



NEW

## Tail Lift Solutions

### Challenge:

Tail lifts that can be lowered to carriageway level make it much easier to load and unload a truck safely. Users benefit from the high degree of flexibility and ease of operation, resulting in time and cost savings.

At the same time, these tail lifts must meet the **strictest safety standards**. Since drive chains are subjected to heavy loads as the platforms are raised and lowered, high fatigue strength is essential.



## Our solution

For applications with extremely heavy loads, iwis has developed **reinforced heavy-duty roller chains** with increased wear and fatigue resistance. Heavy series ANSI roller chains have the exact dimensions as standard ANSI chains but come with the plate thicknesses of the next larger chains.

iwis adapted its design to create these heavy-duty chains and took all relevant measures in the production process, including heat treatments, to ensure they meet the most demanding tasks.

## Highlights

- Very high wear resistance
- Increased breaking load compared to DIN chains with the same chain dimension
- Chains are pre-stretched to approx. 40 % of the breaking load, which is 10 % higher than required by ISO 606
- Fatigue strength on average 20 % above the requirements of ISO 606
- For increased corrosion protection, all designs are also available in coated form
- On request, iwis can supply chains measured and marked in pairs or sets
- We deliver your chains ready-to-fit (cut-to-length)
- Complete traceability through our certificate of conformity
- Tail lift sets are all available from stock

We offer tail lift chain kits for **Del Equipment** and **Palfinger** lift loaders



### Your contact at iwis

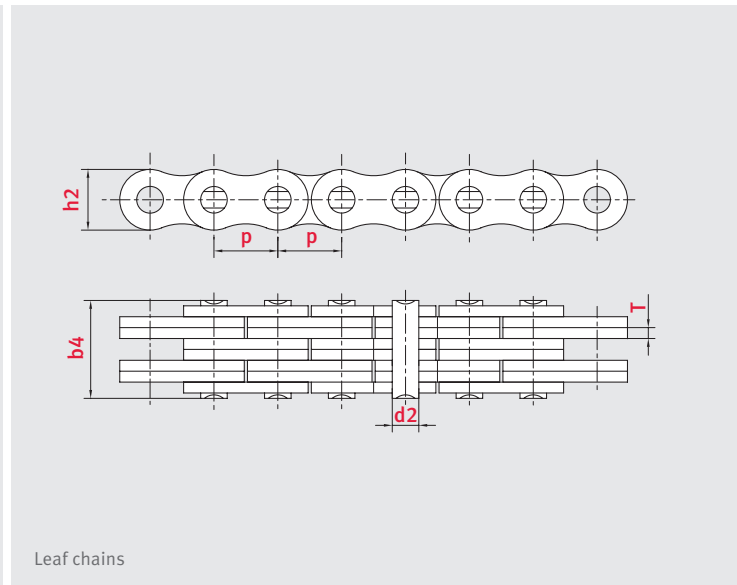
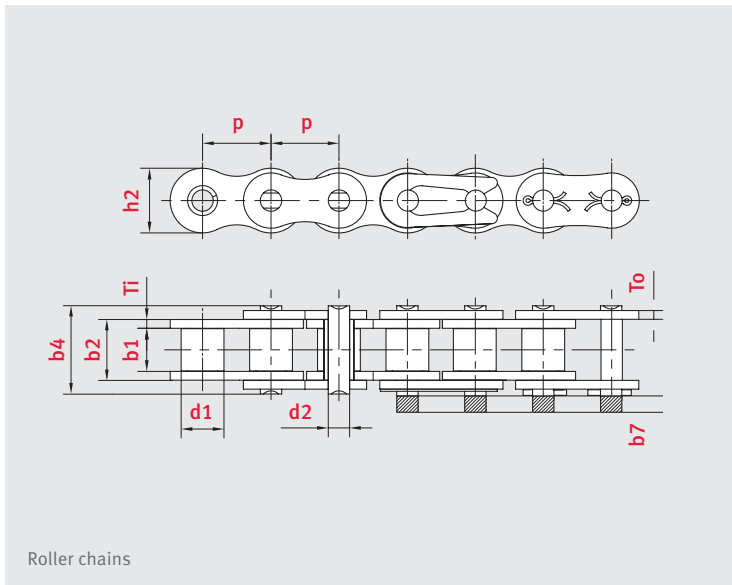
**Contact our iwis Customer Service Team for support for your industry!**

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# CUSTOMER SERVICE TEAM



## Technical dimensions

### ELITE® Roller chains according to ISO 606 – Standard and Heavy series H

Chain type	Pitch	Width between inner plates	Roller Ø	Pin Ø	Pin length	Max. add. length of connecting link	Total width inner link	Plate thickness	Height inner plate	Transverse pitch	Min. tensile strength	Weight per meter	Bearing area
	<b>p</b> mm	<b>b1 min.</b> mm	<b>d1 max.</b> mm	<b>d2 max.</b> mm	<b>b4 max.</b> mm	<b>b7 max.</b> mm	<b>b2 max.</b> mm	<b>Ti/To</b> mm	<b>h2 max.</b> mm	<b>pt</b> mm	<b>FU</b> kN	<b>q</b> kg/m	<b>f</b> cm <sup>2</sup>
<b>ANSI 50-1</b>	15.875	9.4	10.16	5.09	21.8	4.1	13.84	2.00/2.00	15.09	–	21.8	1.02	0.69
<b>ANSI 50-1 H*</b>	15.875	9.4	10.16	5.09	22.6	4.1	14.5	2.4	15.09	–	22.2	1.23	0.74
<b>ANSI 60-1 H*</b>	19.05	12.57	11.91	5.96	30.2	4.6	19.43	3.2	18.1	–	31.3	1.87	1.16

\*30 m reels available on request

### ELITE® Leaf chains light series LL according to European standard ISO 4347/DIN

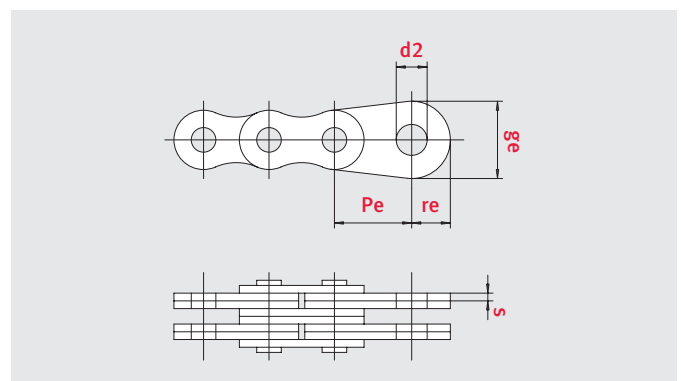
Chain type	Pitch	Plate lacing	Plate depth	Plate thickness	Pin Ø	Pin length	Min. tensile strength h ISO/DIN	Avg. tensile strength	Weight per meter	Clevis pins			
DIN/ISO	<b>p</b> mm		<b>h2 max.</b> mm	<b>T max.</b> mm	<b>d2 max.</b> mm	<b>b4 max.</b> mm	<b>FU</b> kN	<b>FB</b> kN	<b>q</b> kg/m	<b>d1</b> mm	<b>d3</b> mm	<b>L1</b> mm	<b>x</b> mm
<b>LL0844*</b>	12.7	4 x 4	10.4	1.6	4.4	15.4	36.0	39.6	0.8	4.4	1.6	20.1	13.7
<b>LL1044</b>	15.875	4 x 4	13.7	1.5	5.1	15.8	44.0	52.6	1.1	5.1	1.6	20.1	14.0

\*also available with zinc-flake coating (ZAP) for the utmost corrosion protection

### ELITE® Pear drop end links for Leaf chains

Chain type	Pear drop end links				
	<b>pe</b> mm	<b>d2</b> mm	<b>ge</b> mm	<b>s max.</b> mm	<b>re</b> mm
<b>LL0844</b>	15.00	6.00	16.00	1.60	10.00
<b>LL1044</b>	20.00	8.00	18.00	1.60	11.00

Idler wheel: bmin= overall width of chain (B x 1.05)





For more information,  
see our “Lubrication  
Solutions flyer”



## Chain lubrication

Regular maintenance and lubrication are essential to ensure low wear and longer chain drive service life. The operating conditions of the system determine maintenance and lubrication intervals. Scheduled maintenance and lubrication must be **carried out regularly**. Around two-thirds of chain failures can be prevented with reliable chain lubrication. The choice of a **high-performance lubricant** is vital to ensuring a **long service life** since the individual links of a chain act as bearings while the constantly oscillating chain is in operation.

Inadequate lubrication and excess contamination can reduce chain performance up to 20% -- more than any other influencing factors. Our lubricants were **developed especially for and with iwis**, so their ingredients and properties are **optimally suited to the product ‘chain’**. Thanks to countless trials on specially developed test rigs and our close collaboration with reputable lubricant manufacturers, **iwis is an expert partner on all aspects of chain lubrication**.

### VP6 SuperPlus Spray

VP6 Kombi SuperPlus Spray is a fully synthetic, high-adhesion, high-temperature chain oil. Suitable for all industrial chain applications.

#### Highlights:

- Temperature range from 0 °C to 250 °C
- Wide range of applications
- Easy to apply
- High-performance lubricant developed especially for chain applications
- Optimum penetration
- Silicone-free

**VP6 SuperPlus is suitable for use as a relubricant with the following iwis initial lubricants:<sup>1</sup>**

- JWIS : IP2, IP3, IPW, IP4, IP9, IP14
- ELITE : EL-1, EL-3, EL-4, EL-6, EL-8, EL-9

<sup>1</sup> Application-specific conditions such as ambient temperature must be taken into account.