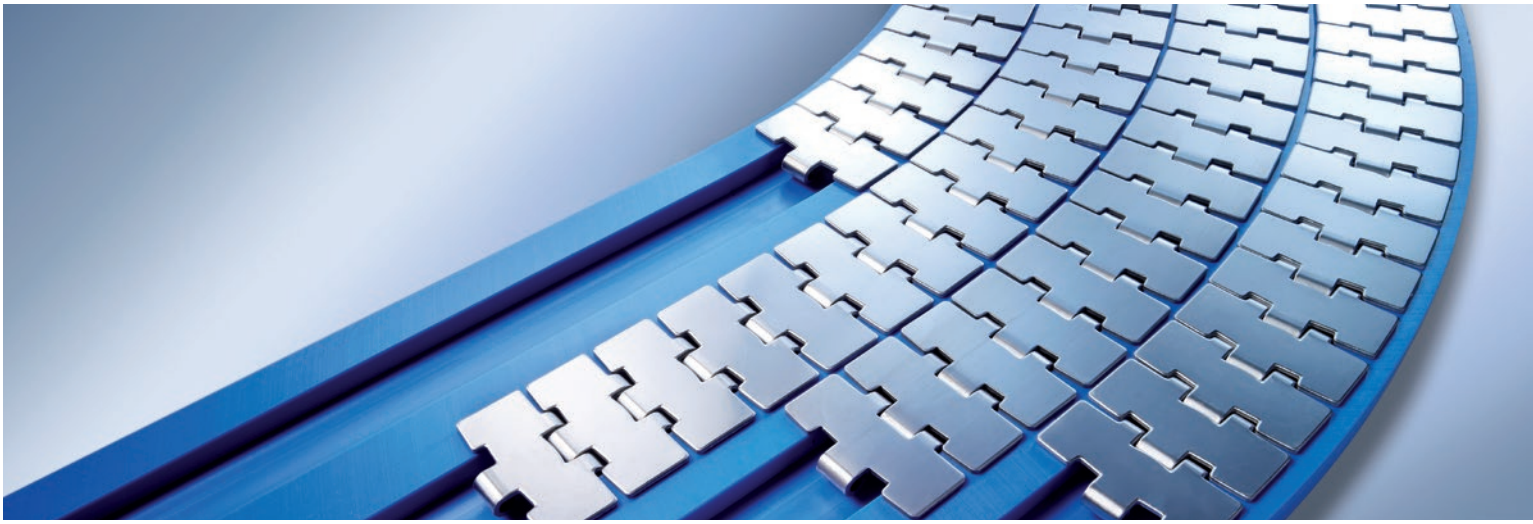
iwis
antriebssysteme
wir bewegen die welt



FLEXON

Maxxtop Magnetic Radial Corner Bends

Improved reliability with reduced pulsation

Having optimized magnet fluxes around the curve layout, the new generation of FLEXON Maxxtop Magnetic corner tracks from **iwis** virtually eliminates pulsation and can help reduce tensile forces in our curves by up to 60 %.

FLEXON Maxxtop highlights

- Up to 60 % less tensile force than previous magnetic corner tracks
  - ⇢ Reduced power consumption
  - ⇢ Guaranteed energy saving
  - ⇢ Possibility of longer conveyors reducing cost
  - ⇢ Reduced chain wear
- Reduced pulsation increases product stability
- Quieter operation improves environmental conditions for employees
- Excellent friction co-efficient properties reduces chain wear
- Excellent material quality offers longer service life
- FLEXON Maxxtop Magnetic corner tracks are available in all standard sizes
- FLEXON Maxxtop Magnetic corner tracks can be manufactured to drawings

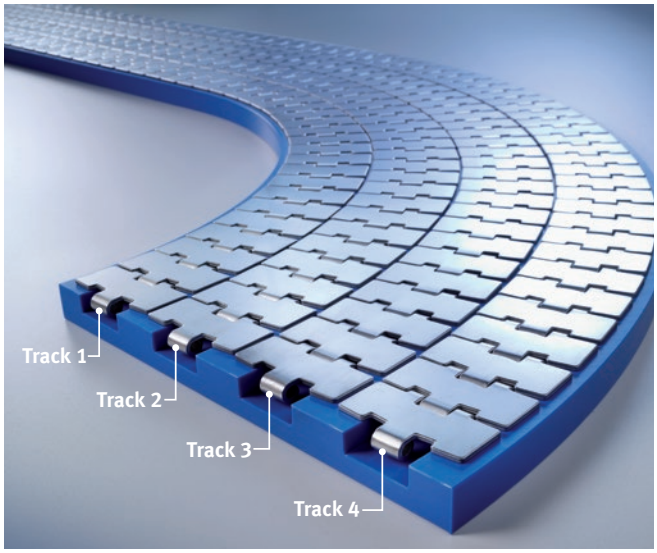
NEW DEVELOPMENT

www.iwis.com

FLEXON Magnetic corner tracks without pulsation

What is pulsation?

Pulsation or sometimes commonly known as “Stick-slip” is a phenomenon that occurs when a flat top chain is pulled around a magnetic corner track.
The pins in the flat top chain are attracted by the pairs of magnets provided to hold the chain in the curve. As the pins pass into the next magnetic field, the chain sticks very briefly then slips in the track. This pulsation effect can be so pronounced that vibra-tion is transmitted to the goods being conveyed. This in turn can cause products to fall over or create other problems.



What magnetic corner tracks were tested?

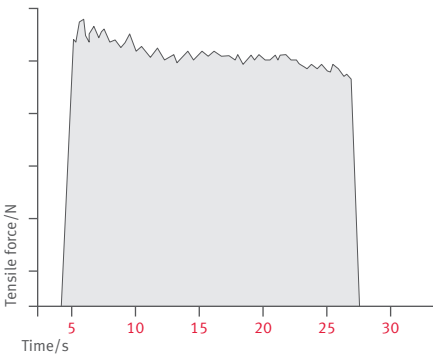
In our laboratory we tested magnetic corner tracks from well-known manufacturers for retaining force, slip-stick, and required tensile force in the curve. All tests were carried out on curved sections with four tracks.

Test results

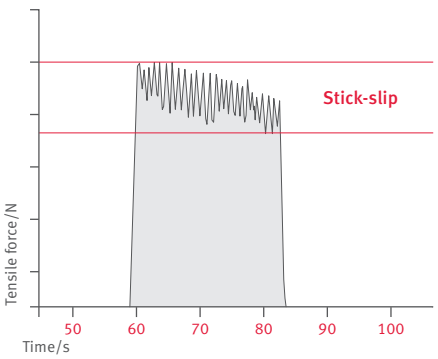
Our tests showed that FLEXON Maxxtop magnetic corner tracks exhibit the lowest pulsation. On competitors’ curves we measured varying tensile and retaining forces in the different tracks. On all our competitors’ curves, the forces decreased as the length of the track increased. By contrast, with the new FLEXON magnetic corner tracks the tensile and retaining forces remained virtually con-stant in all the tracks.

This innovation has been patented by iwis.

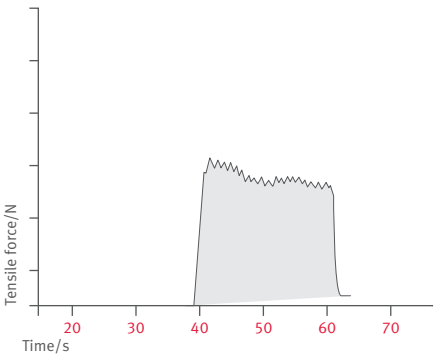
Competitor 1: Track 2



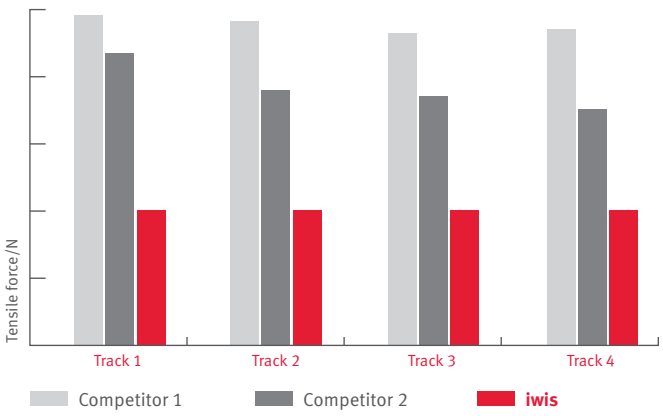
Competitor 2: Track 2



iwis FLEXON magnetic corner track: Track 2



Comparison of force required in the individual tracks

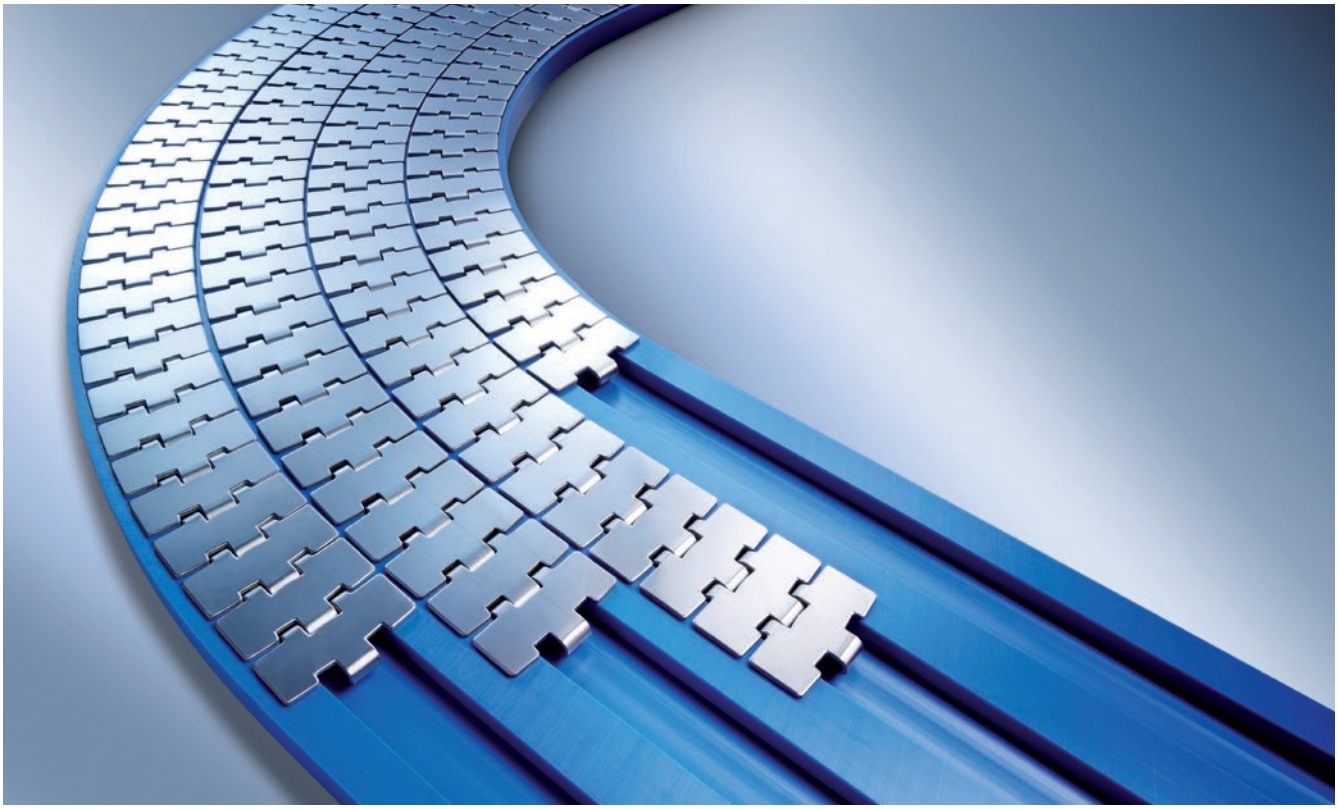


Results:

The measurements for the individual tracks were compared across all the curves tested. The difference between the various curves is clearly illustrated by track 2 for example.

The chart on the left shows the total force required for each track.
Competitors‘ curves show the greatest force is required in track 1, and the least in track 4. With a FLEXON Maxxtop magnetic corner track from iwis, the value remains constant across all tracks.

Innovation in magnetic corner tracks



How does iwis eliminate pulsation in its new FLEXON Maxxtop magnetic corner tracks?

- By improving the magnetic field layout
- By altering the magnetic field strength
- By increasing the size of the magnetic field

How do FLEXON Maxxtop magnetic corner tracks achieve the same tensile and retaining forces in every track?

- By arranging the magnets depending on the length of the curved track

Product range
FLEXON Maxxtop magnetic corner tracks are available for all common flat top chains, radii and angles. The range also includes standard TAB and Bevel curves.

BENEFITS OF FLEXON MAGNETIC CORNER TRACKS:

Less force required
=
longer conveyor lines possible
=
fewer transfer stations required
=
fewer potential hazard areas

Less force required
=
reduced chain wear
=
reduced curve wear
=
reduced drive power
=
additional energy saving potential
=
lower costs

Naturally we can also manufacture magnetic corner tracks individually to customer drawings.
Our technical department is happy to receive inquiries on **+49 2739-8671**.

Our subsidiaries

Germany

iwis antriebssysteme GmbH & Co. KG
Albert-Roßhaupter-Straße 53
81369 München
Tel. +49 89 76909-1500
Fax +49 89 76909-1198
sales@iwis.com

Germany

iwis antriebssysteme GmbH
Essener Straße 23
57234 Wilnsdorf
Tel. +49 2739 86-0
Fax +49 2739 86-22
sales-wilnsdorf@iwis.com

Germany

iwis agrisystems
Schützenweg 5
36205 Sontra
Tel. +49 5653 9778-0
Fax +49 5653 9778-26
agrisystems@iwis.com

UK

iwis drive systems Ltd.
Unit 8c Bloomfield Park
Bloomfield Road, Tipton
West Midlands, DY4 9AP
Tel. +44 12 15213600
Fax +44 12 15200822
salesuk@iwis.com

France

iwis systèmes de transmission
10, rue du Luxembourg
69330 Meyzieu
Tel. +33 4374515-70
Fax +33 4374515-71
salesfr@iwis.com

Switzerland

iwis AG Kettentechnik
Bahnweg 4 (Postfach)
5504 Othmarsingen
Tel. +41 62 8898999
Fax +41 62 8898990
info@iwis-ketten.ch

Italy

iwis antriebssysteme Italia
Tel. +39 340 9296142
Fax +49 89 76909 491647
salesit@iwis.com

China

iwis drive systems (Suzhou) Co. Ltd.
66 Lijiang Road (Building of company
Evergood) No. 369 Luji Road
215153 Suzhou, China
Tel. +86 512 8566 3001
salescn@iwis.com

USA

iwis drive systems, LLC
Building 100, 8266 Zionsville Road
Indianapolis, IN 46268 USA
Tel. +1 317 821-3539
Fax +1 317 821-3569
sales@iwisusa.com

Canada

iwis drive systems, Inc.
#1- 19349- 94th ave
Surrey B.C. V4E 4E6
Tel. +1 778-298-3622
Fax +1 778-298-7219
salesca@iwisusa.com

Brazil

iwis Sistemas de Transmissão
de Energia Mecânica Ltda.
R. Bento Rosa, 776
Bairro Hidraulica
95.900-000 Lajeado, RS
salesbrazil@iwis.com

South Africa

iwis drive systems (Pty) Ltd
unit 3, 127 Koornhof Road
Meadowdale 1614
Phone(011) 392- 2306/7
Fax (011) 392-3295
salessa@iwis.com

Turkey

iwis antriebssysteme GmbH & Co. KG
Türkiye Istanbul İrtibat Bürosu
Tel. +90 543 554 3483
salestr@iwis.com

www.iwis.com

iwis
antriebssysteme
wir bewegen die welt

Your sales representative