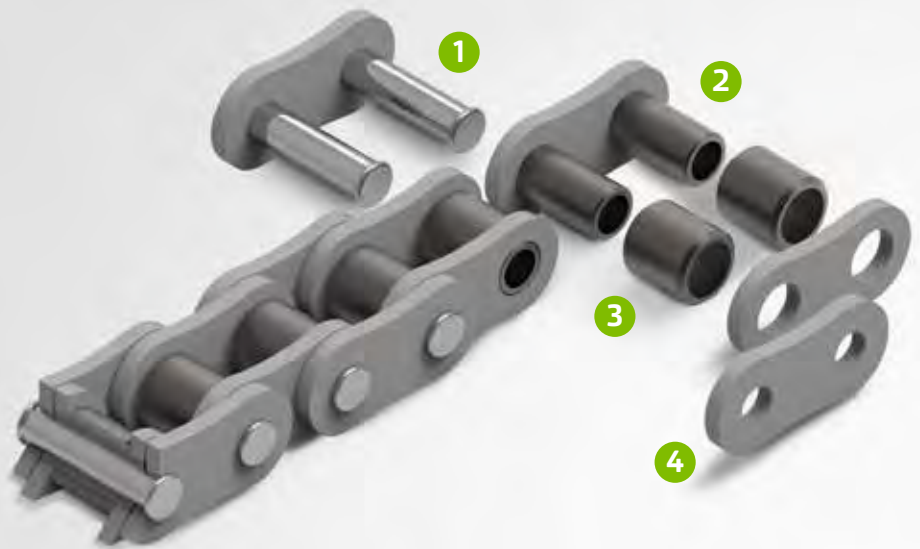


TGI roller chains

- 1 Pins made of special alloyed steel, cold-extruded, case-hardened (pins starting from 1" are made of high-alloy heat-treated steel quenched and tempered), chrome-plated with high surface hardness and particularly smooth grinding
- 2 Bush – seamless, cold-extruded bush, case-hardened
- 3 Roller – seamless, cold-extruded roller, through hardend, ball blasted, extremely shock resistant
- 4 Link plates – high-precision stamped, quenched and tempered and subsequently ball blasted, holes calibrated with particularly high percentage contact area, the plate shape is wide waisted

All components are coated with Geomet®.



Tri Guard Inchromised (TGI) roller chains

The KettenWulf TGI "Tri Guard Inchromised" coated chain is suited for the highest requirements in corrosion resistance, wear resistance and fatigue strength. It represents the state-of-the-art standard on the market for applications under hard-wearing and aggressive conditions.

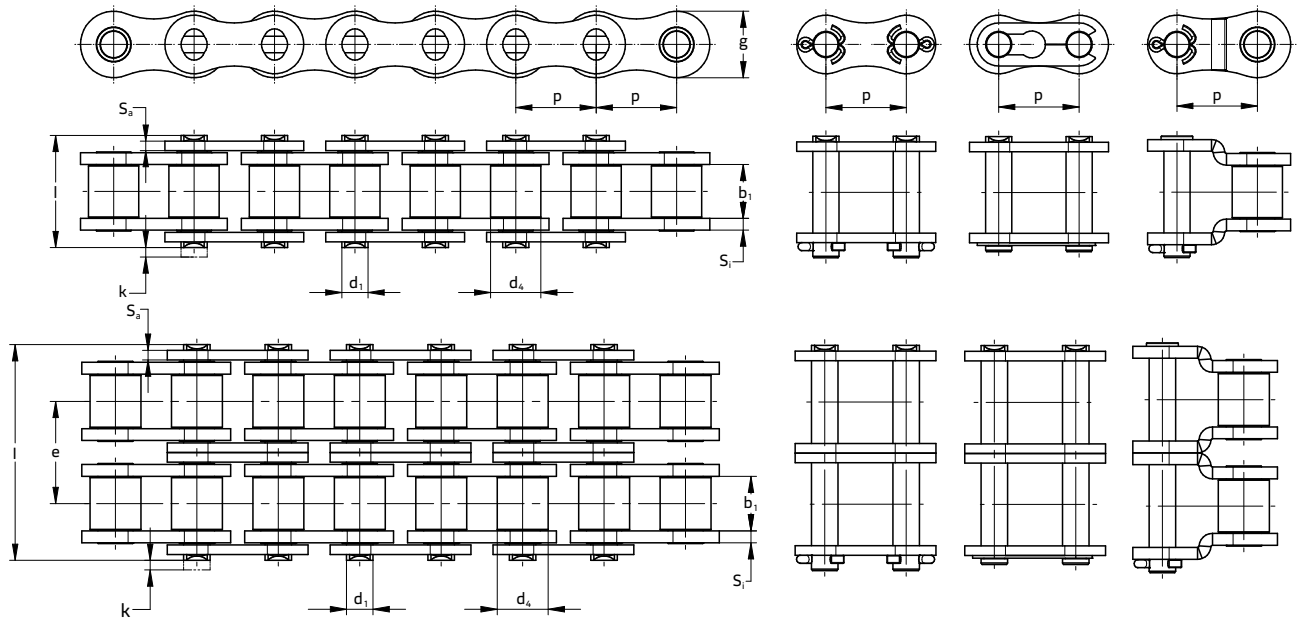
The materials and the manufacturing method used are the same as for the KW HFS chain and guarantee the same high level of fatigue strength. In addition, all components receive a special Geomet® coating. This type of coating achieves the unmatched corrosion resistance level of more than 500 hours in a salt spray test.

Compared to the HFS chain, the pin material has been further optimised by a layer of chrome plating. This gives the pin a particularly hard and smooth surface. With these features, the chain is highly wear resistant and exposes optimal emergency operation properties.

TGI roller chains

KW TGI simplex, KW TGI duplex

Drawings / product data (European & American standard)



KettenWulf wear-resistant and corrosion-protected roller chains

KW TGI simplex, sizes according to European standard ISO 606 / DIN 8187

Designation	Pitch [mm]	Min. inner width [mm]	Max. protection roller \varnothing [mm]	Max. pin \varnothing [mm]	Max. pin length [mm]	Max. overhang connecting pin [mm]	Inner plate thickness [mm]	Outer plate thickness [mm]	Plate height [mm]	Transverse pitch [mm]	Bearing area [cm ²]	Min. breaking load [N]	Weight [kg/m]
Chain type	p	b_1	d_r	d_1	l	k	S_1	S_2	g	e	f	F_B	$\approx q$
KW 08BTGI	12.700	7.75	8.51	4.45	17.00	1.60	1.50	1.50	11.80	-	0.50	17800	0.75
KW 10BTGI	15.875	9.65	10.16	5.08	19.60	2.50	1.65	1.65	14.70	-	0.67	24400	0.98
KW 12BTGI	19.050	11.68	12.07	5.72	22.70	3.30	1.80	1.80	16.10	-	0.89	28900	1.26
KW 16BTGI	25.400	17.02	15.88	8.28	36.10	3.10	4.00	3.20	21.00	-	2.10	72500	2.83
KW 20BTGI	31.750	19.56	19.05	10.19	43.20	4.40	4.50	3.50	26.40	-	2.96	105000	3.94
KW 24BTGI	38.100	25.40	25.40	14.63	53.40	5.50	6.00	4.70	33.40	-	5.54	175000	7.21
KW 32BTGI	50.800	30.99	29.21	17.81	67.40	3.90	6.90	6.00	42.20	-	8.10	265000	9.97

KW TGI duplex, sizes according to European standard ISO 606 / DIN 8187

Chain type	p	b_1	d_r	d_1	l	k	S_1	S_2	g	e	f	F_B	$\approx q$
KW 08B-2TGI	12.700	7.75	8.51	4.45	31.00	1.60	1.50	1.50	11.80	13.92	1.01	35600	1.45
KW 10B-2TGI	15.875	9.65	10.16	5.08	36.20	2.70	1.65	1.65	14.70	16.59	1.34	48800	1.93
KW 12B-2TGI	19.050	11.68	12.07	5.72	42.20	3.00	1.80	1.80	16.10	19.46	1.79	57800	2.49
KW 16B-2TGI	25.400	17.02	15.88	8.28	68.00	3.40	4.00	3.20	21.00	31.88	4.21	145000	5.28
KW 20B-2TGI	31.750	19.56	19.05	10.19	79.00	5.10	4.50	3.50	26.40	36.45	5.91	210000	7.78
KW 24B-2TGI	38.100	25.40	25.40	14.63	101.00	6.70	6.00	4.70	33.40	48.36	11.08	350000	14.31
KW 32B-2TGI	50.800	30.99	29.21	17.81	126.00	3.80	6.90	6.00	42.20	58.55	16.21	530000	19.59

>> Also available as triplex upon request.

KW TGI simplex, sizes according to American standard ISO 606 / DIN 8188

Chain type	p	b_1	d_r	d_1	l	k	S_1	S_2	g	e	f	F_B	$\approx q$
KW 40TGI	12.700	7.90	7.90	3.97	16.32	2.40	1.50	1.50	12.06	-	0.44	17200	0.62
KW 50TGI	15.875	9.50	10.14	5.08	20.30	2.17	2.00	2.00	15.08	-	0.70	27400	1.01
KW 60TGI	19.050	12.70	11.88	5.95	25.26	2.80	2.40	2.40	18.09	-	1.05	38200	1.45
KW 80TGI	25.400	15.85	15.84	7.93	32.76	3.37	3.20	3.20	24.13	-	1.78	72500	2.55

>> Also available in larger dimensions and as duplex / triplex upon request.

Specific chain versions for different environmental conditions

Figure 1:
LF roller chain



Figure 2:
NP roller chain



Figure 3:
SS roller chain



Figure 4:
TGI roller chain



Formation of rust under different environmental conditions									
	Water			5% saline solution			1% ammonia		
	3 days	9 days	15 days	3 days	9 days	15 days	3 days	9 days	15 days
Standard									
NP (Nickel plated)									
TGI									
SS 304									

no rust
 5-10%
 20-30%
 70-90%
 100%