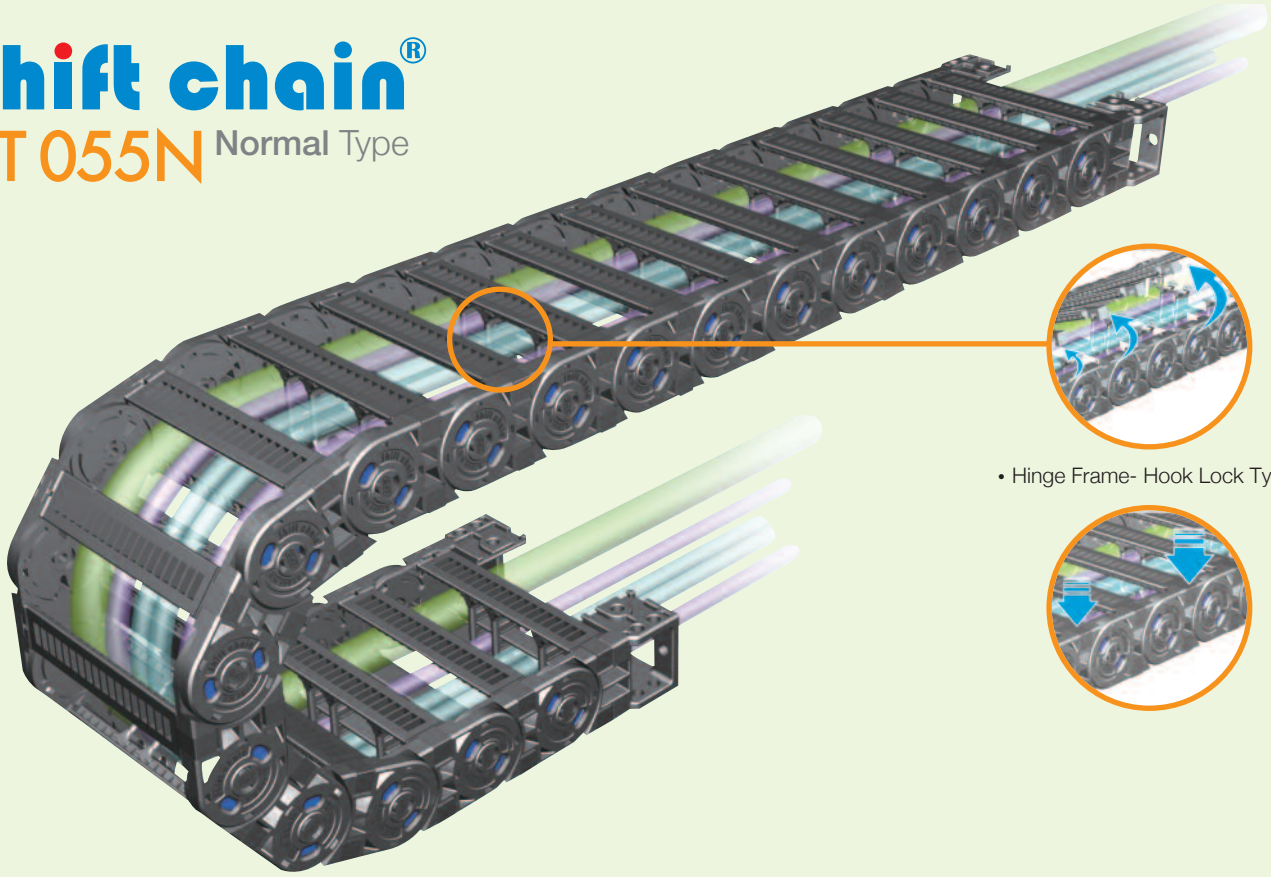




Min ●●●●●● Max

Shift chain[®] ST 055N Normal Type



• Hinge Frame- Hook Lock Type •

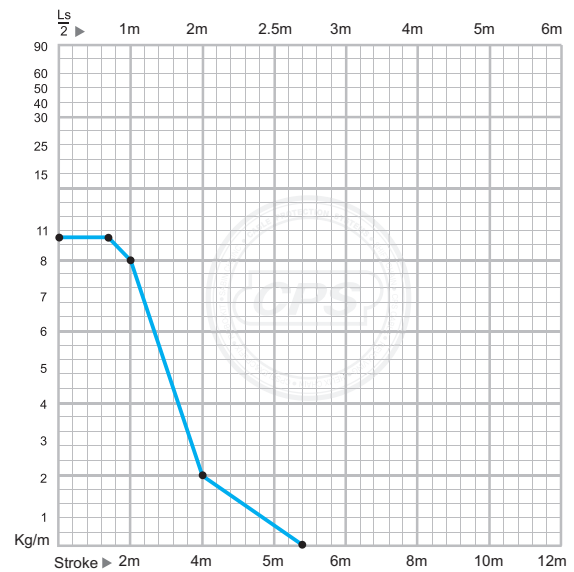
MATERIAL

- **Chain material:**
CPS-amide 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 3.0m
Vertical curve below= max 50m
Side Mounted, Unsupported= max 1.0m
- **Applications**
Gantry robot, Machining center, Textile machine, Welding machine, Feeder unit, Assembly Loader, Wood work machine, Fabric machine.

● Calculation of the chain length

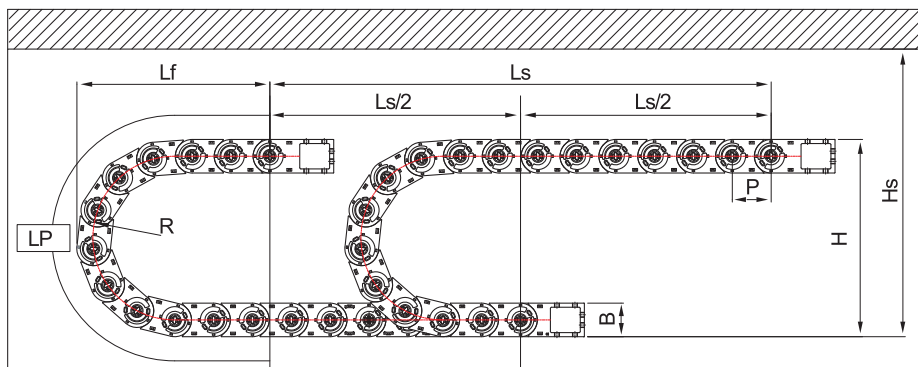
$$\left[L = \frac{Ls}{2} + Lp \right]$$

● Load diagrams self-supporting length



Normal Type **ST 055N**

LAYOUT OF THE CHAIN



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

(Dimensions in mm)

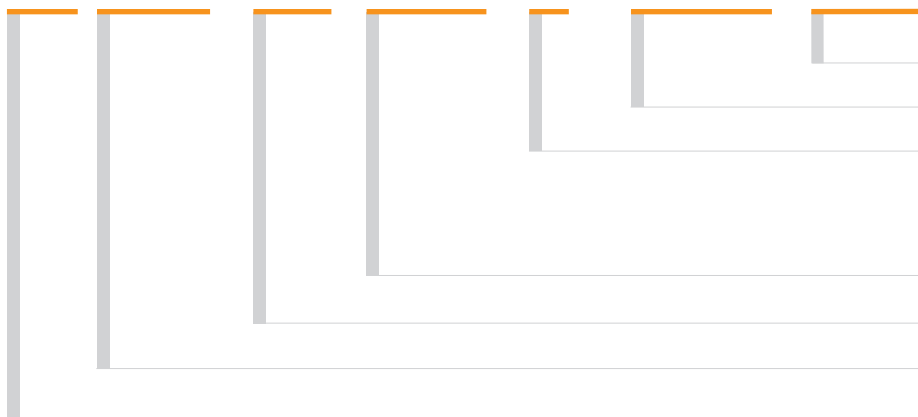
Bending radius R	65	75	100	125	150	200
Lp	424	456	535	613	692	849
Lf	201	211	236	261	286	336
H	182	202	252	302	352	452

ST 055N Type

- Pitch P:** 55mm
- Height B:** 52mm
- Height H:** 2R+52mm
- Hs** ≥ H+35mm

ORDERING

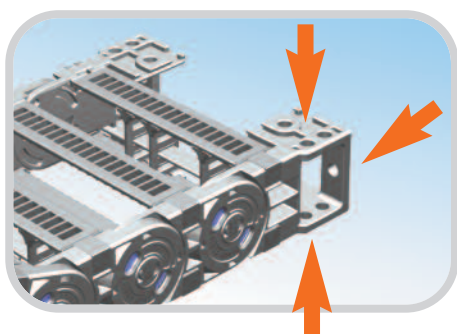
ST 055N. 150. R150 / F - 1800L : 10ST



- Q'ty(set)
- Length(mm)
- F : Free End Bracket
- G : Guide Channel Type
- V : Vertical Guide Type
- Bending Radius
- Inside Width
- 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.

▶ Above products are patent registered item which can be protected by industrial property right.



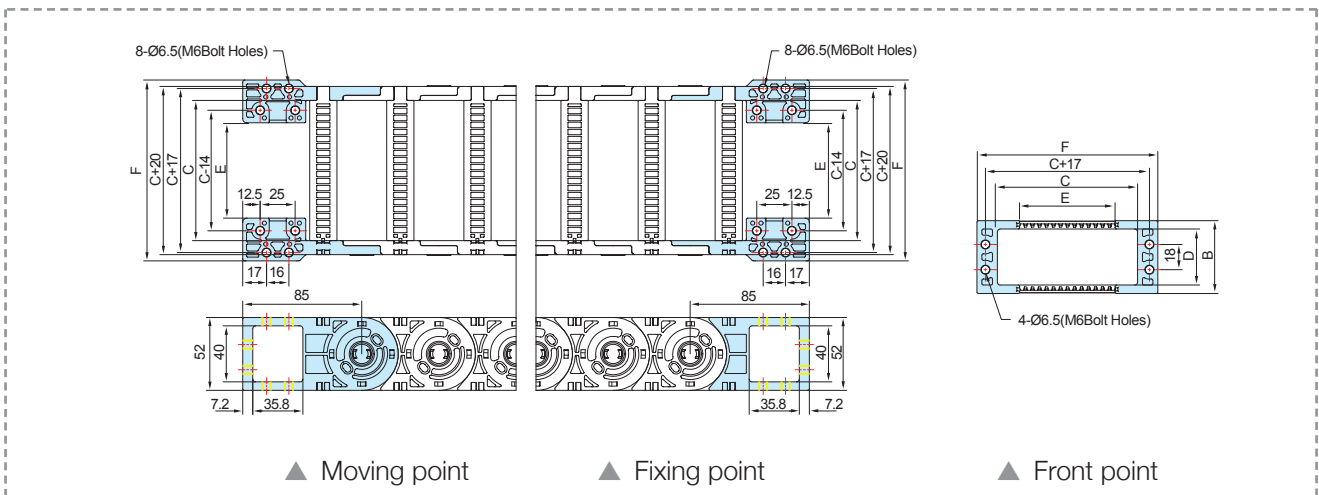
Normal Type **ST 055N**

CHAIN CROSS SECTION



Chain Type	A	B	C	D	Bending Radius(R)	Weight in kg/m
ST 055N.035	56		35			1.12
ST 055N.050	71		50			1.15
ST 055N.055	76		55			1.18
ST 055N.075	96		75			1.23
ST 055N.100	121	52	100	40	65, 75, 100, 125, 150, 200	1.31
ST 055N.125	146		125			1.41
ST 055N.150	171		150			1.51
ST 055N.175	196		175			1.78
ST 055N.200	221		200			1.92

FREE END BRAKET



Chain Type	F	B	C	D	E	Hole Type
ST 055N.035	64		35		3	M6 Bolt Holes
ST 055N.050	79		50		18	
ST 055N.055	84		55		23	
ST 055N.075	104		75		43	
ST 055N.100	129	52	100	40	68	
ST 055N.125	154		125		93	
ST 055N.150	179		150		118	
ST 055N.175	204		175		143	
ST 055N.200	229		200		168	

2014 NEW PRODUCT

Unity Systems®

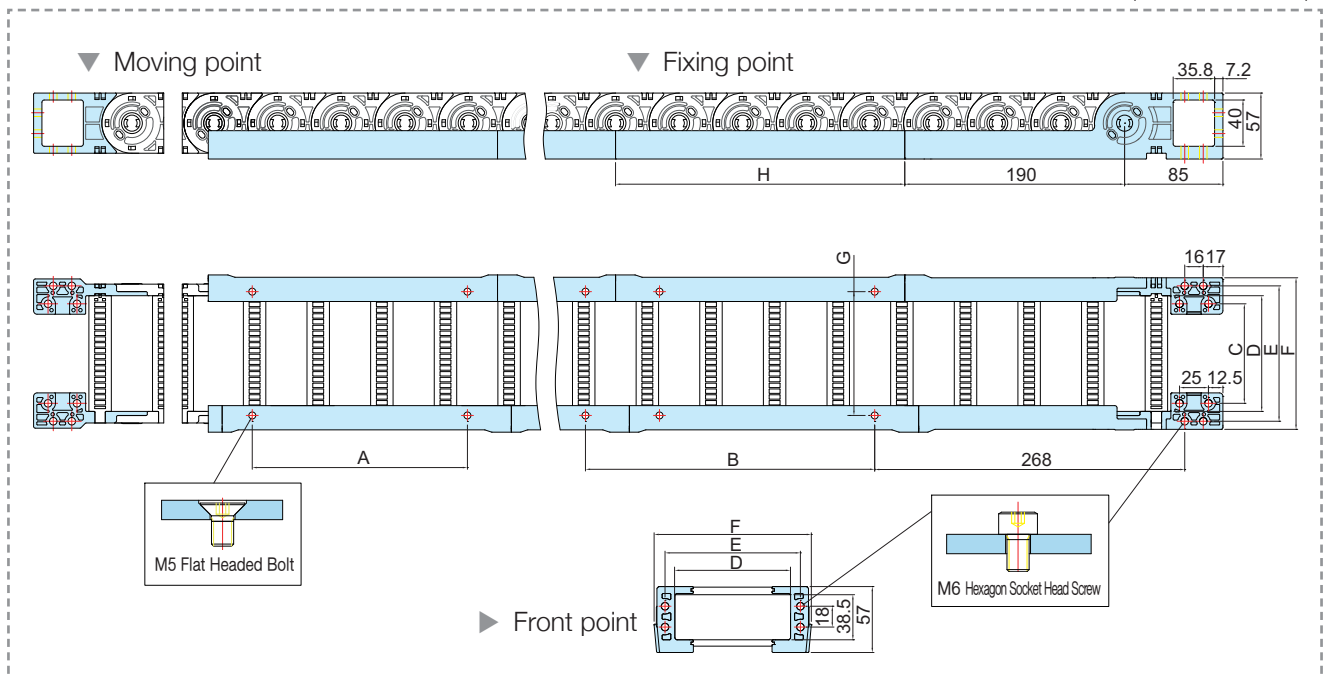
Normal Type **ST 055N**

This type of bracket is to protect deflection of chain which will support the weight of certain section start from bracket, also will protect the damage of chain.



GUIDE CHANNEL TYPE END BRACKET

(Dimensions in mm)

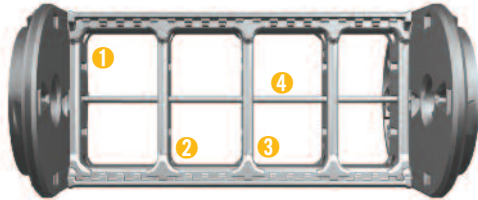


Chain Type	C FEB fix hole(inner)	D Frame length dimension	E FEB width	F FEB width	G GC hole width	GC TYPE	H GC length	B GC fixing hole	A GC hole dimension
ST 055N.035	21	35	52	71	42	GC250	250	251	186
ST 055N.050	36	50	67	86	57				
ST 055N.055	41	55	72	91	62				
ST 055N.075	61	75	92	111	82				
ST 055N.100	86	100	117	136	107				
ST 055N.125	111	125	142	161	132				
ST 055N.150	136	150	167	186	157	GC400	400	401	336
ST 055N.175	161	175	192	211	182				
ST 055N.200	186	200	217	236	207				



Normal Type **ST 055N**

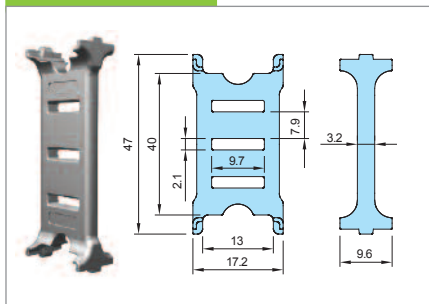
DIVIDERS & SEPARATORS



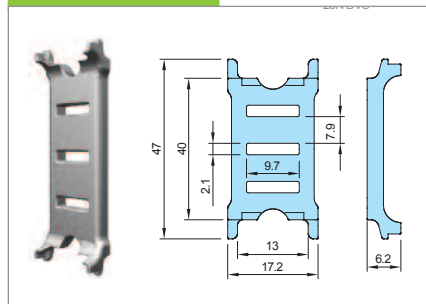
- 1 DV-S
- 2 DV-M
- 3 DV-T
- 4 Separator(SP)

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.

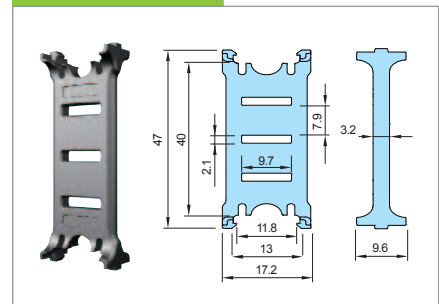
ST 055N DV-M



ST 055N DV-S



ST 055N DV-T



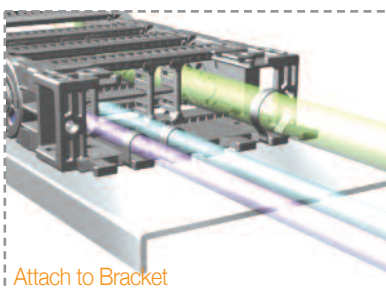
▶ Assemble divider every Two links.

▶ DV/T : Frame 125~200

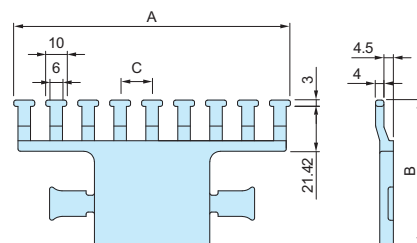
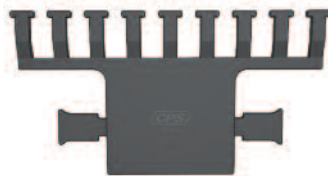
ST044N Separators (SP) (No. : S-SP/M)

Chain Type	Separators	SP035	SP050	SP055	SP075	SP100	SP125	SP150	SP175	SP200
ST 044N		○	○	○	○	○	○	○	○	○
ST 055N		○	○	○	○	○	○	○	○	○

TIE WRAP



Attach to Bracket



(Dimensions in mm)

Tie Wrap	050	075	100	125	150	175	200
A	82	107	132	157	182	203	232
B	69.42	69.42	69.42	69.42	69.42	69.42	69.42
C	12	12.13	15.25	14.7	14.35	12.31	13.88

The Tie Wrap separated from the Shift Chain bracket, when installed properly, protects the inserted cables from becoming entangled and twisted during operation. There are two types in the tie wrap; Attached & Unattached to the bracket.

When using the tie wrap option for the Shift Chain ST 055 series, the corresponding frame sizes will be 50, 75, 100, 125, 150, 175 and 200mm respectively.