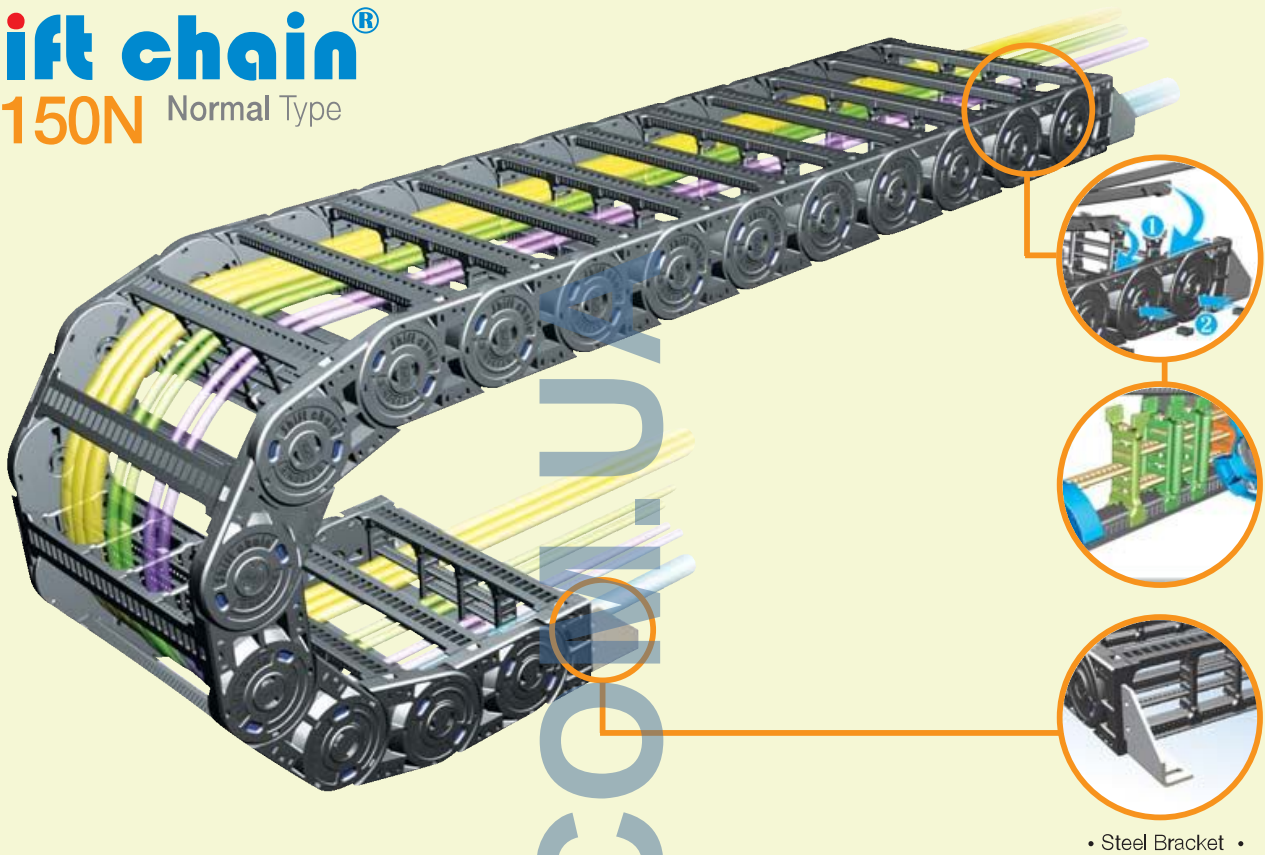


Min ●●●●● Max

Shift chain® ST 150N Normal Type



• Steel Bracket •

SHIFT CHAIN
SAVEN CHAIN
REVOLVING CHAIN
HELIX CHAIN

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 7.0m
Vertical curve below= max 150m
Side Mounted, Unsupported= max 4.0m

Applications

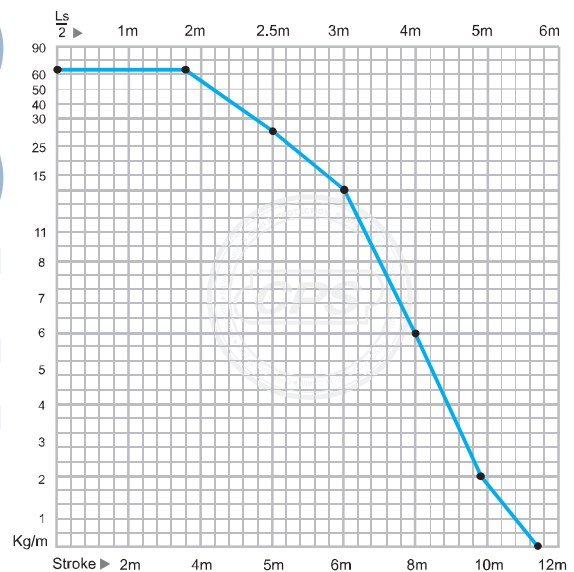
Gantry robot, Machining center, Textile machine, Welding machine, Feeder unit, Assembly Loader, Wood work machine, Fabric machine.

겐츨리로봇, 공작기계, 용접기계, 인쇄기계, 로봇케리지등 케이블 체인의 적용사업장에 사용가능.

Calculation of the chain length

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

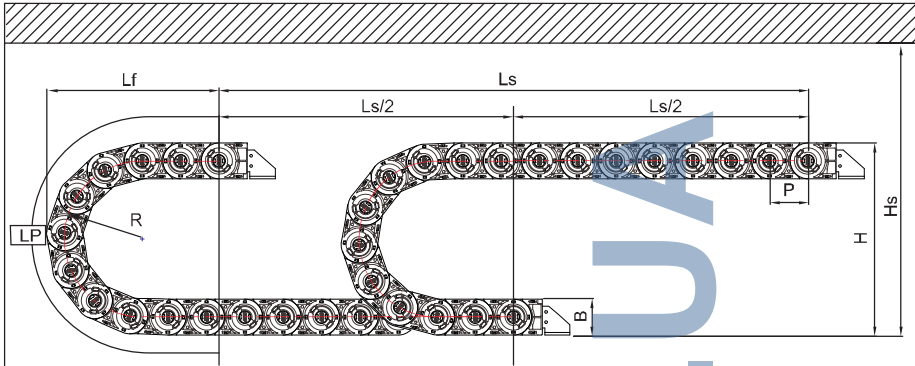
Load diagrams self-supporting length



ROBOT-IT
OPTIFLEX
OPTIFLEX

ST 150N Normal Type

LAY OUT OF THE CHAIN



(Dimensions in mm)

Bending radius R	205	305	405	505	605
Lp	1,215	1,510	1,807	2,106	2,405
L f	561	651	743	835	928
H	550	750	950	1,150	1,350

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

ST 150N Type

- Pitch P:** 150mm
- Height B:** 140mm
- Height H:** 2R+140mm
- Hs** ≥ H+80mm

ORDERING (주문방법)

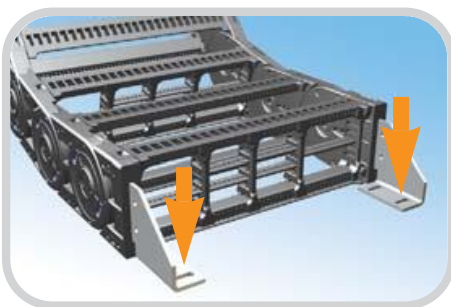
ST 150N. 400. R405 / B₁- 3000L :10ST



- 주문수량 Q' ty(set)
- 체인길이 Length(mm)
- 브라켓 End Bracket (B1, B2, B3)
- 곡률반경 Bending Radius
- 내폭 Inside Width
- 표준형타입 Normal Type

Shift Chain

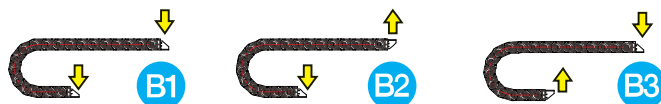
BRACKET TYPE (브라켓타입)



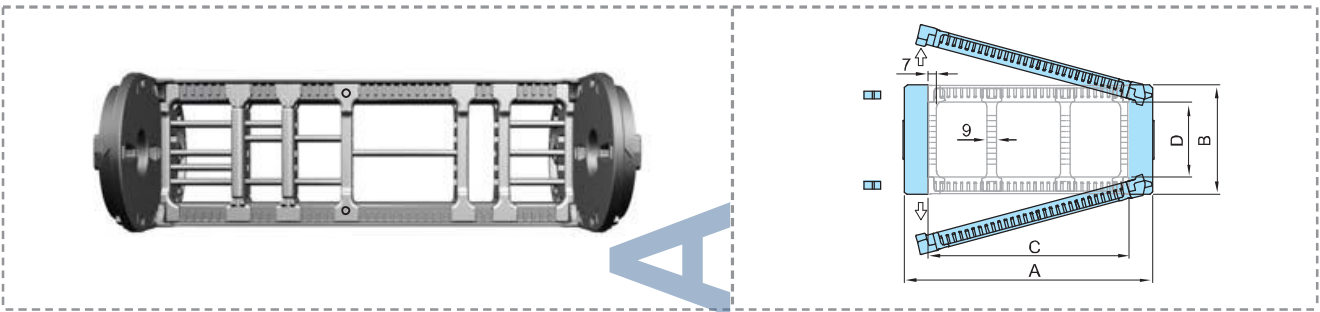
SEB (Steel End Bracket)

For ST150N, its end parts of cable chain being fixed are used with steel bracket, and it is possible to be installed B1, B2, B3 types of brackets.

체인을 고정하는 끝부분으로 ST150N사양은 ST체인의 다른사양과는 달리 스틸브라켓을 사용하며 브라켓의 설치형태에 따라 B1, B2, B3 등으로 구분설치가 가능하다.

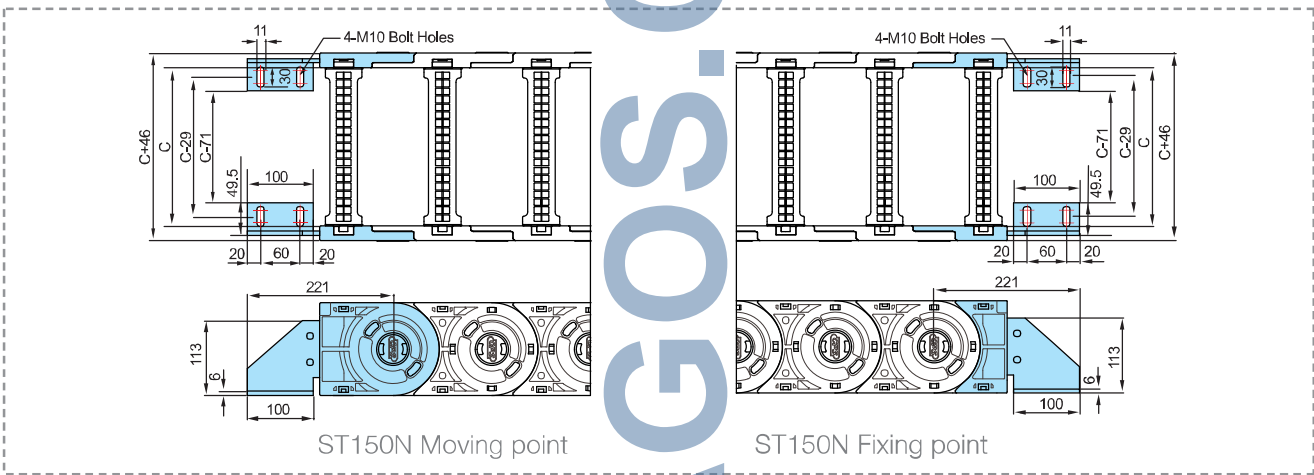


CHAIN CROSS SECTION



Chain Type	A	B	C	D	Bending Radius(R)	Weight in kg/m
ST 150N.075	121	140	75	110	205, 305, 405, 505, 605	5.85
ST 150N.100	146		100			5.96
ST 150N.125	171		125			6.08
ST 150N.150	196		150			6.18
ST 150N.175	221		175			6.30
ST 150N.200	246		200			6.51
ST 150N.250	296		250			6.78
ST 150N.300	346		300			7.14
ST 150N.350	396		350			7.51
ST 150N.400	446		400			7.88
ST 150N.450	496		450			8.18
ST 150N.500	546		500			8.37
ST 150N.550	596		550			9.11
ST 150N.600	646		600			9.26

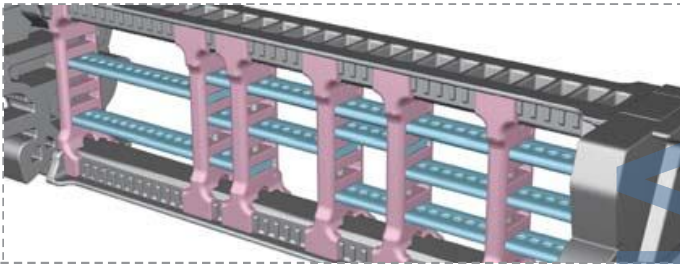
END BRACKET (STEEL TYPE)



Chain Type	B	C	D	E	Hole Type
ST 150N.075	140	75	110	110	M10 Bolt Holes
ST 150N.100		100			
ST 150N.125		125			
ST 150N.150		150			
ST 150N.175		175			
ST 150N.200		200			
ST 150N.250		250			
ST 150N.300		300			
ST 150N.350		350			
ST 150N.400		400			
ST 150N.450		450			
ST 150N.500		500			
ST 150N.550		550			
ST 150N.600		600			

ST 150N Normal Type

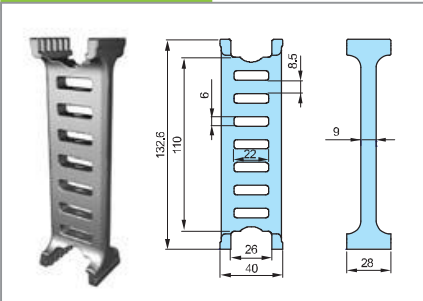
DIVIDERS



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.

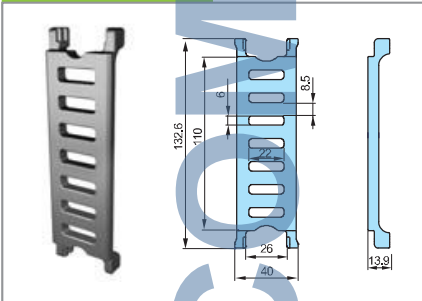
디바이더(세로분리대)와 세퍼레이터(가로분리대)는 체인내에 많은 케이블들이 입선될 시 케이블들을 서로 분리하여 케이블상호간의 마찰로 인한 **피복손상 및 단선**을 방지하는 역할을 하며 케이블과 10%이상의 여유공간을 확보해야 합니다. 또한 케이블을 체인내 2단이상 입선시 반드시 세퍼레이터를 디바이더에 결합하여 사용해야 케이블의 꼬임방지과 피복손상을 방지할 수 있습니다.

ST150N DV-M

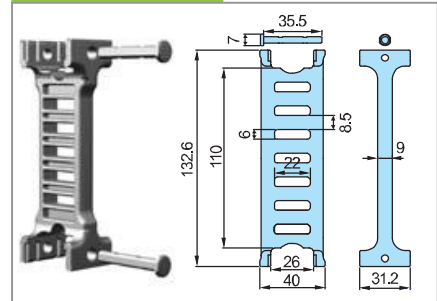


▶ Assemble divider every Two links. / 2링크마다 결합

ST150N DV-S

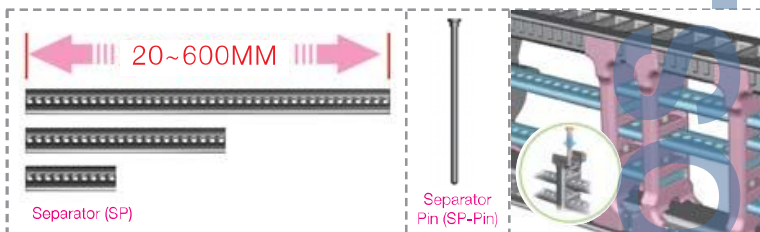


ST150N DV-T



▶ DV/T : Frame 300~600적용(상하 프레임을 연결)

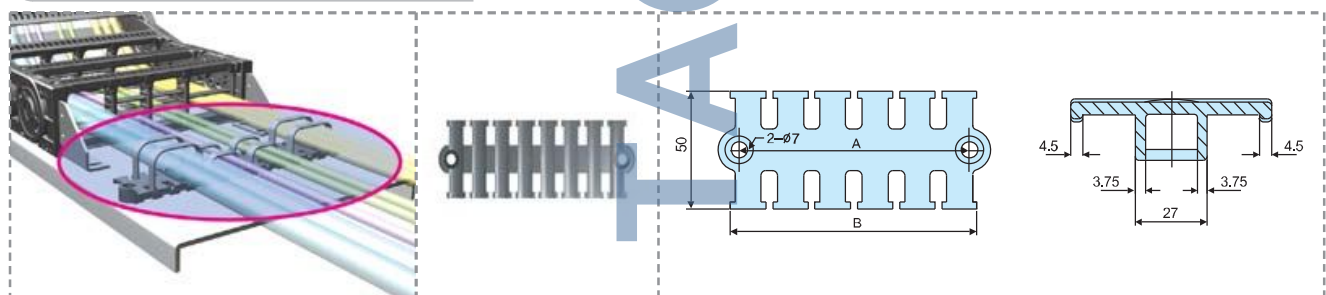
SEPARATORS (SP)



Separator is available in length from 20mm to 600mm 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 최대600mm까지 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)

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 시스템**으로 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