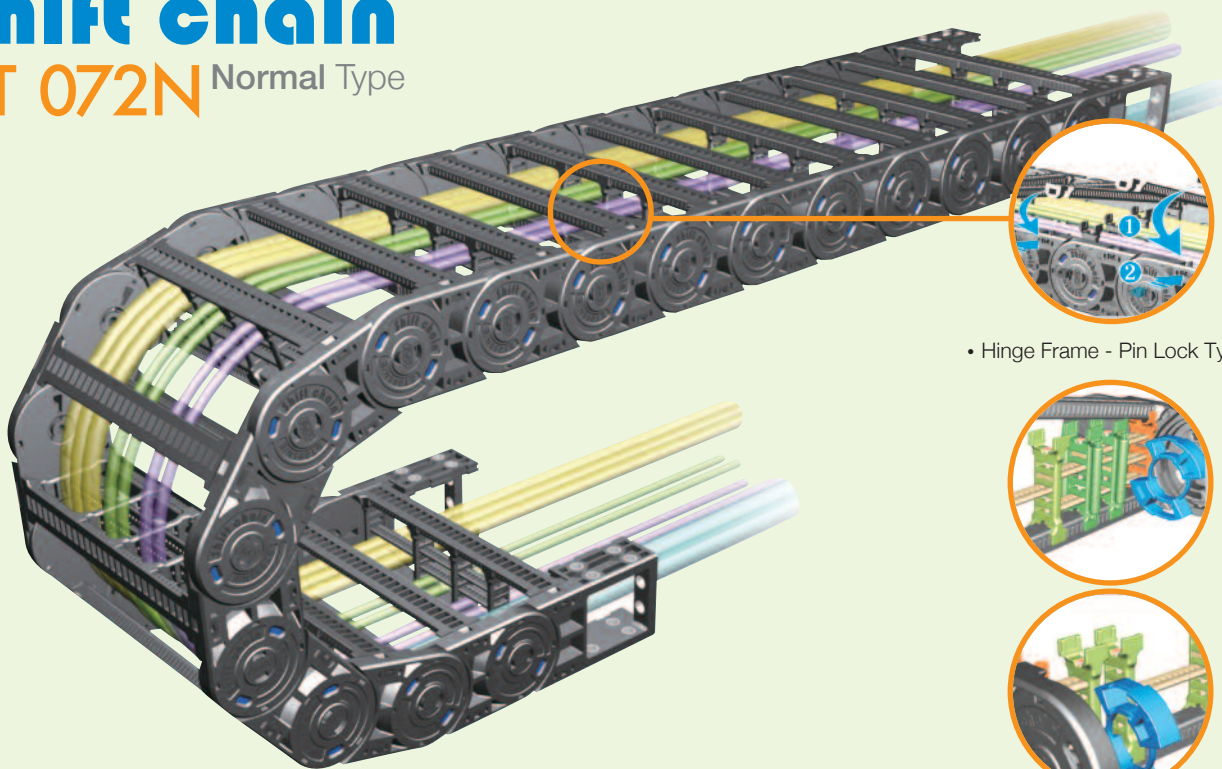


Min ●●●●● Max

# Shift chain®

## ST 072N Normal Type



• Hinge Frame - Pin Lock Type •

CPS CABLE CHAIN

SHIFT CHAIN

SABIN CHAIN

REVOLVING CHAIN

HELIX CHAIN

ROBO-KIT

CPSFLEX

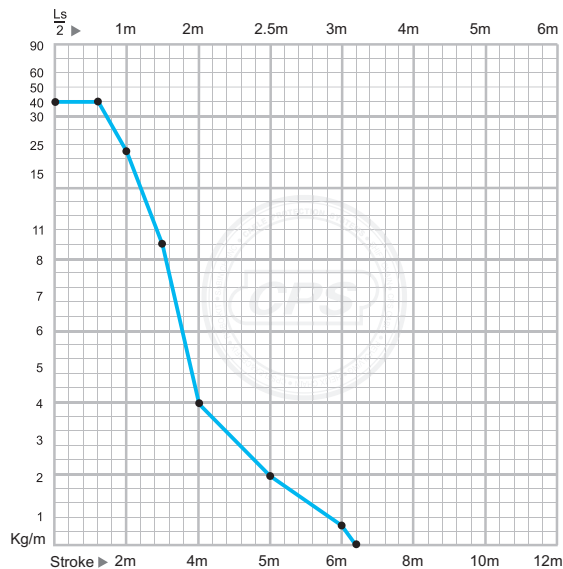
CPSFIX

### 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 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.
- **Calculation of the chain length**

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

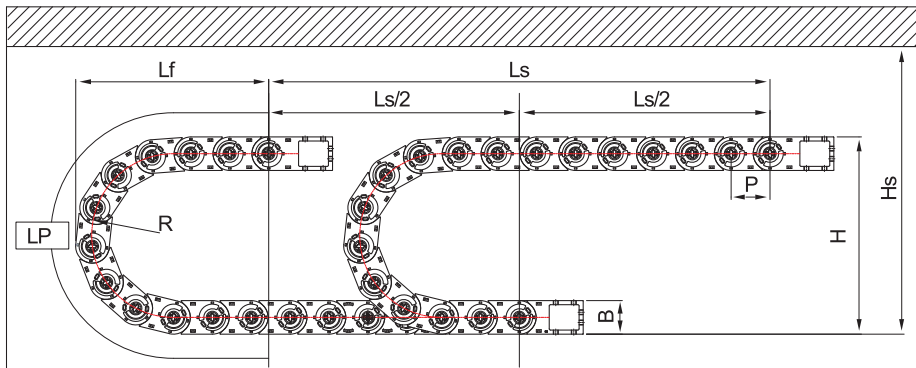
### Load diagrams self-supporting length





Normal Type **ST 072N**

**LAYOUT OF THE CHAIN**



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

(Dimensions in mm)

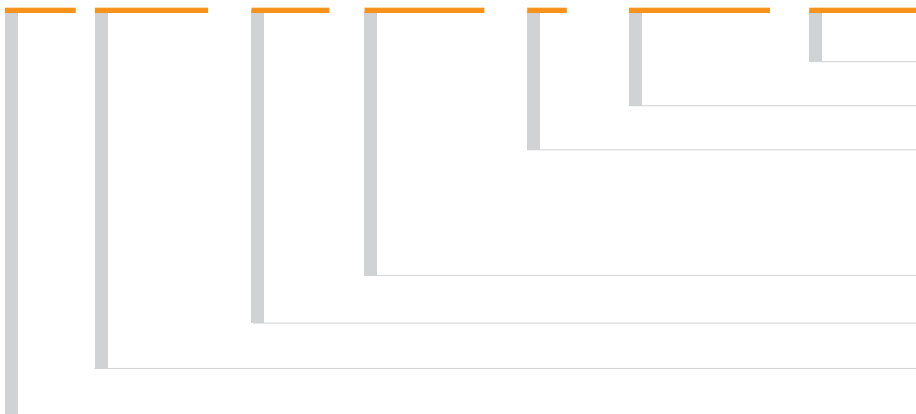
Bending radius R	72	100	120	145	200	250	300
Lp	514	603	665	743	916	1,074	1,230
Lf	249	277	297	322	377	427	477
H	210	266	306	356	466	566	666

**ST 072N Type**

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

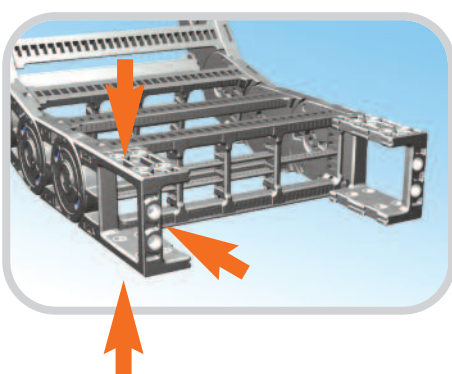
**ORDERING**

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



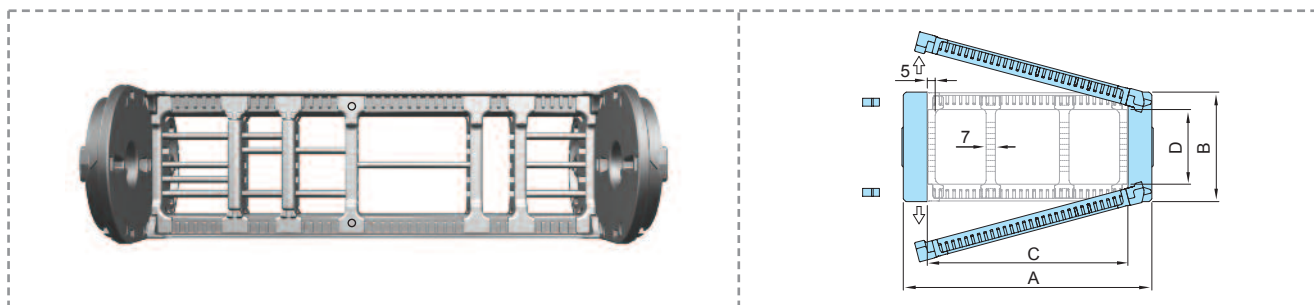
**FEB (Free End Bracket)**

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.

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

# Normal Type **ST 072N**

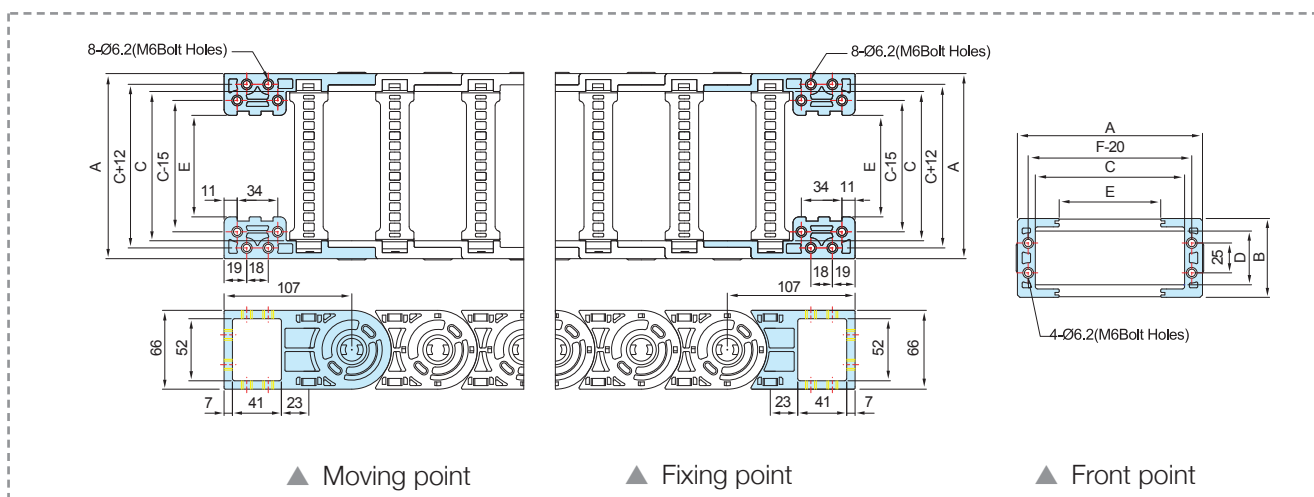
## CHAIN CROSS SECTION



Chain Type	A	B	C	D	Bending Radius(R)	Weight in kg/m
ST 072N.050	82		50		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	66	150	45		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

▲ Application of special frame. (C:140,165,190,240)

## FREE END BRAKET



▲ Moving point

▲ Fixing point

▲ Front point

Chain Type	A	B	C	D	E	Hole Type
ST 072N.050	82		50		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	66	150	45	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	

▲ Application of special frame. (C:140,165,190,240)



**2014 NEW PRODUCT**

## Unity Systems<sup>®</sup>

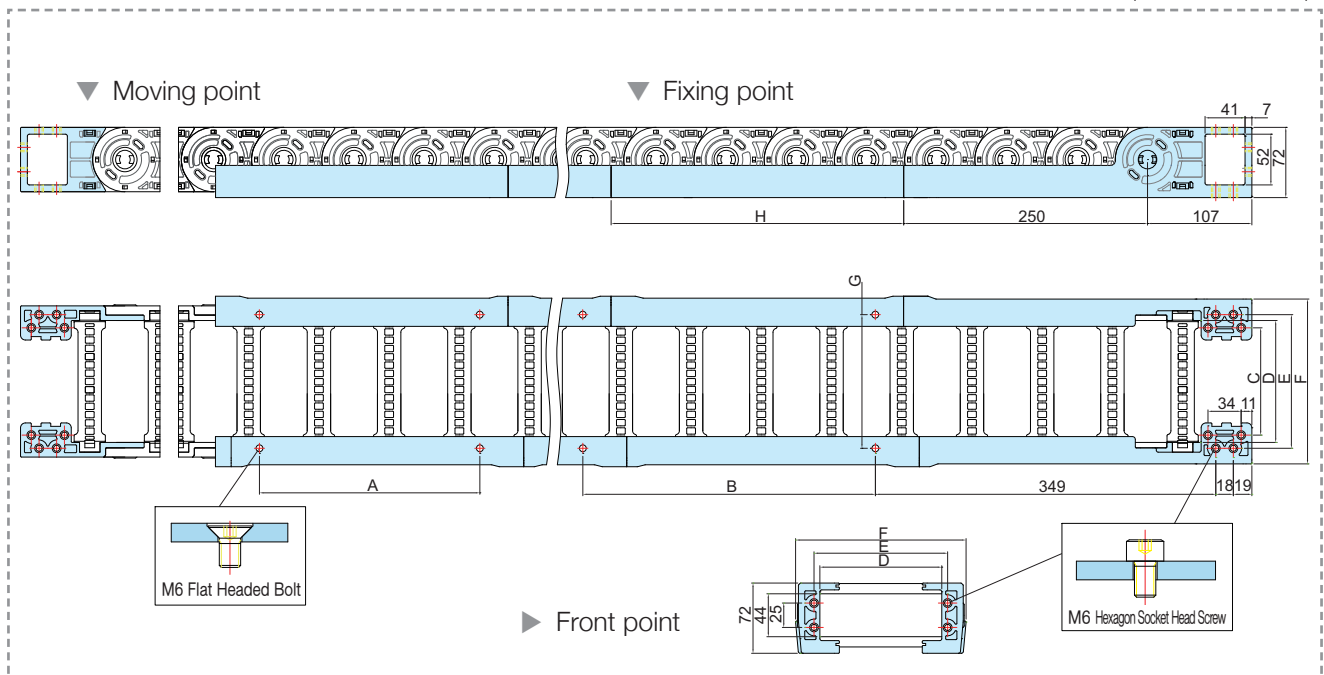
Normal Type **ST 072N**

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)

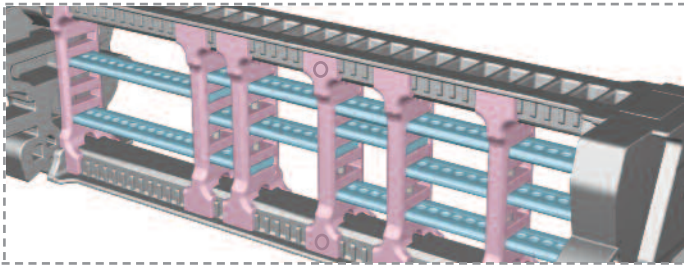


Chain Type	C FEB fix hole(inner)	D Frame length dimension	E FEB width	F FEB width	G GC hole width	GC TYPE	H GC length	B GC fixing hole	A GC hole dimension
ST 072N.050	35	50	62	100	62	GC300	300	301	226
ST 072N.075	60	75	87	125	87				
ST 072N.100	85	100	112	150	112				
ST 072N.125	110	125	137	175	137				
ST 072N.150	135	150	162	200	162				
ST 072N.175	160	175	187	225	187	GC500	500	501	426
ST 072N.200	185	200	212	250	212				
ST 072N.250	235	250	262	300	262				
ST 072N.300	285	300	312	350	312				



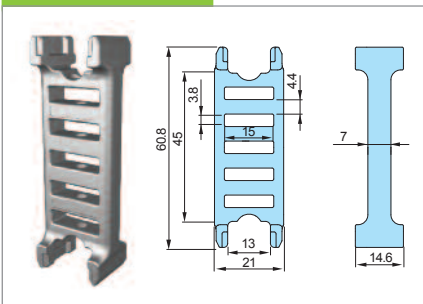
## Normal Type **ST 072N**

### **DIVIDERS**

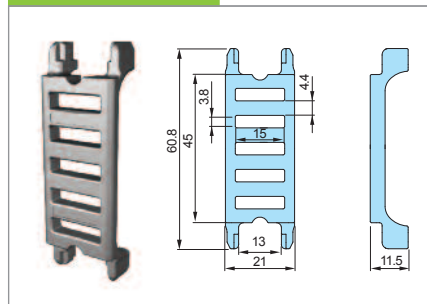


Dividers (Vertical) and Separators (Horizontal) divide the inner chamber of the cable chain to give each cable diameter its own center and keep the cables separated from each other. The use of separator in some cases, can also reduce the width requirements as two or more levels can be made within the 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.

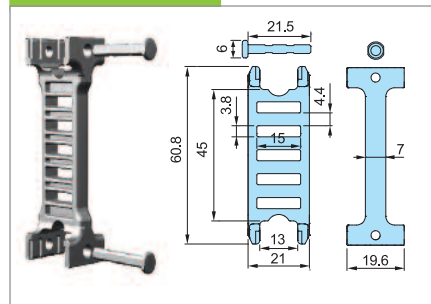
ST072N DV-M



ST072N DV-S



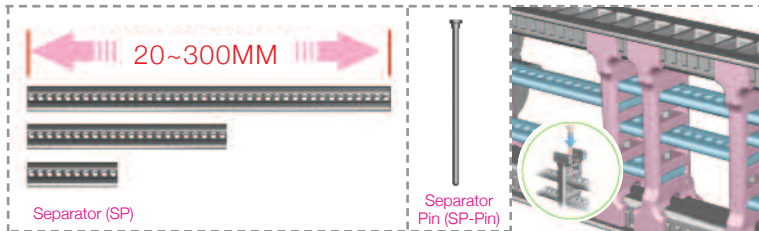
ST072N DV-T



▶ Assemble divider every Two links.

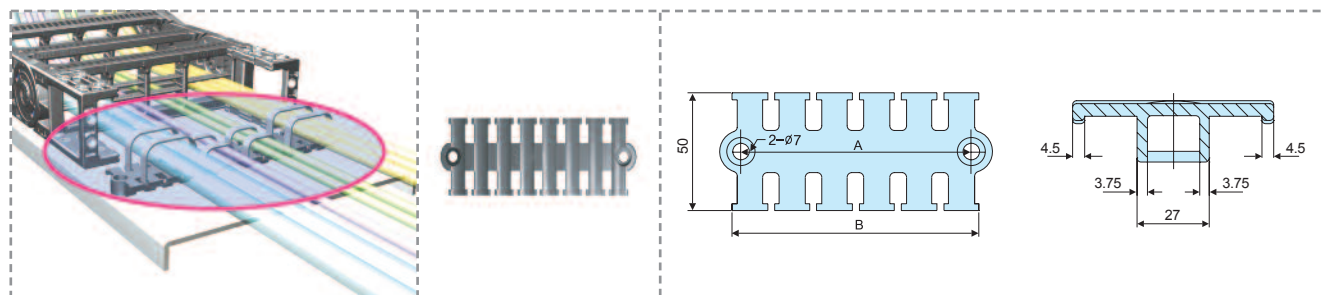
▶ DV/T : Frame 200~300

### **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.

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