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
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 vibration 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 constant in all the tracks. This innovation has been patented by iwis.

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.
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:**

<table>
<thead>
<tr>
<th>Less force required</th>
<th>Less force required</th>
</tr>
</thead>
<tbody>
<tr>
<td>= longer conveyor lines possible</td>
<td>= reduced chain wear</td>
</tr>
<tr>
<td>= fewer transfer stations required</td>
<td>= reduced curve wear</td>
</tr>
<tr>
<td>= fewer potential hazard areas</td>
<td>= reduced drive power</td>
</tr>
<tr>
<td></td>
<td>= additional energy saving potential</td>
</tr>
<tr>
<td></td>
<td>= lower costs</td>
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</tbody>
</table>

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