



Helix chain[®]

Low Dust & Low Noise Type

Helix chain is rotation application cable chain for robot or rotation movement machine and it can protect the cable from outer risk by guiding and keeping the rotation track.

Helix chain은 로봇이나 회전기계등 과 같이 제한적인 공간에서 나선형 회전운동을 하는 케이블을 외부위험으로부터 보호하고 안전한 회전각도를 유도하고 유지시키는 역할을 하는 케이블체인이다.

How to select right Helix chain (올바른 히릭스체인 선택법)

The angle of rotation can be determined by the additional two angle if the machine elements can move both to the left and to the right via a circular track.

원형축을 따라 좌우양방향으로 움직이는 기계의 경우, 회전각도는 추가되는 두 각에 의해 결정된다.

It should be ensured at least 20% of chain's internal height & width for a cable clearance.

입선되는 케이블 직경의 최소 20% 정도의 체인 내부 공간이 필요하다.

Supporting Guide(체인 지지대)

In order to use the chain with correct function, the chain should be installed in specific position.

회전체인의 올바른 기능을 위해서는 체인이 정확한 위치에 장착되어야 하는 것이 필수적이다.

Regarding this point, supporting guide should be required, and it's available to create special supporting guide.

이와 관련하여 회전체인의 지지대가 필요로 하며 고객의 요구에 맞게 다양한 사이즈의 제작이 가능하다.

It is necessary to use the suitable accessories like supporting hook, supporting roller in order to support the chains if the rotation exceed 200°

200°를 초과하여 사용할 경우 지지를 위한 Supporting hook, Supporting roller와 같은 액세서리가 필요하다.

Steel End Bracket(브라켓)

The end bracket one set, consist of two steel bracket, can be attached to the end point of the chain with screw.

회전브라켓 1세트는 두개의 스틸브라켓으로 이루어지며 체인의 양쪽 끝부분 링크에 각각 부착된다.

When to use a Helix chain(히릭스체인 사용 필요)

Intend to use the cables & hoses on both sides. (전선관을 양방향으로 사용하고자 하는 경우)

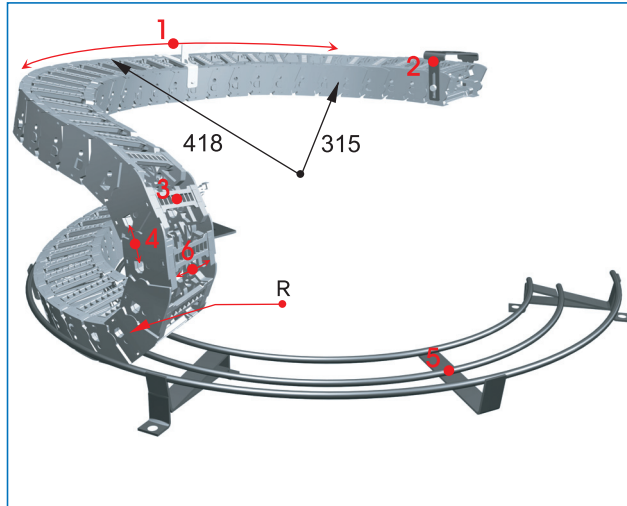
Intend to use the rotation speed up to 8m/sec. (회전속도가 8m/sec까지 사용하고자 할때)

When not to use a Helix chain(히릭스체인 사용 불가)

With application using rotational angles over 360°. (회전각도가 360° 이상 필요할 경우)

*For more detailed information, please contact CPS. (기타 자세한 사항은 본사로 문의요망.)

HX 3543



➤ Low Dust & Low Noise Screw Type chain

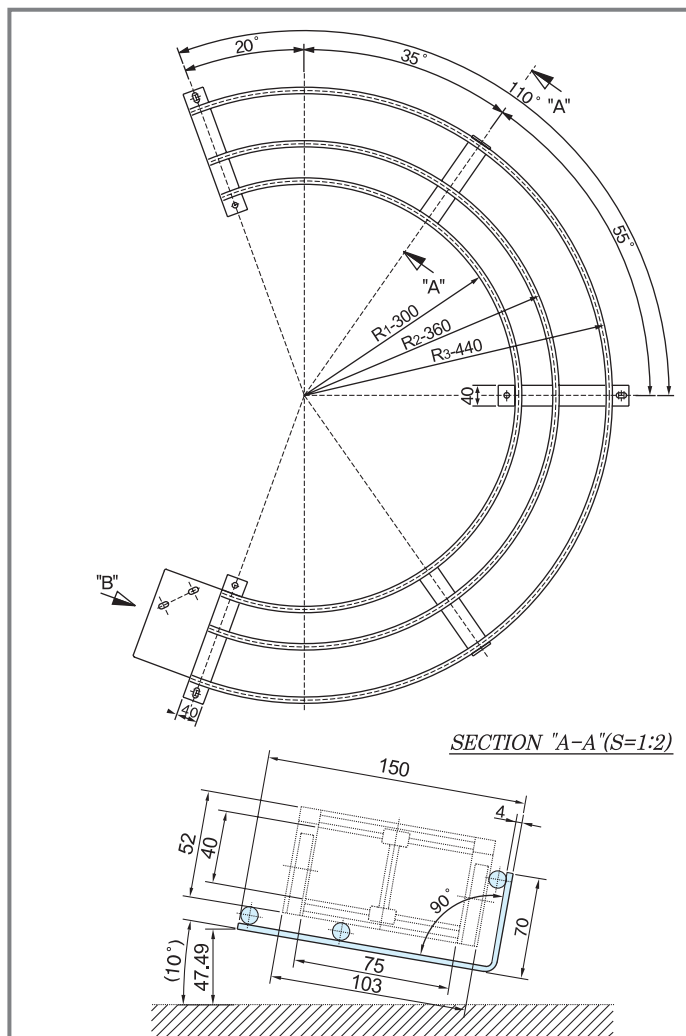
1. For spiral motion up to 360°
2. Steel End Bracket
3. Upside & Downside open frame
4. Pitch: 43mm
5. Guid channel
6. Chain inside width: 75mm

➤ Applications: Robot, rotation machine.

(dimensions in mm)

Bending Radius (R)	
125	160

Guid Channel



■ Calculate the required Number of Link of Link

$$N = \left(\frac{\pi \times Or \times B}{360^\circ \times P} \right) + \frac{Lp}{P}$$

- N = Number of Links
- Or = Outer Radius
- B = Rotation angle
- P = Chain pitch
- Lp = $\pi R + 6P$

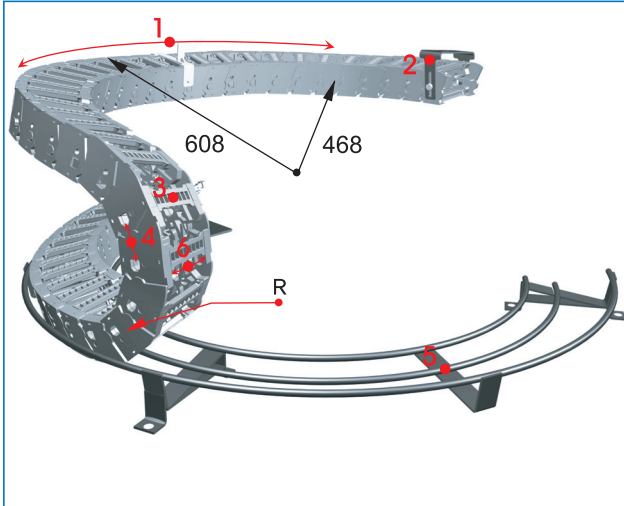
■ Ordering

HX3543.075 R125-1,000L:10ST

- ① ② ③ ④ ⑤

1. Chain Type
2. Inside Width
3. Bending radius(R)
4. Length(mm)
5. Q'ty(SET)

HX 6075



➔ Low Dust & Low Noise Screw Type chain

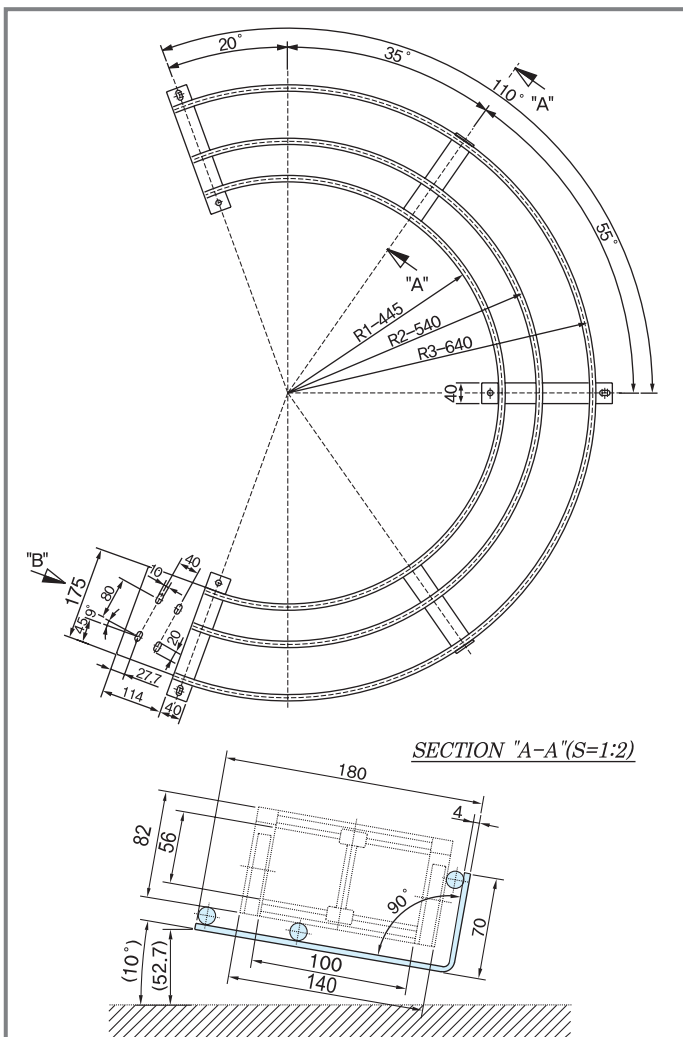
1. For spiral motion up to 360°
2. Steel End Bracket
3. Upside & Downside open frame
4. Pitch: 75mm
5. Guid channel
6. Chain inside width: 100mm

➔ Applications: Robot, rotation machine.

(dimensions in mm)

Bending Radius (R)			
110	135	185	235

Guid Channel



■ Calculate the required Number of Link

$$N = \left(\frac{\pi \times Or \times B}{360^\circ \times P} \right) + \frac{Lp}{P}$$

- N = Number of Links
- Or = Outer Radius
- B = Rotation angle
- P = Chain pitch
- Lp = $\pi R + 7P$

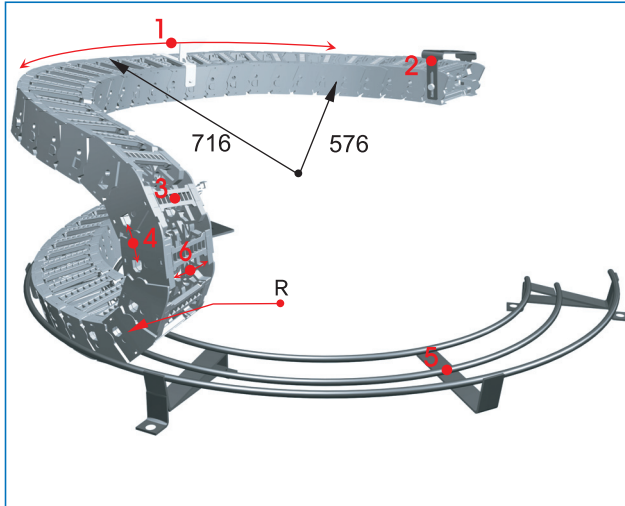
■ Ordering

HX6075.100.R110-1,000L:10ST

① ② ③ ④ ⑤

1. Chain Type
2. Inside Width
3. Bending radius(R)
4. Length(mm)
5. Qty(SET)

HX 6087



Low Dust & Low Noise Screw Type chain

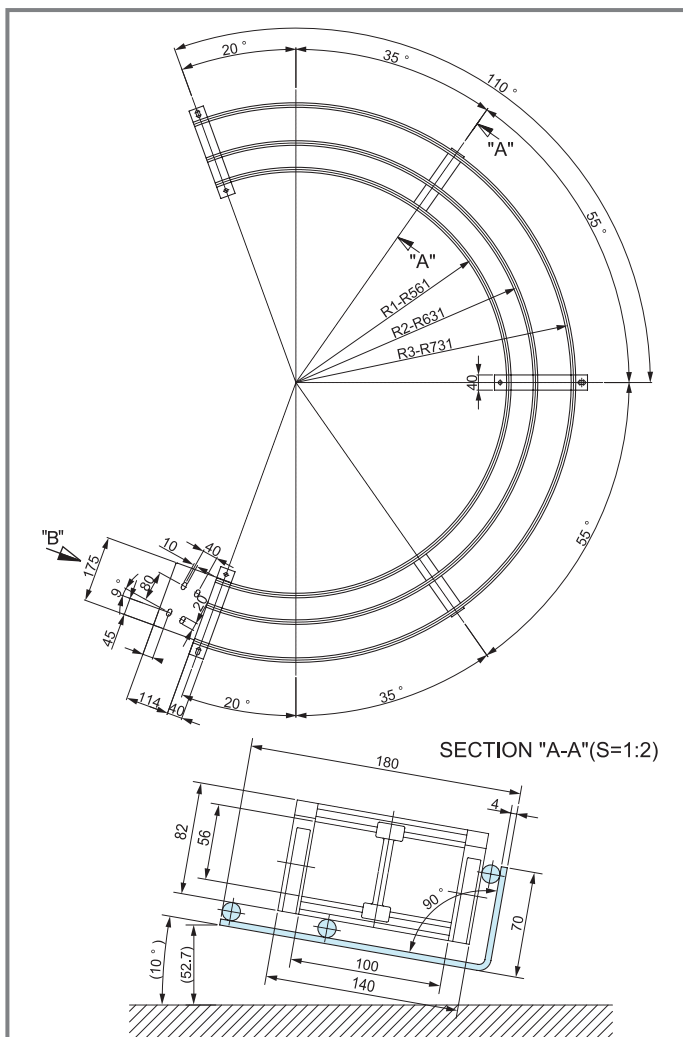
1. For spiral motion up to 360°
2. Steel End Bracket
3. Upside & Downside open frame
4. Pitch: 87mm
5. Guid channel
6. Chain inside width: 100mm

Applications: Robot, rotation machine.

(dimensions in mm)

Bending Radius (R)			
110	135	185	235

Guid Channel



Calculate the required Number of Link of Link

$$N = \left(\frac{\pi \times Or \times B}{360^\circ \times P} \right) + \frac{Lp}{P}$$

- N = Number of Links
- Or = Outer Radius
- B = Rotation angle
- P = Chain pitch
- Lp = $\pi R + 7P$

Ordering

HX6087.100.R110-1,000L:10ST

① ② ③ ④ ⑤

1. Chain Type
2. Inside Width
3. Bending radius(R)
4. Length(mm)
5. Q'ty(SET)