



Lube-free cross-transfer Chain with polymer linkplates

Solutions for the automotive industry

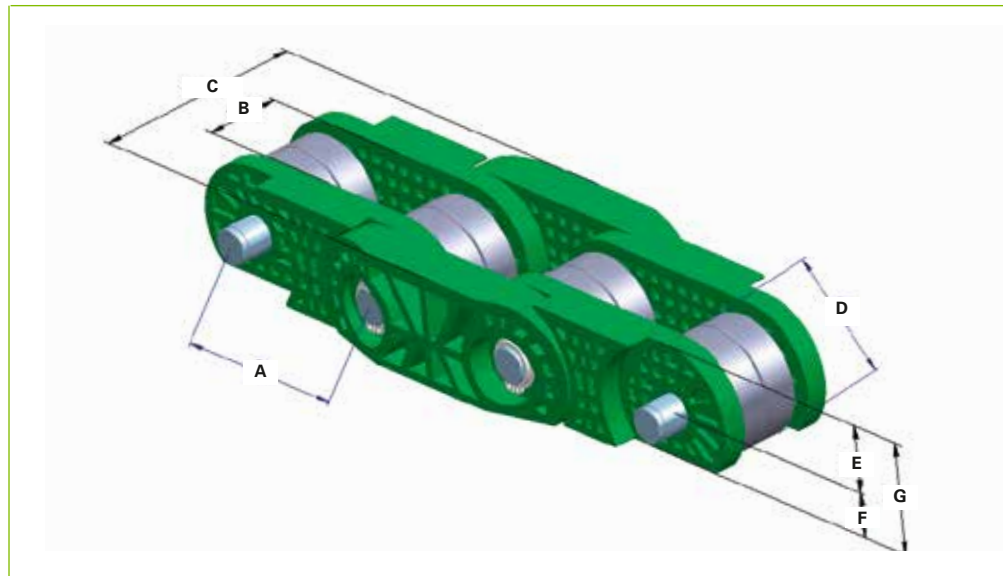


[Product datasheet](#)

KettenWulf Hybrid-Chain

The automotive industry has been utilizing all-polymer chains in various areas of their production. While these plastic products definitively have their niche, there are many applications, wherein a steel chain had been mandatory. With the introduction of the KettenWulf Hybrid-Chain, steel joint components with polymer linkplates - a resourceful engineering feat combines the best of both worlds, steel and plastic: Steel pins and bearing rollers with polymer linkplates. A light, durable product, with steel com-

ponents where it matters. The linkplates are not only holding the chain together, but also perform as guide blocks. Primarily used with cross-transfer conveyors, the required space in combination to the permissible chainpull offers new possibilities in conveyor engineering. This innovation in chain technology had been field tested for several years, and is at the moment available in two different pitch sizes.



Type of Chain	Pitch	Inner width (inner link)	Complete width	Roller ϕ	Height 1	Height 2	Complete height linkplate	Calculated breaking load	Allowed chain pull	Max. vertical point load	Weight
	A	B	C	D	E	F	G	N	N	N	kg/m
1 KW 119087	80	34,5	96,4	52	30	20	50	23 000	4 000	5 000	9,10
2 KW 157083	160	39	91,5	62	35	25	60	23 000	4 000	5 000	6,50
3 KW 146459	160	39	91,5	60	35	25	60	23 000	4 000	5 000	6,50

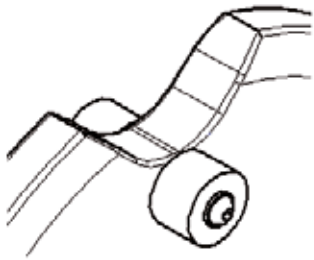
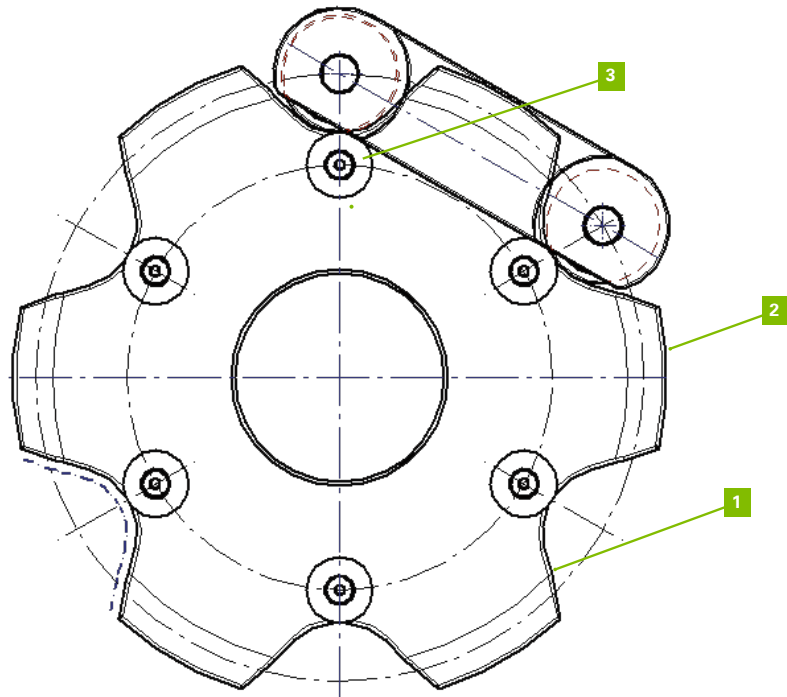
Maximum service temperature: 80 °C

Flammability Classification: UL 94 – HB (ISO 9772 and 9773, IEC 60707, 60695-11-10, and 60695-11-20), burning off slowly

Advantages

- » Significant reduction of skid wear due to the polymer nature of the chain linkplates
- » No re-lubrication effort with the chain (Reduction in maintenance costs)
- » Less residue built-up on chain and conveyor tracks (Optimization of conveyor operation)
- » Reduction of the chain pull due to bearing rollers (less drive output)
- » Reduced starting torque (hardly any peak power situations)
- » Considerable reduction of the chain total weight
- » Cost-saving and resource efficient alternative to an all-steel conveyor chain

Sprocket with noise-dampening system



Type of Sprockets	Pitch	Number of teeth	Pitch circle ϕ	Tip circle ϕ to roller type	Hub ϕ	Hub length	Width	Bore ϕ	Weight kg/m
1 KW 111057	80	8	209	228	90	80	27	60	8,20
2 KW 117652 Sprocket disc	160	6	320	344			34	110	20,60
3 KW 29267	80	8	209	228	90	85	31	60	9,20
4 KW 29259	80	8	209	228	90	80	31	53	9,30
5 KW 132255 Sprocket disc	160	6	320	344			30	110	18,10

Characteristics

- 1 The optimized tooth-gap-geometry significantly reduces wear on the chain, and the same time increases the life time of the chain.
- 2 To further enhance the wear reduction on the chain, the sprocket also has an optimized tooth width.
- 3 The illustrated sprocket features the KettenWulf noise dampening system, with which due to its design a considerable noise reduction is accomplished.

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