MEGAlife maintenance free roller and conveyor chains can be applied in all areas where post installation lubrication is not at all or only partly possible. This is the case in clean and dry surroundings or in applications with difficult lubrication passage. MEGAlife maintenance free chains are corrosion resistant due to nickel-plated parts and can be utilized in a temperature range from –40°C up to +160°C.

MEGAlife Highlights:

1. Seamless sintered bush made of a material specially developed for this application, hardened and treated to optimize its tribological properties
2. Pin with wear-resistant, friction-optimized coating
3. Seamless roller with corrosion-resistant coating and geometry optimized on the sinter bush

All maintenance-free MEGAlife roller chains from JWIS have an extremely high breaking and fatigue strength, which means even better operational reliability for the customer. The chains offer exceptionally high wear resistance and long service life even without re-lubrication, keeping downtimes and servicing requirements to a minimum. Depending on the customer application, MEGAlife maintenance-free chains are supplied either dry or ready-treated with special-purpose lubricant.
MEGAlife I and MEGAlife II
The maintenance free iwis chains

PROBLEM/INITIAL SITUATION
- Lubrication is not at all or only partly possible
- Clean & dry surroundings are required
- Difficult/obstructed lubrication passage
- Contamination of manufacturing outlet and conveyor apparatus due to chain lubrication

HIGHLIGHTS MEGALIFE I
- Excellently qualified for normal chain applications without re-lubrication at speeds amounting to max. 3 m/s
- Permanently maintenance free under certain conditions
- Easy to dismantle due to easy break
- Applicable in corrosive environments; recommendable with lubrication, if possible
- 100 % compatibility with iwis standard conveyor chains due to the use of original iwis attachments
- MEGAlife conveyor chains with elongated pins are chemically nickel-plated
- All roller chains are mounted with shouldered pins
- Environmentally friendly because lubrication is not necessary
- Also available as transfer chain TF, power and free conveyor chain SF or grip chain

HIGHLIGHTS MEGALIFE II
- The solution for fast running chain drives, $v > 3 \text{ m/s}$ and/or high loads
- Considerably improved wear resistance due to a special thermo-chemical treatment of the pins which influences the hardness of the surface and optimizes herewith the adhesiveness
- Distinctive longer lifetime
- Pins and sintering bushes are optimally adjusted to each other
- Not recommendable in environments susceptible to corrosion
- Mainly applied as drive chain, as conveyor chain only in exceptional cases – at high speeds and loads
- For demanding applications

OUR SOLUTION
A high performance, maintenance-free chain with redesigned joints. Innovative technical details which result in an, as yet, unbeatable service life, even without re-lubrication.

Trial without re-lubrication at high speeds. Graphic representation corresponds to iwis test results.
CUSTOMER BENEFITS

- Excellent wear resistance – even at high speeds and loads – where conventional maintenance free chains stretch
- Extremely high levels of fatigue and breaking strength
- Protected from corrosion due to nickel-plated parts
- Easy to dismantle, easy break
- Temperature range from -40°C up to +160°C
- Less production still-time and therefore reduced overall maintenance cost
- MGALIFE chains are clean, dry and environmentally-friendly due to absence of excess lubrication

AREAS OF APPLICATION

- Packaging & Food Industry
- Printing Industry
- Material handling, Conveyor systems
- Textile & Clothing Industry
- Paper Manufacture & Book Binding Industry
- Electronic Industry & Circuit Board Manufacture
- Wood, Glass & Ceramic Industry
- Medical technology

... and of course in all areas where re-lubrication is not at all or only partly possible.

PRODUCT RANGE

- Roller chains according to DIN ISO 606 (DIN 8187 and DIN 8188)
- Roller chains with different attachments
- Roller chains with straight side plates
- Power and free conveyor chains
- Transfer chains
- Grip chains
- Special conveyor chains

MEGAlife maintenance free roller and conveyor chains can be applied in all areas where post installation lubrication is not at all or only partly possible.
# MEGAlife I roller chains

Complying with ISO 606

<table>
<thead>
<tr>
<th>Pitch p (&quot;)</th>
<th>1/2&quot;</th>
<th>5/8&quot;</th>
<th>3/4&quot;</th>
<th>1&quot;</th>
</tr>
</thead>
<tbody>
<tr>
<td>Weight per m²</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>06 B-1</td>
<td>L 85 ML</td>
<td>1/2&quot;</td>
<td>12.70</td>
<td>22.000</td>
</tr>
<tr>
<td>08 B-1</td>
<td>L 85 AML</td>
<td>1/2&quot;</td>
<td>12.70</td>
<td>17.500</td>
</tr>
<tr>
<td>10 B-1</td>
<td>M 106 ML</td>
<td>5/8&quot;</td>
<td>15.875</td>
<td>25.000</td>
</tr>
<tr>
<td>12 B-1</td>
<td>M 127 ML</td>
<td>3/4&quot;</td>
<td>19.05</td>
<td>30.000</td>
</tr>
<tr>
<td>12 A-1 ANSI 60</td>
<td>M 128 AML</td>
<td>3/4&quot;</td>
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<td>41.000</td>
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<tr>
<td>16 B-1</td>
<td>M 1611 ML</td>
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<td>75.000</td>
</tr>
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<td>M 1610 AML</td>
<td>1&quot;</td>
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<td>20B-1</td>
<td>M 2012 ML</td>
<td>1 1/4&quot;</td>
<td>31.75</td>
<td>120.000</td>
</tr>
</tbody>
</table>

## Simplex

| Pitch p (mm) | 9,525 | 11.000 | 8.900 | 0.28 | 0.41 | 5.72 | 8.53 | 8.20 | 12.90 | 14.10 | 6.35 | 3.31 | - | 50033917 |
|--------------|-------|--------|-------|------|------|------|------|------|-------|-------|------|------|-------|-------|-------|
| g (mm) max. | 210.000 | 3.72 | 50027445 | 13.28 | 7.75 | 11.30 | 12.20 | 16.90 | 18.50 | 18.50 | 8.51 | 4.45 | - | 50026256 |
| q (kg/m) | 68.800 | 5.72 | 36.45 | D 127 ML-GL | 57.800 | 31.75 | 50033917 | - | - | - | - | - | - | - | - |
| h (mm) min. | 50027439 | 0.86 | 31.88 | - | - | - | - | - | - | - | - | - | - | - | - |
| h (mm) max. | 50036841 | 22.200 | 19.05 | - | - | - | - | - | - | - | - | - | - | - | - |

## Duplex

| Pitch p (mm) | 9,525 | 11.000 | 8.900 | 0.28 | 0.41 | 5.72 | 8.53 | 8.20 | 12.90 | 14.10 | 6.35 | 3.31 | - | 50033917 |
|--------------|-------|--------|-------|------|------|------|------|------|-------|-------|------|------|-------|-------|-------|
| g (mm) max. | 210.000 | 3.72 | 50027445 | 13.28 | 7.75 | 11.30 | 12.20 | 16.90 | 18.50 | 18.50 | 8.51 | 4.45 | - | 50026256 |
| q (kg/m) | 68.800 | 5.72 | 36.45 | D 127 ML-GL | 57.800 | 31.75 | 50033917 | - | - | - | - | - | - | - | - |
| h (mm) min. | 50027439 | 0.86 | 31.88 | - | - | - | - | - | - | - | - | - | - | - | - |
| h (mm) max. | 50036841 | 22.200 | 19.05 | - | - | - | - | - | - | - | - | - | - | - | - |

## Triplex

| Pitch p (mm) | 9,525 | 11.000 | 8.900 | 0.28 | 0.41 | 5.72 | 8.53 | 8.20 | 12.90 | 14.10 | 6.35 | 3.31 | - | 50033917 |
|--------------|-------|--------|-------|------|------|------|------|------|-------|-------|------|------|-------|-------|-------|
| g (mm) max. | 210.000 | 3.72 | 50027445 | 13.28 | 7.75 | 11.30 | 12.20 | 16.90 | 18.50 | 18.50 | 8.51 | 4.45 | - | 50026256 |
| q (kg/m) | 68.800 | 5.72 | 36.45 | D 127 ML-GL | 57.800 | 31.75 | 50033917 | - | - | - | - | - | - | - | - |
| h (mm) min. | 50027439 | 0.86 | 31.88 | - | - | - | - | - | - | - | - | - | - | - | - |
| h (mm) max. | 50036841 | 22.200 | 19.05 | - | - | - | - | - | - | - | - | - | - | - | - |

## Simplex/duplex - MEGAlife roller chains with straight side plates

| Pitch p (mm) | 9,525 | 11.000 | 8.900 | 0.28 | 0.41 | 5.72 | 8.53 | 8.20 | 12.90 | 14.10 | 6.35 | 3.31 | - | 50033917 |
|--------------|-------|--------|-------|------|------|------|------|------|-------|-------|------|------|-------|-------|-------|
| g (mm) max. | 210.000 | 3.72 | 50027445 | 13.28 | 7.75 | 11.30 | 12.20 | 16.90 | 18.50 | 18.50 | 8.51 | 4.45 | - | 50026256 |
| q (kg/m) | 68.800 | 5.72 | 36.45 | D 127 ML-GL | 57.800 | 31.75 | 50033917 | - | - | - | - | - | - | - | - |
| h (mm) min. | 50027439 | 0.86 | 31.88 | - | - | - | - | - | - | - | - | - | - | - | - |
| h (mm) max. | 50036841 | 22.200 | 19.05 | - | - | - | - | - | - | - | - | - | - | - | - |

* Also available in 10 m length (Art. 50035181), with straight side plates

* Differing dimensions for cranked links

If cranked links are fitted, it should be noted that the breaking strength of the chain may be reduced by approximately 20%.
**MEGAlife I conveyor chains with straight attachment plates**

**based on iwis roller chains complying with ISO 606**

<table>
<thead>
<tr>
<th>Shape 102.1</th>
<th>Simplex chains</th>
<th>Duplex chains</th>
<th>Triplex chains</th>
</tr>
</thead>
<tbody>
<tr>
<td>08 B-1 L 85 ML 1)</td>
<td>1/2&quot;</td>
<td>12,70</td>
<td>13,1</td>
</tr>
<tr>
<td>10 B-1 M 106 ML 1)</td>
<td>5/8&quot;</td>
<td>15,875</td>
<td>16,3</td>
</tr>
<tr>
<td>12 B-1 M 127 ML 1)</td>
<td>3/4&quot;</td>
<td>19,05</td>
<td>19,1</td>
</tr>
<tr>
<td>16 B-1 M 1611 ML</td>
<td>1&quot;</td>
<td>25,40</td>
<td>24,6</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Shape 103.1 and 103.2</th>
<th>Simplex chains</th>
<th>Duplex chains</th>
<th>Triplex chains</th>
</tr>
</thead>
<tbody>
<tr>
<td>08 B-1 L 85 ML 1)</td>
<td>1/2&quot;</td>
<td>12,70</td>
<td>17,0</td>
</tr>
<tr>
<td>10 B-1 M 106 ML 1)</td>
<td>5/8&quot;</td>
<td>15,875</td>
<td>16,3</td>
</tr>
<tr>
<td>12 B-1 M 127 ML 1)</td>
<td>3/4&quot;</td>
<td>19,05</td>
<td>18,3</td>
</tr>
<tr>
<td>16 B-1 M 1611 ML</td>
<td>1&quot;</td>
<td>25,40</td>
<td>24,6</td>
</tr>
</tbody>
</table>

### STRAIGHT ATTACHMENTS

The types illustrated are also obtainable for connector and outer links for final assembly and repair.

- **Fitting attachments on one or both sides, on each outer link or at greater spacing is possible.**
- **Other conveying chains and threaded inserts on request.**

**1) also for the corresponding duplex and triplex chains**

**2) Nominal pitch**

---

*On request*
**MEGAlife I conveyor chains with bent attachment plates**

Based on iwis roller chains complying with ISO 606

<table>
<thead>
<tr>
<th>DIN/Ref.</th>
<th>Ref. no.</th>
<th>Pitch p (&quot;)</th>
<th>Pitch p (mm)</th>
<th>c (mm)</th>
<th>d (mm)</th>
<th>e₁ (mm)</th>
<th>f₁ (mm)</th>
<th>g (mm)</th>
<th>h (mm)</th>
<th>l (mm)</th>
<th>s (mm)</th>
<th>M (mm)</th>
<th>m max. (mm)</th>
<th>Threaded insert</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Shape 202.1</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
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<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>08 B-1</td>
<td>L 85 ML a)</td>
<td>1/2&quot;</td>
<td>12,70</td>
<td>8,0</td>
<td>4,2</td>
<td>27,6</td>
<td>39,6</td>
<td>41,5</td>
<td>53,3</td>
<td>55,4</td>
<td>67,4</td>
<td>5,4</td>
<td>14,0</td>
<td>-</td>
</tr>
<tr>
<td>10 B-1</td>
<td>M 106 ML a)</td>
<td>5/8&quot;</td>
<td>15,875</td>
<td>9,0</td>
<td>5,2</td>
<td>33,6</td>
<td>49,6</td>
<td>50,1</td>
<td>66,1</td>
<td>66,6</td>
<td>82,6</td>
<td>6,8</td>
<td>18,0</td>
<td>-</td>
</tr>
<tr>
<td>12 B-1</td>
<td>M 127 ML a)</td>
<td>3/4&quot;</td>
<td>19,05</td>
<td>10,0</td>
<td>6,2</td>
<td>41,1</td>
<td>61,1</td>
<td>60,5</td>
<td>80,5</td>
<td>79,9</td>
<td>99,9</td>
<td>7,4</td>
<td>22,6</td>
<td>-</td>
</tr>
<tr>
<td>16 B-1</td>
<td>M 1611 ML</td>
<td>1&quot;</td>
<td>25,40</td>
<td>16,0</td>
<td>8,2</td>
<td>53,9</td>
<td>77,9</td>
<td>85,8</td>
<td>109,8</td>
<td>117,7</td>
<td>141,7</td>
<td>10,4</td>
<td>26,0</td>
<td>-</td>
</tr>
<tr>
<td><strong>Shape 203.1 and 203.2</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
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<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>08 B-1</td>
<td>L 85 ML a)</td>
<td>1/2&quot;</td>
<td>12,70</td>
<td>9,5</td>
<td>4,2</td>
<td>32,6</td>
<td>44,6</td>
<td>46,5</td>
<td>58,5</td>
<td>60,4</td>
<td>72,4</td>
<td>5,4</td>
<td>16,5</td>
<td>12,7</td>
</tr>
<tr>
<td>10 B-1</td>
<td>M 106 ML a)</td>
<td>5/8&quot;</td>
<td>15,875</td>
<td>11,0</td>
<td>5,2</td>
<td>30,6</td>
<td>49,6</td>
<td>47,1</td>
<td>66,1</td>
<td>63,6</td>
<td>82,6</td>
<td>7,5</td>
<td>18,0</td>
<td>15,8</td>
</tr>
<tr>
<td>12 B-1</td>
<td>M 127 ML a)</td>
<td>3/4&quot;</td>
<td>19,05</td>
<td>12,0</td>
<td>6,2</td>
<td>35,5</td>
<td>56,9</td>
<td>54,9</td>
<td>76,3</td>
<td>74,3</td>
<td>95,7</td>
<td>9,0</td>
<td>20,5</td>
<td>19,0</td>
</tr>
<tr>
<td>16 B-1</td>
<td>M 1611 ML</td>
<td>1&quot;</td>
<td>25,40</td>
<td>18,0</td>
<td>8,2</td>
<td>57,7</td>
<td>83,9</td>
<td>89,6</td>
<td>115,8</td>
<td>121,5</td>
<td>147,8</td>
<td>10,4</td>
<td>29,0</td>
<td>25,4</td>
</tr>
</tbody>
</table>

Conveyor chains D 1611 ML and TR 1611 ML on request a) Also for the corresponding duplex and triplex chains b) Assembly of the bent attachments also possible inward over the chain except when fitted on both sides to D 85 ML, D 106 ML and D 127 ML c) Nominal pitch

**BENT ATTACHMENTS**

The types illustrated are also obtainable for connector and outer link for final assembly and repair. Assembly of the bent attachments with threaded insert over the chain facing inwards is not possible. Fitting bent attachments on one or both sides on each outer link or at greater spacing is possible. Other conveying chains and threaded inserts on request.

---

*On request*
MEGAlife I conveyor chains with extended pins
based on iwis roller chains complying with ISO 606

<table>
<thead>
<tr>
<th>Pin type A, B, C</th>
<th>Design A</th>
<th>Design B and C</th>
</tr>
</thead>
<tbody>
<tr>
<td>08 B-1 L 85 ML</td>
<td>12,70</td>
<td>25,5</td>
</tr>
<tr>
<td>10 B-1 M 106 ML</td>
<td>15,875</td>
<td>20,0</td>
</tr>
<tr>
<td>12 B-1 M 127 ML</td>
<td>19,05</td>
<td>25,0</td>
</tr>
<tr>
<td>16 B-1 M 1611 ML</td>
<td>25,40</td>
<td>30,0</td>
</tr>
</tbody>
</table>

For multiple chains on request. Nominal pitch. Other pin lengths and shapes on request.

EXTENDED PINS

The types illustrated are also available as connecting links and outer links for final assembly and repair (C only as outer link).

MEGAlife I Transfer chains
based on iwis roller chains complying with DIN ISO 606 (DIN 8187)
### MEGAlife II – Roller chains

Complying with ISO 606

<table>
<thead>
<tr>
<th>Article No.</th>
<th>Ref. no. iwis</th>
<th>Pitch p (&quot;)</th>
<th>Pitch p (mm)</th>
<th>iwis (mm) med.</th>
<th>Standard (N) med.</th>
<th>Breaking strength F_B (N) min.</th>
<th>Breaking strength F_B (N) max.</th>
<th>Inner link</th>
<th>Outer link</th>
<th>Inner link</th>
<th>Outer link</th>
<th>Inner link</th>
<th>Outer link</th>
</tr>
</thead>
<tbody>
<tr>
<td>06 B-1</td>
<td>G 67 ML-2*</td>
<td>3/8&quot;</td>
<td>9,525</td>
<td>11,000</td>
<td>8,900</td>
<td>8,53</td>
<td>14,10</td>
<td>6,35</td>
<td>3,31</td>
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<td>08 B-1</td>
<td>L 85 ML-2</td>
<td>1/2&quot;</td>
<td>12,70</td>
<td>22,000</td>
<td>17,800</td>
<td>11,30</td>
<td>16,90</td>
<td>8,51</td>
<td>4,45</td>
<td>50030461</td>
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<tr>
<td>10 B-1</td>
<td>M 106 ML-2</td>
<td>5/8&quot;</td>
<td>15,875</td>
<td>25,000</td>
<td>22,200</td>
<td>13,28</td>
<td>19,50</td>
<td>20,90</td>
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<tr>
<td>12 B-1</td>
<td>M 127 ML-2</td>
<td>3/4&quot;</td>
<td>19,05</td>
<td>30,000</td>
<td>28,900</td>
<td>15,62</td>
<td>22,70</td>
<td>23,60</td>
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<td>M 1611 ML-2</td>
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<td>25,40</td>
<td>75,000</td>
<td>60,000</td>
<td>25,45</td>
<td>36,10</td>
<td>36,90</td>
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<td>M 2012 ML-2</td>
<td>1 1/4&quot;</td>
<td>31,75</td>
<td>120,000</td>
<td>95,000</td>
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<td>43,3</td>
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</table>

### Duplex

<table>
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<tr>
<th>Article No.</th>
<th>Ref. no. iwis</th>
<th>Pitch p (&quot;)</th>
<th>Pitch p (mm)</th>
<th>iwis (mm) med.</th>
<th>Standard (N) med.</th>
<th>Breaking strength F_B (N) min.</th>
<th>Breaking strength F_B (N) max.</th>
<th>Inner link</th>
<th>Outer link</th>
<th>Inner link</th>
<th>Outer link</th>
<th>Inner link</th>
<th>Outer link</th>
</tr>
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<tbody>
<tr>
<td>06 B-2</td>
<td>D 67 ML-2</td>
<td>3/8&quot;</td>
<td>9,525</td>
<td>19,000</td>
<td>16,900</td>
<td>8,53</td>
<td>23,40</td>
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<td>10,24</td>
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<tr>
<td>08 B-2</td>
<td>D 85 ML-2</td>
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<td>12,70</td>
<td>31,100</td>
<td>22,700</td>
<td>13,28</td>
<td>30,80</td>
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<tr>
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<td>D 106 ML-2</td>
<td>5/8&quot;</td>
<td>15,875</td>
<td>49,000</td>
<td>44,500</td>
<td>15,62</td>
<td>36,00</td>
<td>37,50</td>
<td>16,59</td>
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### Triplex – ML-2 roller chains on request

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<th>Standard (N) med.</th>
<th>Breaking strength F_B (N) min.</th>
<th>Breaking strength F_B (N) max.</th>
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### Simplex ANSI chains

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### ML-2 conveyor chains on request

* Differing dimensions for cranked links. If cranked links are fitted, it should be noted that the breaking strength of the chain may be reduced by approximately 20%. * straight side plates

---

### INDIVIDUAL COMPONENTS AND CONNECTING LINKS

- **Nr. 2 Inner link**
  - Standard designation B

- **Nr. 3 Connecting link with spring clip**
  - Standard designation E

- **Nr. 7 Double cranked link**
  - Standard designation C

- **Nr. 8 Outer link**
  - Standard designation A
MEGAlife conveyor chains
Examples of special chain designs

MEGAlife conveyor chain with straight attachment plates
MEGAlife conveyor chain with extendend pins

MEGAlife conveyor chain with bent attachment plates
MEGAlife conveyor chain with special attachment plates
MEGAlife maintenance free power & free conveyor chains
More Efficiency and Sustainability

**PROBLEM/INITIAL SITUATION**
- Lubrication is not at all or only partly possible
- Clean & dry surroundings required
- Difficult/obstructed lubrication passage
- Contamination of installation and material to be conveyed due to chain lubrication

**OUR SOLUTION**
Maintenance power and free conveyor chain with special redesigned joint and transport rollers made of sintered metal – a technical innovation – the first genuine maintenance free power and free conveyor chains with light running rollers.

**HIGHLIGHTS**
- Excellent wear resistance – also under extreme environmental conditions
- Easy to dismantle
- Reduced overall maintenance cost
- Less production stop and machine downtime
- Environmentally-friendly due to lubrication free chain surface
- Chains suitable for clean rooms

**TECHNICAL FEATURES**
- Dry chain surface and transport rollers
- Corrosion resistant
- Transport rollers optional as plastic material or steel (stainless steel or nickel-plated)
- Temperature range for use –40 °C up to +160 °C (for transport rollers made of steel)
- iwis MEGAlife power and free conveyor chains are available in the new iwis or classic design in 1/2 inch and 3/4 inch pitch
- Transport rollers made of sintered metal reduce friction. This leads to reduction of driving power and strain on the chain

**AREAS OF APPLICATION**
- Electronic Industry & Circuit Board Manufacture
- Packaging & Food Industry
- Conveyor-Equipment
- Wood, Glass & Ceramic Industry
- Medical Technology
... and of course in all areas where relubrication is not at all or only partly possible.

Comparison: lifetime operating time of power and free conveyor chains – without relubrication

Comparison: coefficient of friction
MegaLife maintenance free power & free conveyor chains
Chains with offset fitted transport rollers

<table>
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<tr>
<th>Design VR</th>
<th>Pitch p (mm)</th>
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<th>b1 (mm)</th>
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Classic power and free conveyor chains

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<th>Diameter Roller d (mm)</th>
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Design OS: with plastic conveyor rollers
Design SFS: with hardened steel conveyor rollers
Our subsidiaries

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