

Revolving chain



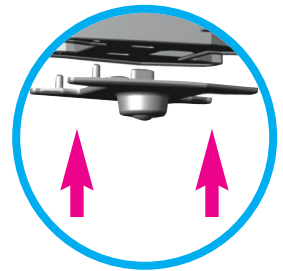
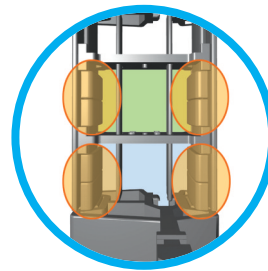
A / Automatically control the bending radius and reverse bending radius.

B / Maximize the mobility of bending radius.

C / Apply to the rotating Machine or Robot.

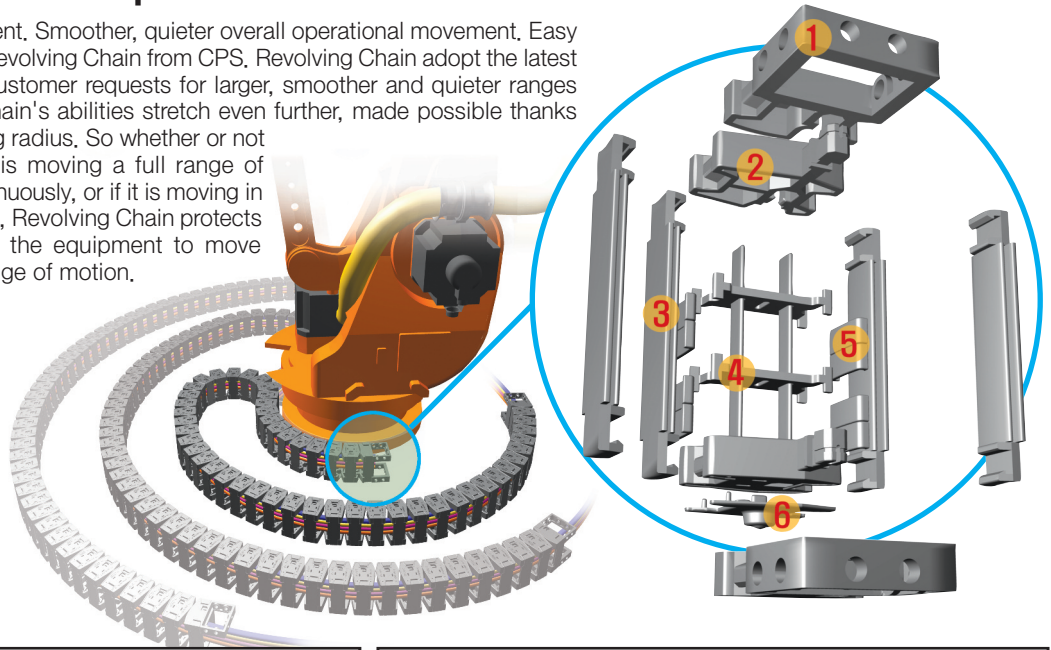
D / Low dust and low noise realization.

E / Boost the productivity with more secured cable protection system.



» Part name and description

Safer equipment management, Smoother, quieter overall operational movement, Easy installation, Patented new Revolving Chain from CPS. Revolving Chain adopt the latest technological efforts with customer requests for larger, smoother and quieter ranges of movement. Revolving Chain's abilities stretch even further, made possible thanks to the patented free-bending radius. So whether or not your operating equipment is moving a full range of more than 360degrees continuously, or if it is moving in different shorter movements, Revolving Chain protects your cables while allowing the equipment to move freely throughout the full range of motion.



1 Easy Bracket

The end of the cable chain, used to mount the application to the operating machinery or moving apparatus. CPS has improved the end bracket by making it possible to mount the cable chain from the front, side, bottom or top.

2 Side Band

Developed and patented by CPS. As a result of the sideband connection method, virtually no noise is produced during operation. Which is possible by eliminating all points of friction.

3 Frame

It is a unit that connects to side band and inner surface is smoothly machined to protect cables from friction.

4 Divider & Separator

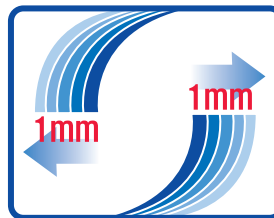
Used to separate the cables inside of the cable chain and protect them from twisting and breaking.

5 Stopper

It is a unit to adjust the divider's position by considering number of cables in cable chain.

6 Ball Caster

Attached to the bottom of the sidebands, ball casters help to facilitate smooth and quiet movement of the cable chain. CPS ball casters are used every 8 link. (Can be changed according to application environment)

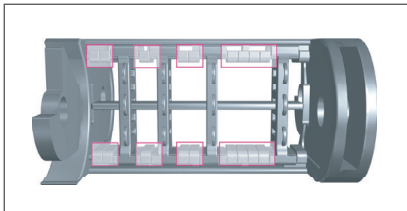


Adjustable Bending Radius per 1mm!

Revolving Chain adjusts to the machine or application movement by creating various bending radius automatically. It can be adjusted by a unit of 1mm.

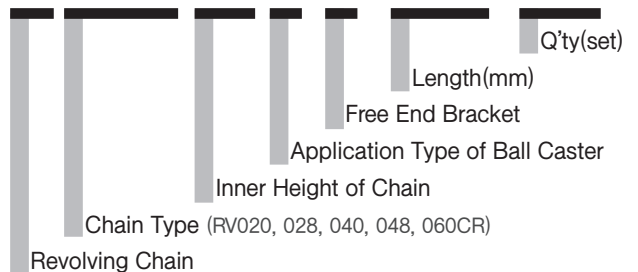
» Stopper System

Stopper decides the location of divider which is settled in side of cable chain and control the position of divider according to the inserted cable's size and quantity. The items are classified as ST-M1, ST-M2, ST-S1, ST-S2 and please refer following drawings.



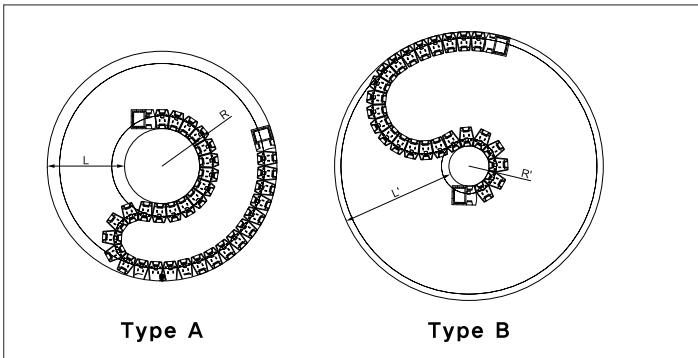
» Ordering

RV 048CR, 200, A / F - 1000L : 10ST



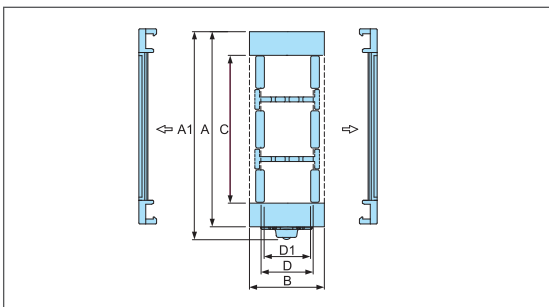
RV020CR

» Chain cross section



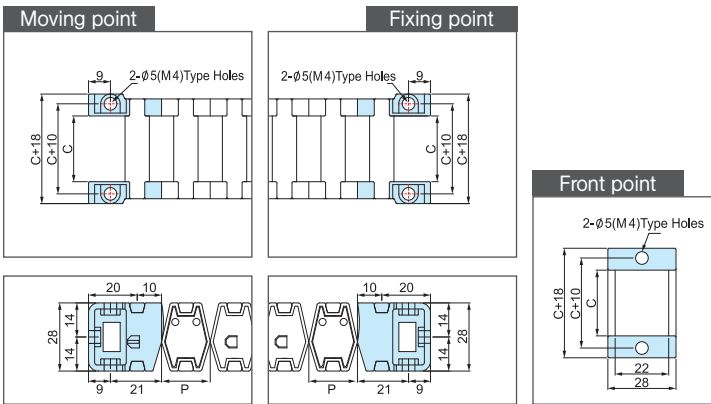
Type A	Minimum distance (L)	130
	Minimum reverse bending (R)	40
Type B	Minimum distance (L')	150
	Minimum reverse bending (R')	30

There are two installation choices, A or B corresponding with the bending radius of the side band. Choose A or B installation when there is insufficient distance between R, R' (Inner Bending Radius) and L, L' (Reverse)



Chain Type	A (A1)	B	C	D (D1)
RV 020CR	30	28	16	22
	41		27	
	51		37	
	61		47	
	81		67	
	91		77	

» Bracket type

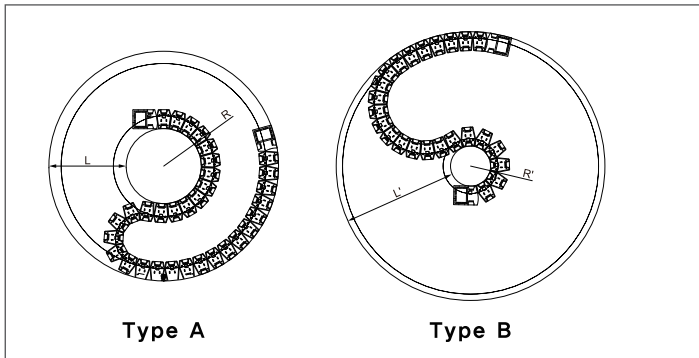


Chain Type	Pitch	C
RV 020CR	20	16
		27
		37
		47
		67
		77

(Dimensions in mm)

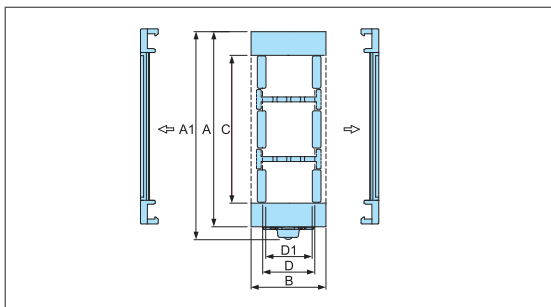
RV028CR

» Chain cross section



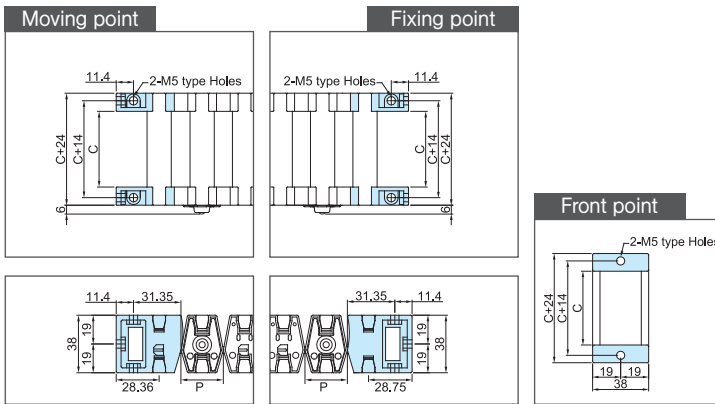
Type A	Minimum distance (L)	170
	Minimum reverse bending (R)	70
Type B	Minimum distance (L')	200
	Minimum reverse bending (R')	50

There are two installation choices, A or B corresponding with the bending radius of the side band. Choose A or B installation when there is insufficient distance between R, R' (Inner Bending Radius) and L, L' (Reverse)



Chain Type	A (A1)	B	C	D (D1)
RV 028CR	59(65)	38	35	28(25)
	79(85)		55	
	99(105)		75	
	124(130)		100	
	149(155)		125	

» Bracket type

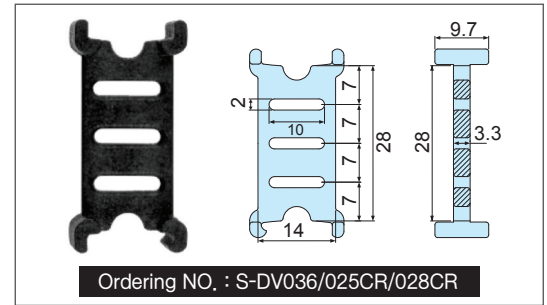


Chain Type	Pitch	C
RV 028CR	28	35
		55
		75
		100
		125

(Dimensions in mm)

» Dividers(DV)

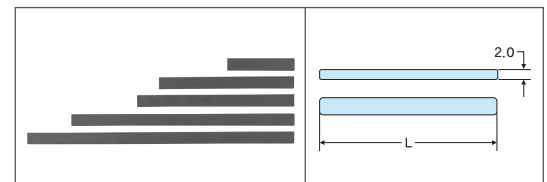
Divider is used when there are more than 2 cables are inserted, which protects twisting and beaking problem.



Ordering NO. : S-DV036/025CR/028CR

(Dimensions in mm)

» Separators(SP)

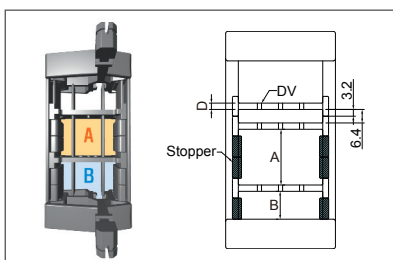


The inserted separators into dividers have the function to separate cables, and lessen the interference of cables, so as it is also used for efficient use of inner chamber space.

Ordering NO.	Length (L)
S-SP/M.35	35
S-SP/M.55	55
S-SP/M.75	75
S-SP/M.100	100
S-SP/M.125	125

(Dimensions in mm)

» Application method stopper



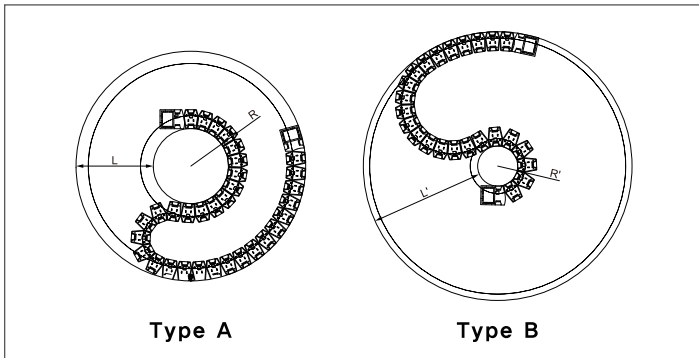
$$A = 6.4 + 10 \times \text{Stopper Qty}$$

$$B = 3.2 + 10 \times \text{Stopper Qty}$$

D = RV028CR : 3.3mm
 RV040CR : 3.2mm
 RV048CR : 3.5mm

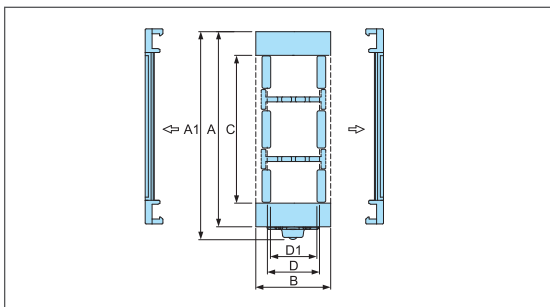
RV040CR

» Chain cross section



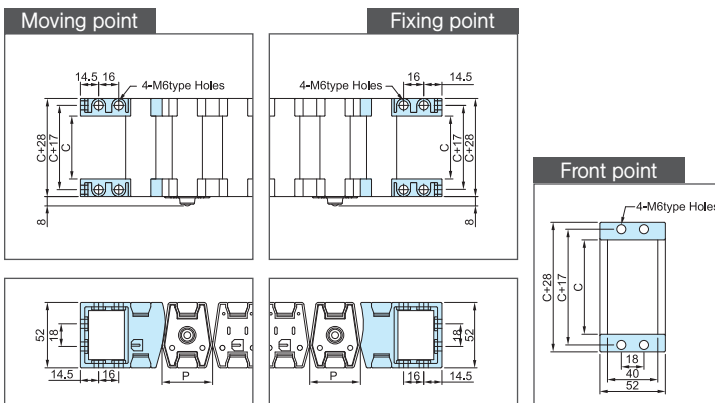
Type A	Minimum distance (L)	230
	Minimum reverse bending (R)	120
Type B	Minimum distance (L')	340
	Minimum reverse bending (R')	70

There are two installation choices, A or B corresponding with the bending radius of the side band. Choose A or B installation when there is insufficient distance between R, R' (Inner Bending Radius) and L, L' (Reverse)



Chain Type	A (A1)	B	C	D (D1)
RV 040CR	78 (86)	52	50	40(37)
	103 (111)		75	
	128 (136)		100	
	138 (146)		110	
	153 (161)		125	
	178 (186)		150	
	203 (211)		175	
	228 (236)		200	

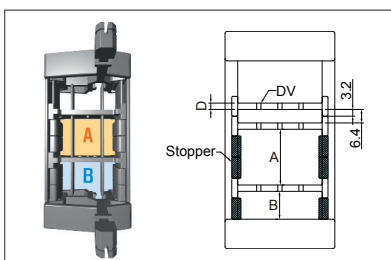
» Bracket type



Chain Type	Pitch	C
RV 040CR	40	50
		75
		100
		110
		125
		150
		175
		200

(Dimensions in mm)

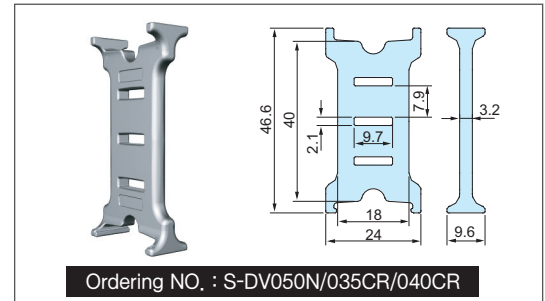
» Application method stopper



A = 6.4+10XStopper Q'ty
 B = 3.2+10XStopper Q'ty
 D = RV028CR : 3.3mm
 RV040CR : 3.2mm
 RV048CR : 3.5mm

» Dividers(DV)

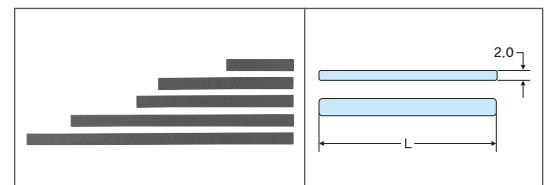
Divider is used when there are more than 2 cables are inserted, which protects twisting and beaking problem.



Ordering NO. : S-DV050N/035CR/040CR

(Dimensions in mm)

» Separators(SP)



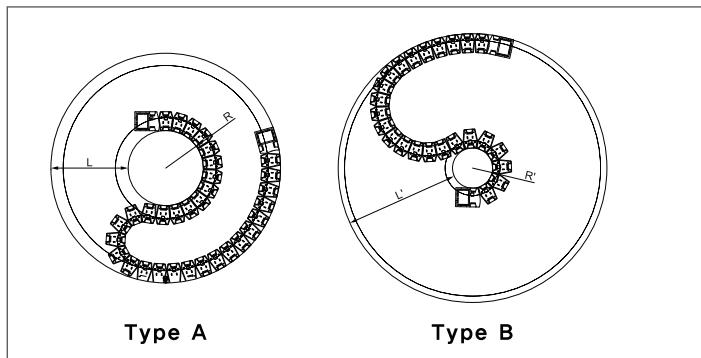
The inserted separators into dividers have the function to separate cables, and lessen the interference of cables, so as it is also used for efficient use of inner chamber space.

Ordering NO.	Length (L)
S-SP/M,50	50
S-SP/M,75	75
S-SP/M,100	100
S-SP/M,110	110
S-SP/M,125	125
S-SP/M,150	150
S-SP/M,175	175
S-SP/M,200	200

(Dimensions in mm)

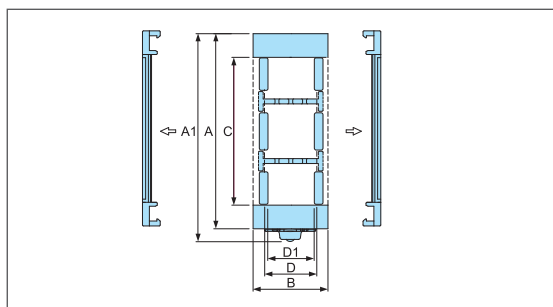
RV048CR

» Chain cross section



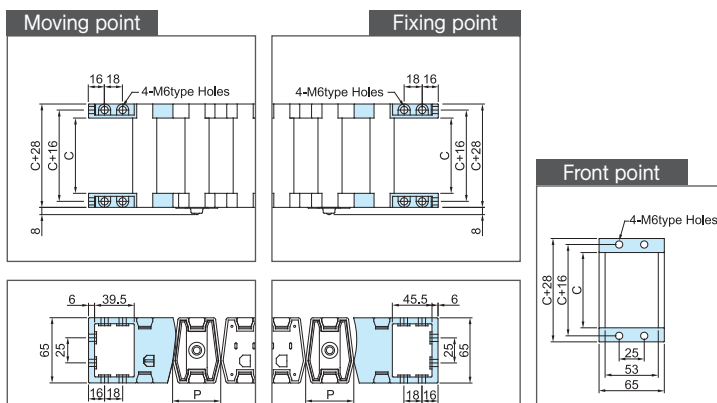
Type A	Minimum distance (L)	300
	Minimum reverse bending (R)	160
Type B	Minimum distance (L')	450
	Minimum reverse bending (R')	90

There are two installation choices, A or B corresponding with the bending radius of the side band. Choose A or B installation when there is insufficient distance between R, R' (Inner Bending Radius) and L, L' (Reverse)



Chain Type	A (A1)	B	C	D (D1)
RV 048CR	78(86)	65	50	53(50)
	103(111)		75	
	128(136)		100	
	153(161)		125	
	178(186)		150	
	203(211)		175	
	228(236)		200	

» Bracket type

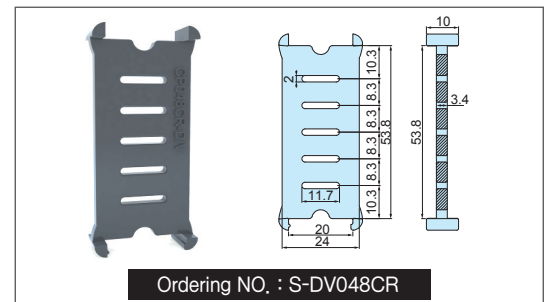


Chain Type	Pitch	C
RV 048CR	48	50
		75
		100
		125
		150
		175
200		

(Dimensions in mm)

» Dividers(DV)

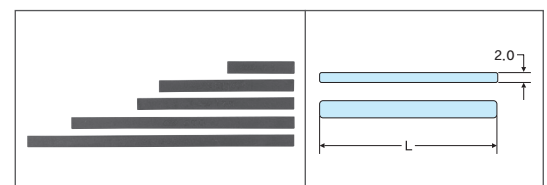
Divider is used when there are more than 2 cables are inserted, which protects twisting and beaking problem.



Ordering NO. : S-DV048CR

(Dimensions in mm)

» Separators(SP)

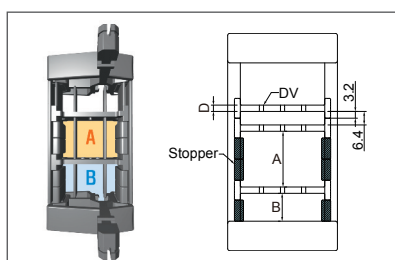


The inserted separators into dividers have the function to separate cables, and lessen the interference of cables, so as it is also used for efficient use of inner chamber space.

Ordering NO.	Length (L)
S-SP/M.50	50
S-SP/M.75	75
S-SP/M.100	100
S-SP/M.125	125
S-SP/M.150	150
S-SP/M.175	175
S-SP/M.200	200

(Dimensions in mm)

» Application method stopper

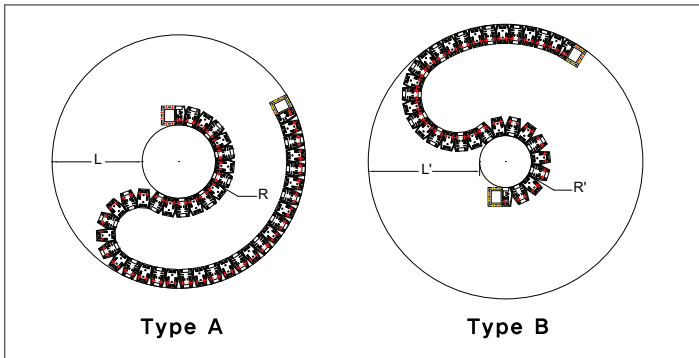


A = 6.4+10XStopper Q'ty
B = 3.2+10XStopper Q'ty

D = RV028CR : 3.3mm
RV040CR : 3.2mm
RV048CR : 3.5mm

RV060CR

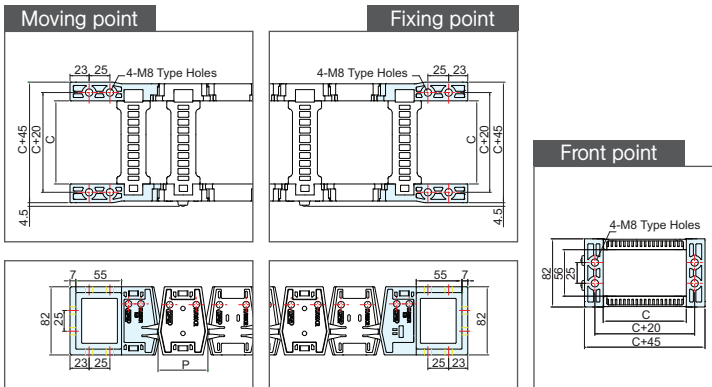
» Chain cross section



Type A	Minimum distance (L)	400
	Minimum reverse bending (R)	165
Type B	Minimum distance (L')	485
	Minimum reverse bending (R')	120

There are two installation choices, A or B corresponding with the bending radius of the side band. Choose A or B installation when there is insufficient distance between R, R' (Inner Bending Radius) and L, L' (Reverse)

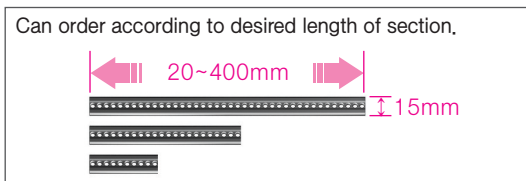
» Bracket type



Chain Type	Pitch	C
RV 060CR	60	75
		100
		125
		150
		175
		190
		200
		240
		250
		300
		350
		400

(Dimensions in mm)

» Separators(SP)



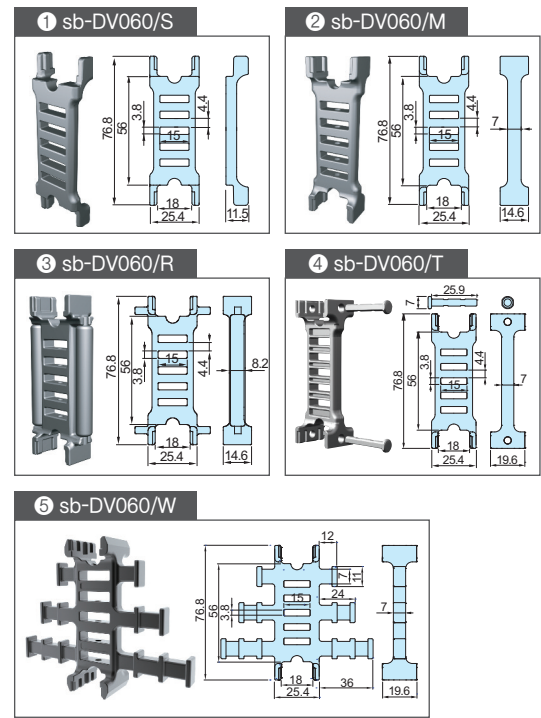
The inserted separators into dividers have the function to separate cables, and lessen the interference of cables, so as to prevent them tangle and disconnection, as well as make the efficient use of inner chamber space.

Ordering NO.	Length (L)
S-SP/M.75	75
S-SP/M.100	100
S-SP/M.125	125
S-SP/M.150	150
S-SP/M.175	175
S-SP/M.200	200
S-SP/M.250	250
S-SP/M.300	300
S-SP/M.350	350
S-SP/M.400	400

(Dimensions in mm)

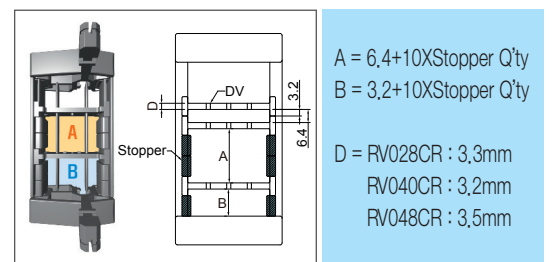
» Dividers(DV)

Installed vertically, these dividers separate the carrier's inner chamber and prevent cables from twisting or tangling during operation.



(Dimensions in mm)

» Application method stopper



Stoppers control divider position and lock the dividers into place during operation. They are fixed directly to the frames between the dividers at recommended width.

