

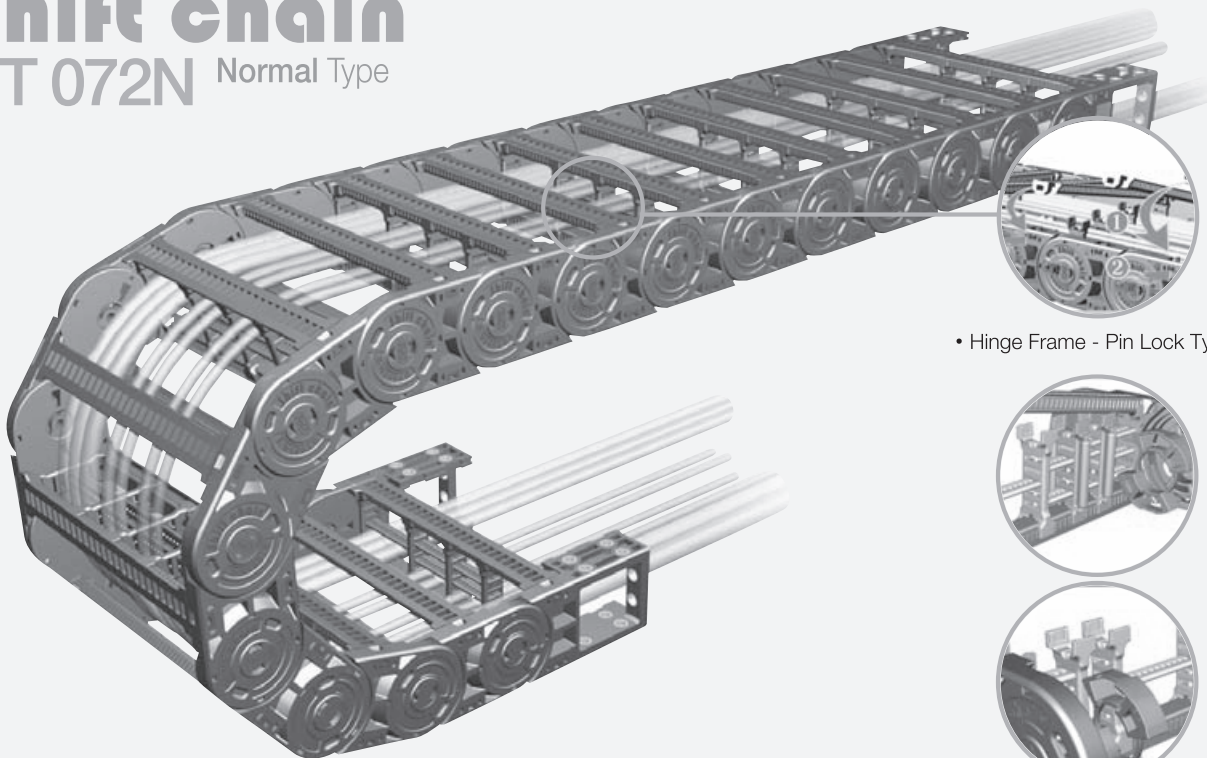


Shift chain[®]

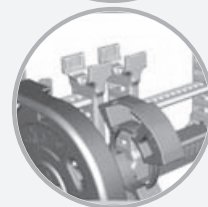
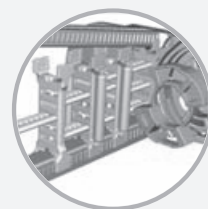


Min ●●●●●●●● Max

Shift chain[®] ST 072N Normal Type



• Hinge Frame - Pin Lock Type •



• Shift chain - 내부구조 •

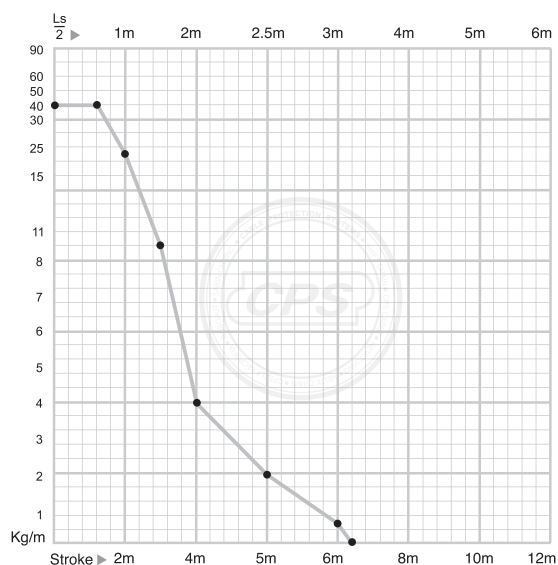
MATERIAL

- Chain material:
CPS-polyamide with glass fiber reinforced UL94-HB
- Low Noise
- Low Mote
- Speed : 10m / sec
- Temperature : -30°C ~ +130°C
- Other installation Length:
Vertical curve above= max 6.0m
Vertical curve below= max 100m
Side Mounted, Unsupported= max 2.5m
- Applications
Gantry robot, Machining center, Textile machine, Welding machine, Feeder unit, Assembly Loader, Wood work machine, Fabric machine.
겐츨리로봇, 공작기계, 용접기계, 인쇄기계, 로봇케리지등 케이블 체인의 적용사업장에 사용가능.

● Calculation of the chain length

$$\left[L = \frac{L_s}{2} + L_p \right]$$

● Load diagrams self-supporting length

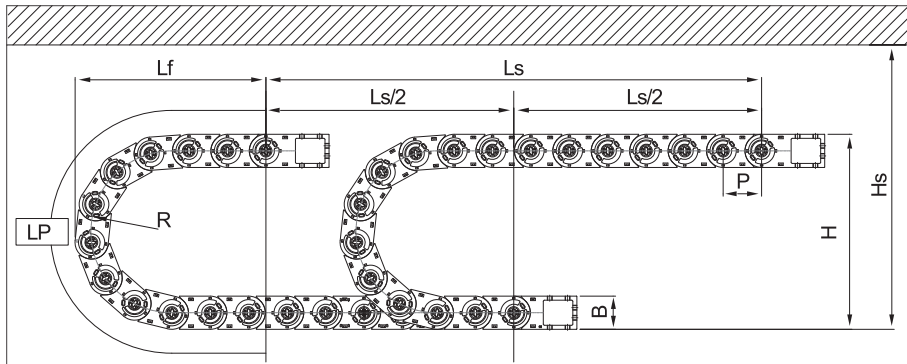




Shift chain[®] Using Material of High Quality!

ST 072N Normal Type

LAYOUT OF THE CHAIN



(Dimensions in mm)

Bending radius R	72	100	120	145	200	250	300
Lp	514	603	665	743	916	1,074	1,230
L f	249	277	297	322	377	427	477
H	210	266	306	356	466	566	666

Ls: Stroke
Lp: Loop Length
L f: Loop Projection
Hs: Safe Space

ST 072N Type

Pitch P: 72mm
Height B: 66mm
Height H: 2R+66mm
Hs ≥ **H+40mm**

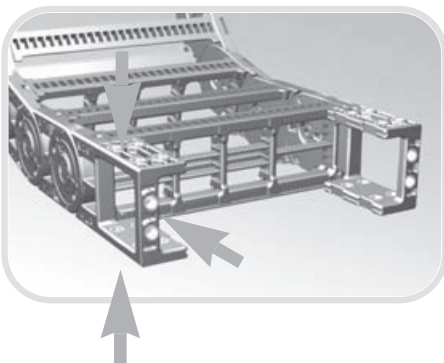
ORDERING (주문방법)

ST 072N. 175. R200 / F - 2000L : 10ST



주문수량 Q' ty(set)
 체인길이 Length(mm)
 브라켓 Free End Bracket
 곡률반경 Bending Radius
 내폭 Inside Width
 표준형타입 Normal 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. For added strength, steel spacers are inserted into the fixing holes of each Free End Bracket.

체인을 고정하는 끝부분으로 기존 Easy End Bracket 과 Normal End Bracket 을 하나로 통합한 방식으로 취부의 효율성을 높임. 또한 스틸와셔를 결합하여 더욱 견고한 취부가 가능.

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

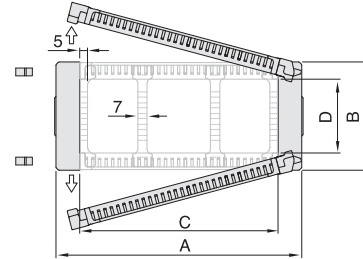
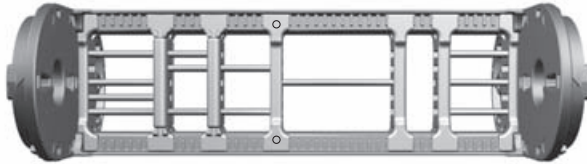


Shift chain®



ST 072N Normal Type

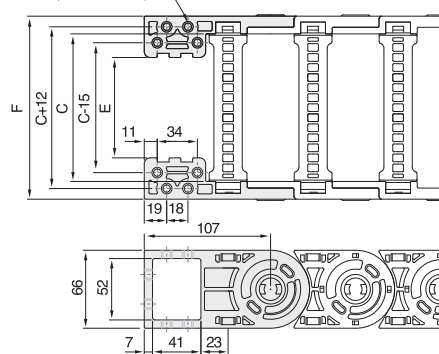
CHAIN CROSS SECTION



Chain Type	A	B	C	D	Bending Radius(R)	Weight in kg/m
ST 072N.050	82	66	50	45	72, 100, 120, 145, 200, 250, 300	2.10
ST 072N.075	107		75			2.20
ST 072N.100	132		100			2.30
ST 072N.125	157		125			2.43
ST 072N.150	182		150			2.56
ST 072N.175	207		175			2.66
ST 072N.200	232		200			3.11
ST 072N.250	282		250			3.24
ST 072N.300	332		300			3.60

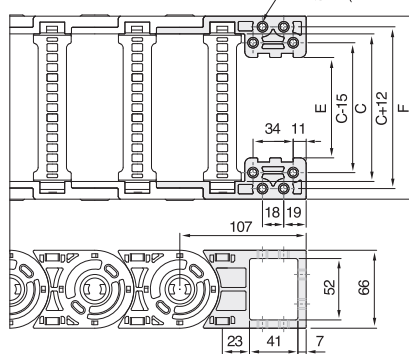
FREE END BRAKET

8-Ø6.2(M6 Bolt Holes)

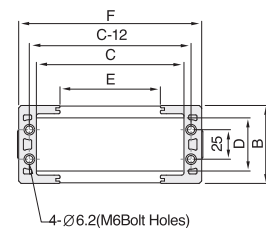


ST072N Moving point

8-Ø6.2(M6 Bolt Holes)



ST072N Fixing point



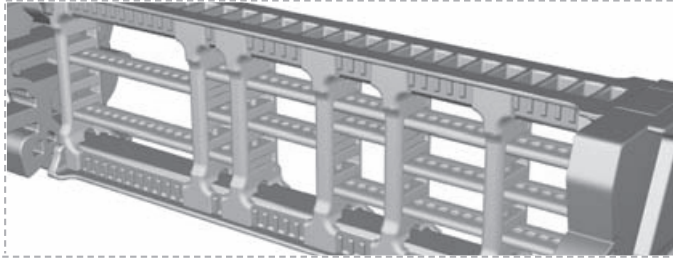
ST072N Front point

Chain Type	F	B	C	D	E	Hole Type
ST 072N.050	82	66	50	45	10	M6 Bolt Holes
ST 072N.075	107		75		35	
ST 072N.100	132		100		60	
ST 072N.125	157		125		85	
ST 072N.150	182		150		110	
ST 072N.175	207		175		135	
ST 072N.200	232		200		160	
ST 072N.250	282		250		210	
ST 072N.300	332		300		260	



ST 072N Normal 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 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 꼬임방지과 피복손상을 방지할 수 있습니다.

ST072N DV-M

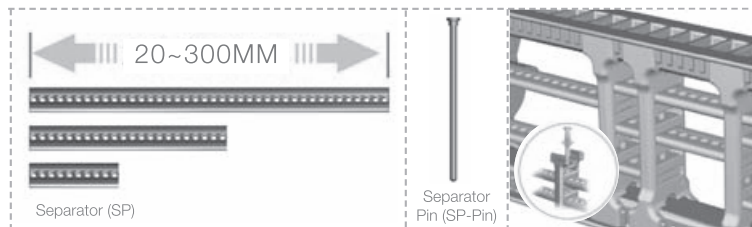
ST072N DV-S

ST072N DV-T

▶ Assemble divider every Two links. / 2링크마다 결합

▶ DV/T : Frame 200~300적용(상하 프레임을 연결)

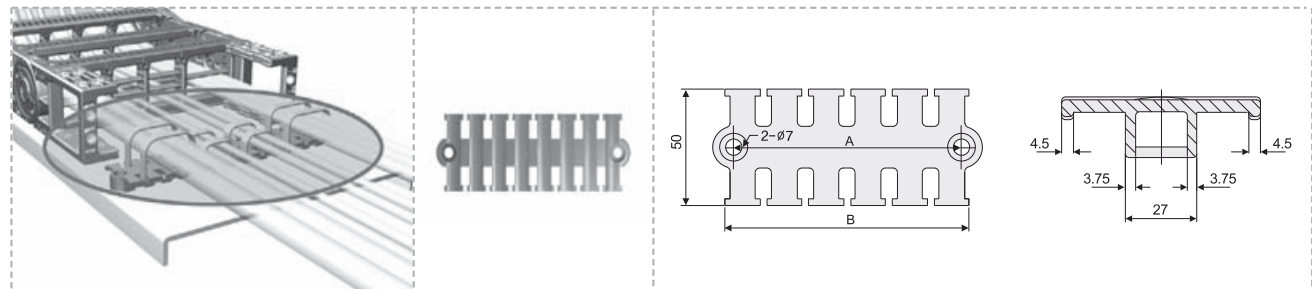
SEPARATORS (SP)



Separator is available in length from 20mm to 300mm and can be cut every 5mm for use. The combined use of divider and separator 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 케이블 크기에 맞게끔 공간분할이 용이하고 세퍼레이터 핀으로 결합하여 어떠한 경우에도 안전하게 케이블의 입선공간을 유지하여 안전하게 케이블을 보호할 수 있습니다.

TIE WRAP



(Dimensions in mm)

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 바깥쪽으로 설치함으로써 체인의 움직임으로 인해 케이블의 유동을 방지하고자 고정하는 시스템으로 케이블의 피복손상 및 단선을 방지하는 역할을 합니다.

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