Product range

Roller chains for drive and conveyor purposes

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The iwis brand world

We always keep the diversity of customer requirements in focus and strive to keep things moving worldwide with outstanding brands, innovative product developments and first-class design solutions individually tailored to the needs of our customers. The product brand Eurochain (EC) offers a specially coordinated product range at an excellent price-performance ratio for a wide variety of applications.

Highlights

- EC roller chains have significantly improved fatigue strength and breaking strength values that surpass the minimum requirements of standard DIN ISO 606.
- All EC chains are subject to quality control, continuous testing and improvement in accordance with the high standards of ISO 9001.
- Guaranteed high quality for the entire EC product range.
- Rapid Service for standard roller chains: delivery possible from stock at short notice within 24 hours.
- Roller chains with attachments: adaptation and customized manufacturing also possible at short notice. Roller chains with bent attachments, straight attachments and extended pins can be individually made to customer requirements at our Competence Center in Wilnsdorf.
- High flexibility and availability

EC specifications

- EC bushes are absolutely cylindrical and mostly seamless, depending on chain type. Special wound versions also available.
- EC chain plates have optimized dimensions, are precisely formed, hardened and tempered for greater durability. The plates are also blue-annealed.
- EC pins have a smooth, high-strength wear-optimized surface.
- EC rollers are manufactured as seamless solid cylinders; a special surface treatment process ensures high wear resistance.
- Clearly defined grades of heat-treated and case-hardened steel alloys are used for all chain components.
- Initial lubricant is EL-4
- Various initial lubricants are possible, depending on application requirements.
- Pair-matched chains of equal length can also be supplied.

Product overview

- British and ANSI standard roller chains
- Nickel-plated roller chain versions
- Roller chains with straight attachments
- Roller chains with narrow bent and straight attachments
- Roller chains with wide bent and straight attachments
- Roller chains with extended pins
- Side bow chains
- Push-pull (anti-backbend) chains on request
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12  Side bow chains for transporting, conveying, pulling on curved shape tracks
### Roller Chains according to ISO 606 (DIN 8187), British Standard

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<sup>1</sup> Only with straight side plates  
<sup>2</sup> *a* = conn. link with spring clip  
<sup>3</sup> Heavy version  
<sup>4</sup> Chain is no longer listed in ISO 606:2015.
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\( a = \text{conn. link with spring clip} \)
### Roller chains with straight side plates

Roller chains according to ISO 606 (DIN 8187), British standard

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2 a = conn. link with spring clip
## Roller chains – nickel-plated series

based on EC roller chains according to ISO 606 (DIN 8187)

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<th>Outer link</th>
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<th>Pin length ( a_1 ) max. (mm)</th>
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<th>Bearing area ( f ) (cm²)</th>
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<td>8.28</td>
<td>31.88</td>
</tr>
<tr>
<td>20 B-1</td>
<td>EC-20-M</td>
<td>31.75</td>
<td>1 1/4</td>
<td>95,000</td>
<td>2.96</td>
<td>3.72</td>
<td>19.56</td>
<td>29.01</td>
<td>26.42</td>
<td>43.2</td>
<td>49.3</td>
<td>19.05</td>
<td>10.19</td>
<td>36.45</td>
</tr>
<tr>
<td>20 B-2</td>
<td>EC-20-D</td>
<td>31.75</td>
<td>1 1/4</td>
<td>170,000</td>
<td>5.91</td>
<td>7.56</td>
<td>19.56</td>
<td>29.01</td>
<td>26.42</td>
<td>79.7</td>
<td>85.8</td>
<td>19.05</td>
<td>10.19</td>
<td>36.45</td>
</tr>
<tr>
<td>24 B-1</td>
<td>EC-24-M</td>
<td>38.10</td>
<td>1 1/2</td>
<td>160,000</td>
<td>5.55</td>
<td>6.97</td>
<td>25.40</td>
<td>37.92</td>
<td>33.4</td>
<td>53.4</td>
<td>60.0</td>
<td>25.40</td>
<td>14.63</td>
<td>48.36</td>
</tr>
<tr>
<td>24 B-2</td>
<td>EC-24-D</td>
<td>38.10</td>
<td>1 1/2</td>
<td>280,000</td>
<td>11.1</td>
<td>13.81</td>
<td>25.40</td>
<td>37.92</td>
<td>33.4</td>
<td>101.8</td>
<td>108.4</td>
<td>25.40</td>
<td>14.63</td>
<td>48.36</td>
</tr>
</tbody>
</table>

<sup>1</sup> Only with straight side plates  
<sup>2</sup> \( a \) = conn. link with spring clip
**Roller chains with straight side plates – nickel-plated series**

according to ISO 606 (DIN 8187)

<table>
<thead>
<tr>
<th>ISO</th>
<th>iwis designation</th>
<th>Pitch p</th>
<th>Inner link</th>
<th>Outer link</th>
<th>Article No.</th>
<th>Min. tensile strength FU (N)</th>
</tr>
</thead>
<tbody>
<tr>
<td>08 B-1</td>
<td>EC-8-M</td>
<td>12.70 2</td>
<td>0.74</td>
<td>11.30</td>
<td>11.81</td>
<td>17.0</td>
</tr>
<tr>
<td>08 B-2</td>
<td>EC-8-D</td>
<td>12.70 2</td>
<td>1.45</td>
<td>11.30</td>
<td>11.81</td>
<td>31.0</td>
</tr>
<tr>
<td>10 B-1</td>
<td>EC-10-M</td>
<td>15.875 5/8</td>
<td>1.01</td>
<td>13.28</td>
<td>14.73</td>
<td>19.6</td>
</tr>
<tr>
<td>10 B-2</td>
<td>EC-10-D</td>
<td>15.875 5/8</td>
<td>2.04</td>
<td>13.28</td>
<td>14.73</td>
<td>36.2</td>
</tr>
<tr>
<td>12 B-1</td>
<td>EC-12-M</td>
<td>19.05 3/4</td>
<td>1.27</td>
<td>11.68</td>
<td>15.62</td>
<td>16.13</td>
</tr>
<tr>
<td>12 B-2</td>
<td>EC-12-D</td>
<td>19.05 3/4</td>
<td>2.51</td>
<td>11.68</td>
<td>15.62</td>
<td>42.2</td>
</tr>
</tbody>
</table>

\[a = \text{conn. link with spring clip}\]
Roller chains with extended pins
based on EC roller chains according to ISO 606 (DIN 8187)

<table>
<thead>
<tr>
<th>Ø</th>
<th>iwis designation</th>
<th>mm</th>
<th>inch</th>
<th>Pitch p</th>
<th>Inner link</th>
<th>Pin length</th>
<th>Pin extension length</th>
</tr>
</thead>
<tbody>
<tr>
<td>06 B-1</td>
<td>EC-6-M</td>
<td>9.525</td>
<td>3/8</td>
<td>8,900</td>
<td>5.72</td>
<td>8.53</td>
<td>6.35</td>
</tr>
<tr>
<td>08 B-1</td>
<td>EC-8-M</td>
<td>12.70</td>
<td>1/2</td>
<td>17,800</td>
<td>7.75</td>
<td>11.30</td>
<td>8.51</td>
</tr>
<tr>
<td>10 B-1</td>
<td>EC-10-M</td>
<td>15.875</td>
<td>5/8</td>
<td>22,200</td>
<td>9.65</td>
<td>13.28</td>
<td>10.16</td>
</tr>
<tr>
<td>12 B-1</td>
<td>EC-12-M</td>
<td>19.05</td>
<td>3/4</td>
<td>28,900</td>
<td>11.68</td>
<td>15.62</td>
<td>12.07</td>
</tr>
<tr>
<td>16 B-1</td>
<td>EC-16-M</td>
<td>25.40</td>
<td>1</td>
<td>60,000</td>
<td>17.02</td>
<td>25.45</td>
<td>21.08</td>
</tr>
</tbody>
</table>

1 Only with straight side plates

Roller chains with U-shaped attachments
based on EC roller chains ISO 606 (DIN 8187)
with U-shaped attachments: 3030.2 and 3030.9

<table>
<thead>
<tr>
<th>iwis designation</th>
<th>Pitch p (mm)</th>
<th>max b (mm)</th>
<th>s max (mm)</th>
<th>c (mm)</th>
<th>d (mm)</th>
<th>h (mm)</th>
<th>k (mm)</th>
<th>s (mm)</th>
<th>Attachment 3030.2</th>
<th>Attachment 3030.9</th>
</tr>
</thead>
<tbody>
<tr>
<td>EC-8-M</td>
<td>12.70</td>
<td>19.5</td>
<td>22.0</td>
<td>8.3</td>
<td>4.48</td>
<td>14.5</td>
<td>4.0</td>
<td>1.3</td>
<td>40003131</td>
<td>40003134</td>
</tr>
<tr>
<td>EC-10-M</td>
<td>15.875</td>
<td>38.9</td>
<td>40.8</td>
<td>10.5</td>
<td>5.15</td>
<td>33.0</td>
<td>2.5</td>
<td>1.3</td>
<td>40003443</td>
<td>40003447</td>
</tr>
<tr>
<td>EC-12-M</td>
<td>19.05</td>
<td>45.4</td>
<td>47.5</td>
<td>12.0</td>
<td>5.79</td>
<td>39.0</td>
<td>7.5</td>
<td>1.8</td>
<td>40003444</td>
<td>40003447</td>
</tr>
<tr>
<td>EC-16-M</td>
<td>25.40</td>
<td>39.3</td>
<td>40.9</td>
<td>15.4</td>
<td>8.40</td>
<td>30.0</td>
<td>6.0</td>
<td>1.8</td>
<td>40003135</td>
<td>40003130</td>
</tr>
</tbody>
</table>

Cover material: elastomer, hardness 60-65 shore, acid resisting, non-abrasive, temperature up to 90 °C, heat-resistant, colour white

**CHAIN WIDTH**

U-shaped attachments are mounted between inner and outer plates. The chain width increases therefore in comparison to standard chains.
# Roller chains with narrow bent and straight attachment plates

Based on EC roller chains according to ISO 606 (DIN 8187)

<table>
<thead>
<tr>
<th>ISO</th>
<th>iwis designation</th>
<th>mm</th>
<th>inch</th>
<th>Min. tensile strength</th>
<th>Min. link width</th>
<th>Inner link width</th>
<th>Plate length</th>
<th>B 1 max. (mm)</th>
<th>Plate width</th>
<th>f (mm)</th>
<th>l (mm)</th>
<th>s (mm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>06 B-1</td>
<td>EC-6-M¹</td>
<td>9.525</td>
<td>3/8</td>
<td>8,900</td>
<td>5.72</td>
<td>8.53</td>
<td>8.26</td>
<td>6.35</td>
<td>9</td>
<td>13.8</td>
<td>6.5</td>
<td>3.5</td>
</tr>
<tr>
<td>08 B-1</td>
<td>EC-8-M</td>
<td>12.70</td>
<td>1/2</td>
<td>17,800</td>
<td>7.75</td>
<td>11.30</td>
<td>11.81</td>
<td>8.51</td>
<td>14.7</td>
<td>20.3</td>
<td>10</td>
<td>4.5</td>
</tr>
<tr>
<td>10 B-1</td>
<td>EC-10-M</td>
<td>15.875</td>
<td>5/8</td>
<td>22,200</td>
<td>9.65</td>
<td>13.28</td>
<td>14.73</td>
<td>10.16</td>
<td>17.2</td>
<td>26.7</td>
<td>10</td>
<td>5.5</td>
</tr>
<tr>
<td>12 B-1</td>
<td>EC-12-M</td>
<td>19.05</td>
<td>3/4</td>
<td>28,900</td>
<td>11.68</td>
<td>15.62</td>
<td>16.13</td>
<td>12.07</td>
<td>18.7</td>
<td>29</td>
<td>11</td>
<td>6.6</td>
</tr>
<tr>
<td>16 B-1</td>
<td>EC-16-M</td>
<td>25.40</td>
<td>1</td>
<td>60,000</td>
<td>17.02</td>
<td>25.45</td>
<td>21.08</td>
<td>15.88</td>
<td>28.6</td>
<td>41.5</td>
<td>18</td>
<td>9</td>
</tr>
</tbody>
</table>

¹ Only with straight side plates  
² Other dimensions are available on request

---

**A**

Bent attachment plate on one side

EC-2020.1

**B**

Bent attachment plates on both sides

EC-2020.1

**D**

Attachment plate on one side

EC-1020.1

**E**

Attachment plate on both sides

EC-1020.1
Roller chains with wide bent and straight attachment plates
based on EC roller chains according to ISO 606 (DIN 8187)

<table>
<thead>
<tr>
<th>EO</th>
<th>iwis designation</th>
<th>pitches</th>
<th>inner link</th>
<th>dimensions of attachments</th>
</tr>
</thead>
<tbody>
<tr>
<td>06 B-1</td>
<td>EC-6-M(^1)</td>
<td>9.525 mm/3/8</td>
<td>8,900</td>
<td>5.72</td>
</tr>
<tr>
<td>08 B-1</td>
<td>EC-8-M</td>
<td>12.70 mm/1/2</td>
<td>17,800</td>
<td>7.75</td>
</tr>
<tr>
<td>10 B-1</td>
<td>EC-10-M</td>
<td>15.875 mm/5/8</td>
<td>22,200</td>
<td>9.65</td>
</tr>
<tr>
<td>12 B-1</td>
<td>EC-12-M</td>
<td>19.05 mm/3/4</td>
<td>28,900</td>
<td>11.68</td>
</tr>
<tr>
<td>16 B-1</td>
<td>EC-16-M</td>
<td>25.40 mm/1</td>
<td>60,000</td>
<td>17.02</td>
</tr>
</tbody>
</table>

\(^1\) Only with straight side plates  \(^2\) other dimensions are available on request

A2
Bent attachment plate on one side
EC-2030.2

B2
Bent attachment plate on both sides
EC-2030.2

D2
Attachment plate on one side
EC-1030.2

E2
Attachment plate on both sides
EC-1030.2
### Roller Chains

Roller chains according to ISO 606 (DIN 8188), ANSI standard

<table>
<thead>
<tr>
<th>ISO</th>
<th>ANSI designation</th>
<th>Pitch p</th>
<th>Outer width</th>
<th>Breaking strength (F, kB)</th>
<th>Weight (kg/m)</th>
<th>Outer links available</th>
<th>Article No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>08 A-1</td>
<td>ANSI 40-1</td>
<td>EC-8-M-A</td>
<td>12.70</td>
<td>1/2</td>
<td>17,600</td>
<td>13,900</td>
<td>0.60</td>
</tr>
<tr>
<td>10 A-1</td>
<td>ANSI 50-1</td>
<td>EC-10-M-A</td>
<td>15.875</td>
<td>5/8</td>
<td>28,000</td>
<td>21,800</td>
<td>1.01</td>
</tr>
<tr>
<td>10 A-1</td>
<td>ANSI 50-1 GL</td>
<td>EC-10-M-A GL</td>
<td>15.875</td>
<td>5/8</td>
<td>28,000</td>
<td>21,800</td>
<td>1.01</td>
</tr>
<tr>
<td>12 A-1</td>
<td>ANSI 60-1</td>
<td>EC-12-M-A</td>
<td>19.05</td>
<td>3/4</td>
<td>39,000</td>
<td>31,300</td>
<td>1.42</td>
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<tr>
<td>12 HA-1</td>
<td>ANSI 60-1 H</td>
<td>EC-12-M-AH</td>
<td>19.05</td>
<td>3/4</td>
<td>44,000</td>
<td>31,300</td>
<td>1.72</td>
</tr>
<tr>
<td>16 A-1</td>
<td>ANSI 80-1</td>
<td>EC-16-M-A</td>
<td>25.40</td>
<td>1</td>
<td>64,000</td>
<td>55,600</td>
<td>2.63</td>
</tr>
<tr>
<td>16 A-1</td>
<td>ANSI 80-1 GL</td>
<td>EC-16-M-A GL</td>
<td>25.40</td>
<td>1</td>
<td>64,000</td>
<td>55,600</td>
<td>2.63</td>
</tr>
<tr>
<td>16 HA-1</td>
<td>ANSI 80-1 H</td>
<td>EC-16-M-AH</td>
<td>25.40</td>
<td>1</td>
<td>81,500</td>
<td>55,600</td>
<td>3.08</td>
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<tr>
<td>08 A-2</td>
<td>ANSI 40-2</td>
<td>EC-8-D-A</td>
<td>12.70</td>
<td>1/2</td>
<td>35,000</td>
<td>27,800</td>
<td>1.18</td>
</tr>
<tr>
<td>10 A-2</td>
<td>ANSI 50-2</td>
<td>EC-10-D-A</td>
<td>15.575</td>
<td>5/8</td>
<td>54,000</td>
<td>43,600</td>
<td>1.99</td>
</tr>
<tr>
<td>12 A-2</td>
<td>ANSI 60-2</td>
<td>EC-12-D-A</td>
<td>19.05</td>
<td>3/4</td>
<td>78,000</td>
<td>62,600</td>
<td>2.90</td>
</tr>
<tr>
<td>16 A-2</td>
<td>ANSI 80-2</td>
<td>EC-16-D-A</td>
<td>25.40</td>
<td>1</td>
<td>136,000</td>
<td>111,200</td>
<td>5.21</td>
</tr>
</tbody>
</table>

1 a = conn. link with spring clip  
2 Heavy version

### Side Bow Chains

Side bow chains

Transporting, conveying and pulling on curved shape tracks

<table>
<thead>
<tr>
<th>ISO</th>
<th>ANSI designation</th>
<th>Pitch p</th>
<th>Outer width</th>
<th>Breaking strength (F, kB)</th>
<th>Weight (kg/m)</th>
<th>Outer links available</th>
<th>Article No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>08 B-1</td>
<td>EC-8-M SB</td>
<td>12.7</td>
<td>1/2</td>
<td>16.8</td>
<td>17.8</td>
<td>9,500</td>
<td>1,800</td>
</tr>
</tbody>
</table>

### Chain Components and Connecting Links

- Nr. 2 Inner links
- Standard designation B
- Nr. 4 Connecting link with split pin fastening
- Standard designation S
- Nr. 8 Outer link
- Standard designation A
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Spike chains

Gripketten
Grip chains

Scharnierbandketten
Flat Top chains

Rollen- und Förderketten
Roller- and conveyor chains

Landmaschinenketten
Agricultural chains
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