

2014 GENERAL CATALOGUE HELIX CHAIN

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HeliX chain

Low Dust & Low Noise Screw Type!

Helix Chain is applied to the application with a spiral rotary motion in limited space such as 360 degrees revolution robots, rotating machines, etc.

It plays roles of protecting cables from outside dangers and keeps the rotation angles safes.

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HOW TO ASSEMBLE HELIX CHAIN

- The angle of rotation can be determined by the additional two angles if the machine can move both to the left and to the right via a circular track.
- At least 20% of the inner height and width should be considered when calculating the cable clearance.

Supporting Guide.

- For most effective use, the chain should be installed in a specific position.
- For this reason, the CPS supporting carrier guide is needed and can be produced as a custom sized.
- In case of rotation over 200 degrees, suitable accessories like supporting hook and roller for self-supporting are necessary.



Bracket - Steel End Bracket.

One set of steel end bracket consists of two steel brackets and are inserted into each end of the chain.

Need to USE Helix Chain.

- Intend to use the cables & hoses on both sides.
- When the rotation speed up to 4m/sec.

Don't need to use Helix chain. • With application using rotation angle over 360.

*For more detailed information, please contact CPS.

Belix chain Low Dust & Low Noise Screw Type!

HX 3553



- 1 For spiral motion up to 360°
- **2** Steel End Bracket
- **③** Upside & Downside open frame
- 4 Pitch : 53mm
- **6** Guide channel
- 6 Chain inside width : 75mm
- Applications : Robot, Rotation Machine.
- Bending Radius (R)





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■ Calculate the required Number of Links

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N: Number of Links
Or: Outer Radius
B: Rotation angle
P: Chain pitch
Lp: π R+6p

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



Belix chain Low Dust & Low Noise Screw Type!

HX 6075



- For spiral motion up to 360°
- **2** Steel End Bracket
- **③** Upside & Downside open frame
- 4 Pitch : 75mm
- **6** Guide channel
- 6 Chain inside width : 100mm
- Applications : Robot, Rotation Machine.
- Bending Radius (R)
 (Dimensions in mm)

Bending Radius (R)				
110	135	185	235	



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HX 6075

HELIX CHAIN



N: Number of Links
Or: Outer Radius
B: Rotation angle
P: Chain pitch
Lp: π R+6p

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



Belix chain Low Dust & Low Noise Screw Type!

HX 6087



- 1 For spiral motion up to 360°
- **2** Steel End Bracket
- **3** Upside & Downside open frame
- 4 Pitch : 87mm
- **6** Guide channel
- 6 Chain inside width : 100mm
- Applications : Robot, Rotation Machine.
- Bending Radius (R)
 (Dimensions in mm)

Bending Radius (R)				
110	135	185	235	



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HELIX CHAIN



