

# HSSP type

- 실용신안등록 제 090068호
- 실용신안등록 제 134987호
- 실용신안등록 제 142619호

공작기계, 운반기계, 자동차 생산설비, 산업용 플랜트, 자동용접기, 산업용로봇 등  
장거리 설비에 적용

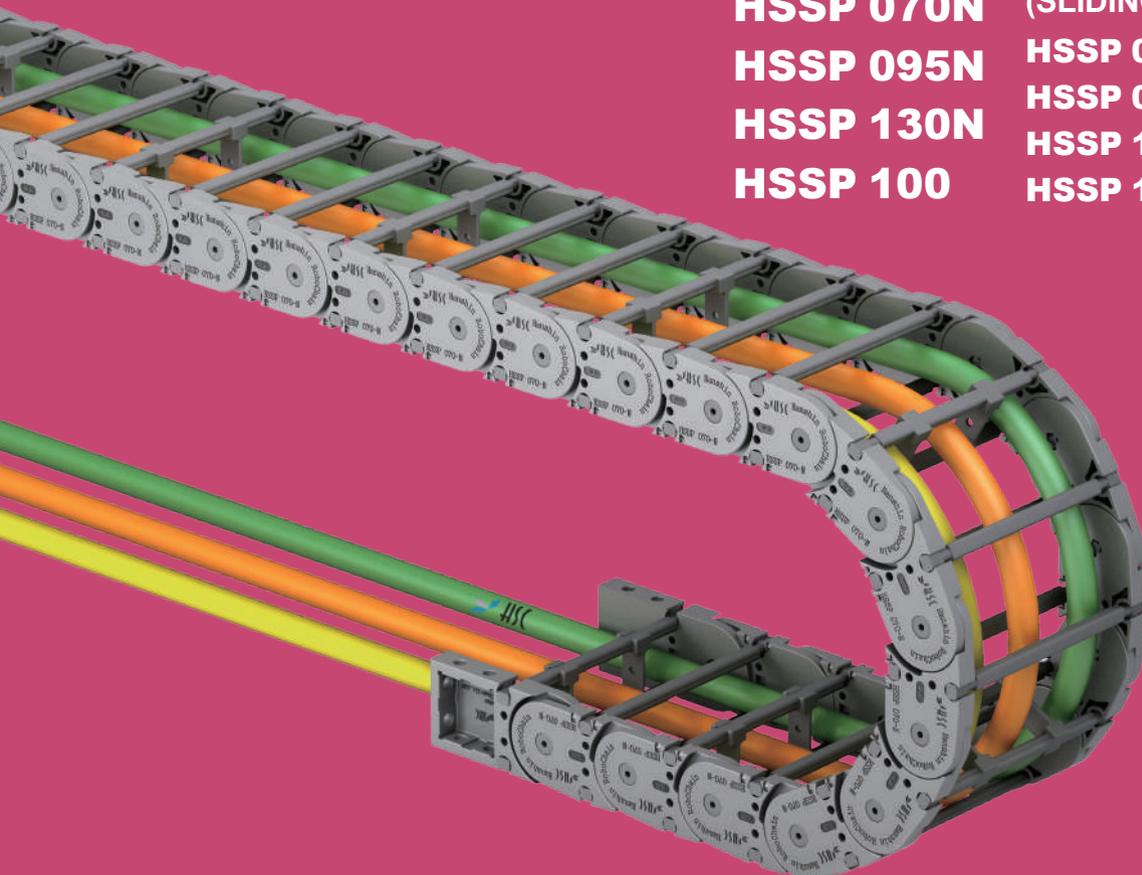
*Applicable for long stroke use such as Machining center, Conveying machine, Automobile industry, Industrial plant facility, Automatic soldering machine, Industrial robot and so forth*

## ☑ Operation

HSSP Type의 RoboChain은 고강도 엔지니어링 플라스틱으로 설계 제작되어 경량이며 소음이 적고 취급이 간편합니다. 케이블 호스의 Supporter 부위는 플라스틱 및 알루미늄을 사용하여 중량을 최소화하여 장거리 응용분야에 적합합니다.

*HSSP Type RoboChain is made of highly durable engineering plastic. It features light weight, less noise, and easy handling. Supporter part of cable hose is made of engineering plastic or aluminum to lighten the weight. This feature also contributes to long stroke application.*

<b>HSSP 070N</b>	<b>(SLIDING TYPE)</b>
<b>HSSP 095N</b>	<b>HSSP 070NS</b>
<b>HSSP 130N</b>	<b>HSSP 095NS</b>
<b>HSSP 100</b>	<b>HSSP 130NS</b>
	<b>HSSP 100S</b>



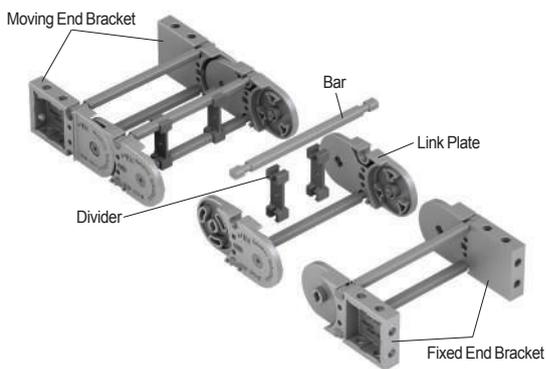
## ☑ Features

- HS, HSS Type을 경량화 시켰으며 엔지니어링 플라스틱으로 되어 있기 때문에 가벼우며 보다 움직임이 부드럽습니다.
- 간편 조작형으로 Cable, Hose의 분해 및 설치가 용이하고 칸막이가 자유롭게 조정됩니다.
- 동작기계 및 장거리 설비에 적합합니다.
- 30종의 다양한 모델이 있습니다.
- Link Plate에 장거리 주행을 위한 Side Cover, Slider를 부착할 수 있습니다.
- 동작기계, 운반기계, 자동차 생산설비, 산업용 플랜트, 자동용접기, 산업용로봇 등 장거리 설비에 적합합니다.
- *HSSP Type is made of engineering plastic to lighten the weight applicable for long stroke.*
- *Easily adjustable dividers.*
- *Machining center that requires long stroke applications.*
- *Side cover and slider are attachable to link plate for long stroke movement.*
- *30 various models are manufactured.*

## ☑ Properties

- 운동속도 : 120m/min 이하
  - 케이블 호스의 직경 : 75mm 이하
  - 사용온도 : -25 ~ 100°C
  - 장력 : 190 (건조), 120 (공기습도) N/mm<sup>2</sup>
  - 인장 팽창 : 4 (건조), 6 (공기습도) %
  - 탄성계수 : 10000 (건조), 7000 (공기습도) N/mm<sup>2</sup>
  - 미끄럼 마찰 : 0.4 (무윤활시)
  - 기본색 : Black (칼라주문가능)
  - 재질 : 엔지니어링 플라스틱, Aluminum
- *Moving Velocity : below 120m/min*
  - *Diameter of Cable Hose : less than 75mm*
  - *Operating Temperature : -25 ~ 100°C*
  - *Tension : 190 (in dry), 120 (in moisture) N/mm<sup>2</sup>*
  - *Stretch : 4 (in dry), 6 (in moisture) %*
  - *Elasticity : 10000 (in dry), 7000 (in moisture) N/mm<sup>2</sup>*
  - *Sliding Friction : 0.4 (non-greased)*
  - *Basic Color : White Zinc Coating*
  - *Material : Engineering Plastic, Aluminum*

## ☑ Structure

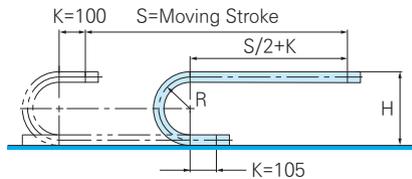
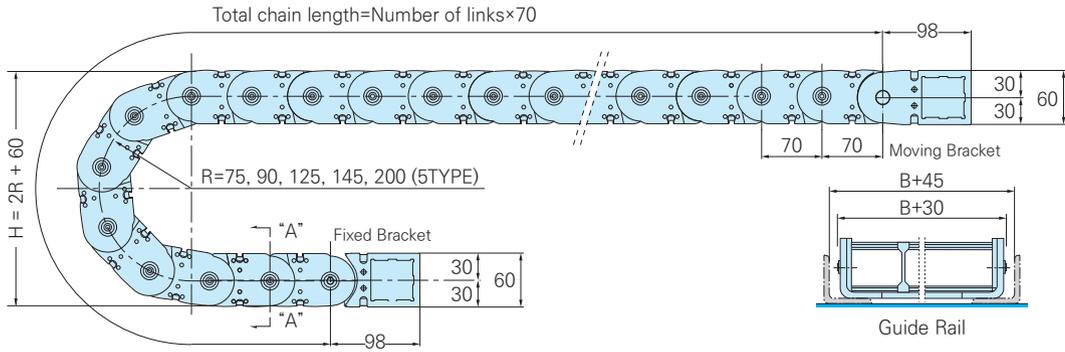


# HSSP 070N

## ORDER EXAMPLE

HSSP070N 145R B200 D:3 2940L 3SETS  
 Type Radius Width Divider Length Q'ty

## Chain, Cross Section



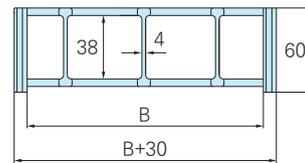
$$\text{Length}(L) = \frac{S}{2} + \pi R + 210$$

Radius(R)	75	90	125	145	200
Height(H)	210	240	310	350	460

## Divider

Cable/Hose dmax	Ø32					
Frame Dim. "B"	80	100	125	150	200	250
Divider(Standard)	1	1	1	1	2	3

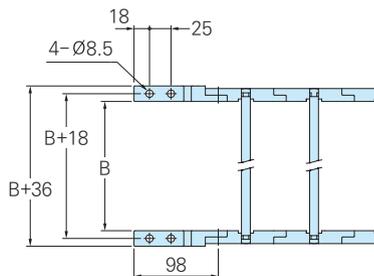
\* Eng. Plastic(표준) : 80~200  
 Aluminum(옵션) : 80~250(비규격 : 문의)



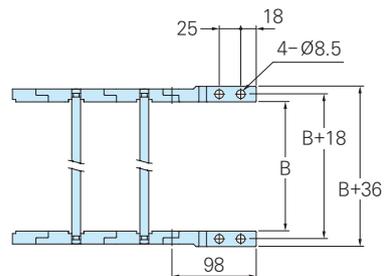
A-A Cross Section

## Brackets

\* Eng. Plastic(표준), 장거리 옵션(기술팁과 협의)



Fixed Bracket



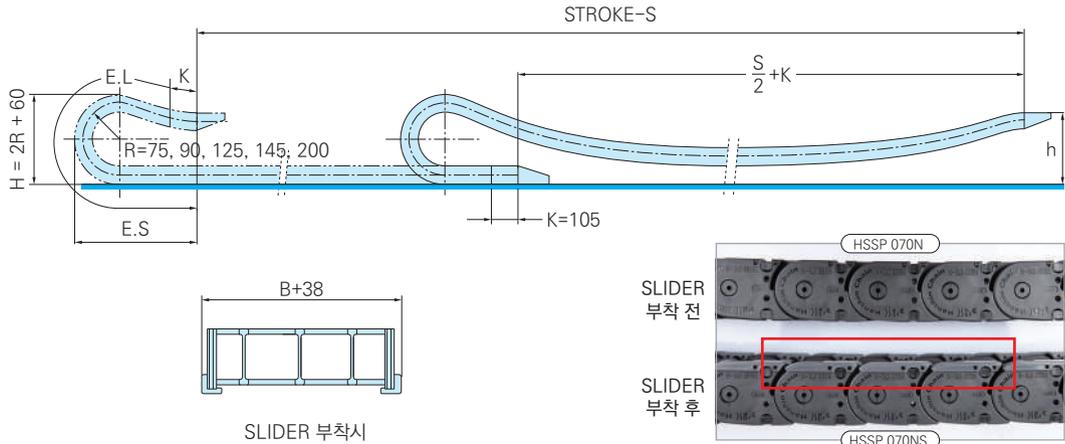
Moving Bracket

# HSSP 070NS (슬라이더 부착형)

ORDER EXAMPLE

HSSP070NS 145R B200 D:3 15050L 2SETS  
 Type Radius Width Divider Length Q'ty

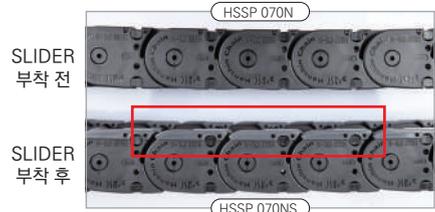
## Chain



$$\text{Length}(L) = \frac{S}{2} + E.L + 210$$

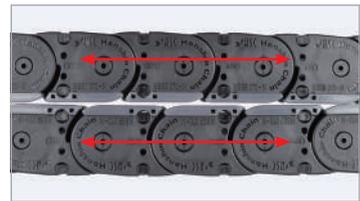
Radius(R)	75	90	125	145	200
Height(H)	210	240	310	350	460
Moving Point Height(h)	200	200	200	200	200
Extra Length(E.L)	560	700	910	1050	1470
Extra Space(E.S)	230	260	380	450	580

- \* h: 역R 적용 시 취부 높이
- \* 역R 제품은 주문 전 영업부와 협의 바랍니다.



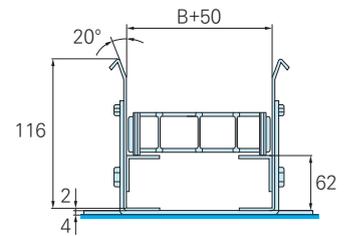
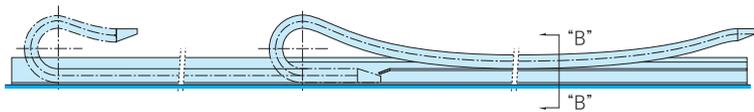
SLIDER 부착 전

SLIDER 부착 후



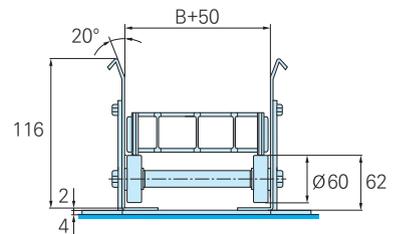
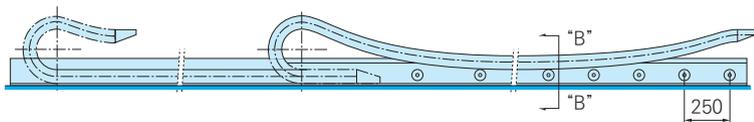
장거리 사용시 슬라이더를 부착하여 매끄럽고 부드럽게 주행  
 로보체인 링크 플레이트의 마모를 막아주고  
 슬라이더만 교체하여 오랜 기간 사용 가능

## Guide Rail



B-B Cross Section

## Guide Roller



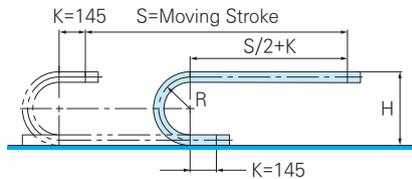
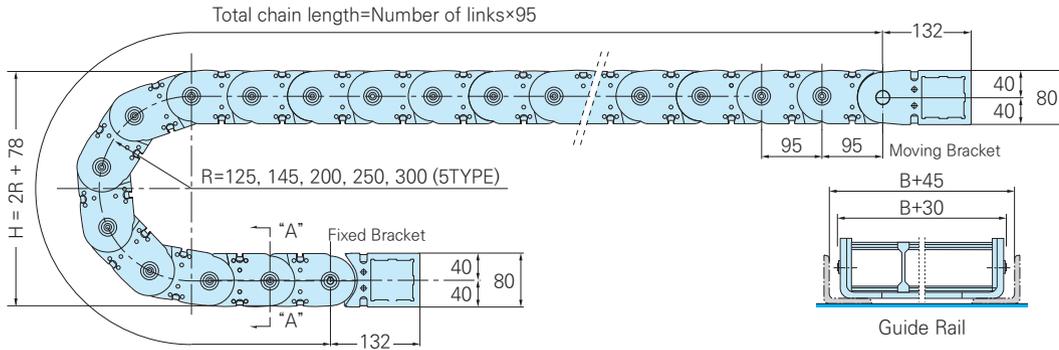
B-B Cross Section

# HSSP 095N

## ORDER EXAMPLE

HSSP095N 300R B200 D:3 3990L 3SETS  
 Type Radius Width Divider Length Q'ty

## Chain, Cross Section



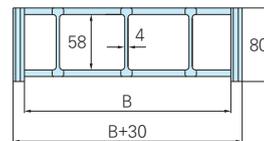
$$\text{Length(L)} = \frac{S}{2} + \pi R + 290$$

Radius(R)	125	145	200	250	300
Height(H)	328	368	478	578	678

## Divider

Cable/Hose dmax	Ø52						
Frame Dim. "B"	80	100	125	150	200	250	300
Divider(Standard)	1	1	1	2	2	3	3

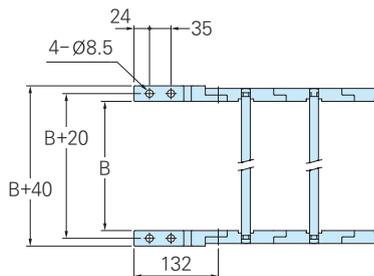
\* Eng. Plastic(표준) : 80~200  
 Aluminum(옵션) : 80~300(비규격 : 문의)



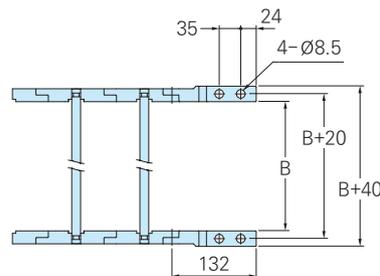
A-A Cross Section

## Brackets

\* Eng. Plastic(표준), 장거리 옵션(기술팁과 협의)



Fixed Bracket



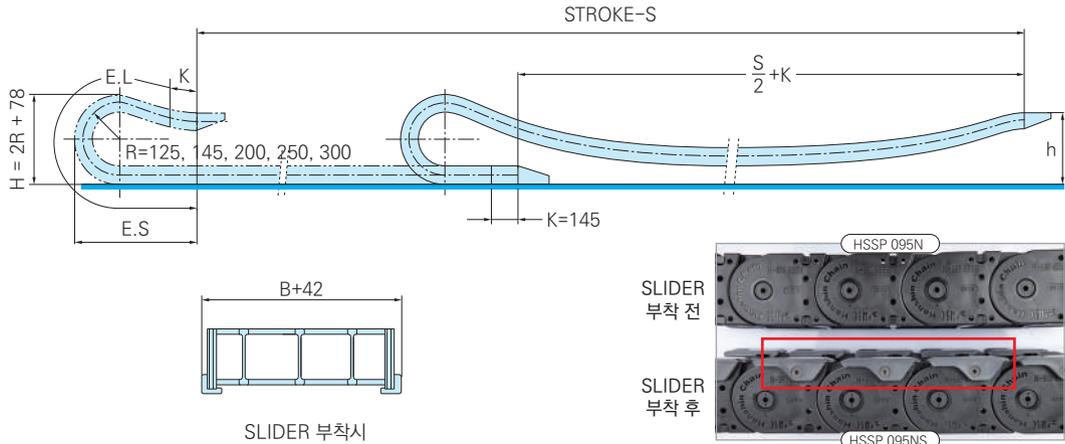
Moving Bracket

# HSSP 095NS (슬라이더 부착형)

ORDER EXAMPLE

HSSP095NS 300R B200 D:3 19950L 2SETS  
 Type Radius Width Divider Length Q'ty

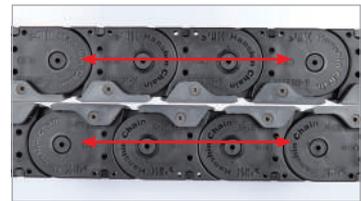
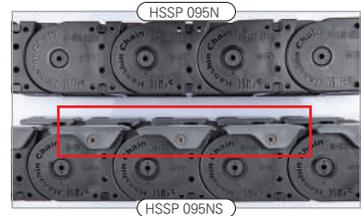
## Chain



$$\text{Length}(L) = \frac{S}{2} + E.L + 290$$

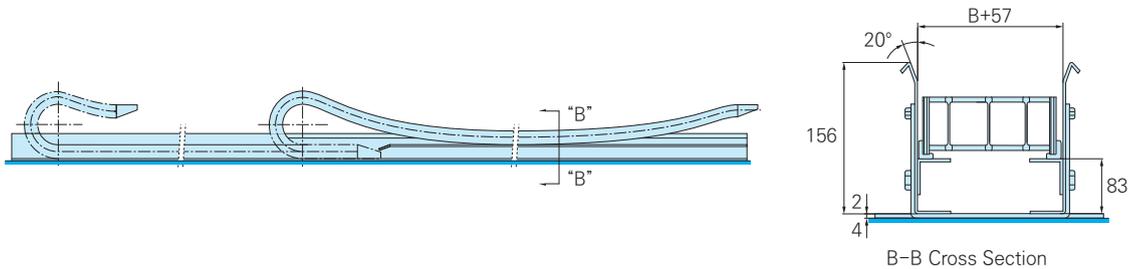
Radius(R)	125	145	200	250	300
Height(H)	328	368	478	578	678
Moving Point Height(h)	250	250	250	250	250
Extra Length(E.L)	950	1140	1520	1900	2185
Extra Space(E.S)	340	430	600	750	860

- \* h: 역R 적용 시 취부 높이
- \* 역R 제품은 주문 전 영업부와 협의 바랍니다.

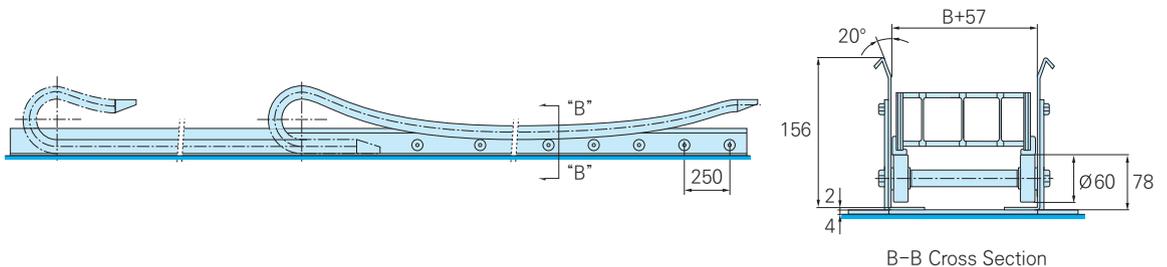


장거리 사용시 슬라이더를 부착하여 매끄럽고 부드럽게 주행  
 로보체인 링크 플레이트의 마모를 막아주고  
 슬라이더만 교체하여 오랜 기간 사용 가능

## Guide Rail



## Guide Roller

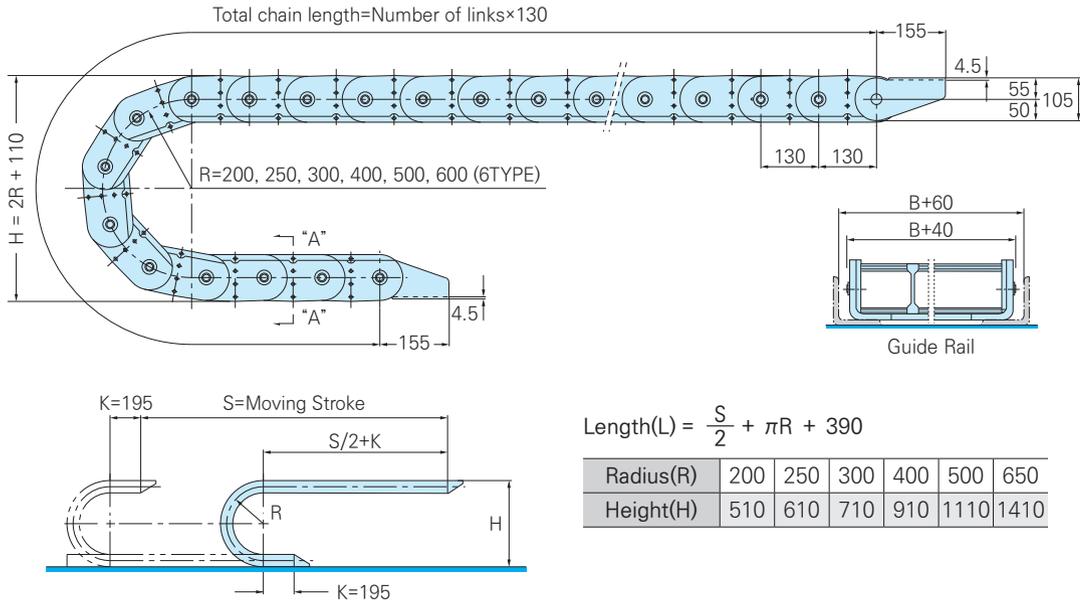


# HSSP 130N

## ORDER EXAMPLE

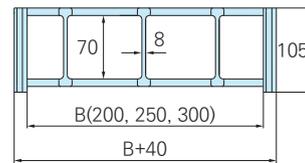
HSSP130N 250R B200 D:3 4420L 3SETS  
 Type Radius Width Divider Length Q'ty

## Chain, Cross Section



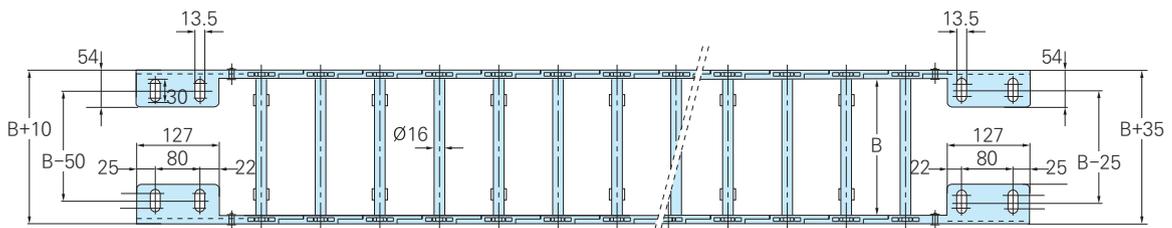
## Divider

Cable/Hose dmax	Ø63				
Frame Dim. "B"	200	250	300	350	400
Divider(Standard)	2	3	3	4	4



A-A Cross Section

## Brackets



Fixed Bracket

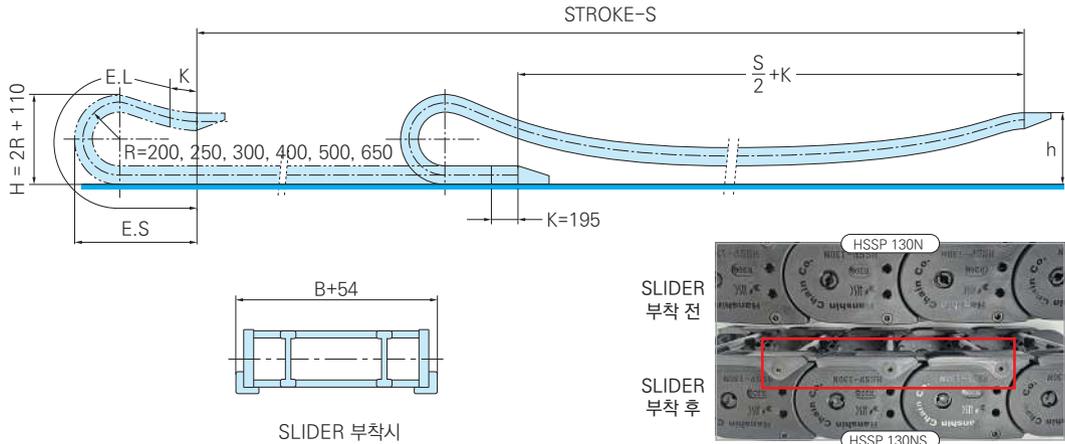
Moving Bracket

# HSSP 130NS (슬라이더 부착형)

## ORDER EXAMPLE

HSSP130NS 400R B300 D:3 24960L 3SETS  
 Type Radius Width Divider Length Q'ty

## Chain



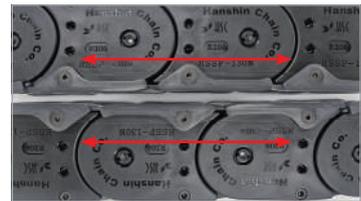
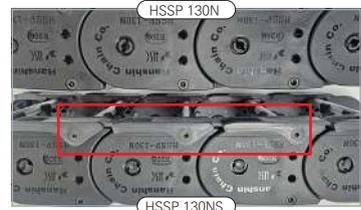
$$\text{Length}(L) = \frac{S}{2} + E.L + 390$$

Radius(R)	200	250	300	400	500	650
Height(H)	510	610	710	910	1110	1410
Moving Point Height(h)	300	300	300	300	300	300
Extra Length(E.L)	1560	1820	2210	2990	3640	4200
Extra Space(E.S)	780	950	1100	1400	1700	2000

- \* h: 역R 적용 시 취부 높이
- \* 역R 제품은 주문 전 영업부와 협의 바랍니다.

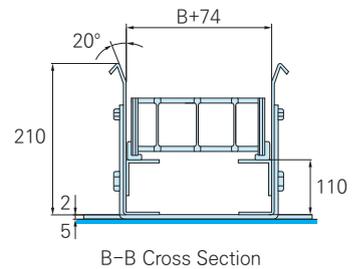
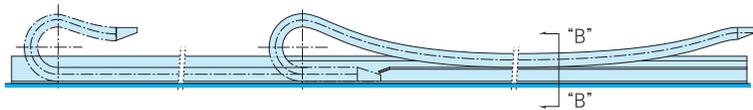
SLIDER  
부착 전

SLIDER  
부착 후

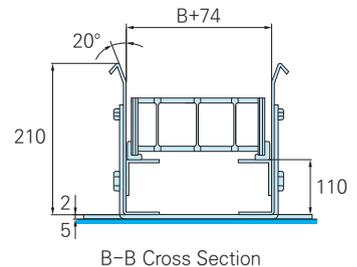
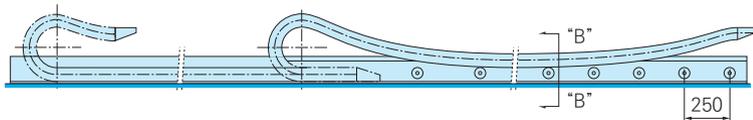


장거리 사용시 슬라이더를 부착하여 매끄럽고 부드럽게 주행  
 로보체인 링크 플레이트의 마모를 막아주고  
 슬라이더만 교체하여 오랜 기간 사용 가능

## Guide Rail



## Guide Roller

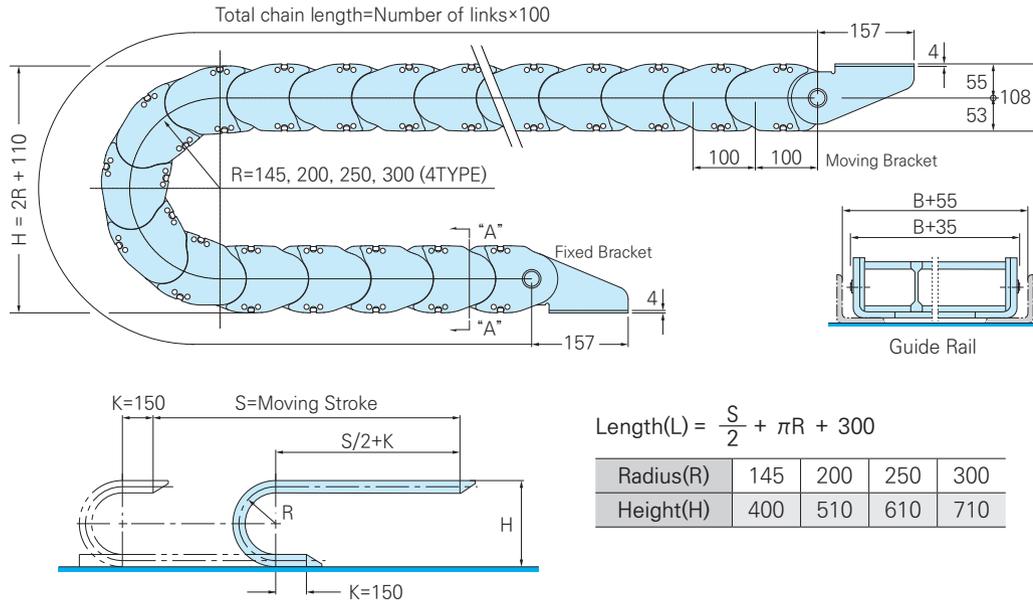


# HSSP100

## ORDER EXAMPLE

HSSP100 250R B200 D:3 4400L 3SETS  
 Type Radius Width Divider Length Q'ty

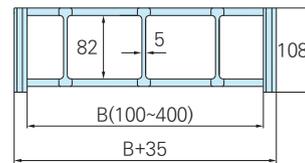
## Chain, Cross Section



## Divider

Cable/Hose dmax	Ø75				
Frame Dim. "B"	200	250	300	350	400
Divider(Standard)	2	3	3	4	4

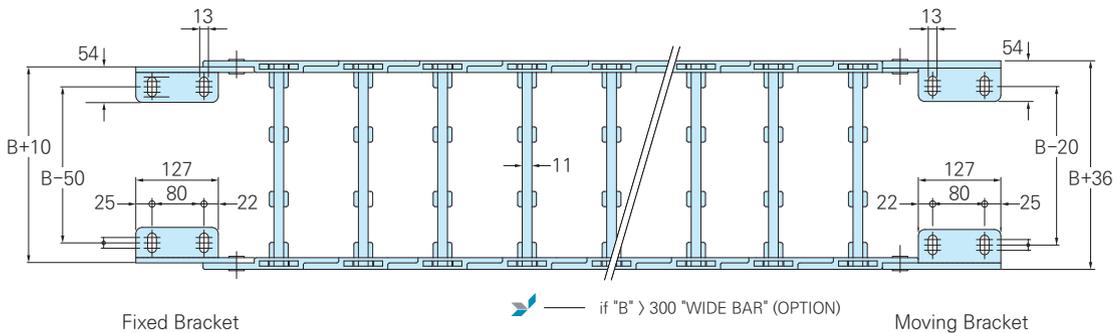
\* WIDE BAR: OPTION(B300 이상 WIDE BAR 권장)



A-A Cross Section

\* WIDE BAR 적용 시 내측 높이 78

## Brackets

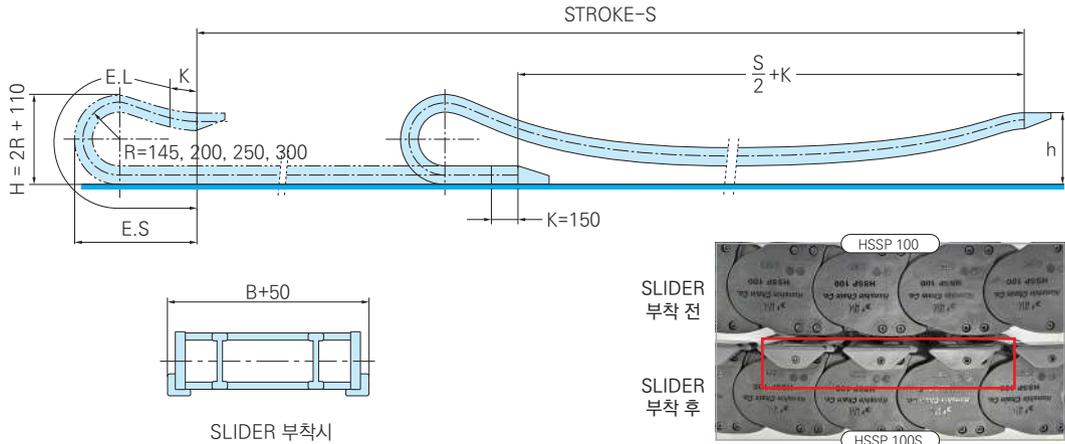


# HSSP100S (슬라이더 부착형)

ORDER EXAMPLE

HSSP100S 300R B300 D:3 24900L 3SETS  
 Type Radius Width Divider Length Q'ty

## Chain



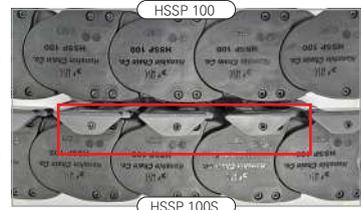
$$\text{Length}(L) = \frac{S}{2} + E.L + 300$$

Radius(R)	145	200	250	300
Height(H)	400	510	610	710
Moving Point Height(h)	300	300	300	300
Extra Length(E.L)	1400	1700	2300	2800
Extra Space(E.S)	730	850	1070	1300

- \* h: 역R 적용 시 취부 높이
- \* 역R 제품은 주문 전 영업부와 협의 바랍니다.

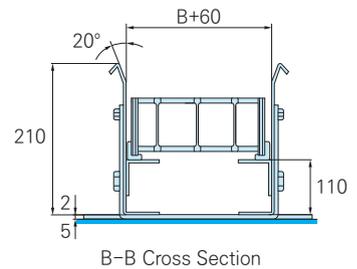
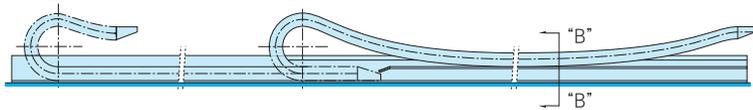
SLIDER  
부착 전

SLIDER  
부착 후

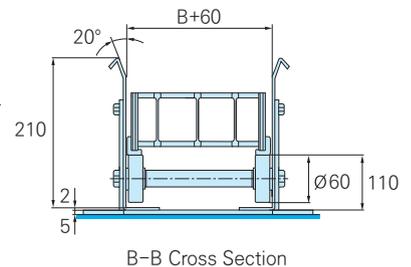
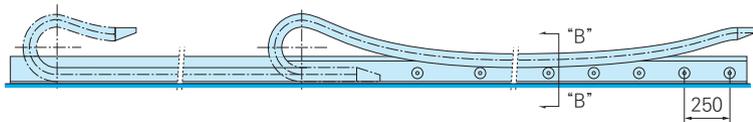


장거리 사용시 슬라이더를 부착하여 매끄럽고 부드럽게 주행  
 로보체인 링크 플레이트의 마모를 막아주고  
 슬라이더만 교체하여 오랜 기간 사용 가능

## Guide Rail



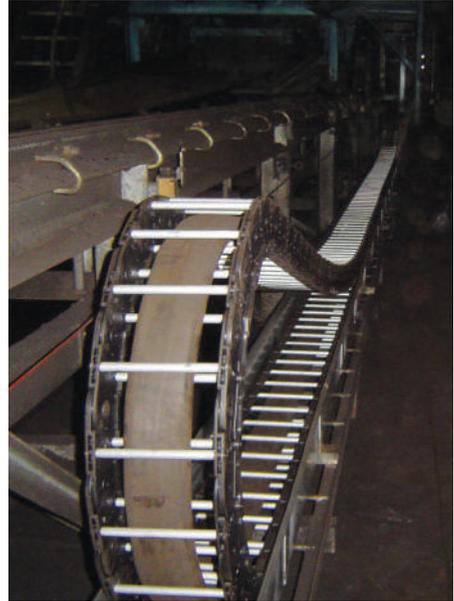
## Guide Roller



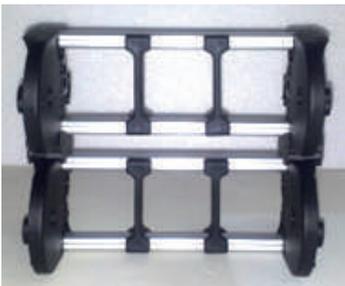
# HSSP Sliding



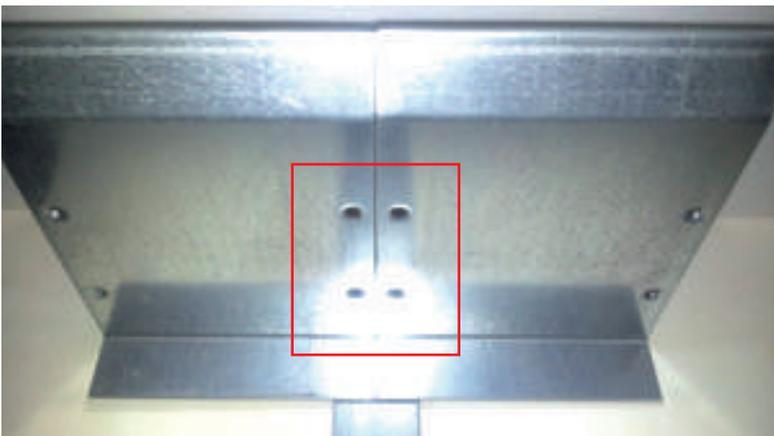
HSSP 095NS



HSSP 130S 400R B200 65000L



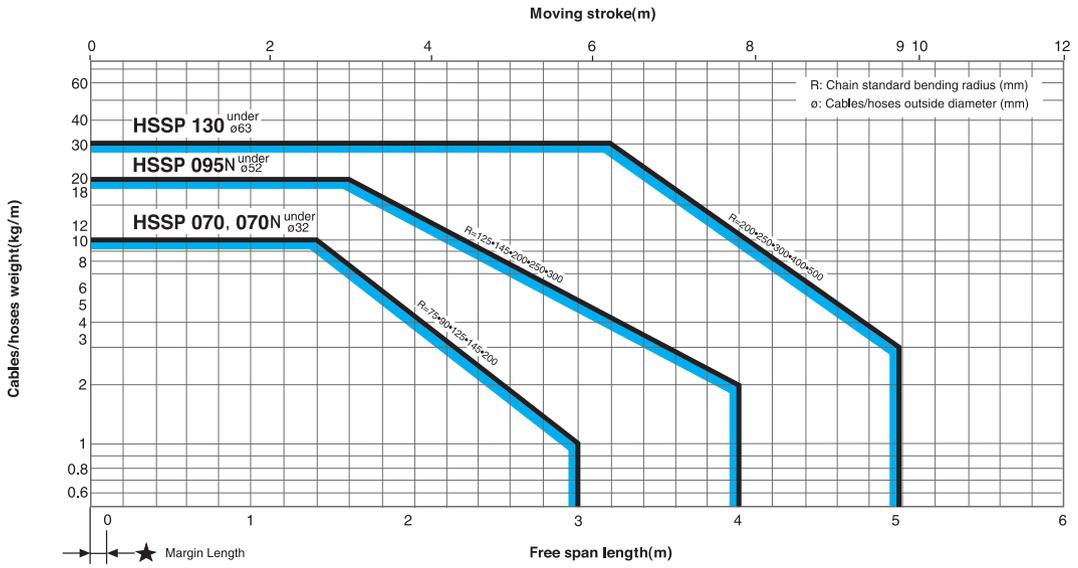
가이드 레일 여유 폭 과다 적용 시  
편 마모 및 끼임 발생으로 주의



로보체인이 주행하는 가이드 레일  
내부에는 볼트 머리 등의  
간섭&돌출부가 없어야 합니다.



# 능력선도 (HSSP) Capability Graph

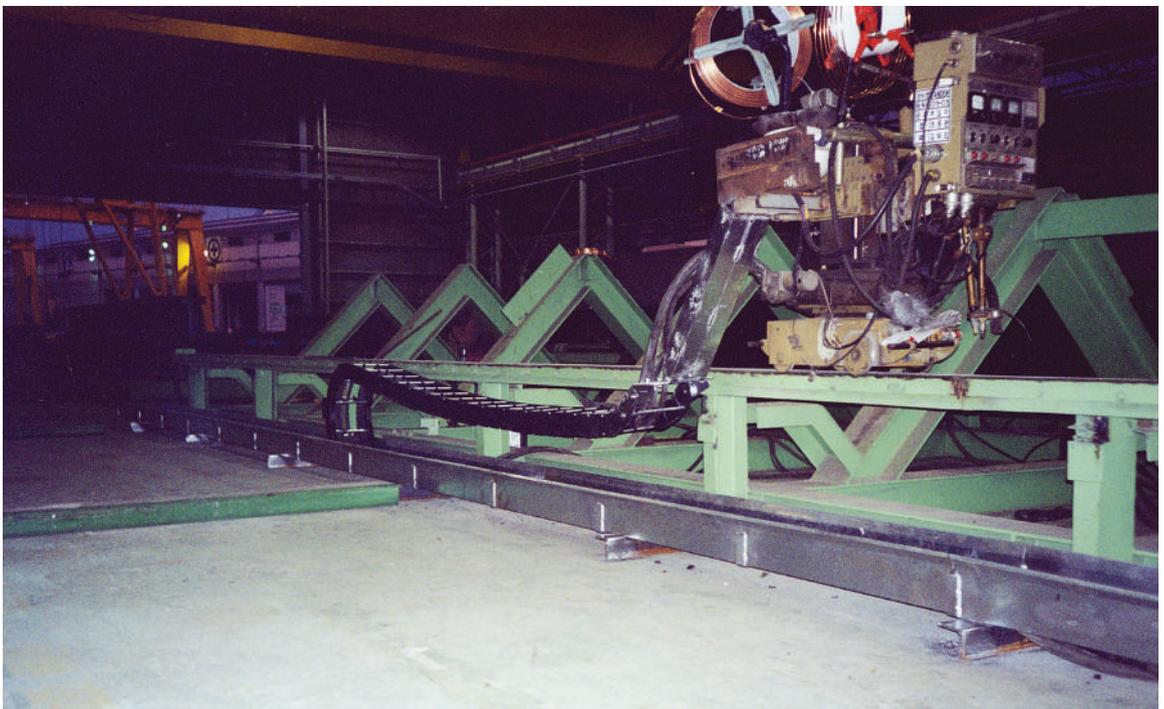


HSSP 095S

## 응용예 Application Examples



HSSP 095NS



HSSP 095N