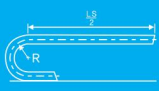
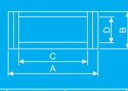








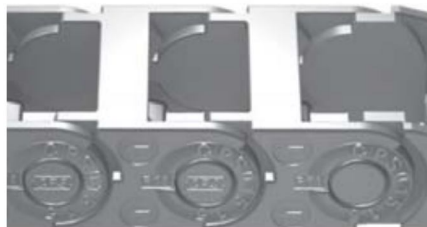


p22 ~ 39

Using Material of High Quality!

▶ CPS CABLECHAIN MINI Type와 다른대체사양안내는 p315 에 게재 되어 있습니다.

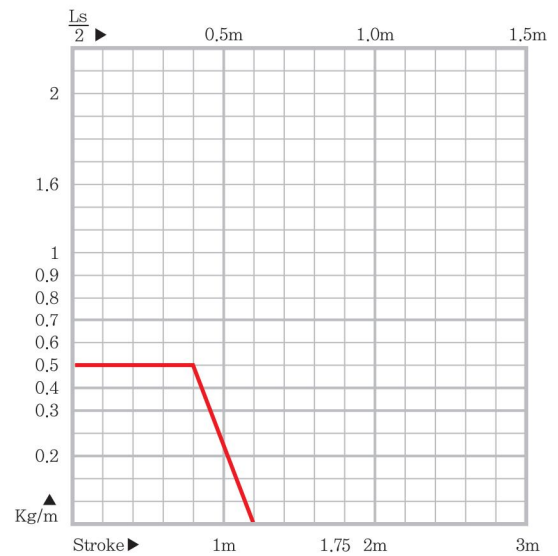
CPS Cable Chain MINI-Type	Pitch	Bending Radius R 	Weight kg/m	Speed m/sec	Temperature °C	Clearance 				Frame style	Divider possible with frame
						A	B	C	D		
CPS015.06	15	18, 28, 38	0.100	10	-30 ~ +130	12.6	13	6	10		
CPS015.10	15		0.106			16.6	13	10	10		
CPS015.15	15		0.111			21.6	13	15	10		
CPS015.20	15		0.115			26.6	13	20	10		
CPS020.15	20	28, 38, 48	0.24	10	-30 ~ +130	24	20	15	14.5		
CPS020.20	20		0.26			29	20	20	14.5		
CPS020.30	20		0.28			39	20	30	14.5		
CPS020.40	20		0.31			49	20	40	14.5		
CPS030.15	30	38, 48, 75, 100	0.38	10	-30 ~ +130	29	26	15	19		
CPS030.25	30		0.40			39	26	25	19		
CPS030.35	30		0.42			49	26	35	19		
CPS030.50	30		0.44			64	26	50	19		
CPS033.27	33	35, 45, 75, 100, 120	0.55	10	-30 ~ +130	45	31	27	23		
CPS033.37	33		0.59			55	31	37	23		
CPS033.47	33		0.61			65	31	47	23		
CPS033.67	33		0.68			85	31	67	23		
CPS033.77	33		0.70			95	31	77	23		



CPS 015 MINI Type

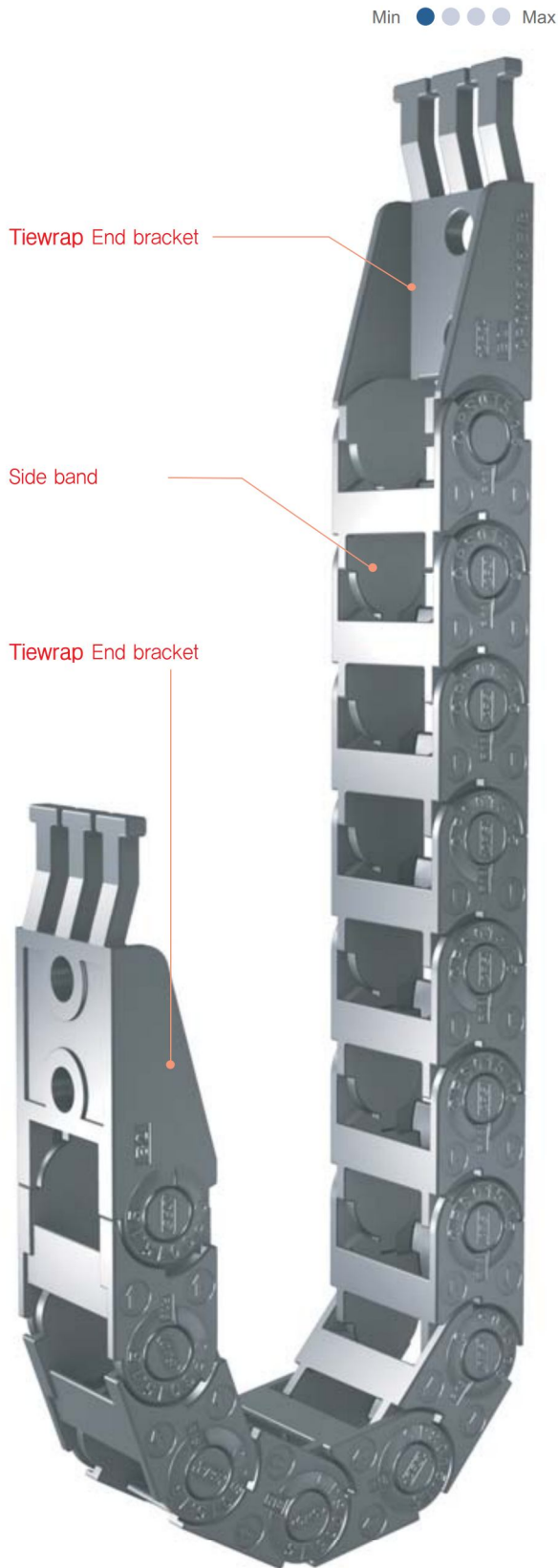
MATERIAL

- **Chain material :**
CPS-polyamide with glass fiber reinforced, UL94-HB
- **Low Noise :** 40 dB (DIN EN 61672-1)
- **Speed :** 10m / sec
- **Temperature :** -30°C ~ +130°C
- **Other installation Length**
Vertical curve above= max 0.8m
Vertical curve below= max 3.0m
Side Mounted, Unsupported= max 0.2m
- **Applications :** Printing Machine, Feeder unit
Count machine.
- **Load diagrams**
self-supporting length :



- **Calculation of the chain length**

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



MINI Type **CPS 015**

SHIFT CHAIN

SAEN CHAIN

REVOLVING CHAIN

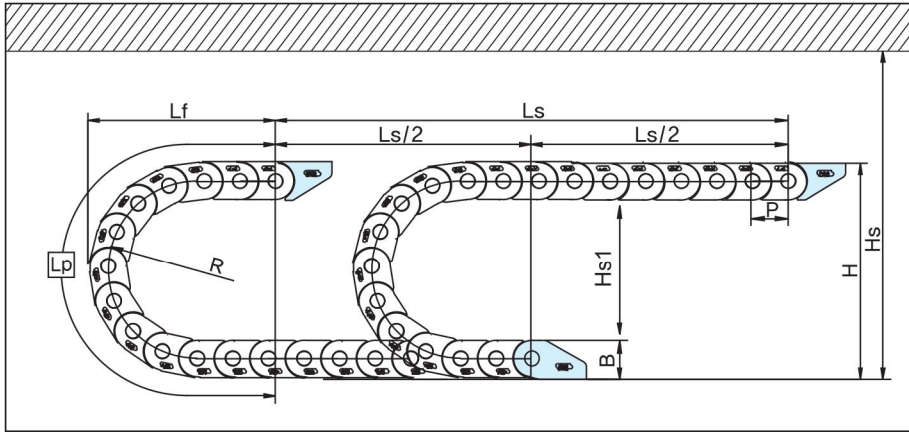
HELIX CHAIN

ROBO-KIT

OP-STEELX

OP-SFK

LAYOUT OF THE CHAIN



(Dimensions in mm)

Bending radius R	18	28	38
Lp	117	148	180
L f	55	65	75
H	49	69	89

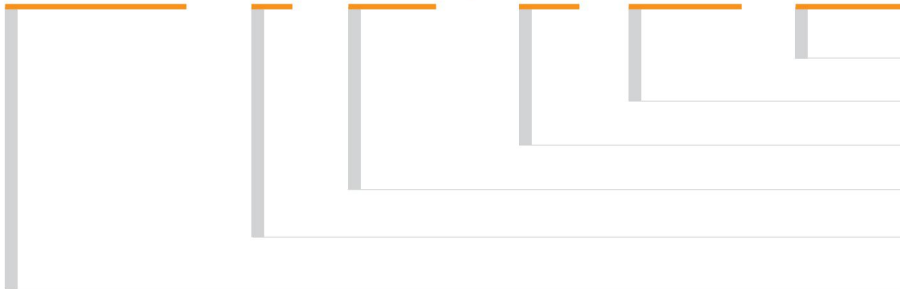
- Ls:** Stroke
- Lp:** Loop Length
- L f:** Loop Projection
- Hs:** Safe Space

CPS 015 Type

- Pitch P:** 15mm
- Height B:** 13mm
- Height H:** 2R+Bmm
- Hs ≤ H+10mm**
- Hs1 ≤ -10mm**

ORDERING (주문방법)

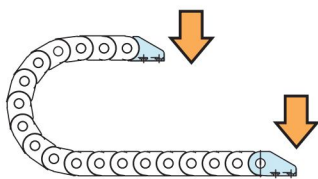
CPS 015 . 10. R28 / B₂ - 550L : 10ST



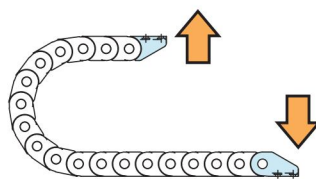
- 주문수량 Q' ty(set)
- 체인길이 Length(mm)
- 브라켓타입 Bracket Type (B1, B2, B3)
- 곡률반경 Bending Radius
- 내폭 Inside Width

CPS CABLE Chain

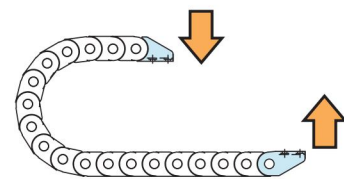
BRACKET TYPE (브라켓타입)



B1



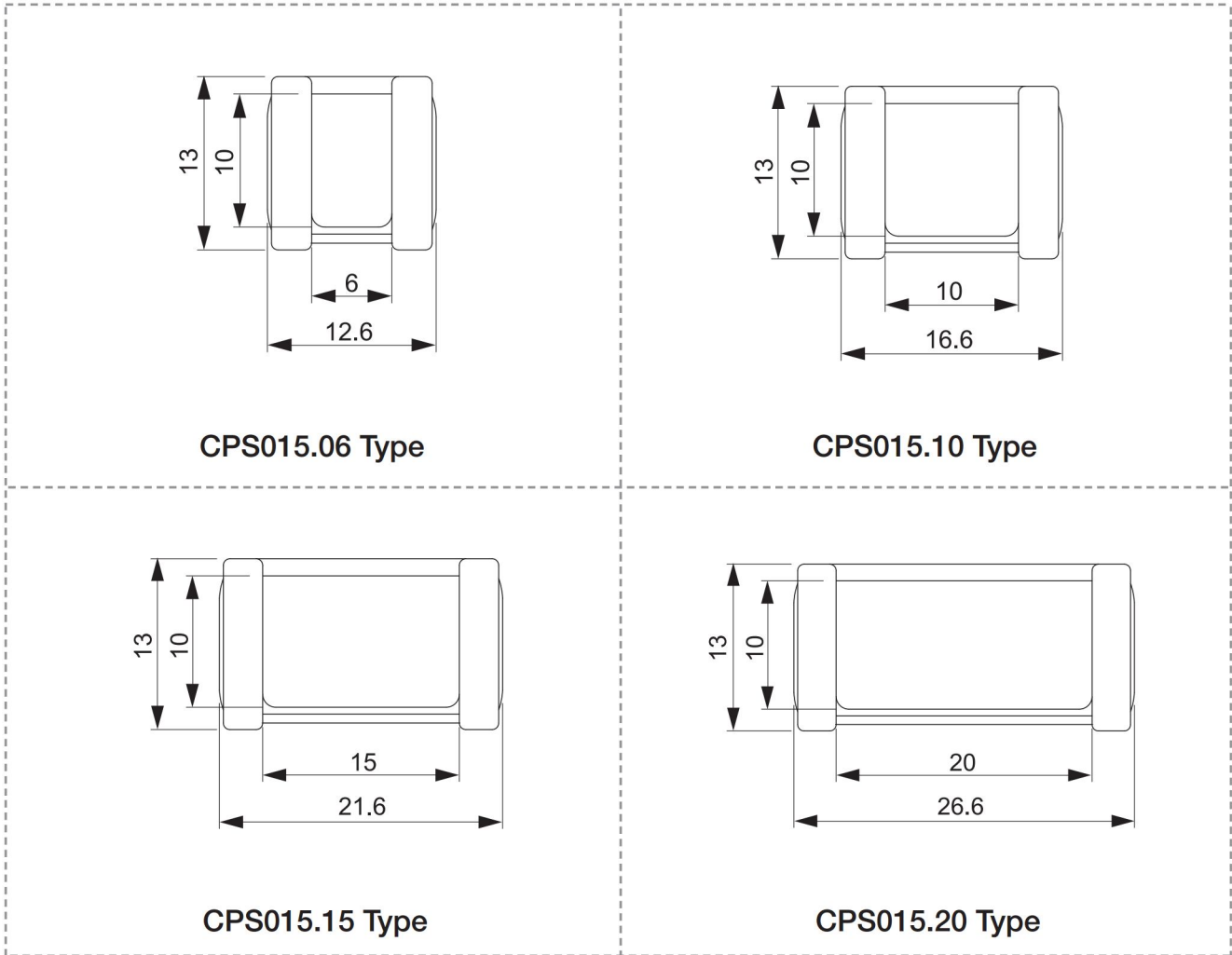
B2



B3

CPS 015 MINI Type

CHAIN CROSS SECTION

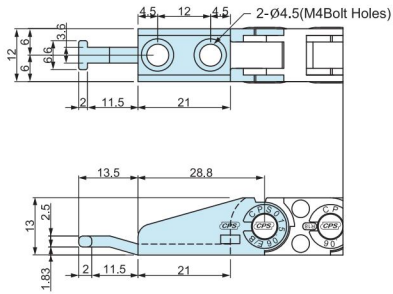


CHAIN RADIUS, WEIGHT

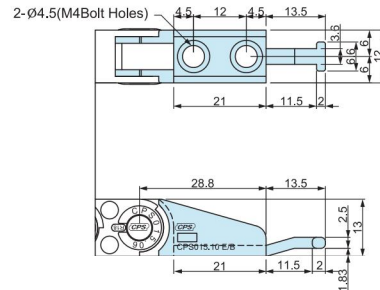
Chain Type	Bending Radius(R)	Weight in kg/m
CPS 015.06	18, 28, 38	0.100
CPS 015.10		0.106
CPS 015.15		0.111
CPS 015.20		0.115

MINI Type CPS 015

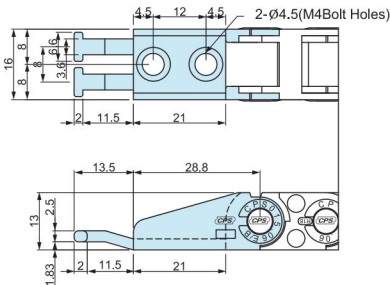
END BRACKET (TieWrap Type)



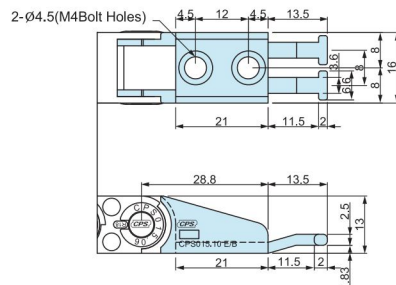
CPS015.06 Fixing point



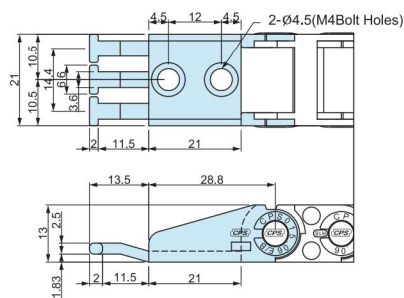
CPS015.06 Moving point



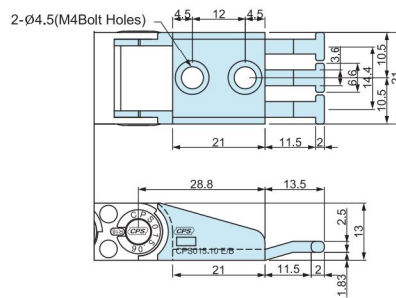
CPS015.10 Fixing point



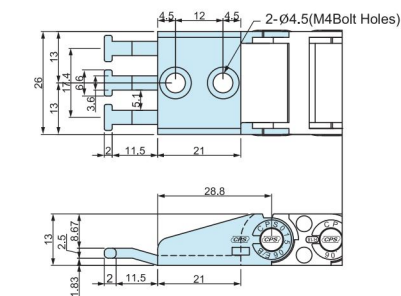
CPS015.10 Moving point



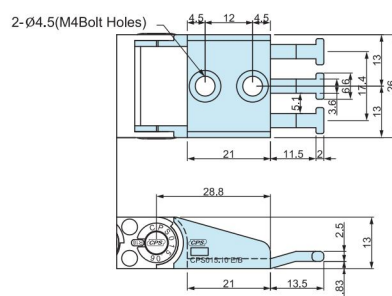
CPS015.15 Fixing point



CPS015.15 Moving point

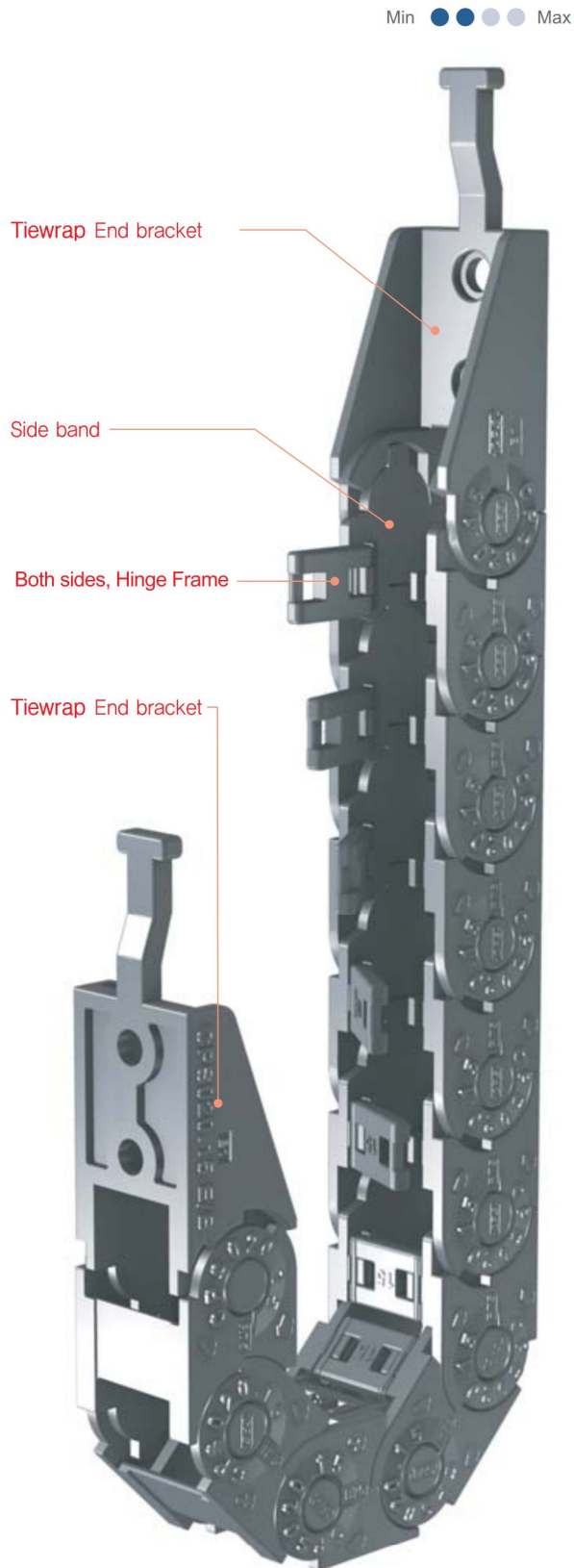


CPS015.20 Fixing point



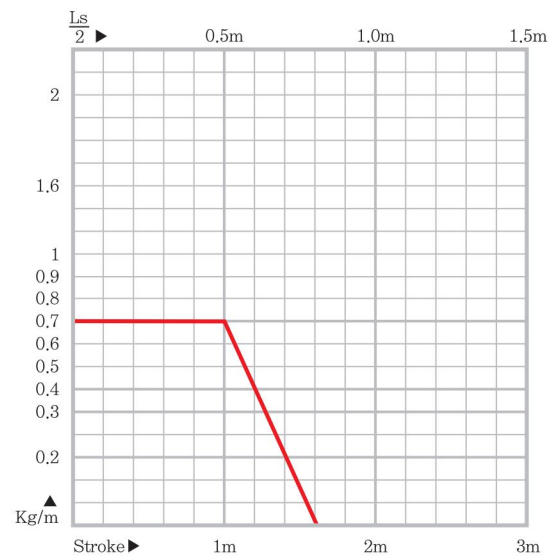
CPS015.20 Moving point

CPS 020 MINI Type



MATERIAL

- **Chain material :**
CPS-polyamide with glass fiber reinforced, UL94-HB
- **Low Noise :** 40 dB (DIN EN 61672-1)
- **Speed :** 10m / sec
- **Temperature :** -30°C ~ +130°C
- **Other installation Length**
Vertical curve above= max 1.0m
Vertical curve below= max 5.0m
Side Mounted, Unsupported= max 0.5m
- **Applications :** Printing Machine, Feeder unit
Count machine
- **Load diagrams**
self-supporting length :

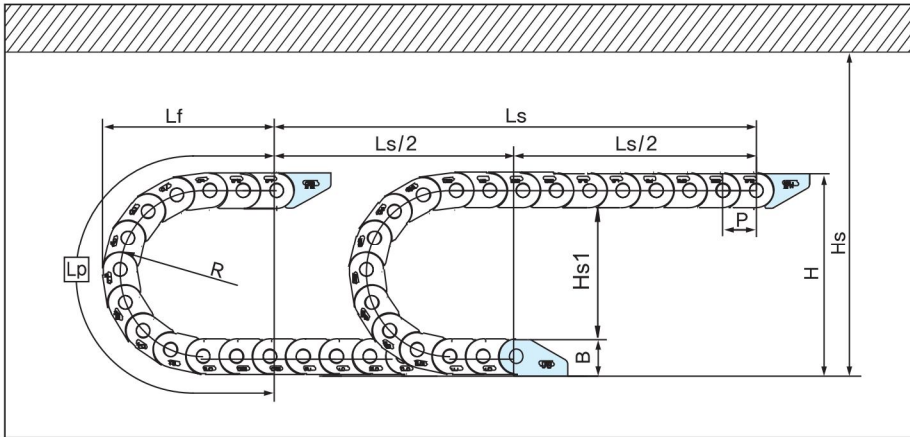


- **Calculation of the chain length**

$$\left[L = \frac{L_s}{2} + L_p \right]$$

CPS 020 MINI Type

LAYOUT OF THE CHAIN



(Dimensions in mm)

Bending radius R	28	38	48
Lp	170	200	230
L f	78	88	98
H	76	96	116

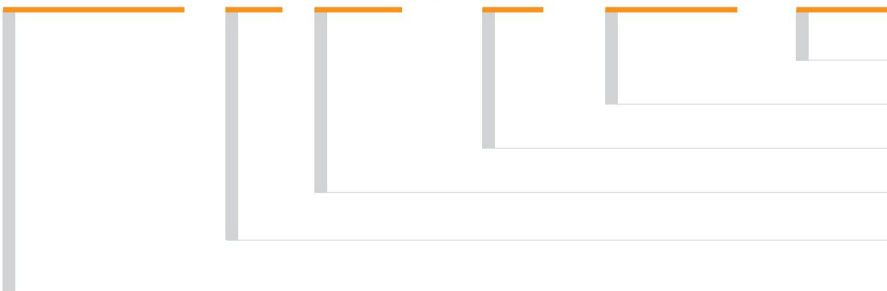
- Ls:** Stroke
- Lp:** Loop Length
- L f:** Loop Projection
- Hs:** Safe Space

CPS 020 Type

- Pitch P:** 20mm
- Height B:** 20mm
- Height H:** $2R+B$ mm
- Hs** ≤ **H+15**mm
- Hs1** ≤ **- 15**mm

ORDERING (주문방법)

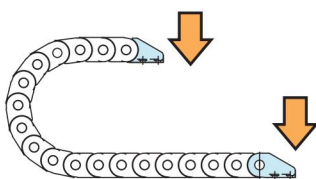
CPS 020 . 30 . R28 / B₂ - 1000L : 10ST



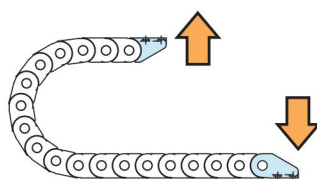
- 주문수량 Q' ty(set)
- 체인길이 Length(mm)
- 브라켓타입 Bracket Type (B1, B2, B3)
- 곡률반경 Bending Radius (R)
- 내폭 Inside Width

CPS CABLE Chain

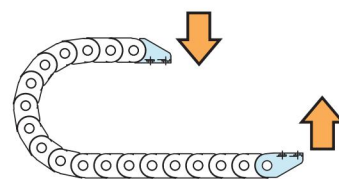
BRACKET TYPE (브라켓타입)



B1



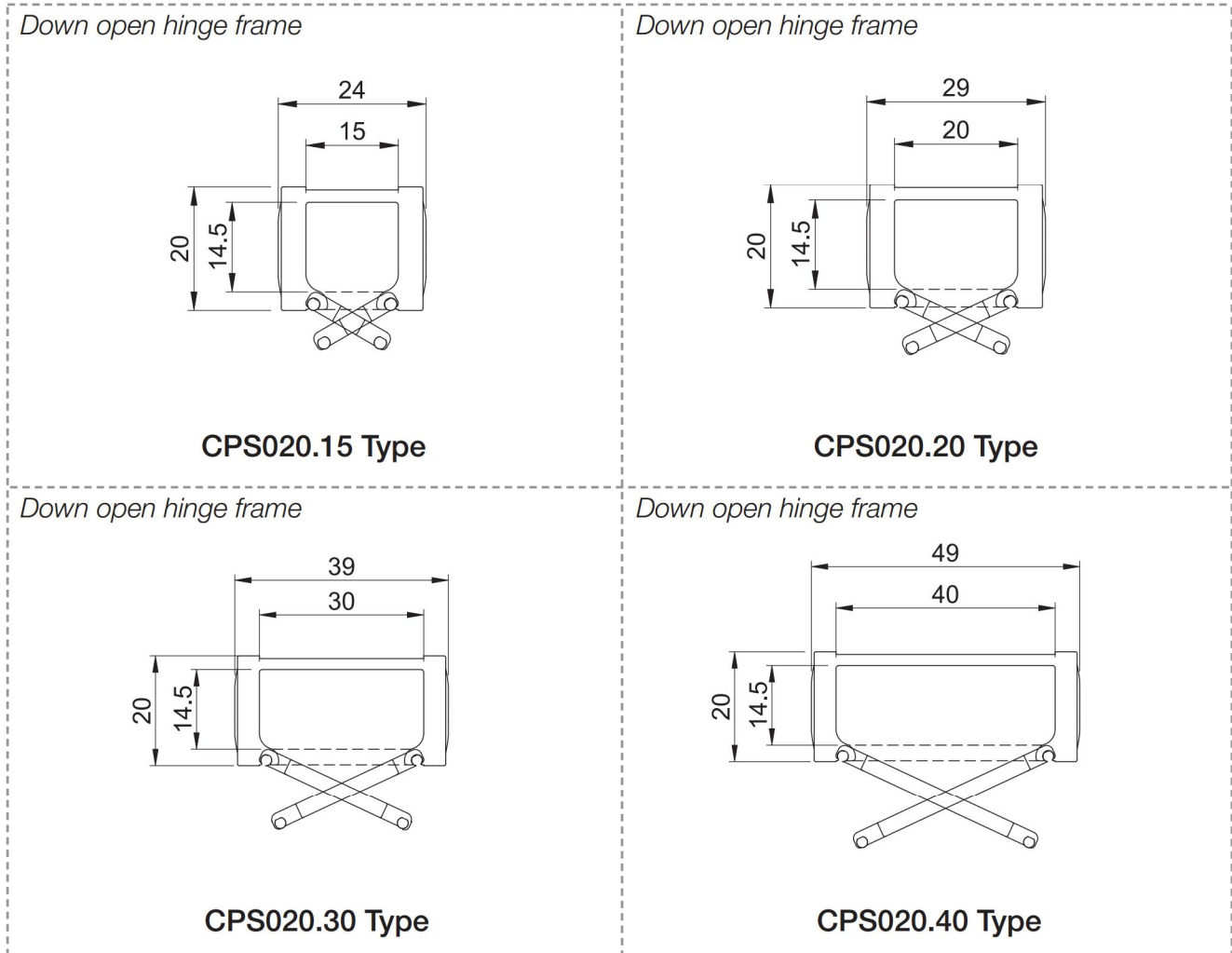
B2



B3

CPS 020 MINI Type

CHAIN CROSS SECTION



CHAIN RADIUS, WEIGHT

Chain Type	Bending Radius(R)	Weight in kg/m
CPS 020.15	28, 38, 48	0.245
CPS 020.20		0.260
CPS 020.30		0.285
CPS 020.40		0.310

CPS 020 MINI Type

SHIFT CHAIN

SAEN CHAIN

REVOLVING CHAIN

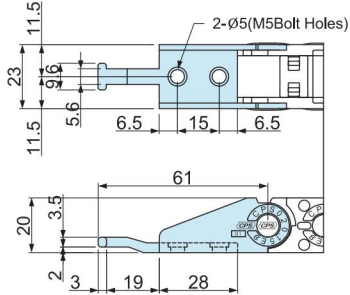
HEX CHAIN

ROBOT-KIT

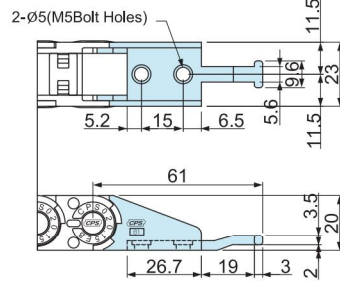
CP-SILEX

CP-SFX

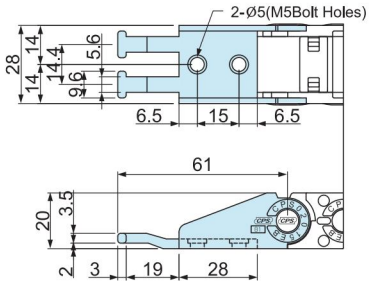
END BRACKET (TieWrap Type)



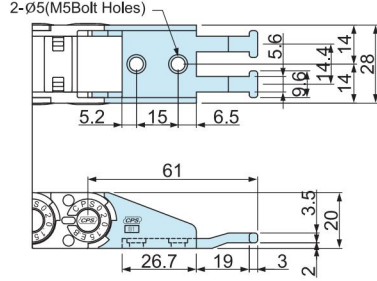
CPS020.15 Fixing point



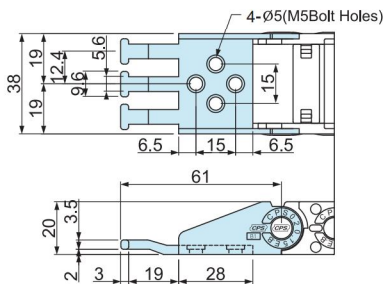
CPS020.15 Moving point



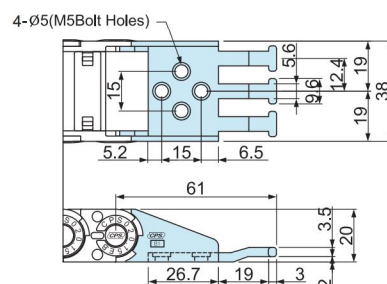
CPS020.20 Fixing point



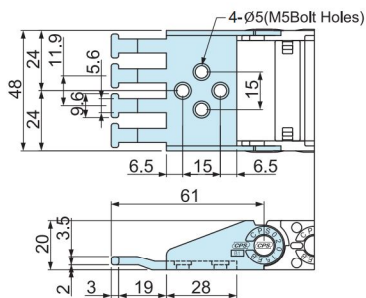
CPS020.20 Moving point



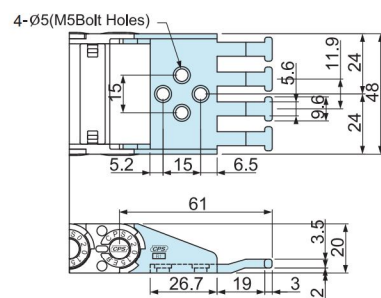
CPS020.30 Fixing point



CPS020.30 Moving point



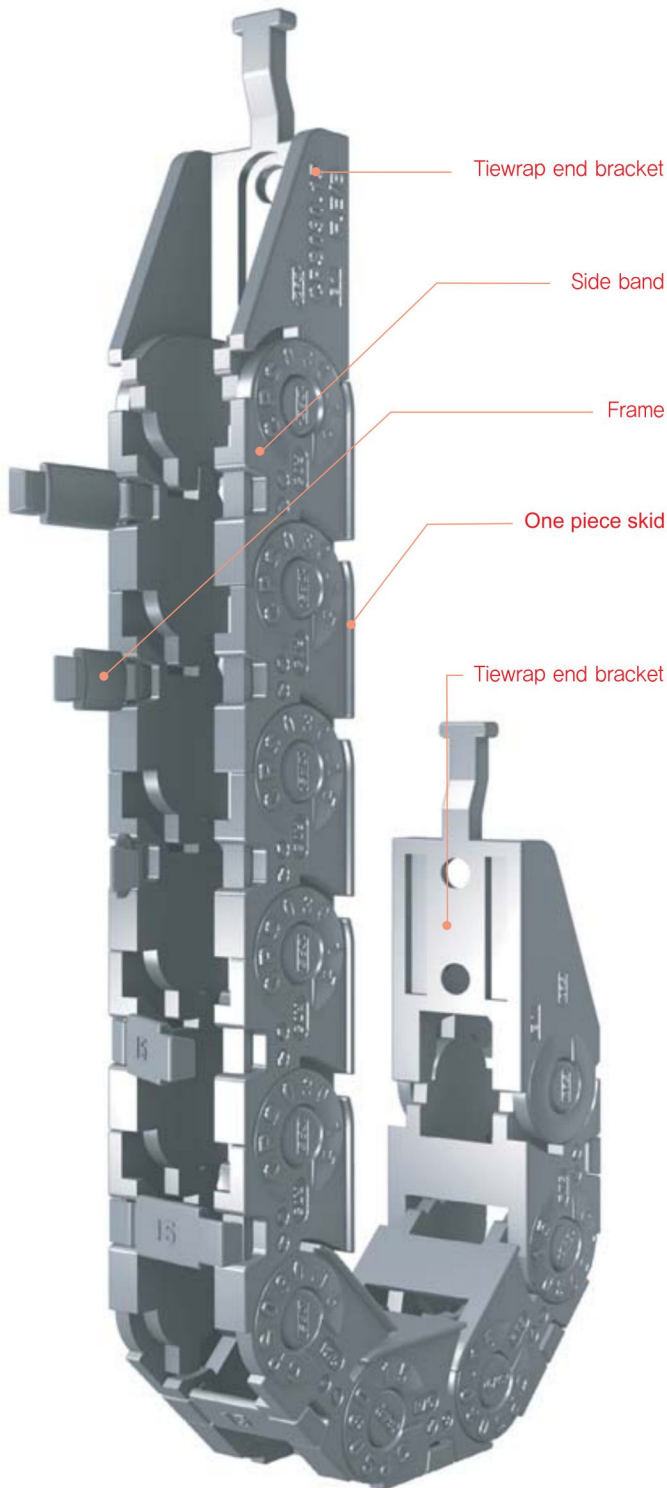
CPS020.40 Fixing point



CPS020.40 Moving point

CPS 030 MINI Type

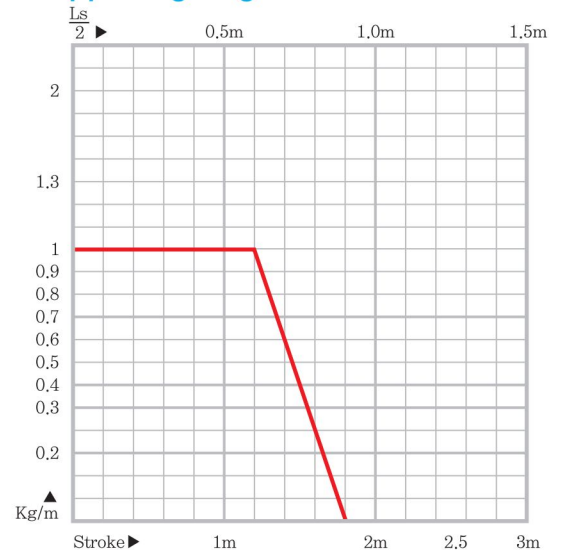
Min ●●●● Max



MATERIAL

- **Chain material :**
CPS-polyamide with glass fiber reinforced, UL94-HB
- **Low Noise :** 40 dB (DIN EN 61672-1)
- **Speed :** 10m / sec
- **Temperature :** -30°C ~ +130°C
- **Other installation Length**
Vertical curve above= max 1.5m
Vertical curve below= max 10m
Side Mounted, Unsupported= max 0.6m
- **Applications :**
Gantry robot, Machining center,
Textile machine, Welding machine,
Feeder unit, Assembly loader,
Wood work machine, Fabric machine.

Load diagrams self-supporting length :

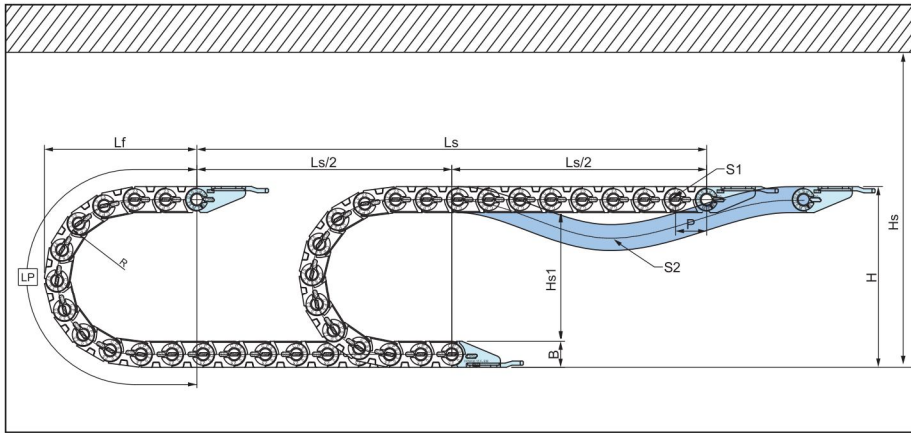


Calculation of the chain length

$$\left[L = \frac{L_s}{2} + L_p \right]$$

CPS 030 MINI Type

LAYOUT OF THE CHAIN



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

CPS 030 Type

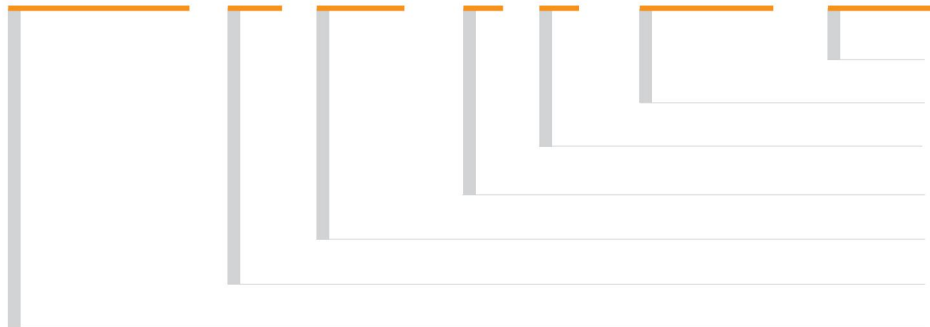
- Pitch P:** 30mm
- Height B:** 26mm
- Height H:** 2R+Bmm
- Hs** ≤ H+30mm
- Hs1** ≤ - 30mm

(Dimensions in mm)

Bending radius R	38	48	75	100
Lp	240	271	356	434
L f	110	119	148	173
H	101	121	175	225

ORDERING (주문방법)

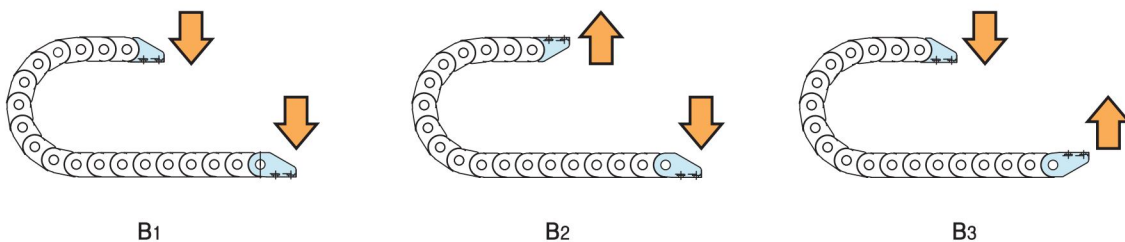
CPS 030 . 35. R75 / B₂ T - 1000L : 10ST



- 주문수량 Q' ty(set)
- 체인길이 Length(mm)
- 타이랩 브라켓 Tiewrap bracket(T)
- 브라켓타입 Bracket Type (B1, B2, B3)
- 곡률반경 Bending Radius (R)
- 내폭 Inside Width

CPS CABLE Chain

BRACKET TYPE (브라켓타입)



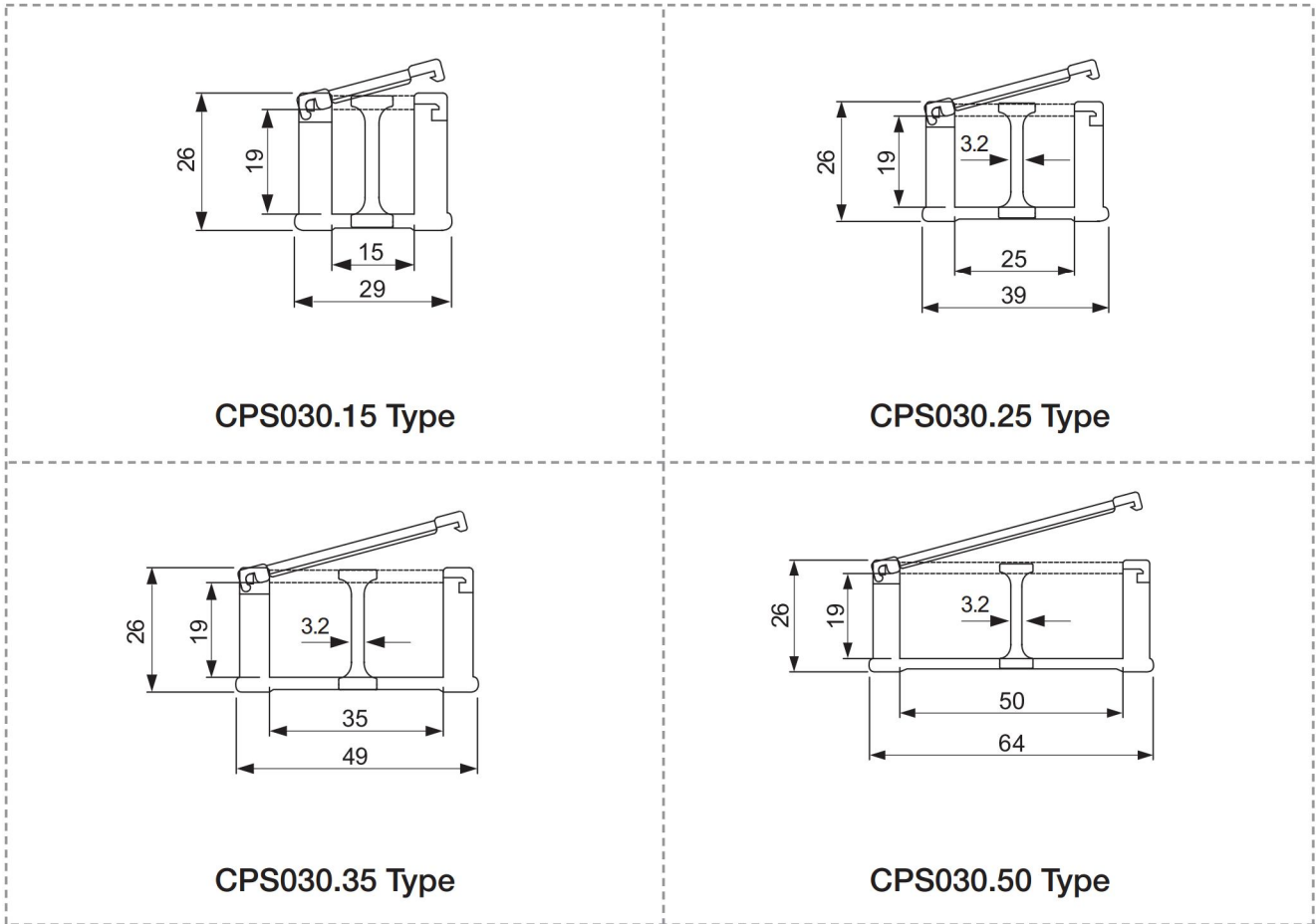
B1

B2

B3

CPS 030 MINI Type

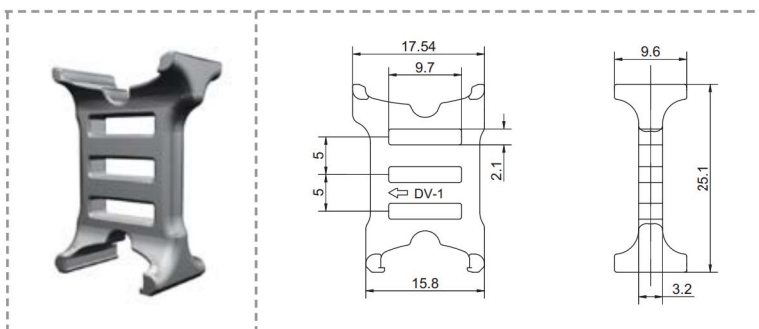
CHAIN CROSS SECTION



CHAIN RADIUS, WEIGHT

Chain Type	Bending Radius(R)	Weight in kg/m
CPS 030.15	38, 48, 75, 100	0.38
CPS 030.25		0.40
CPS 030.35		0.42
CPS 030.45		0.44

DIVIDERS & SEPARATORS



Installing dividers & separators enables cables to divide from each other and also prevent them tangling together.

체인내부에 디바이더와 세퍼레이터를 설치하여 입선되는 케이블을 서로 분리시키는 역할을 하며 **케이블의 엉킴현상을 방지**한다.

CPS 030 MINI Type

SHFT-CHAIN

SAEN-CHAIN

REVOLVING-CHAIN

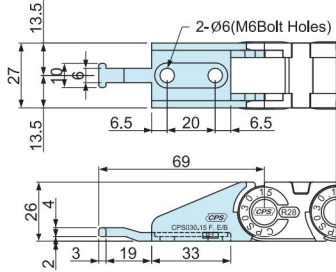
HEIX-CHAIN

ROBOT-KIT

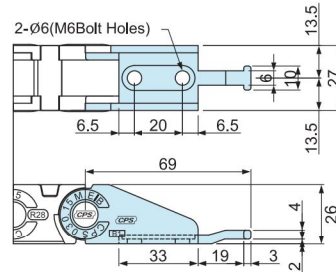
CP-STLEX

CP-SFK

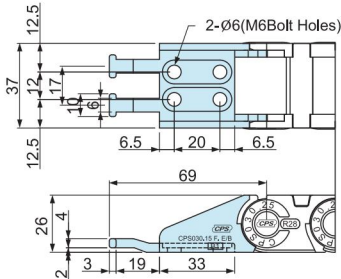
END BRACKET (TieWrap Type)



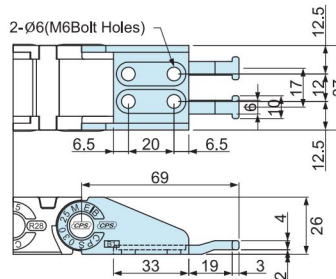
CPS030.15 Fixing point



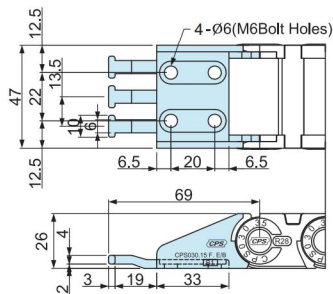
CPS030.15 Moving point



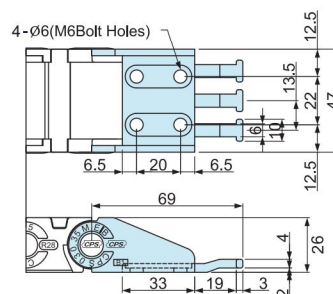
CPS030.25 Fixing point



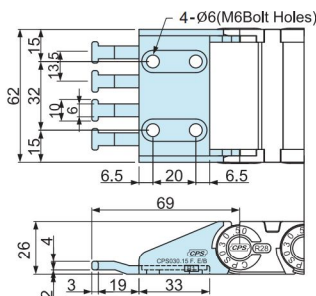
CPS030.25 Moving point



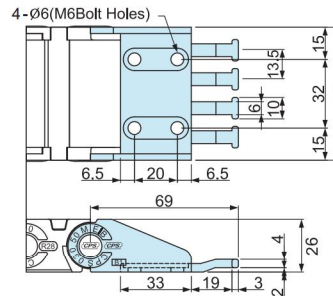
CPS030.35 Fixing point



CPS030.35 Moving point

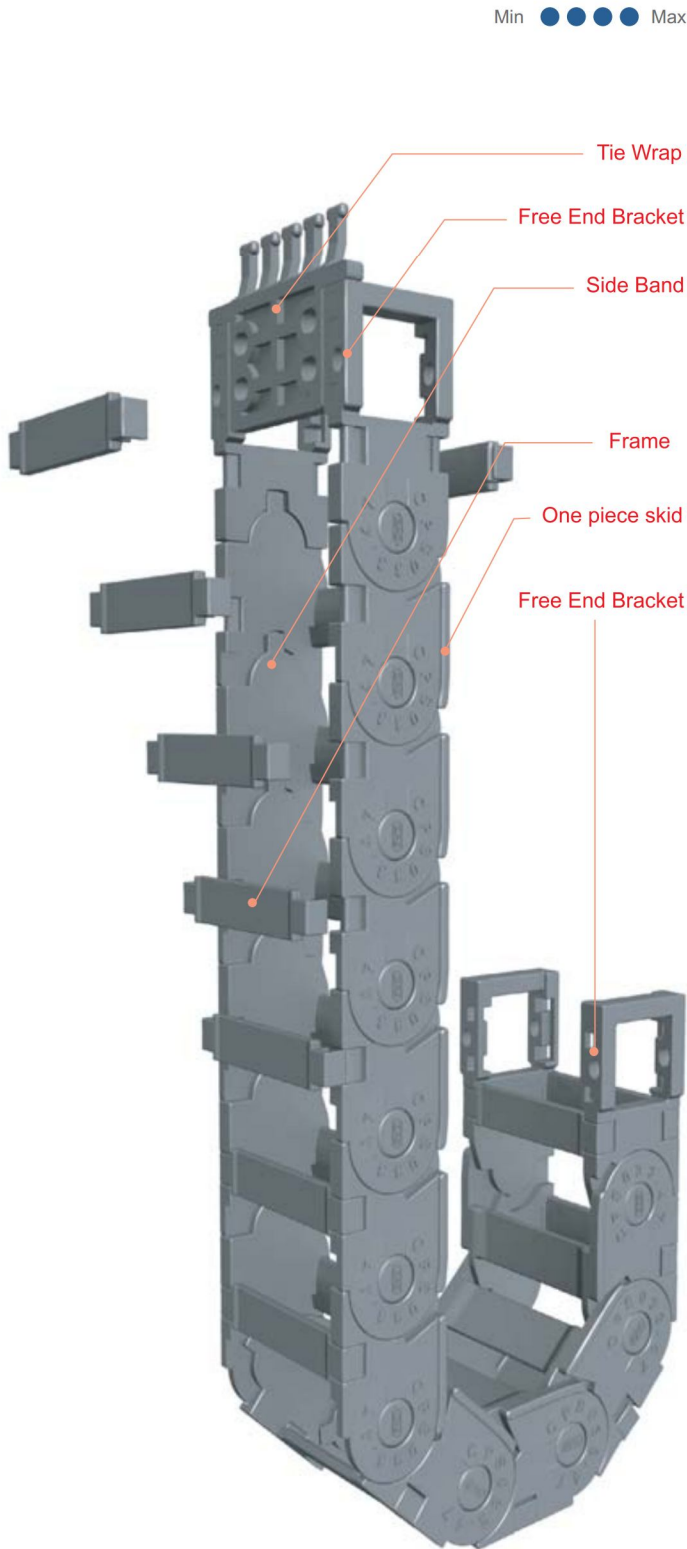


CPS030.50 Fixing point



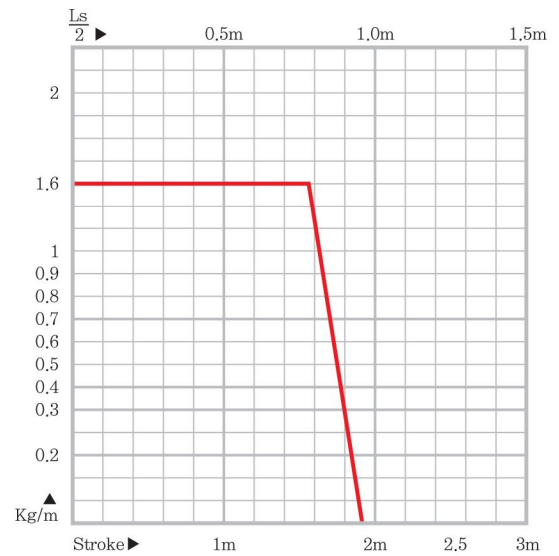
CPS030.50 Moving point

CPS 033 MINI Type



MATERIAL

- **Chain material :**
CPS-polyamide with glass fiber reinforced, UL94-HB
- **Low Noise :** 40 dB (DIN EN 61672-1)
- **Speed :** 10m / sec
- **Temperature :** -30°C ~ +130°C
- **Other installation Length**
Vertical curve above= max 1.5m
Vertical curve below= max 10m
Side Mounted, Unsupported= max 0.6m
- **Applications :**
Gantry robot, Machining center,
Textile machine, Welding machine, Feeder unit,
Assembly loader, Wood work machine, Fabric machine.
- **Load diagrams**
self-supporting length :



- **Calculation of the chain length**

$$\left[L = \frac{L_s}{2} + L_p \right]$$

CPS 033 MINI Type

SHFT CHAIN

SAEN CHAIN

REVOLVING CHAIN

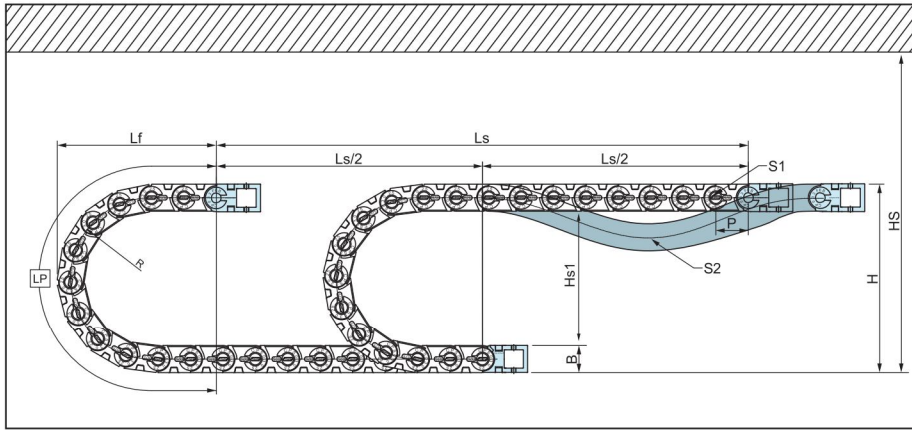
HEIX CHAIN

ROBO-KIT

OP-STEEX

OP-SPEX

LAYOUT OF THE CHAIN



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

CPS 033 Type

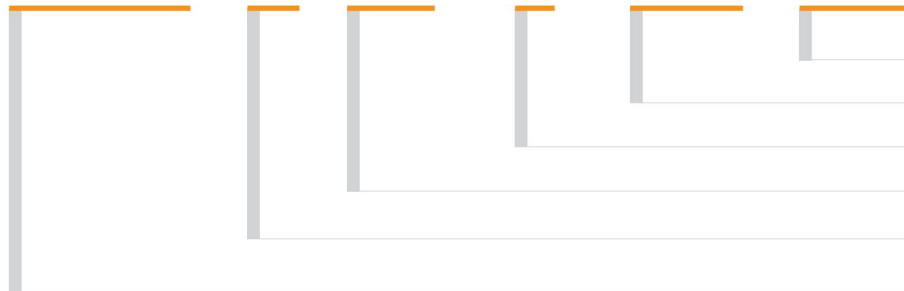
- Pitch P:** 33mm
- Height B:** 31mm
- Height H:** 2R+Bmm
- Hs ≤ H+30mm**
- Hs1 ≤ - 30mm**

(Dimensions in mm)

Bending radius R	35	45	75	100	120
Lp	242	274	368	446	509
Lf	117	127	157	182	202
H	101	121	181	231	271

ORDERING (주문방법)

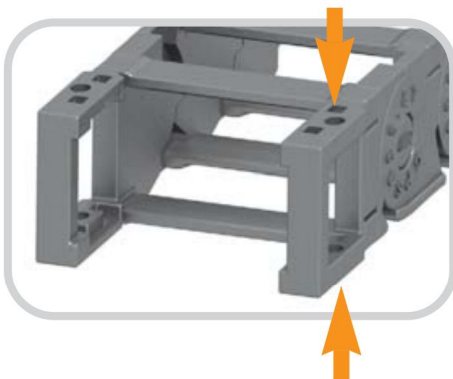
CPS 033 . 37. R75 / E - 900L : 10ST



- 주문수량 Q' ty(set)
- 체인길이 Length(mm)
- 브라켓타입 Bracket Type (B1, B2, B3)
- 곡률반경 Bending Radius (R)
- 내폭 Inside Width

CPS CABLE Chain

BRACKET TYPE (브라켓타입)



EEB (Easy End Bracket)

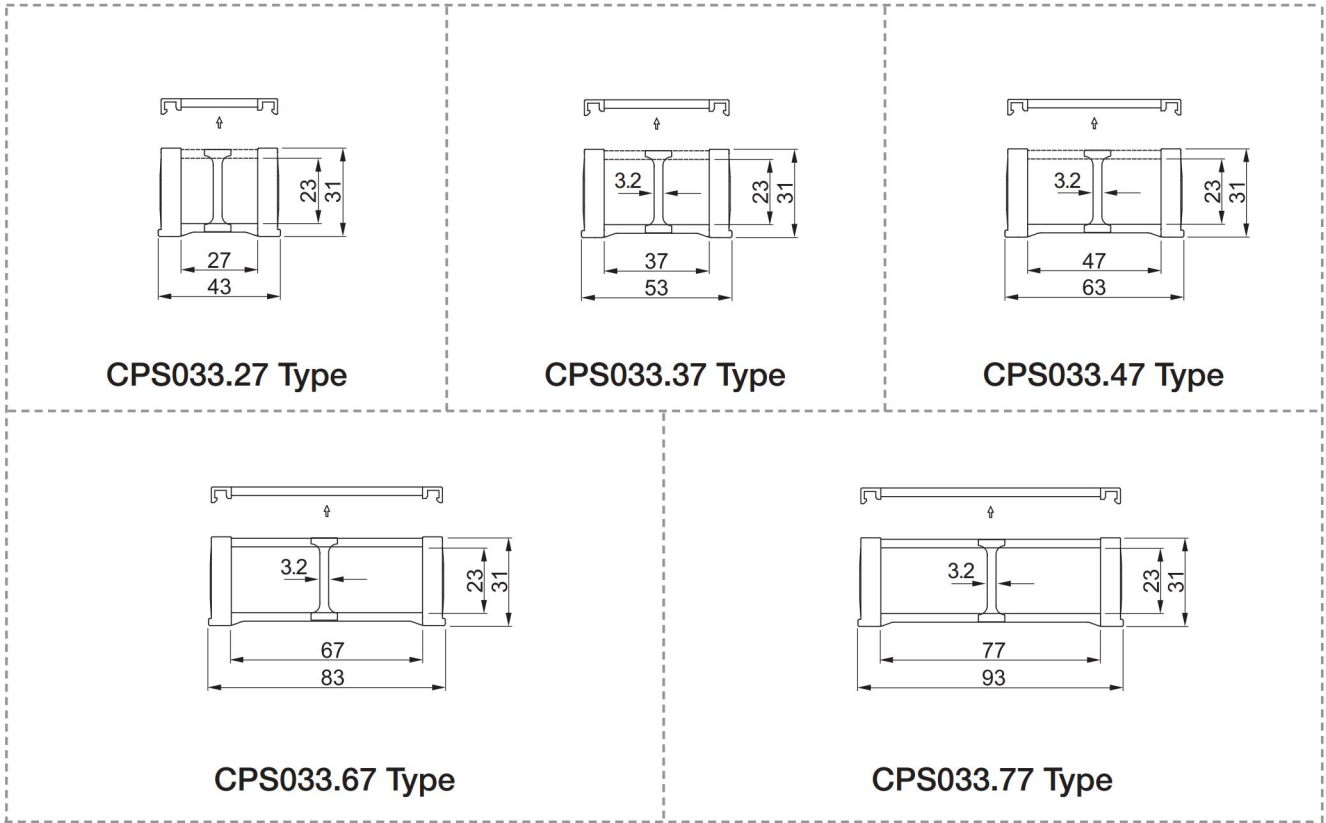
The fixing end part of cable chain which improve the efficiency of mounting condition by unifying the existing Easy End Bracket and Normal End Bracket.

체인을 고정하는 끝부분으로 기존 Easy End Bracket 과 Normal End Bracket 을 하나로 통합한 방식으로 취부의 효율성을 높임.

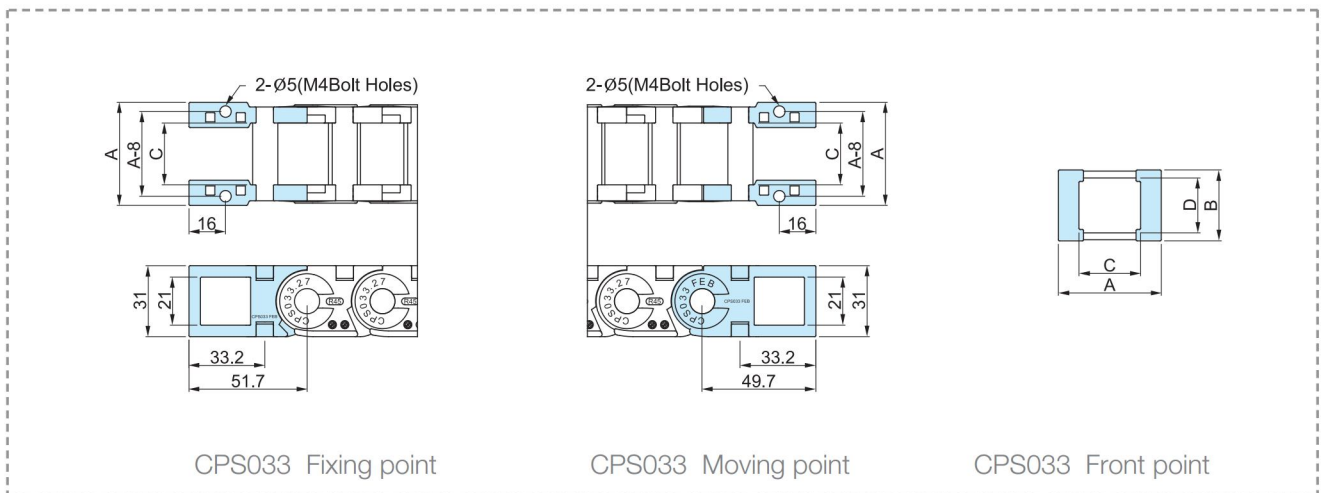
▶ Above products are patent registered item which can be protected by industrial property right. (상기제품은 특허등록 제품으로 산업재산권의 보호를 받는 제품입니다.)

CPS 033 MINI Type

CHAIN CROSS SECTION



END BRACKET - Easy Type



Chain Type	F	B	C	D	Hole Type
CPS 033.27	45		27		M4 Bolt Holes
CPS 033.37	55		37		
CPS 033.47	65	31	47	23	
CPS 033.67	85		67		
CPS 033.77	95		77		

CPS 033 MINI Type

SHIFT CHAIN

SAEN CHAIN

REVOLVING CHAIN

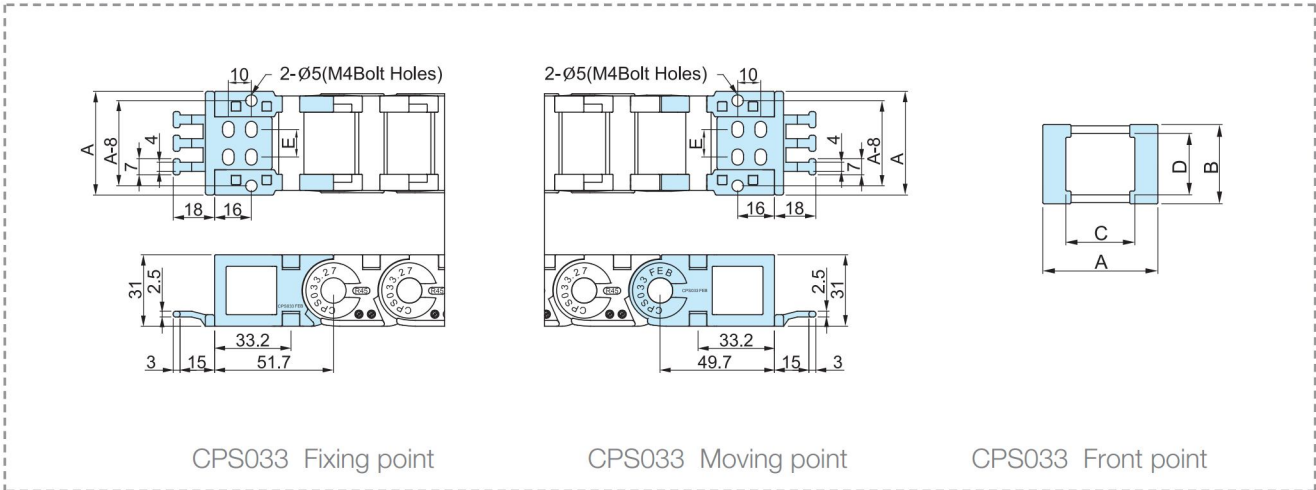
HEX CHAIN

ROBO-KIT

CPSTEX

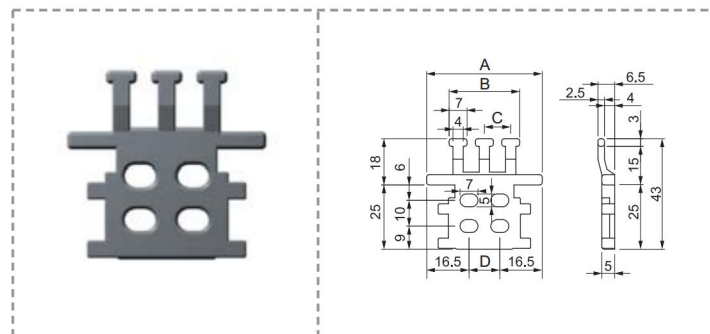
CPSEK

EASY END BRACKET - Tie wrap connction



Chain Type	F	B	C	D	E	Hole Type
CPS 033.27	45		27		12	M4 Bolt Holes
CPS 033.37	55		37		22	
CPS 033.47	65	31	47	23	32	
CPS 033.67	85		67		52	
CPS 033.77	95		77		62	

TIE WRAP



Tie wrap prevents cut off problem of the cable by the twisting and pulling movement.

The tie wrap of this CPS CABLE Chain has two types, separated with bracket type and attached with bracket type.

Tie Wrap은 케이블체인의 **브라켓을 기준으로 설치함**으로써 체인의 움직임으로 인해 체인내의 케이블이나 호스가 당겨져 **단선되는 경우**를 방지할 수 있다.

CPS CABLE Chain의 Tie Wrap은 **브라켓부분과 근접해서 사용할 수 있는 사양**과 **브라켓에 결합해서 사용할 수 있는 사양**으로 구분되어 사용할 수 있다.

	27	37	47	67	77
A	45.0	55.0	65.0	85	95
B	27.5	41.0	47.9	67.9	77.9
C	10.2	8.5	10.4	10	8.8
D	12.0	22.0	32.0	52	62