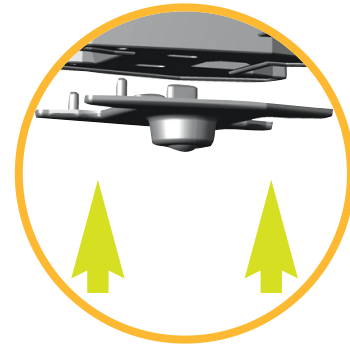
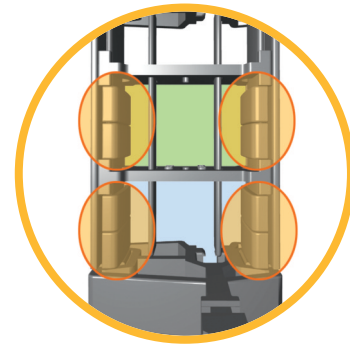
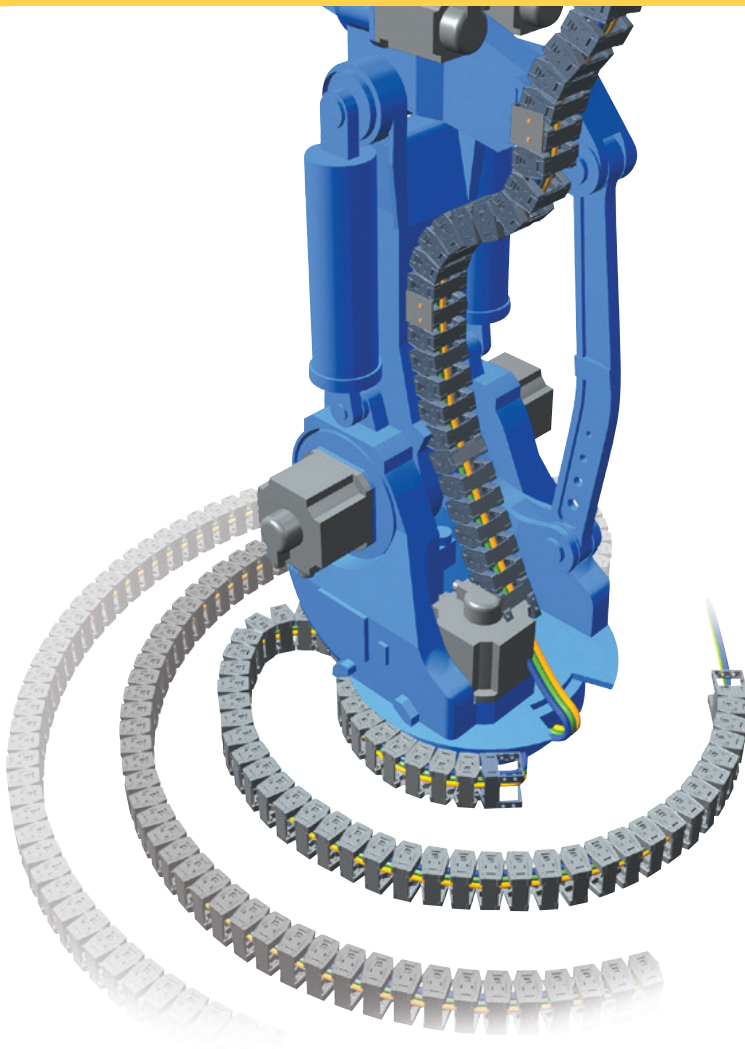




2014 GENERAL CATALOGUE  
**REVOLVING CHAIN**



## Free Banding Radius!

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

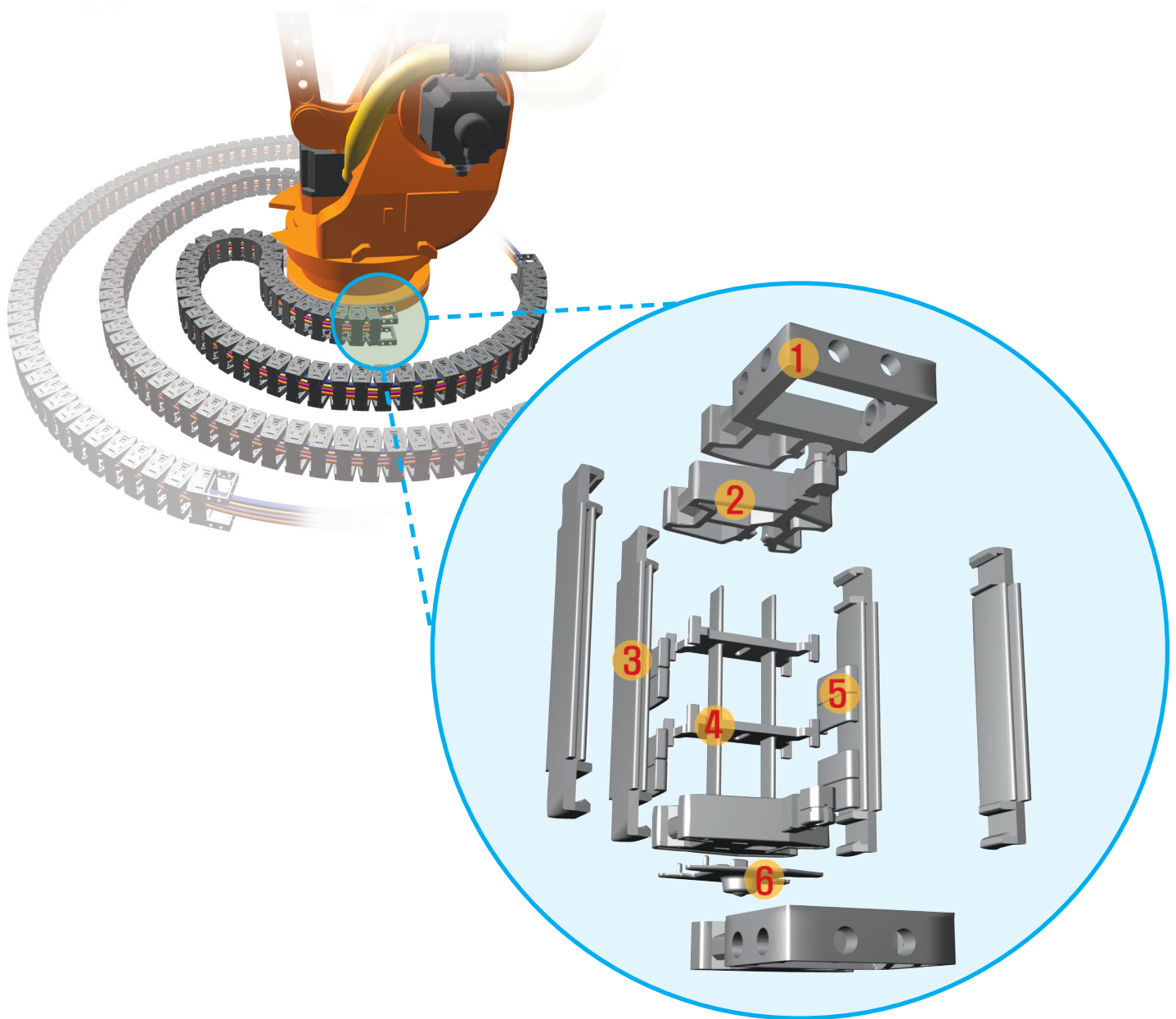
**B** Maximize the mobility of bending radius.

**C** Apply to the rotating Machine or Robot.

**D** Low dust and low noise realization.

**E** Improve the productivity by more secured cable protection system.

## PART NAME AND DESCRIPTION



Safer equipment management. Smoother, quieter overall operational movement. Easy installation... All qualities of the patented new **Revolving Chain** from CPS.

Revolving Chain blends the latest technological efforts with customer requests for larger, smoother and quieter ranges of movement. Revolving Chain's abilities stretch even further, made possible by the patented free-bending radius. So whether or not your operating equipment is moving a full range of more than 360 degrees continuously, or if it is moving different ranges in different shorter movements, Revolving Chain protects your cables while quietly allowing the equipment to move freely throughout the full range of motion. Lastly, equipped with the patented free-end bracket, it can be easily, quickly and safely installed limiting your operational downtime.



## 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. This is made possible by eliminating all points of friction.

## 3 Frame

Connects the sidebands crosswise and provides stability and strength to the cable chain. CPS frames are smoothed out to ensure maximum protection for your cables.

## 4 Divider & Separator

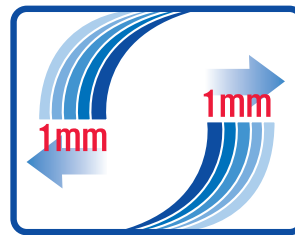
Used to separate the cables inside of the cable chain and protect them from twisting, shearing, and breaking. Available for use with CR-Type, N-Type, E-Type and S-Type.

## 5 Stopper

Used only on Sabin Chain Clean Room applications, stoppers control the divider position and lock the inserted cable grid in place during operation. Stoppers can be applied directly to the frame according to their width.

## 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 also help to stabilize the cable chain for best results during operation.

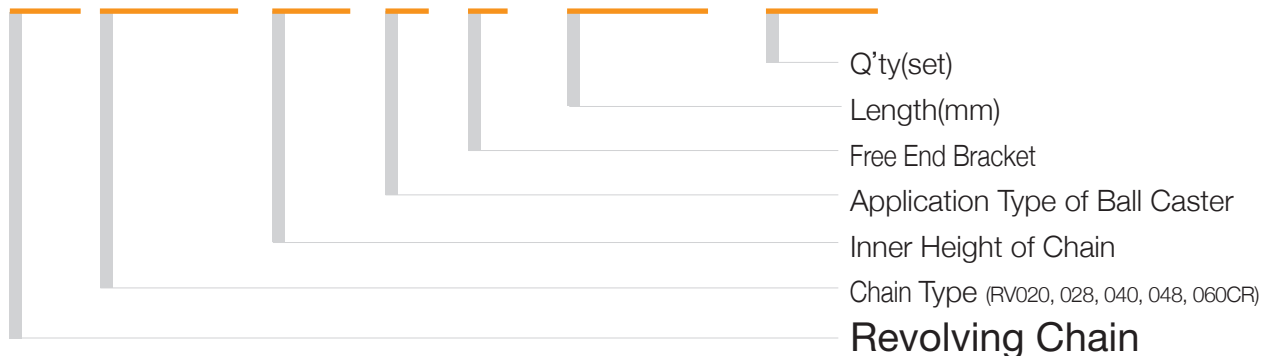


**Adjustable Bending Radius per 1mm!**

Revolving Chain adjusts to the machine or application movement by creating various bending radius automatically as the application moves through its full range of motion.

### ORDERING

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





## RV 020CR

### 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)
RV020CR.16	30	28	16	22
RV020CR.27	41		27	
RV020CR.37	51		37	
RV020CR.47	61		47	
RV020CR.67	81		67	
RV020CR.77	91		77	

### BRACKET DIMENSIONS

▲ Fixing point      ▲ Moving point      ▲ Front point

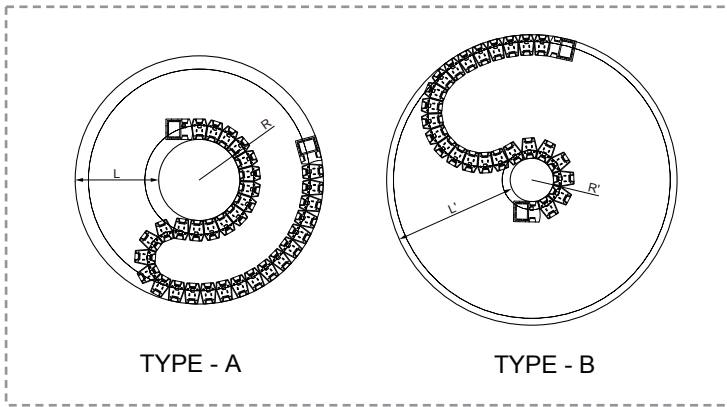
Chain Type	Pitch	C
RV020CR.16	20	16
RV020CR.27	20	27
RV020CR.37	20	37
RV020CR.47	20	47
RV020CR.67	20	67
RV020CR.77	20	77

RV020CR do not apply Ball Caster, Divider and Stoper.



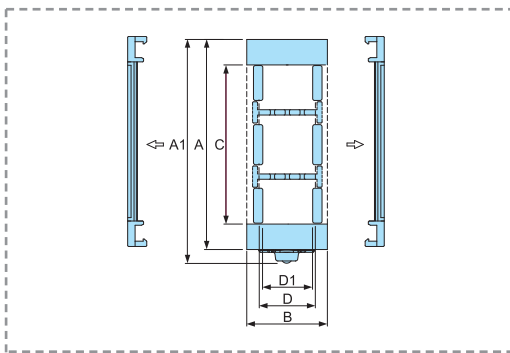
## RV 028CR

### CHAIN CROSS SECTION



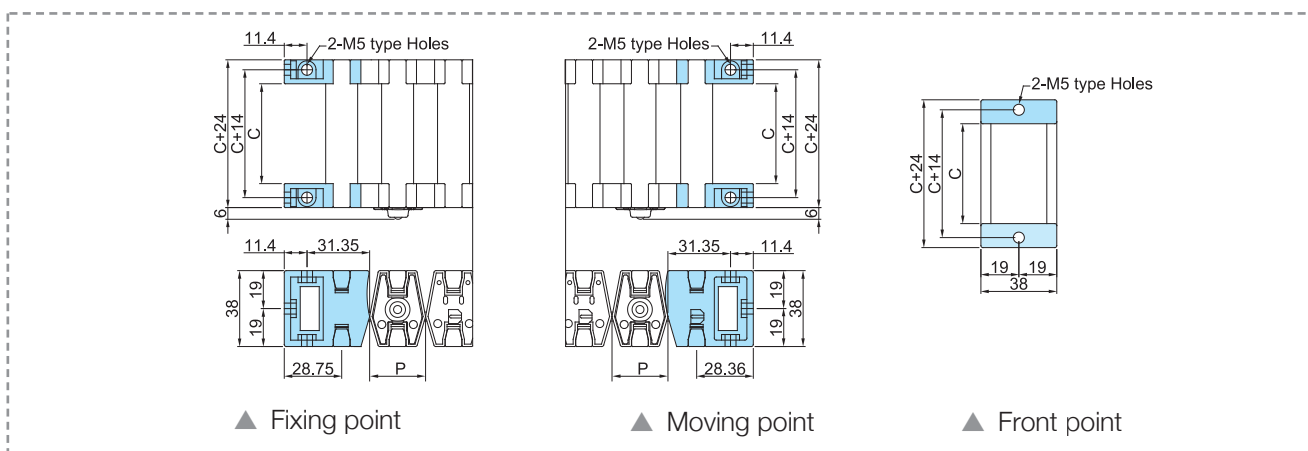
Type A	Minimum distance (L)	170
	Minimum reverse bending (R)	70
Type B	Minimum distance (L)	200
	Minimum reverse bending (R)	50

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)
RV028CR.035	59(65)		35	
RV028CR.055	79(85)		55	
RV028CR.075	99(105)	38	75	28(25)
RV028CR.100	124(130)		100	
RV028CR.125	149(155)		125	

### BRACKET DIMENSIONS

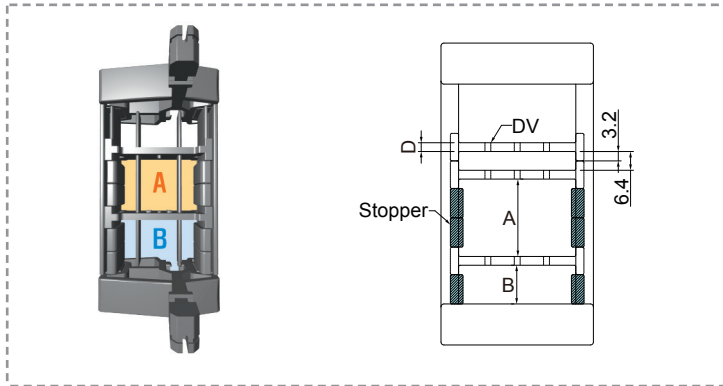


Chain Type	Pitch	C
RV028CR.035	28	35
RV028CR.055	28	55
RV028CR.075	28	75
RV028CR.100	28	100
RV028CR.125	28	125



## RV 028CR

### APPLICATION METHOD STOPPER



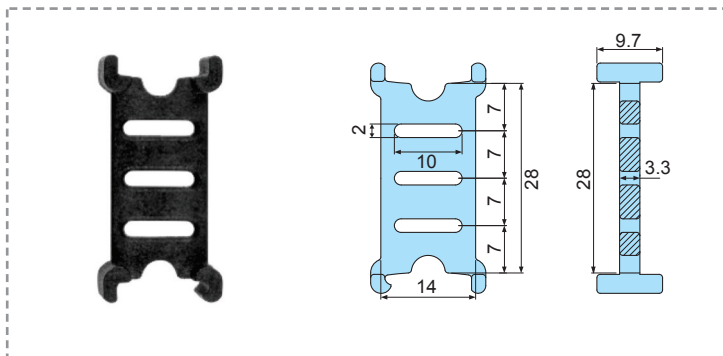
$$A = 6.4 + 10 \times \text{Stopper Q'ty}$$

$$B = 3.2 + 10 \times \text{Stopper Q'ty}$$

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

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.

### DIVIDERS (DV)



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

### 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.

Type	Length (L) / mm
S-SP/M.035	35
S-SP/M.055	55
S-SP/M.075	75
S-SP/M.100	100
S-SP/M.125	125



## RV 040CR

### 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)
RV040CR.050	78 (86)	52	50	40 (37)
RV040CR.075	103 (111)		75	
RV040CR.100	128 (136)		100	
RV040CR.110	138 (146)		110	
RV040CR.125	153 (161)		125	
RV040CR.150	178 (186)		150	
RV040CR.175	203 (211)		175	
RV040CR.200	228 (236)		200	

### BRACKET DIMENSIONS

▲ Fixing point

▲ Moving point

▲ Front point

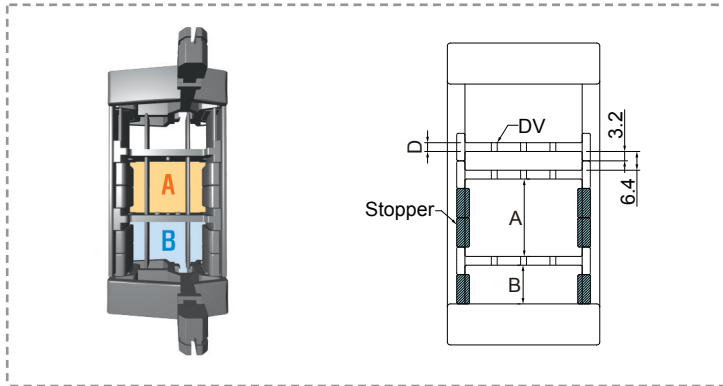
Chain Type	Pitch	C
RV040CR.050	40	50
RV040CR.075	40	75
RV040CR.100	40	100
RV040CR.110	40	110
RV040CR.125	40	125
RV040CR.150	40	150
RV040CR.175	40	175
RV040CR.200	40	200





## RV 040CR

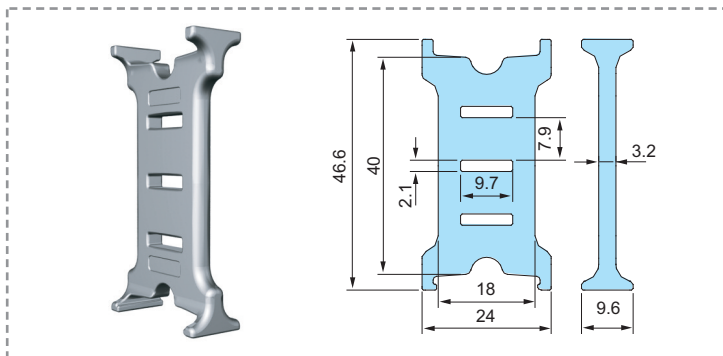
### APPLICATION METHOD STOPPER



$A = 6.4 + 10 \times \text{Stopper Q' ty}$   
 $B = 3.2 + 10 \times \text{Stopper Q' ty}$   
 $D = \text{RV028CR}: 3.3\text{mm}$   
 $\text{RV040CR}: 3.2\text{mm}$   
 $\text{RV048CR}: 3.5\text{mm}$

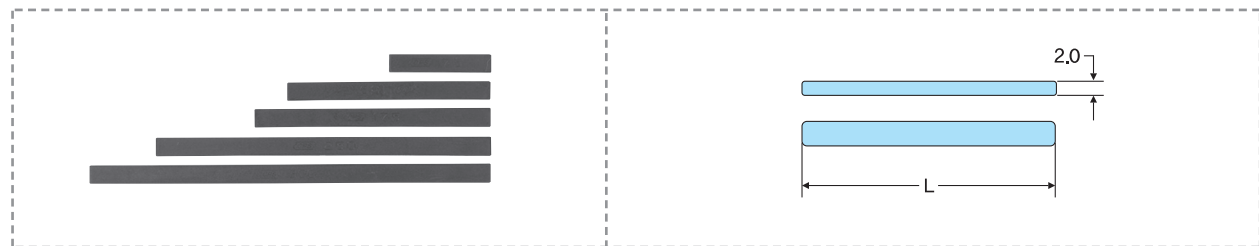
Stoppers control divider position and lock the dividers into place during operation. They are fixed directly to the frames between the dividers at recommended width.

### DIVIDERS (DV)



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

### 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.

Type	Length (L) / mm
S-SP/M.050	50
S-SP/M.075	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

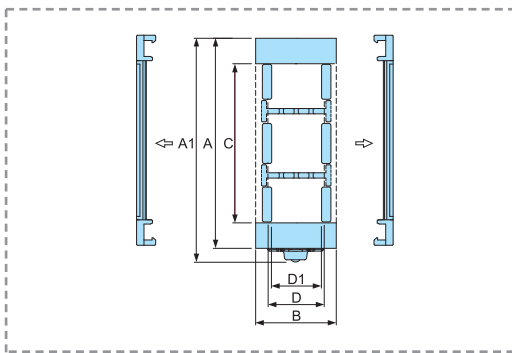


# RV 048CR

## CHAIN CROSS SECTION

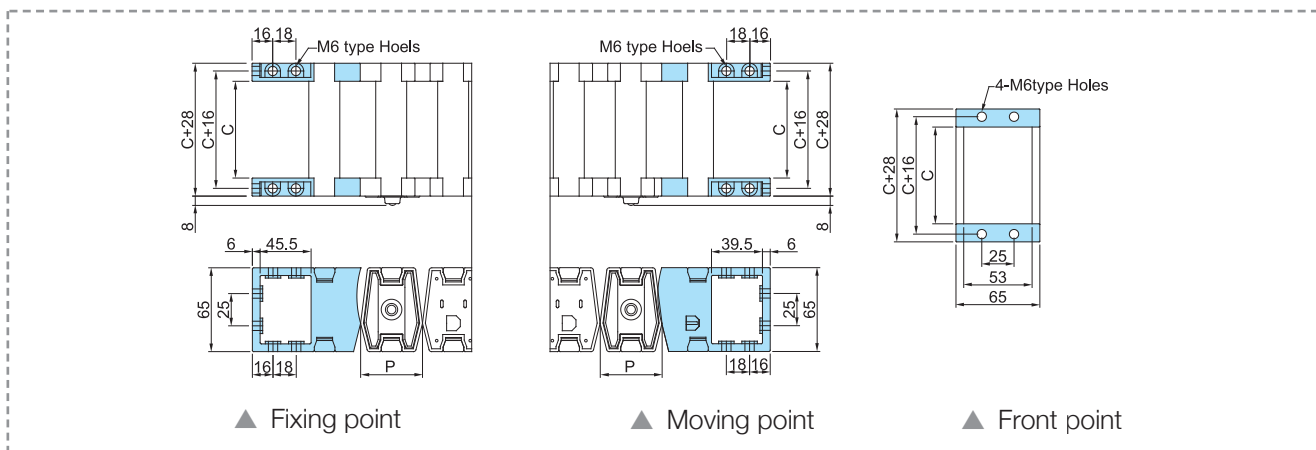
Type A	Minimum distance (L)	300
	Minimum reverse bending (R)	160
Type B	Minimum distance (L)	450
	Minimum reverse bending (R)	90

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)
RV048CR.050	78(86)		50	
RV048CR.075	103(111)		75	
RV048CR.100	128(136)		100	
RV048CR.125	153(161)	65	125	53( 50 )
RV048CR.150	178(186)		150	
RV048CR.175	203(211)		175	
RV048CR.200	228(236)		200	

## BRACKET DIMENSIONS

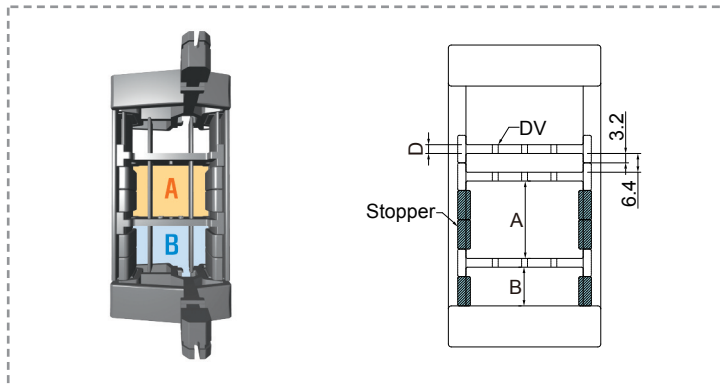


Chain Type	Pitch	C
RV048CR.050	48	50
RV048CR.075	48	75
RV048CR.100	48	100
RV048CR.125	48	125
RV048CR.150	48	150
RV048CR.175	48	175
RV048CR.200	48	200



## RV 048CR

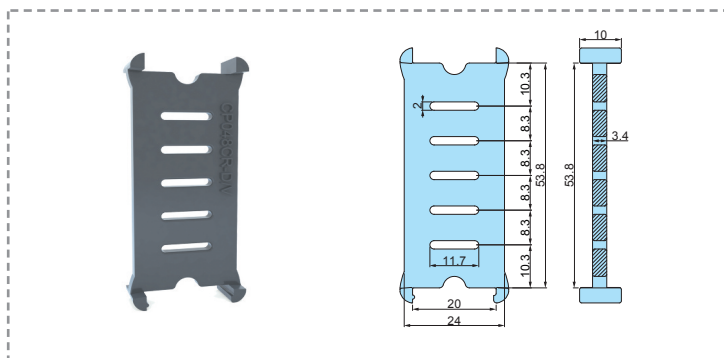
### APPLICATION METHOD STOPPER



$A = 6.4 + 10 \times \text{Stopper Q' ty}$   
 $B = 3.2 + 10 \times \text{Stopper Q' ty}$   
 $D = \text{RV028CR: } 3.3\text{mm}$   
 $\text{RV040CR: } 3.2\text{mm}$   
 $\text{RV048CR: } 3.5\text{mm}$

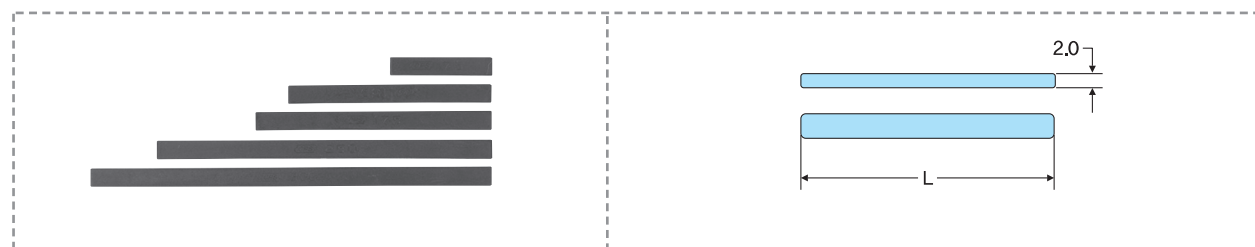
Stoppers control divider position and lock the dividers into place during operation. They are fixed directly to the frames between the dividers at recommended width.

### DIVIDERS (DV)



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

### SEPARATORS (SP)



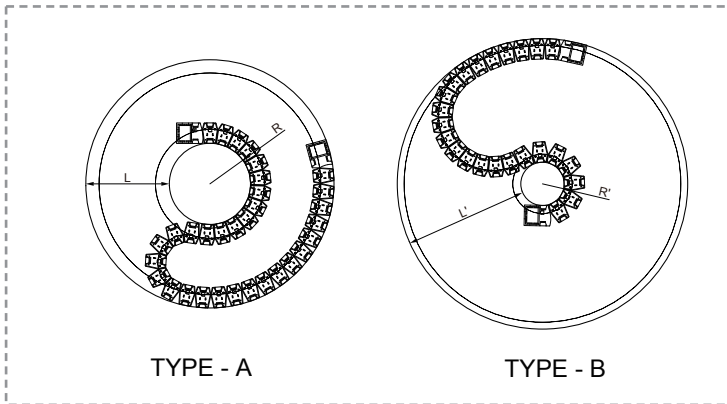
The inserted separators into dividers have the function to separate cables, and lessen the interference of cables, so as to prevent them tangle and disconnection, as well as make the efficient use of inner chamber space.

Type	Length (L) / mm
S-SP/M.050	50
S-SP/M.075	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



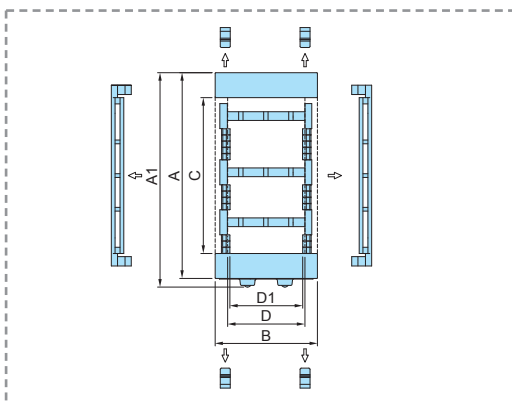
# RV 060CR

## CHAIN CROSS SECTION



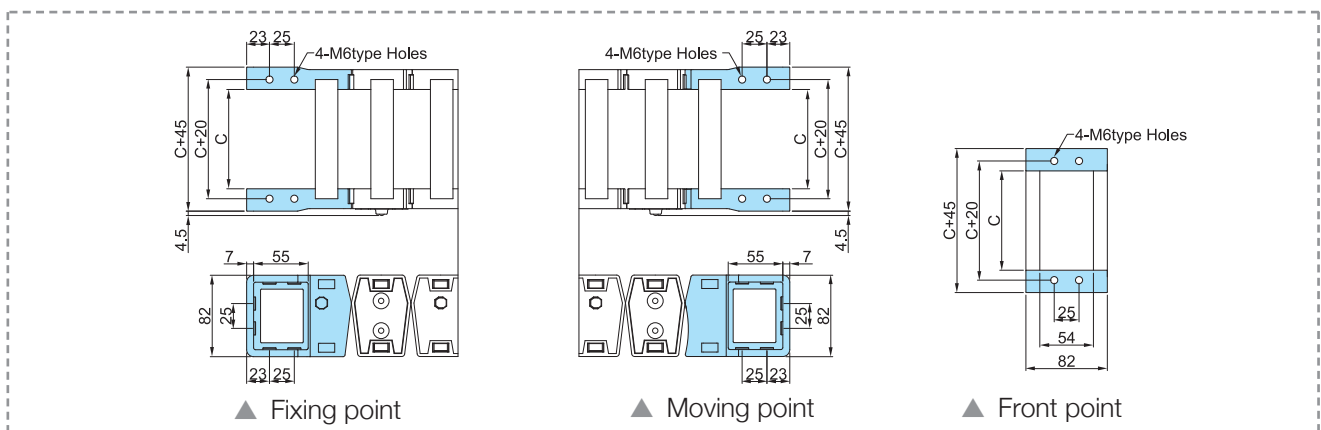
Type A	Minimum distance (L)	390
	Minimum reverse bending (R)	200
Type B	Minimum distance (L)	560
	Minimum reverse bending (R)	120

There are two types for an installation as A or B due to Bending radius of side band. You need to choose A or B way of installation when the distance is not enough between R, R' (Inner Bending Radius) and L, L' (Reverse Bending Radius).



Chain Type	A(A1)	B	C	D(D1)
RV060CR.050	90(97)		50	
RV060CR.075	115(122)		75	
RV060CR.100	140(147)		100	
RV060CR.125	165(172)		125	
RV060CR.150	190(197)	82	150	62(58.4)
RV060CR.175	215(222)		175	
RV060CR.200	240(247)		200	
RV060CR.250	290(297)		250	
RV060CR.300	340(347)		300	

## BRACKET DIMENSIONS



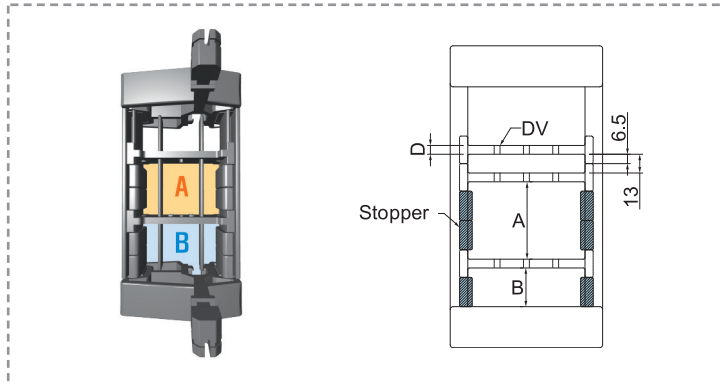
Chain Type	Pitch	C
RV060CR.050	60	50
RV060CR.075	60	75
RV060CR.100	60	100
RV060CR.125	60	125
RV060CR.150	60	150
RV060CR.175	60	175
RV060CR.200	60	200
RV060CR.250	60	250
RV060CR.300	60	300

CPS Plans to develop RV 060CR



## RV 060CR

### APPLICATION METHOD STOPPER

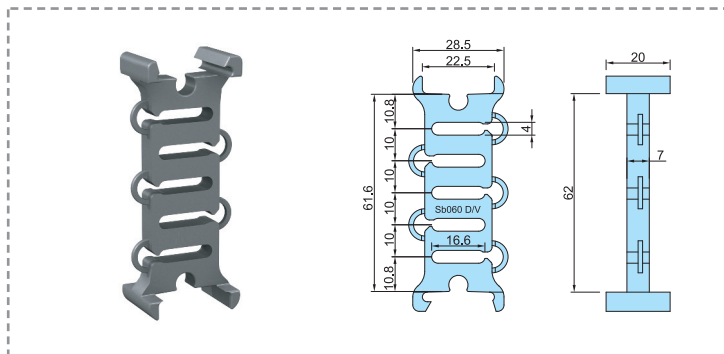


A= 13+5 X Stopper Q' ty  
 B= 6.5+5 X Stopper Q' ty

D= RV060CR: 7.0mm

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.

### DIVIDERS (DV)



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

### SEPARATORS (SP)



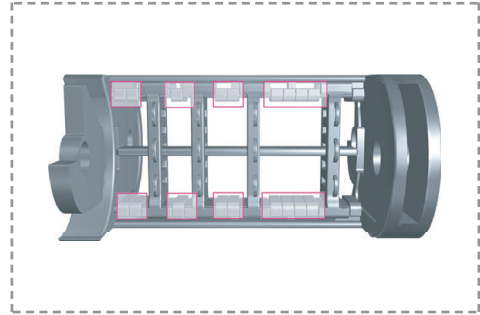
The inserted separators into dividers have the function to separate cables, and lessen the interference of cables, so as to prevent them tangle and disconnection, as well as make the efficient use of inner chamber space.

Type	Length (L) / mm
S-SP/M.050	50
S-SP/M.075	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



## STOPER SYSTEM

Stoper fix the location of divider which is settled in side of cable chain and control the position of divider by 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.



 <p><b>ST-M1.10</b></p>	 <p>ST-M1.10: CPS 036N ST-M2.10: CPS 050N (L: 5, 10, 15, 20)</p>	 <p><b>ST-M2.10</b></p>
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 <p><b>ST-S1.05</b></p>	 <p>ST-S1.05: CPS 068, 077 ST-S2.05: CPS 095, 120 (L: 5, 10, 15, 20)</p>	 <p><b>ST-S2.05</b></p>
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## APPLICATION IMAGE

CPS CABLE CHAIN

SHIFT CHAIN

SABIN CHAIN

REVOLVING CHAIN

HELIX CHAIN

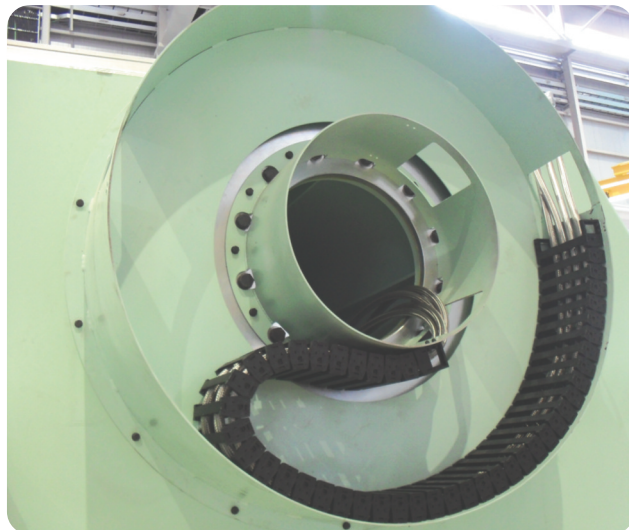
ROBO-KIT

CPSTEX

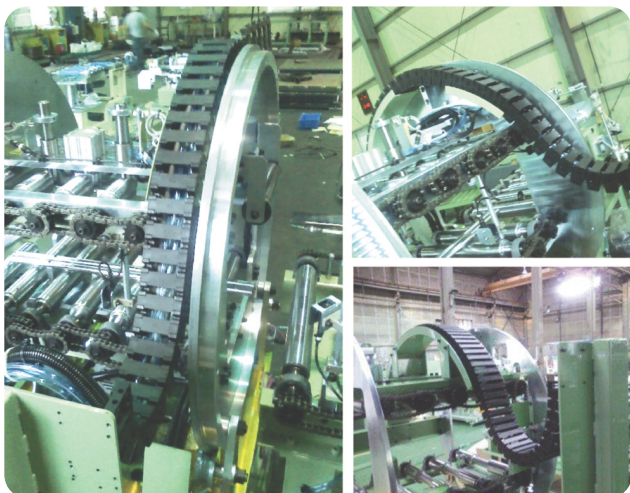
CPSTX



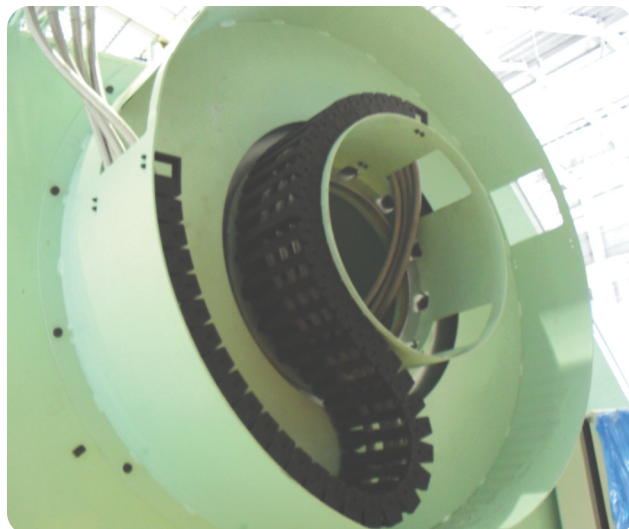
Automotive coating robot



Wind power generation assembly equipment



Cylinder material feed equipment



Wind power generation assembly equipment



Automotive coating robot



Revolving chain Test