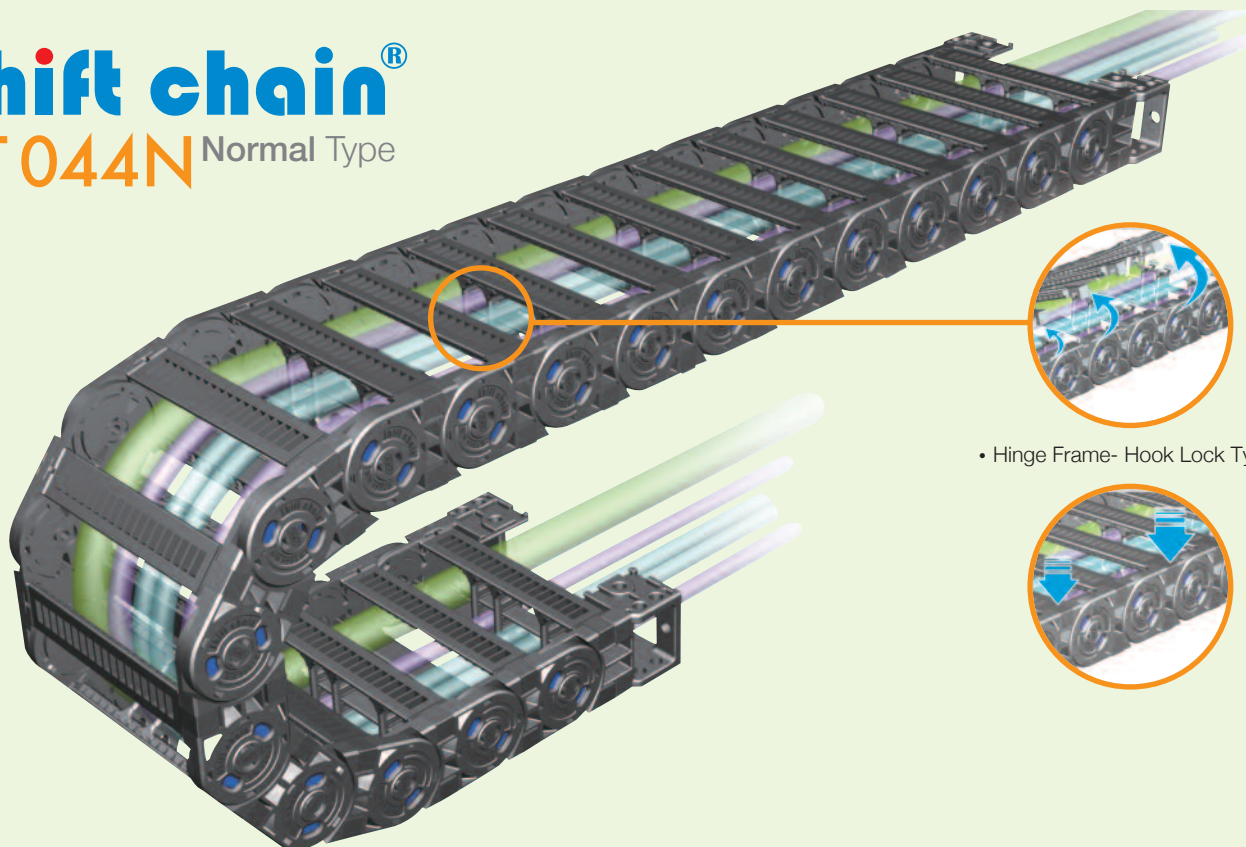


Min ●●●●●● Max

Shift chain®

ST 044N Normal Type



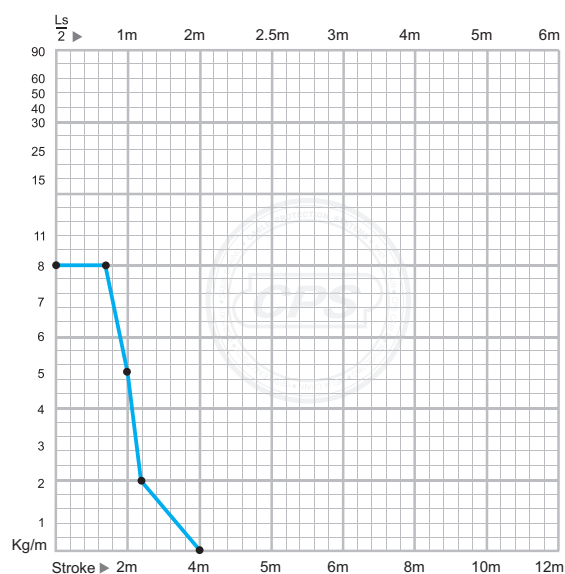
• Hinge Frame- Hook Lock Type •

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 2.0m
Vertical curve below= max 40m
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**

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

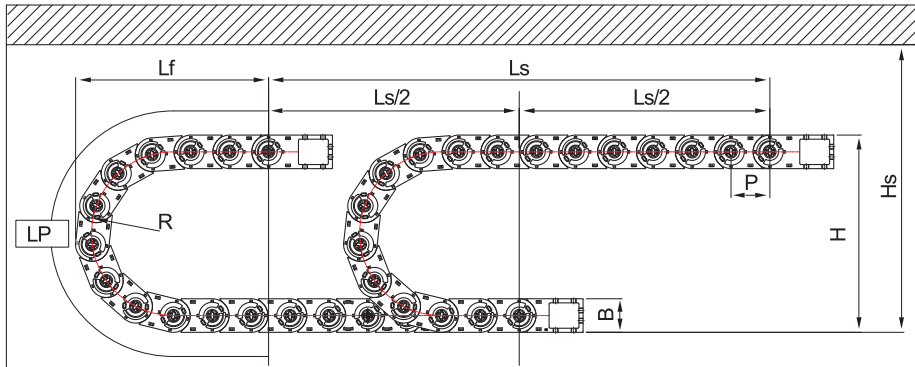
● Load diagrams self-supporting length





Normal Type **ST 044N**

LAYOUT OF THE CHAIN



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

(Dimensions in mm)

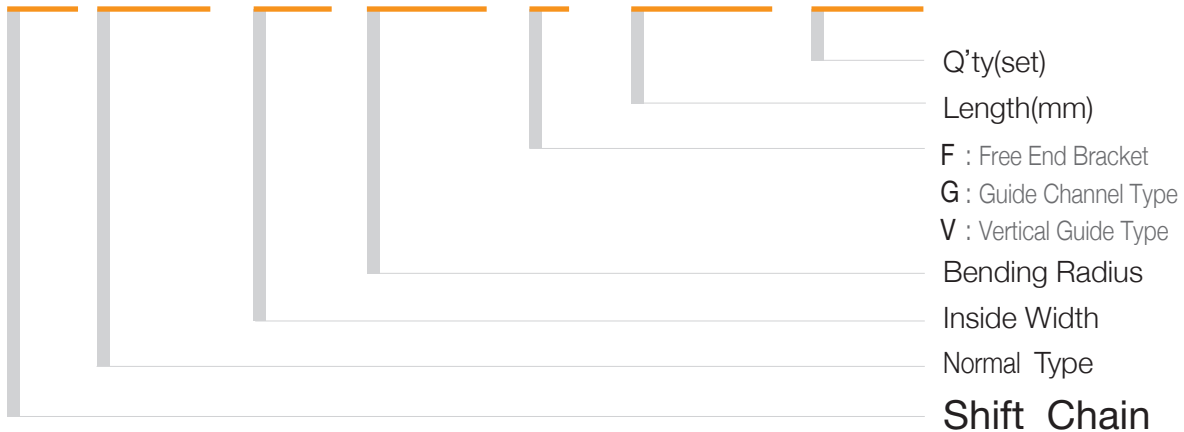
Bending radius R	50	70	90	120	150
Lp	333	396	459	553	648
Lf	157	177	197	227	257
H	138	178	218	278	338

ST 044N Type

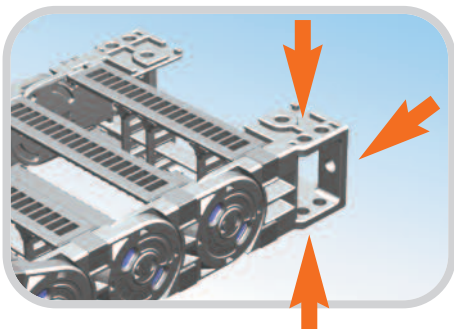
Pitch P: 44mm
Height B: 38mm
Height H: 2R+38mm
Hs ≥ H+30mm

ORDERING

ST 044N. 100. R120 / F - 1500L : 10ST



BRACKET TYPE



FEB (Free End Bracket)

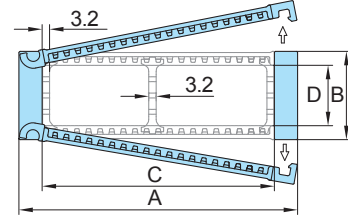
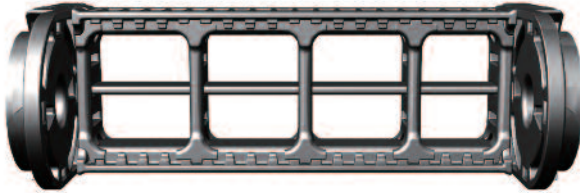
FEB Fixes the cable chain to the machinery or moving application. CPS has improved mounting efficiency by unifying the existing Easy End Bracket and Normal End Bracket.

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



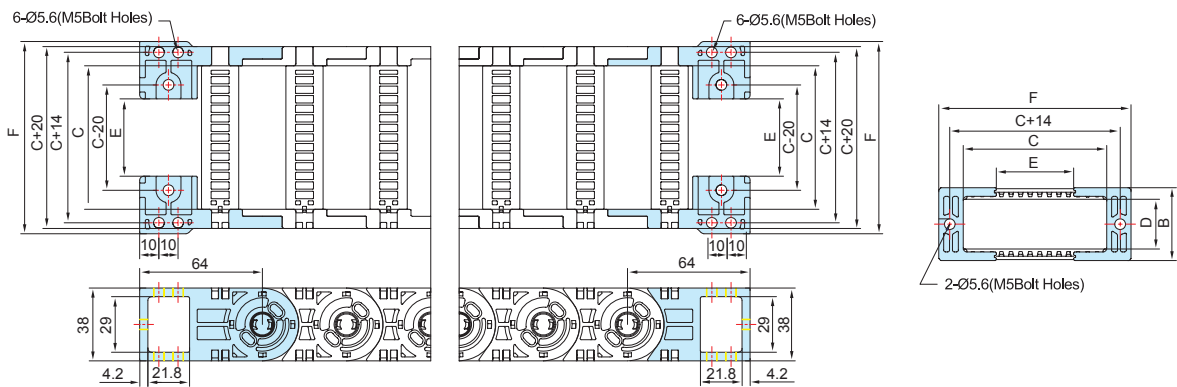
Normal Type **ST 044N**

CHAIN CROSS SECTION



Chain Type	A	B	C	D	Bending Radius(R)	Weight in kg/m
ST 044N.035	56		35		50, 70, 90, 120, 150	0.93
ST 044N.050	71		50			0.97
ST 044N.055	76		55			1.00
ST 044N.075	96		75			1.06
ST 044N.100	121	38	100	26		1.17
ST 044N.125	146		125			1.30
ST 044N.150	171		150			1.43
ST 044N.175	196		175			1.78
ST 044N.200	221		200			1.94

FREE END BRACKET



▲ Moving point

▲ Fixing point

▲ Front point

Chain Type	F	B	C	D	E	Hole Type
ST 044N.035	60.4		35		0.4	M5 Bolt Holes
ST 044N.050	75.4		50		15.4	
ST 044N.055	80.4		55		20.4	
ST 044N.075	100.4		75		40.4	
ST 044N.100	125.4	38	100	26	65.4	
ST 044N.125	150.4		125		90.4	
ST 044N.150	175.4		150		115.4	
ST 044N.175	200.4		175		140.4	
ST 044N.200	225.4		200		165.4	



2014 NEW PRODUCT

Unity Systems[®]

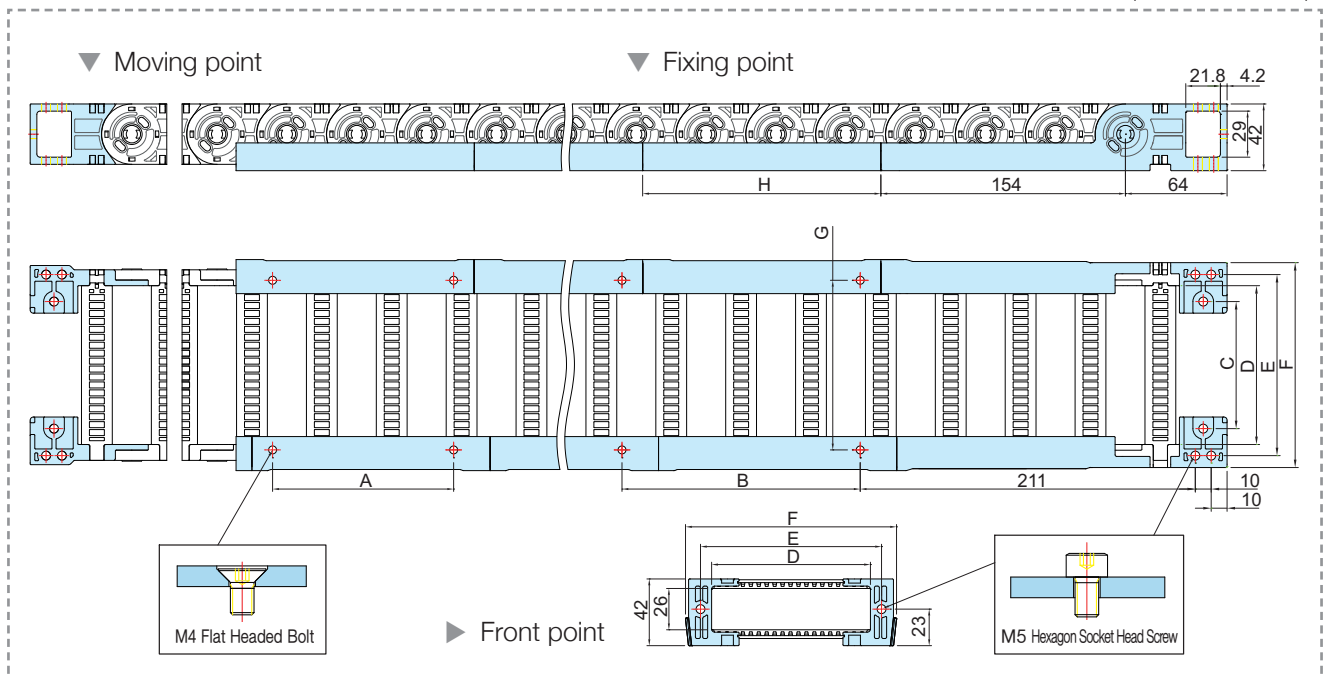
Normal Type **ST 044N**

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

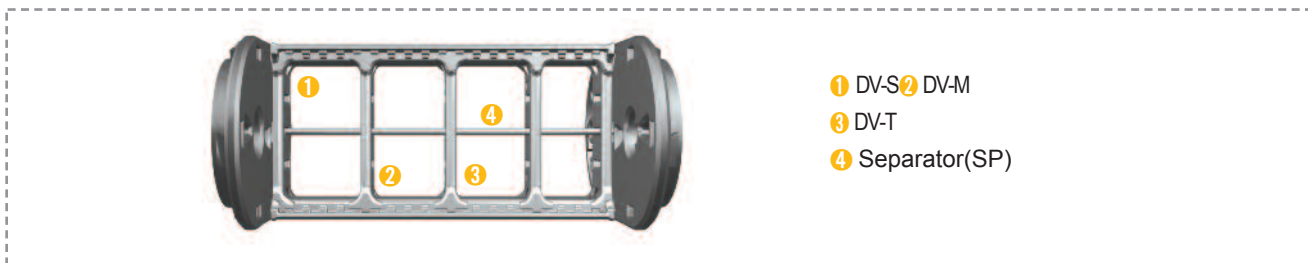
(Dimensions in mm)



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 044N.035	15	35	49	68	41.8	GC150	150	151	114
ST 044N.050	30	50	64	83	56.8				
ST 044N.055	35	55	69	88	61.8				
ST 044N.075	55	75	89	108	81.8				
ST 044N.100	80	100	114	133	106.8				
ST 044N.125	105	125	139	158	131.8				
ST 044N.150	130	150	164	183	156.8	GC250	250	251	214
ST 044N.175	155	175	189	208	181.8				
ST 044N.200	180	200	214	233	206.8				

Normal Type **ST 044N**

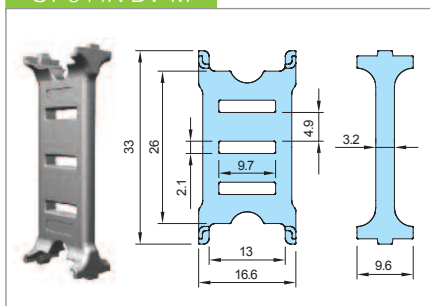
DIVIDERS & SEPARATORS



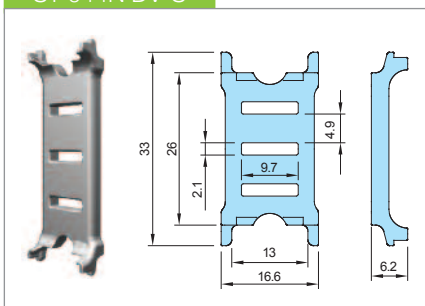
- ① DV-S ② DV-M
- ③ DV-T
- ④ Separator(SP)

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.

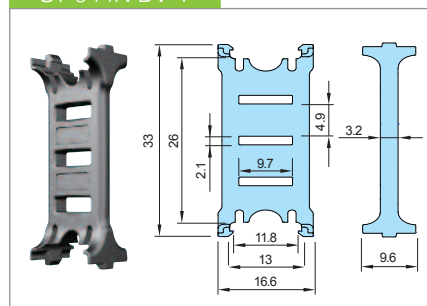
ST 044N DV-M



ST 044N DV-S



ST 044N DV-T



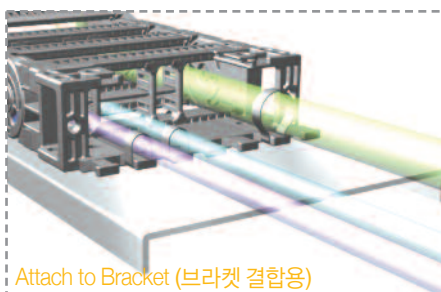
▶ Assemble divider every Two links.

▶ DV/T : Frame 125~200

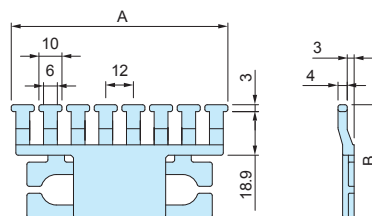
ST044N Separators (SP) (No. : S-SP/M)

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

TIE WRAP



Attach to Bracket (브라켓 결합용)



(Dimensions in mm)

Tie Wrap	035	055	075	100	125
A	46	70	94	118	142
B	35.4	48.9	48.9	48.9	48.9

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.