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2007.10

CABLE PROTECTION SYSTEMS

# Revolving chain®

CPS

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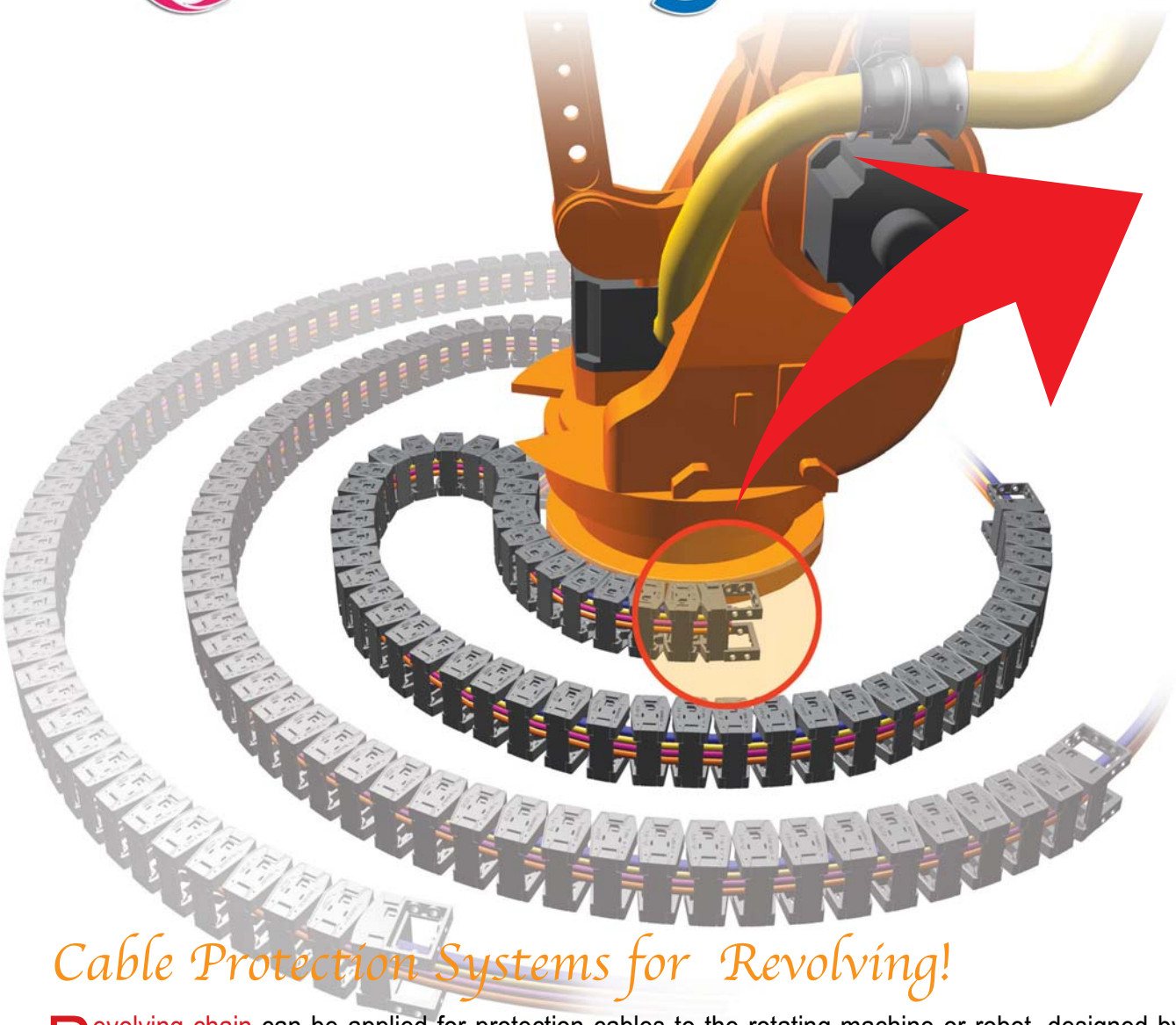


## Cable Protection Systems for Revolving!

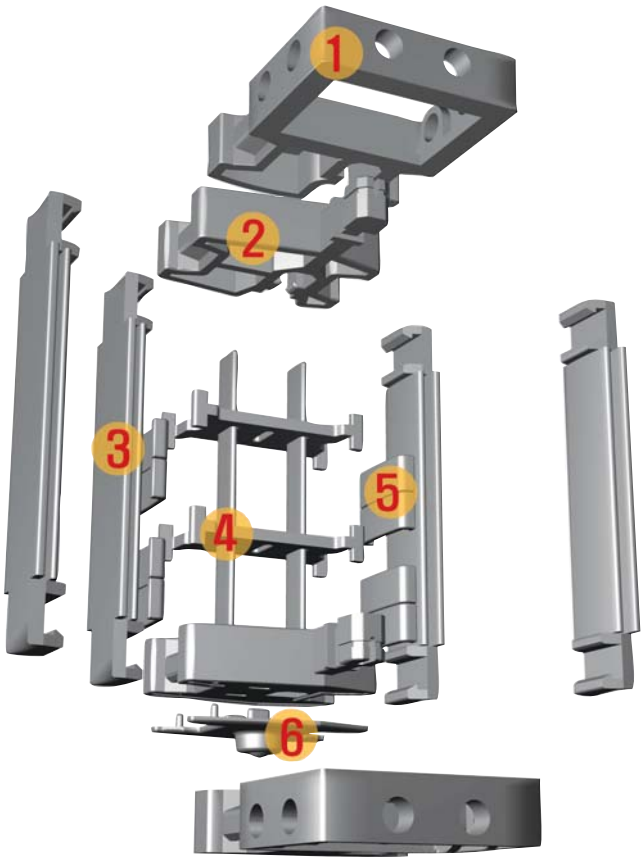
Revolving chain can be applied for protection cables to the rotating machine or robot, designed by not bothering the motion and directivity of cable, and protect the cables safely from outer dangerous factors.

FREE BENDING RADIUS PROCESS can control the bending radius and reverse bending radius of cable chain automatically and this new concept cable chain, maximize the mobility of bending radius, is developed by CP SYSTEM's own advanced technique and also already have the patent for this technique.

And this is next generation cable chain which minimize the dust and noise by the unique band connection method, can be applied to the working place which request the regulation of dust and noise.

This Revolving chain can protect the cables more safely and improve the productivity very much.

## Part name and Description

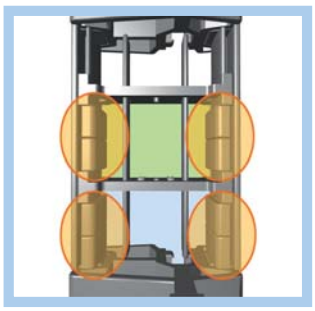



### 1 Easy Bracket
The edge part of fixing cable chian, increased the convinience and efficiency by the front, right and left fixing cable chain method.

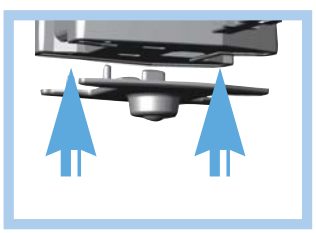
### 2 Side Band
Our own technical development part, this side band can be connected whatever you want and the bending connection method can reduce the dust and noise.

### 3 Frame
The function of frame is connecting and upholding the side bands, and prevent the friction with cable by the smoothing the inside of frame.

### 4 Divider & Separator
These items can separate the inserted cables and use the inner space of cable chain more efficiently and prevent the damage of skin and break down after friction between cables.

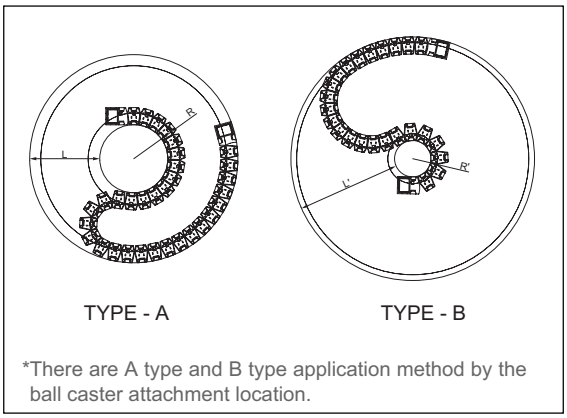


### 5 Stoper
This item control the position of divider and fixing the location, it can be applied to the frame accordingly by the width.



### 6 Ball Caster
It is attached at the bottom of side band, help the movement of cable chain smoothly and make it possible of stable motion of chain to its requested direction by friction with ball instead of direct friction with side band.
This ball caster should be applied at the first link after end bracket and every 8 links(the minimum).

## Chain cross section

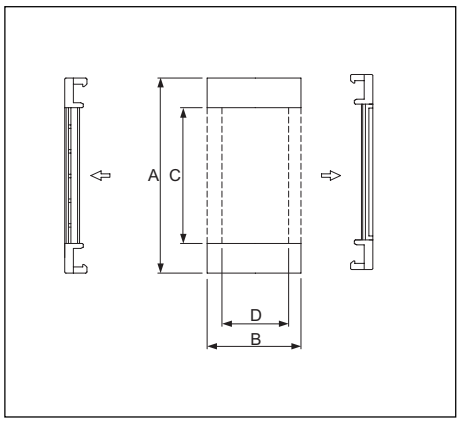



*There are A type and B type application method by the ball caster attachment location.

*RV020CR will be launching on December.

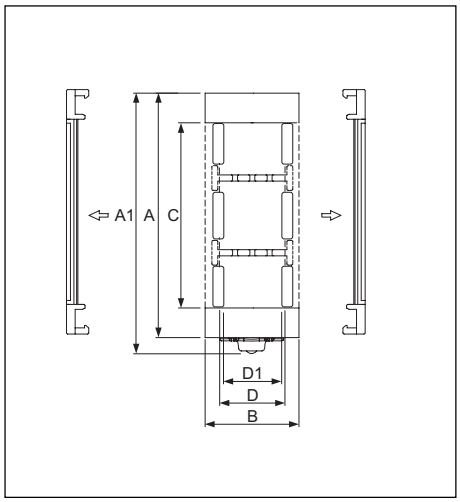
| Chain Type | A | B | C | D |
|---|---|---|---|---|
| RV020CR.16 | 30 | 28 | 16 | 22 |
| RV020CR.27 | 41 | | 27 | |
| RV020CR.37 | 51 | | 37 | |
| RV020CR.47 | 61 | | 47 | |
| RV020CR.67 | 81 | | 67 | |
| RV020CR.77 | 91 | | 77 | |
| Type A: minimum distance(L): | 130 | Minimum reverse bending (R): | 40 | |
| Type B: minimum distance(L'): | 150 | Minimum reverse bending (R'): | 30 | |

## RV020CR




| Chain Type | A(A1) | B | C | D(D1) |
|---|---|---|---|---|
| RV028CR.035 | 59 ( 65 ) | 38 | 35 | 28(25) |
| RV028CR.055 | 79 ( 85 ) | | 55 | |
| RV028CR.075 | 99 (105) | | 75 | |
| RV028CR.100 | 124 (130) | | 100 | |
| RV028CR.125 | 149 (155) | | 125 | |
| Type A: minimum distance(L): | 170 | Minimum reverse bending (R): | 120 | |
| Type B: minimum distance(L'): | 200 | Minimum reverse bending (R'): | 50 | |

## RV028, 040, 048CR



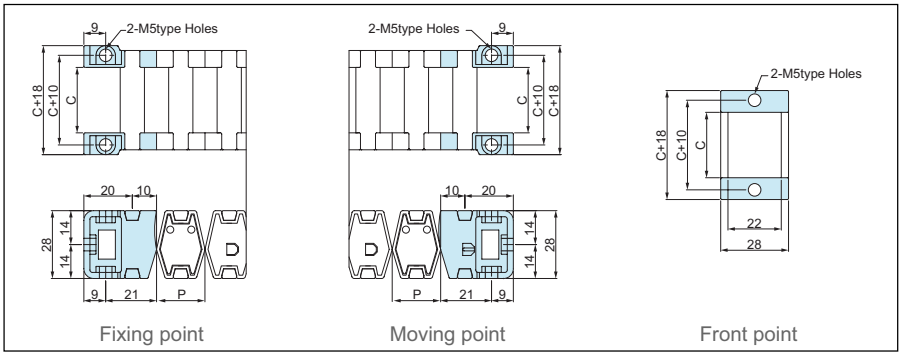

| Chain Type | A(A1) | B | C | D(D1) |
|---|---|---|---|---|
| RV040CR.050 | 78 (86) | 52 | 50 | 40(37) |
| RV040CR.075 | 103 (111) | | 75 | |
| RV040CR.100 | 128 (136) | | 100 | |
| RV040CR.125 | 153 (161) | | 125 | |
| RV040CR.150 | 178 (186) | | 150 | |
| RV040CR.175 | 203 (211) | | 175 | |
| RV040CR.200 | 228 (236) | | 200 | |
| Type A: minimum distance(L): | 230 | Minimum reverse bending (R): | 120 | |
| Type B: minimum distance(L'): | 630 | Minimum reverse bending (R'): | 70 | |

*RV048CR will be launching on December.

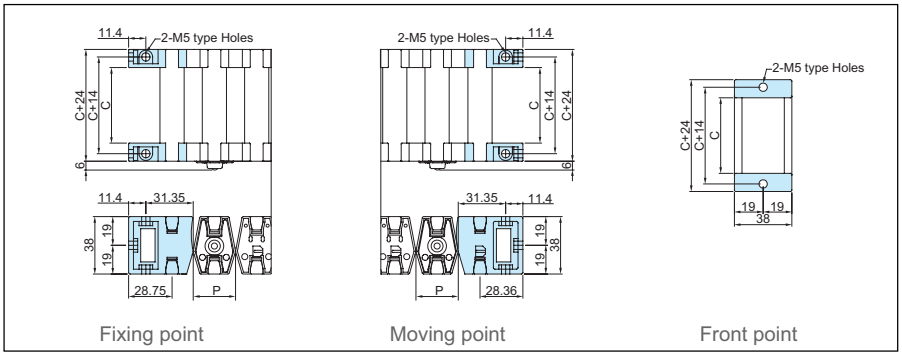
| Chain Type | A(A1) | B | C | D(D1) |
|---|---|---|---|---|
| RV048CR.050 | 78 (86) | 65 | 50 | 53(50) |
| RV048CR.075 | 103 (111) | | 75 | |
| RV048CR.100 | 128 (136) | | 100 | |
| RV048CR.125 | 153 (161) | | 125 | |
| RV048CR.150 | 178 (186) | | 150 | |
| RV048CR.175 | 203 (211) | | 175 | |
| RV048CR.200 | 228 (236) | | 200 | |
| Type A: minimum distance(L): | 300 | Minimum reverse bending (R): | 150 | |
| Type B: minimum distance(L'): | 450 | Minimum reverse bending (R'): | 90 | |

## Bracket Dimensions

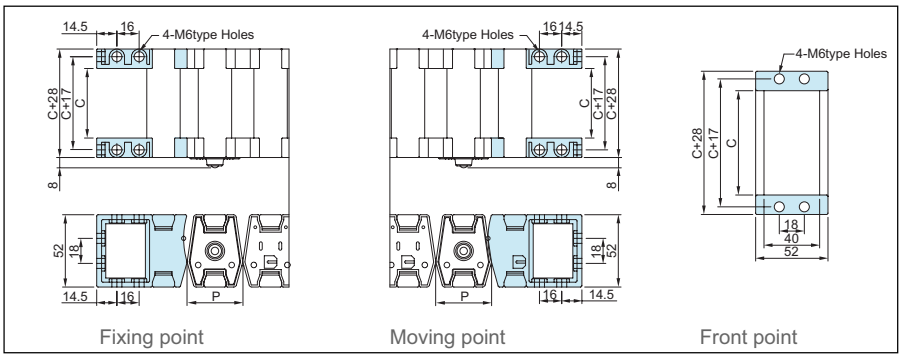
| Chain Type | Pich | C |
|---|---|---|
| RV020CR.16 | 20 | 16 |
| RV020CR.27 | 20 | 27 |
| RV020CR.37 | 20 | 37 |
| RV020CR.47 | 20 | 47 |
| RV020CR.67 | 20 | 67 |
| RV020CR.77 | 20 | 77 |



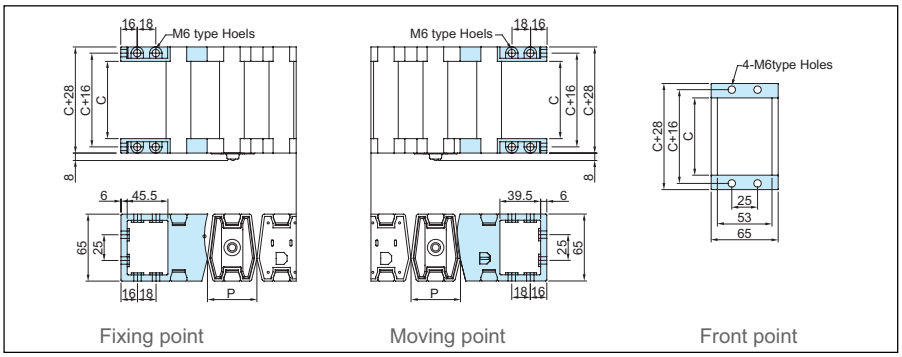

| Chain Type | Pich | C |
|---|---|---|
| RV028CR.035 | 28 | 35 |
| RV028CR.055 | 28 | 55 |
| RV028CR.075 | 28 | 75 |
| RV028CR.100 | 28 | 100 |
| RV028CR.125 | 28 | 125 |



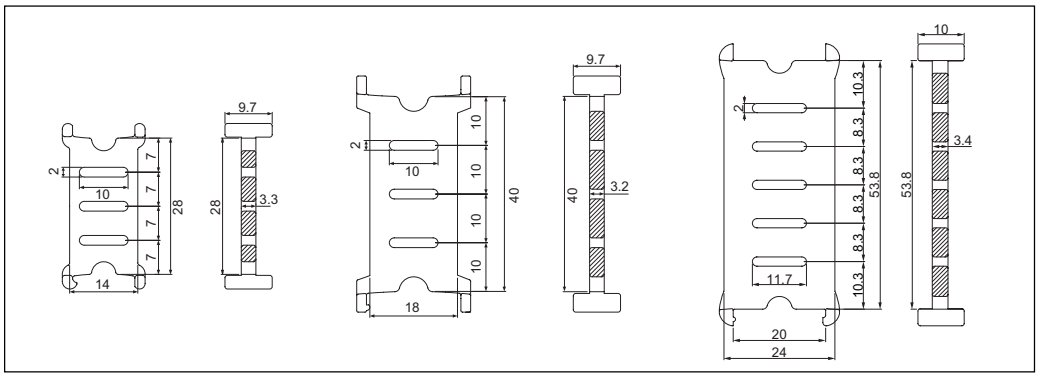

| Chain Type | Pich | C |
|---|---|---|
| RV040CR.050 | 40 | 50 |
| RV040CR.075 | 40 | 75 |
| RV040CR.100 | 40 | 100 |
| RV040CR.125 | 40 | 125 |
| RV040CR.150 | 40 | 150 |
| RV040CR.175 | 40 | 175 |
| RV040CR.200 | 40 | 200 |




| Chain Type | Pich | 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 |



## Divider Dimensions




RV028CR RV040CR RV048CR

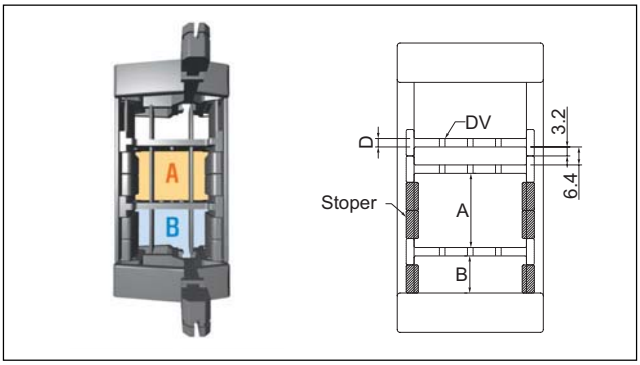
* RV020CR do not use divider.

## Application method Stoper

Stoper can control the position and fixing the divider which settle inside of cable c hain and it can be applied to the frame accordingly by the width.

A=6.4+10×Stoper Q'ty
B=3.2+10×Stoper Q'ty

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




## RV Chain Ordering

**RV 040CR. 075. A / B0 – 1000L : 10ST**

- Purchasing Q'ty
- Length of chain
- End bracket type (Easy Bracket Type)
- Application type of ball caster(A or B)
- Inner height of chain
- Chain series(RV020, 028, 040, 048CR)
- Revolving chain