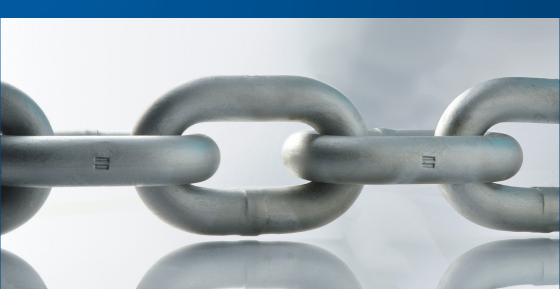


HEKO UR400 Ultra Resistance Chain

Maximum breaking strength. Extended service life. Exclusive **HEKO** technology





A CHAIN LIKE NO OTHER

HEKO sets new standards with its new chain quality UR400.

Engineered for the highest demands.



Increased Fatigue Strength

The **HEKO** UR 400 features a ductile edge that enables significantly higher breaking strength despite the increased case hardening depth. This also leads to a sustainable improvement in fatigue strength during operation.



Improved Wear Protection

The in-situ hardening is applied specifically to the areas where particularly high hardness is required – the chain joint. This significantly enhances wear protection.



Extended Service Life

Optimised wear protection extends service life by up to 30 % with comparable breaking stress.



Exclusively at HEKO

This heat treatment technology is used exclusively at **HEKO**. The carburising process takes place in a vacuum, followed by quenching in helium — ensuring highest precision and maximum component quality.



Parameters	HEKO 400E	HEKO 5	Heko 350E	HEKO 400LL	HEKO UR400
Surface hardness in delivery condition	825 HV1	825 HV1	825 HV1	825 HV1	750 HV1
Surface hardness under operational stress	< 825 HV1	< 825 HV1	< 825 HV1	< 825 HV1	850 HV1
Carburisation depth	0,09 x D	0,10 x D	0,14 x D ₆₎	0,16 x D	0,20 x D ₇₎
Case hardening depth (CHD550)	0,05 x D	0,06 x D ₄₎	0,09 x D ₅₎	0,10 x D	0,12 x D ₈₎
Breaking stress	450 N/mm² _{1) 2)}	370 N/mm² ₃₎	350 N/mm² ₁₎	400 N/mm² ₁₎	400 N/mm² ₁₎

1) Tolerance 10% 2) up to 3) Ø ≥ 30 mm: Tolerance 20% 4) Ø ≥ 30 mm: 0.05 x D 5) Ø = 30 mm: 0.08 x D 7) Ø = 34 mm: 0.075 x D 7 Ø = 36 − 42 mm: 0.07 x D 6) Ø = 30 mm: 0.11 x D 7 Ø = 26 − 30 mm: 0.18 x D 7 Ø = 34 mm: 0.16 x D 7 Ø = 36 mm: 0.15 x D 7 Ø = 36 mm: 0.16 x D 7 Ø = 36 mm: 0.16



The new **HEKO** UR400 quality makes targeted use of the effect of stress-induced structural transformation. Under high loads, the material hardens precisely in the areas experiencing the greatest stress.

The Result:

- Hardness develops precisely where it's required
- The edge remains ductile for maximum fracture toughness
- The core retains its elasticity

This creates an innovative structure with an optimal combination of **hardness**, **toughness**, and **fatigue strength**.



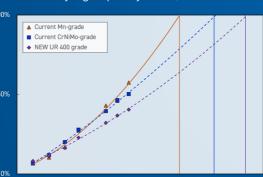


Reliable in the Harshest Conditions

The new **HEKO** chain quality demonstrates its full potential even under the most extreme loads. It stands up reliably in demanding applications, proving exactly what it was built for

Example: Sand Bucket Conveyor

- Chain 26 x 91
- · Centre distance 18,9 m
- Conveying capacity 150 t/h



Dimensionsless time of operation

WE MOVE INDUSTRIES



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