S.350	412		350		299	
ST 095S.400	462		400		349	

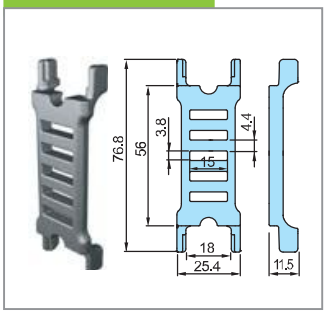
ST 095S Skid Type

DIVIDERS

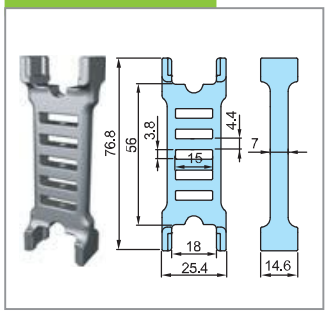
Dividers (Vertical) and Separators (Horizontal) divide the inner chamber of the cable chain to give each cable diameter its own center and keep the cables separated from each other. The use of a separator in some cases, can also reduce the width requirements as two or more levels can be made within the same chamber. To prevent twisting or damage to the cables, as a rule, there needs to be at least 10% space between the inserted cable and its enclosure.

디바이더(세로분리대)와 세퍼레이터(가로분리대)는 체인내에 많은 케이블들이 입선될 시 케이블들을 서로 분리하여 케이블상호간의 마찰로 인한 피복손상 및 단선을 방지하는 역할을 하며 케이블과 10%이상의 여유공간을 확보해야합니다.
또한 케이블을 체인내 2단이상 입선시 반드시 세퍼레이터를 디바이더에 결합하여 사용해야 케이블의 꼬임방지와 피복손상을 방지할 수 있습니다.

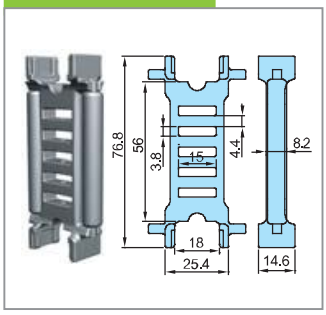
ST 095S DV-S



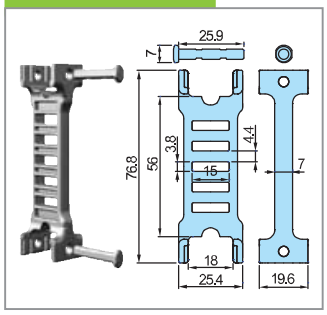
ST 095S DV-M



ST 095S DV-R



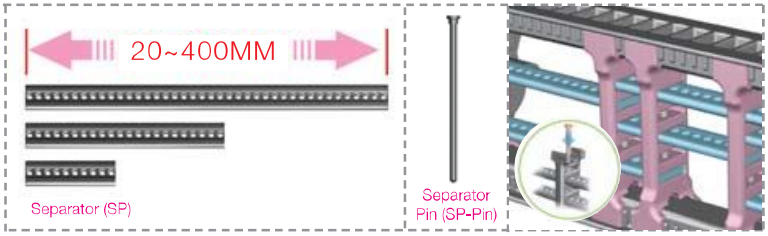
ST 095S DV-T



▶ Assemble divider every Two links. / 2링크마다 결합

▶ DV-T : Frame 250~400적용(상하 프레임을 연결)

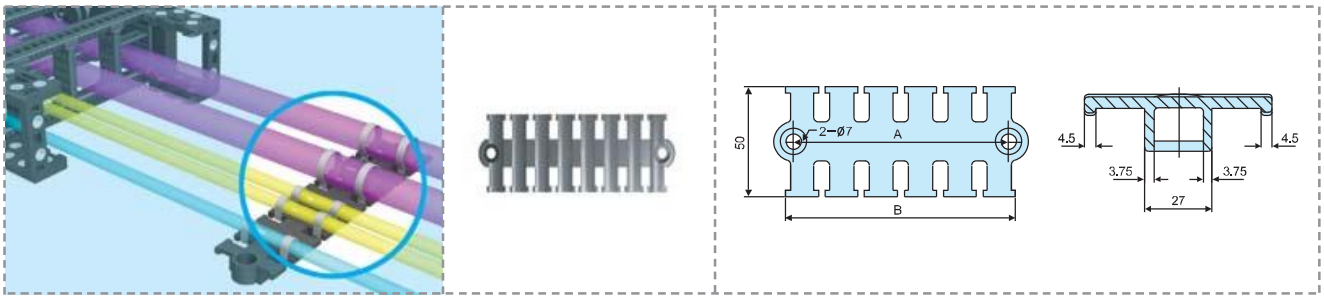
SEPARATORS (SP)



Separator is available in length from 20mm to 400mm and can be cut every 5mm for use. The combined use of divider and sepatator with the pin creates the most effective cable pattern and keep insertion space for cables safely, so it protects the inserted cables.

세퍼레이터의 사용길이는 최소20mm부터 최대400mm까지 사용가능하며 5mm간격으로 절단하여 원하는 길이로 사용가능합니다. 크기가 각각 다른 케이블을 크기에 맞게끔 공간분할이 용이하고 세퍼레이터 핀으로 결합하여 어떠한 경우에도 안전하게 케이블의 입선공간을 유지하여 안전하게 케이블을 보호할 수 있습니다.

TIE WRAP



(Dimensions in mm)

Tie Wrap	050	075	100	125	150
A	58	75	98	122	141
B	65	82	105	129	148

The tie wrap separated from the Shift Chain FEB, when installed properly, protects the inserted cables from becoming entangled and twisted during operation.

Tie wrap은 Shift Chain의 FEB를 기준으로 바깥으로 설치함으로써 체인의 움직임으로 인 해 케이블의 유동을 방지하고자 고정하는 시스템으로 케이블의 피복손상 및 단선을 방지하는 역할을 합니다

ST 095S Skid Type

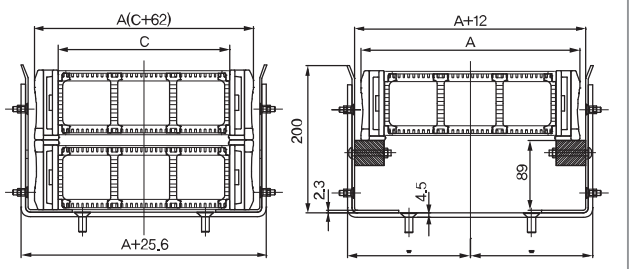
GUIDE CHANNEL

For long stroke applications the guide channel is applied to ensure that the Shift Chain Sliding Chain stays on track and to ensure safety during operation. With the application of a rubber pad on the channel floor, noise is reduced to a minimum. Guide Channels are made of Steel + Zn and can be customized with SUS material .

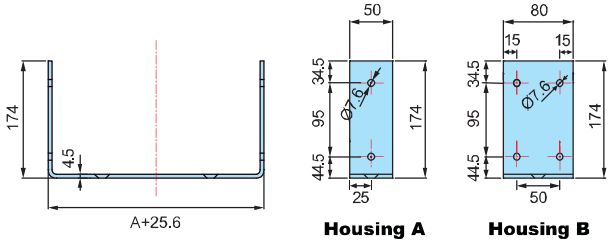
Steel Guide Channel은 장거리 이동형 ST 095S Type 전용으로 Chain의 이탈을 방지하는 가이드 역할을 하며 Chain 이동시 소음을 줄이기 위해 Guide Channel 바닥면에 고무패드를 사용함으로써 소음을 일정부분 억제 시키는 역할을 합니다. Guide Channel의 재질은 스틸 + 아연도금으로 제작되며 SUS재질로 주 문제작 가능합니다.

▶ Thickness can be changed by the product standards of material.
(두께는 원재료의 생산규격에 따라 달라질 수 있습니다.)

ST 095S Type

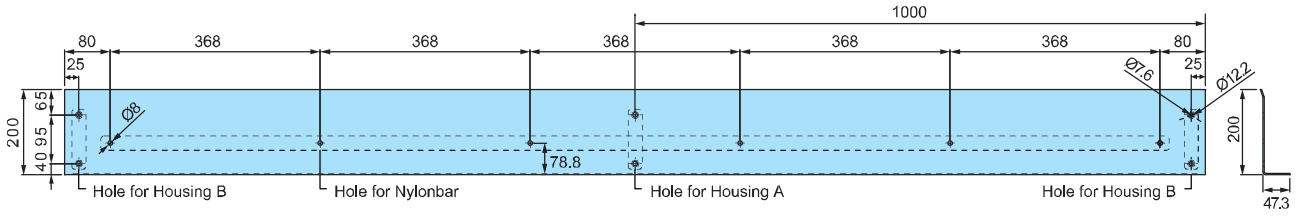


▲ A - zone ▲ C - zone



▲ Housing (U-shape) - ST 095S

ST 095S Side Panel



ORDERING (주문방법)

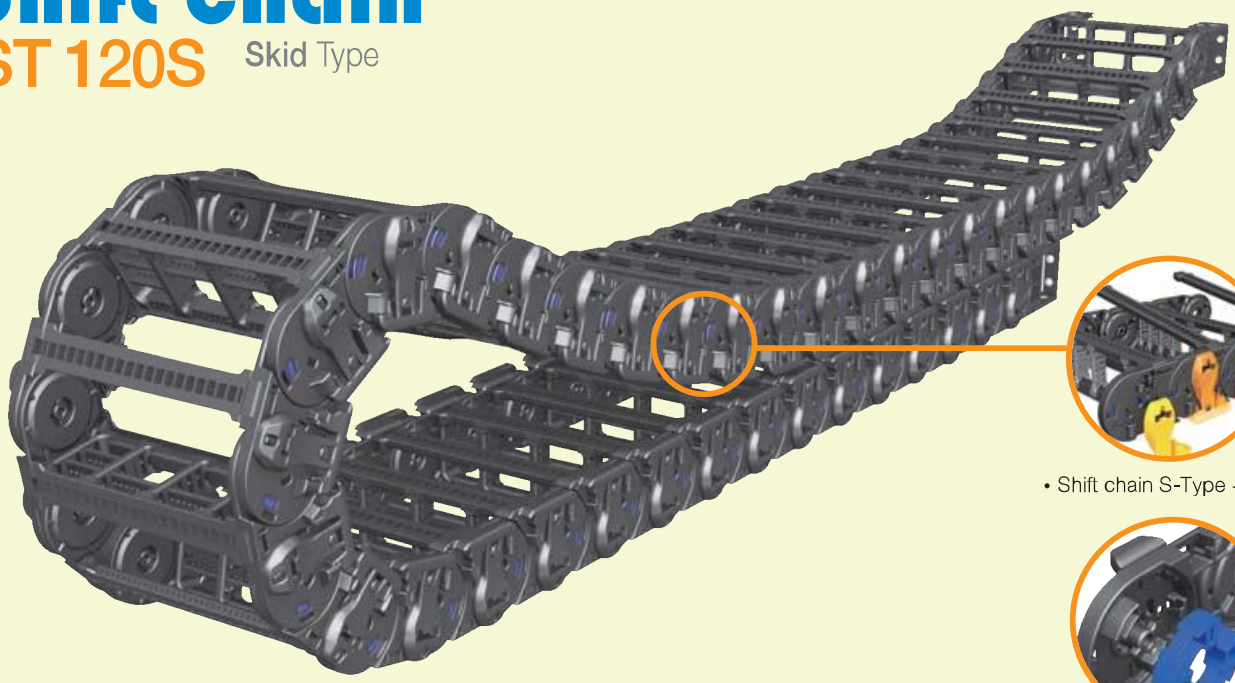
ST-GCS 095S . 175 / A, B, C : 200M

길이	Length(mm)
사이드판넬 종류	Panel A, B, C-Zone
내폭	Inside Width
체인종류	Chain Type

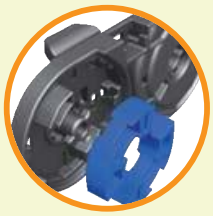
Steel Guide Channel
Shift Chain

Min ●●●●●○ Max

Shift chain®
ST 120S Skid Type



• Shift chain S-Type 분해도 •



• Bending Radius Unit •

MATERIAL

- **Chain material:**
  CPS-polyamide with glass fiber reinforced UL94-HB
- **Low Noise & Low Mote:**
  Skid 사용으로 소음 감소
- **Temperature :** -30°C ~ +130°C
- **Coefficient of Friction :**
  0.3~0.4 μ
- **Applications**

  Facilities and equipments requiring a long travel distance as below; Gantry Robots, Robot Carriages, Automatic Welding Lines, Gantry Cranes, Gantry loder, etc.

  Gantry robots, Robot carriages, Automatic welding Gantry crane, Gantry loader..등
  설치 장비의 케이블이 장거리 이동을 요구하는 사업장에 케이블보호가 필요할때 적용.

- **Calculation of the chain length**

$$[\quad L = \frac{Ls}{2} + Lp \quad]$$

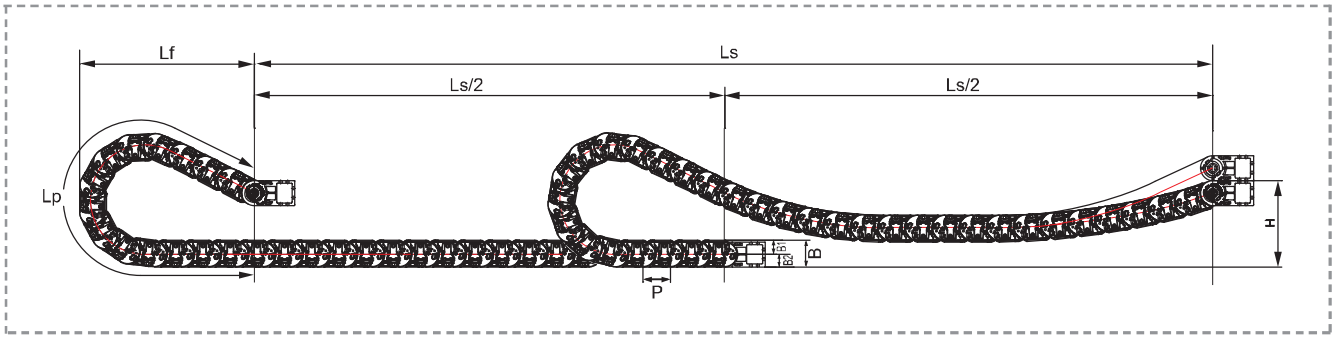
Affer using skid for a long time, it can be replaced without extra components.

스키드 장착으로 장시간 사용후 Skid를 교체할 수 있고 Skid는 별도의 부품없이 조립이 가능함.

ST 120S Skid Type

LAYOUT OF THE CHAIN

Ls: Stroke **Lp:** Loop Length **Lf:** Loop Projection



(Dimensions in mm)

Bending radius R	180	200	250	300	350	400	500
Lp	1,441	1,559	1,864	2,178	2,701	3,225	4,062
L f	654	694	794	894	1,114	1,334	1,654
H	300	300	300	300	300	300	300

ST 120S Type

Pitch P: 120mm
Height B: 115mm
B1: 61mm
B2: 54mm

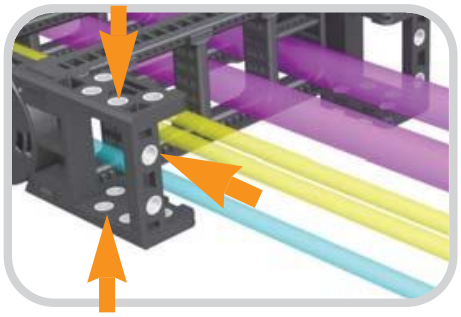
ORDERING (주문방법)

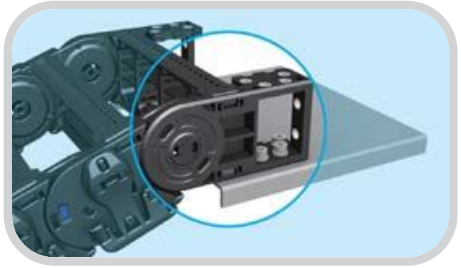
ST 120S . 300. R200 / F - 10000L : 10ST

주문수량	Q'ty(set)
체인길이	Length(mm)
브라켓	Free End Bracket
곡률반경	Bending Radius
내폭	Inside Width
장거리타입(S)	Skid Type

Shift Chain

BRACKET TYPE (브라켓타입)





FEB (Free End Bracket)

FEB Fixes the cable chain to the machinery or moving application. CPS has improved mounting efficiency by unifying the existing Easy End Bracket and Normal End Bracket.
The End Bracket is designed to move up and down as the cable chain or application requires. To add strength, steel washers are inserted into the fixing holes of each Free End Bracket.

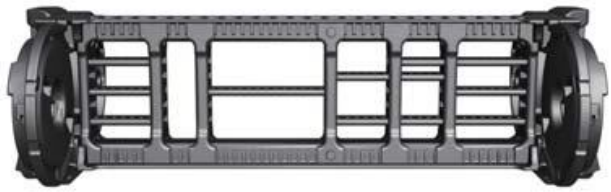
체인을 고정하는 끝부분으로 기존 Easy End Bracket 과 Normal End Bracket을 하나로 통합한 방식으로 취부의 효율성을 높임.
장거리 이동용 ST S-Type에 적용되는 Free End Bracket은 곡률반경을 자유롭게 형성하여 브라켓 부위의 파손을 방지하며 또한 스틸와셔를 결합하여 더욱 견고한 취부가 가능.

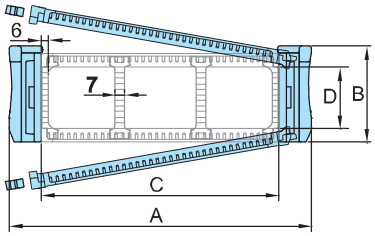
▶ BR should not be inserted in the joint of side band and Free End Bracket
FEB와 결합하는 Side Band에는 BR을 삽입하지 않음.

▶ Above products are patent registered item which can be protected by industrial property right. (상기제품은 특허등록 제품으로 산업재산권의 보호를 받는 제품입니다.)

ST 120S Skid Type

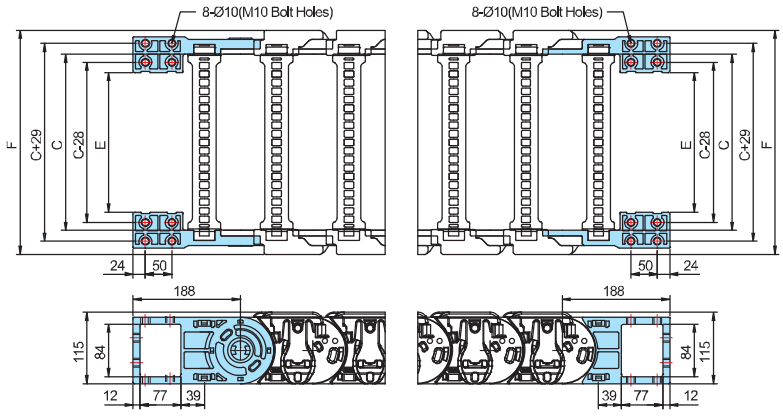
CHAIN CROSS SECTION



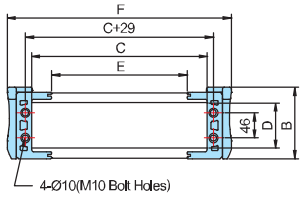


Chain Type	A	B	C	D	Bending Radius(R)	Weight in kg/m
ST 120S.075	137	115	75	78	180, 200, 250, 300, 350, 400, 500	4.71
ST 120S.100	162		100			4.82
ST 120S.125	187		125			4.98
ST 120S.150	212		150			5.06
ST 120S.175	237		175			5.24
ST 120S.200	262		200			5.48
ST 120S.250	312		250			5.78
ST 120S.300	362		300			6.21
ST 120S.350	412		350			6.63
ST 120S.400	462		400			7.00
ST 120S.450	512		450			7.38
ST 120S.500	562		500			7.61
ST 120S.550	612		550			8.45
ST 120S.600	662		600			8.61

FREE END BRACKET



ST120S Moving point ST120S Fixing point



ST120S Front point

Chain Type	F	B	C	D	E	Hole Type
ST 120S.075	137	115	75	78	15	M10 Bolt Holes
ST 120S.100	162		100		40	
ST 120S.125	187		125		65	
ST 120S.150	212		150		90	
ST 120S.175	237		175		115	
ST 120S.200	262		200		140	
ST 120S.250	312		250		190	
ST 120S.300	362		300		240	
ST 120S.350	412		350		290	
ST 120S.400	462		400		340	
ST 120S.450	512		450		390	
ST 120S.500	562		500		440	
ST 120S.550	612		550		490	
ST 120S.600	662		600		540	

ST 120S Skid Type

DIVIDERS

Dividers (Vertical) and Separators (Horizontal) divide the inner chamber of the cable chain to give each cable diameter its own center and keep the cables separated from each other. The use of a separator in some cases, can also reduce the width requirements as two or more levels can be made within the same chamber. To prevent twisting or damage to the cables, as a rule, there needs to be at least 10% space between the inserted cable and its enclosure.

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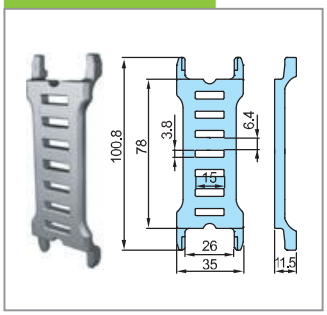
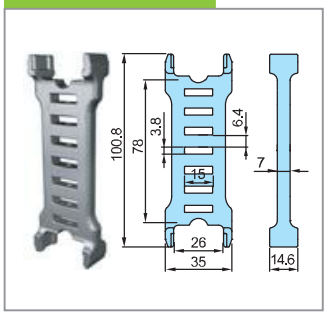
또한 케이블을 체인내 2단이상 입선시 반드시 세퍼레이터를 디바이더에 결합하여 사용해야 케이블의 꼬임방지와 피복손상을 방지할 수 있습니다.

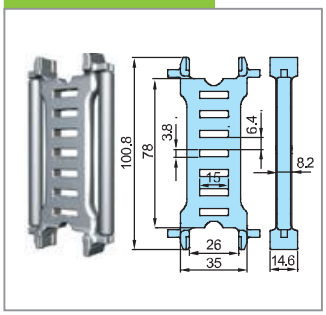
ST 120S DV-S



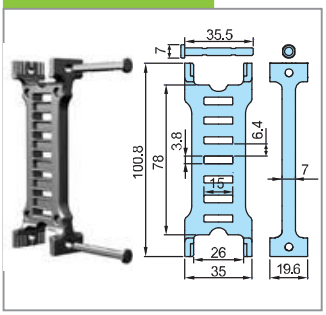
ST 120S DV-M



ST 120S DV-R



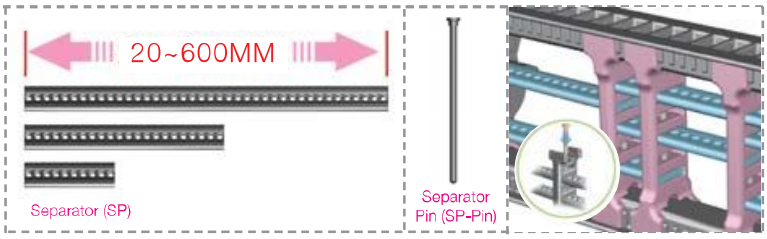
ST 120S DV-T



▶ Assemble divider every Two links. / 2링크마다 결합

▶ DV-T : Frame 300~600적용(상하 프레임을 연결)

SEPARATORS (SP)



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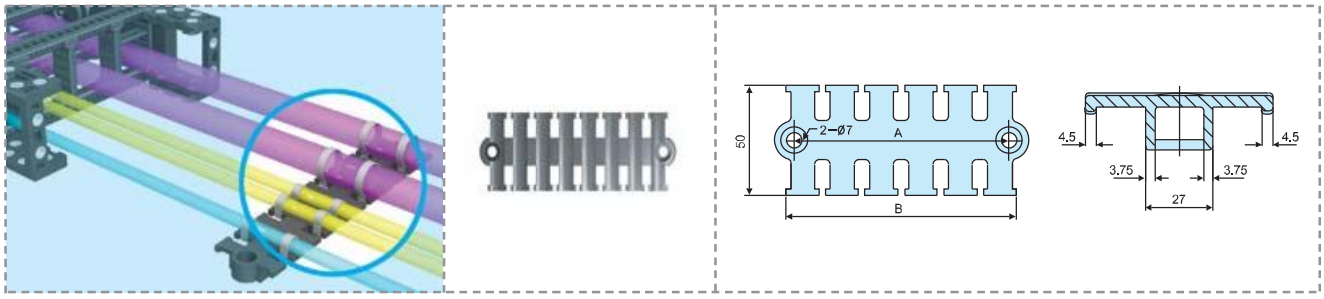
TIE WRAP



(Dimensions in mm)

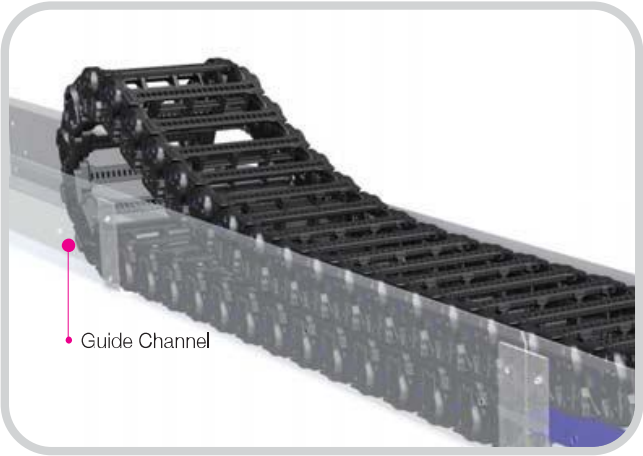
Tie Wrap	050	075	100	125	150
A	58	75	98	122	141
B	65	82	105	129	148

The Tie Wrap separated from the Shift Chain bracket, when installed properly, protects the inserted cables from becoming entangled and twisted during operation.

Tie Wrap은 Shift Chain의 브라켓을 기준으로 바깥으로 설치함으로써 체인의 움직임으로 인해 케이블의 유동을 방지하고자 고정하는 시스템으로 케이블의 피복손상 및 단선을 방지하는 역할을 합니다

GUIDE CHANNEL

ST 120S Skid Type

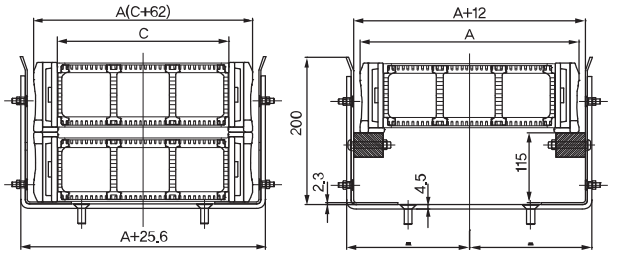


For long stroke applications the guide channel is applied to ensure that the Shift Chain Sliding Chain stays on track and to ensure safety during operation. With the application of a rubber pad on the channel floor, noise is reduced to a minimum. Guide Channels are made of Steel + Zn and can be customized with SUS material .

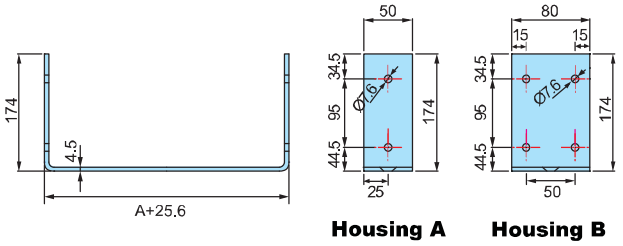
Steel Guide Channel은 장거리 이동형 ST 120S Type 전용으로 Chain의 이탈을 방지하는 가이드 역할을 하며 Chain 이동시 소음을 줄이기 위해 Guide Channel 바닥면에 고무패드를 사용함으로써 소음을 일정부분 억제 시키는 역할을 합니다. Guide Channel의 재질은 스틸 + 아연도금으로 제작되며 SUS재질로 주 문제작 가능합니다.

▶ Thickness can be changed by the product standards of material.
(두께는 원재료의 생산규격에 따라 달라질 수 있습니다.)

ST 120S Type

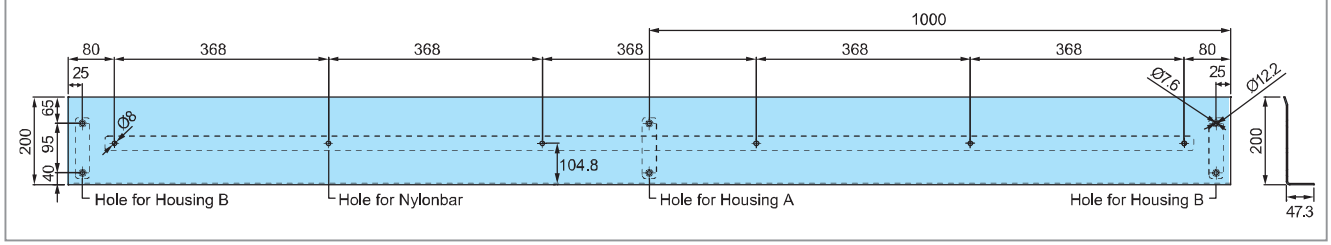


▲ A - zone ▲ C - zone



▲ Housing (U-shape) - ST 120S

ST 120S Side Panel



ORDERING (주문방법)

ST-GCS 120S . 175 / A, B, C : 200M

길이	Length(mm)
사이드판넬 종류	Panel A, B, C-Zone
내폭	Inside Width
체인종류	Chain Type

Steel Guide Channel
Shift Chain

ASSEMBLY PROCEDURE / SKID Type

Assembly procedure of Shift chain S-type is as follows. The assembling process of shift Chain S-type is like below and you must use rubber hammer with careful combination of Divider and Separator. (Disassembly process for repair and replacement are in reverse order)

Shift chain S-type의 조립순서는 아래와 같이 진행한다. 반드시 규정된 고무망치를 사용하여야 하며 케이블의 입선수량에 따라 디바이더와 세퍼레이터를 조합하여 지정된 위치에 조립한다. (보수 및 교체를 위한 제품 분해 등은 조립의 역순)

1.

Insert BR Unit into each Side Band.
(Side Band is divided into right and left side according to the direction.)

사이드밴드에 사양에 맞는 BR을 홈에 맞게 조립한다. (사이드 밴드는 방향에 따라 LH, RH로 구분됨)

2.

Continue to insert BR Unit into Side Band as you want to make it. Assemble Side Band which is inserted BR Unit as above.

조립하고자 하는 사이드밴드에 모두 BR을 조립한다.
BR이 삽입되어 있는 사이드밴드를 사진과 같이 조립한다.

3.

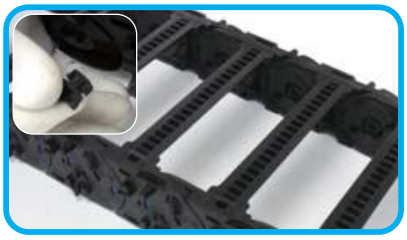
Continue to connect each Side Band as long as you want to make it.
Connect the Side Band as many as you need.

일정 단위의 길이만큼 사이드밴드를 연결한다.
조립하고자 하는 길이만큼 사이드밴드를 연결한다.

4.

Connect right and left link with specified frame. (Put Hinge Type frame in the hole of Side Band)

좌우의 사이드 밴드를 지정된 프레임으로 조립한다.(흰지가 사이드 밴드 RH방향에 삽입되도록 조립)



5.

Insert frame pin onto connected each Frame and side of Side Band to be made tightly.
(to devide inner room, insert divider which is connected with separator.

결합된 프레임과 사이드밴드의 측면에 프레임 핀을 삽입한다.
(내부 공간분리를 위하여 세퍼레이트가 결합된 디바이더를 삽입한다.)

6.

Assemble opposite frame as same procedure.

반대 방향의 프레임도 동일한 방법으로 조립한다.

7.

Insert Skid to the protruding side of Side Band.

사이드밴드 측면의 돌출된 형상에 스키드를 삽입하여 조립한다.

ASSEMBLY PROCEDURE / SKID Type

8.

When inserting a Skid, push tightly to the home of Side Band until you hear "click"(Skid is divided each direction like right and left.)

사이드 밴드 측면의 돌출된 형상에 스키드를 삽입하여 조립한다.스키드를 삽입시 사진처럼 사이드밴드의 홈에 밀어 넣은 후에 스키드 상부를 "딸깍"소리가 나도록 눌러 고정한다. (스키드는 좌우 구분이 있음)

9.

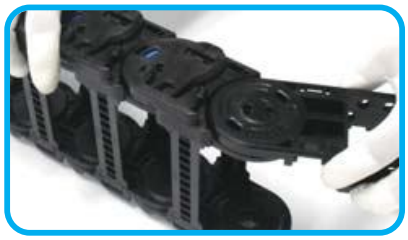
Assembly the Skid on the entire connected Side Band as same way.

연결된 모든 사이드 밴드에 스키드를 동일한 방법으로 조립한다.

10.

Assembly the Skid on the entire connected opposit side as well. Do not insert a BR Unit to M.FEB.(M.FEB will be making a turn to up and down)

반대 방향의 사이드 밴드에 스키드를 동일한 방법으로 조립한다.
M.FEB에는 BR을삽입하지 않는다.(M.FEB가 상하방향으로 꺾임.)



11.

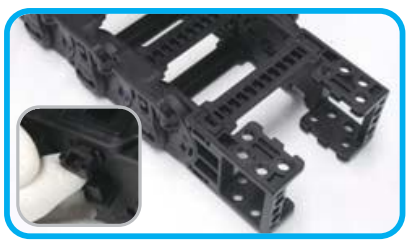
Assembly M.FEB to be corrective each direction such as right and left.

M.FEB를 좌우 방향에 맞도록조립한다.

12.

Assembly F.FEB to be suitable each direction such as right and left.
(Do not insert a BR Unit for the Side Band which is connected with F.FEB)

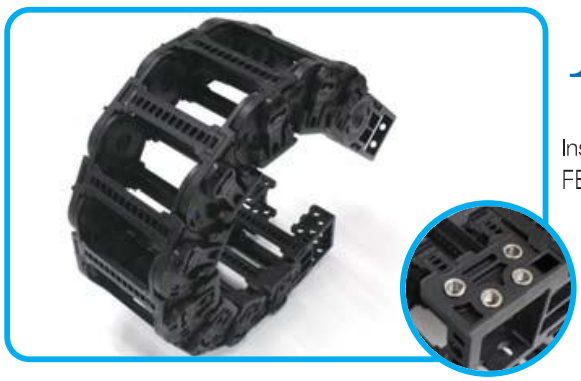
F.FEB를 좌우 방향에 맞도록 조립한다.(F.FEB와연결되는 사이드 밴드에는 BR을 삽입하지 않는다.)



13.

Assembly a specified frame in M.FEB and F.FEB.(Hinge is inserted into RH direction of FEB)
Insert Frame pin into connected frame and side of FEB.

M.FEB와 F.FEB에 지정된프레임으로 조립한다.(흰지가 FEB의 RH 방향에 삽입되도록 조립) 결합된 프레임과 FEB의 측면에 프레임 핀을 삽입한다.



14.

Insert steel washers into FEB according to fixing direction.

FEB의 고정 방향에 맞도록 보강와샤를 삽입한다.