SS roller chains

1. Pins made of stainless steel 1.4301
2. Bushes made of stainless steel 1.4301
3. Seamless rollers made of stainless steel 1.4301
4. Link plates made of stainless steel 1.4301

Stainless Steel (SS) roller chains

By default, our SS "stainless steel" roller chains are composed of basic components made of stainless steel 1.4301 (SUS 304) from stock. These chains are suitable for use in special acidic or basic environments.

The temperature range for operation of the SS roller chains is larger than that of standard chains. Since the components are not hardened, the breaking loads and the load capacity of the chains is lower than those of standard chains.

Due to the materials used in KettenWulf SS roller chains they are ideal for use in the food industry. All chains correspond to the dimensions stipulated in ISO 606.

Upon request, the chains can be delivered with food-grade lubrication compliant with FDA classes H1 and H2.

Furthermore, made-to-order chains can be produced with SUS 316, SUS 400 or SUS 600 materials. SUS 316 is even more resistant to corrosion and heat than standard SUS 304 material and also anti-magnetic. SUS 400 and SUS 600 can be heat treated providing a higher resistance to wear and better fatigue strength properties.

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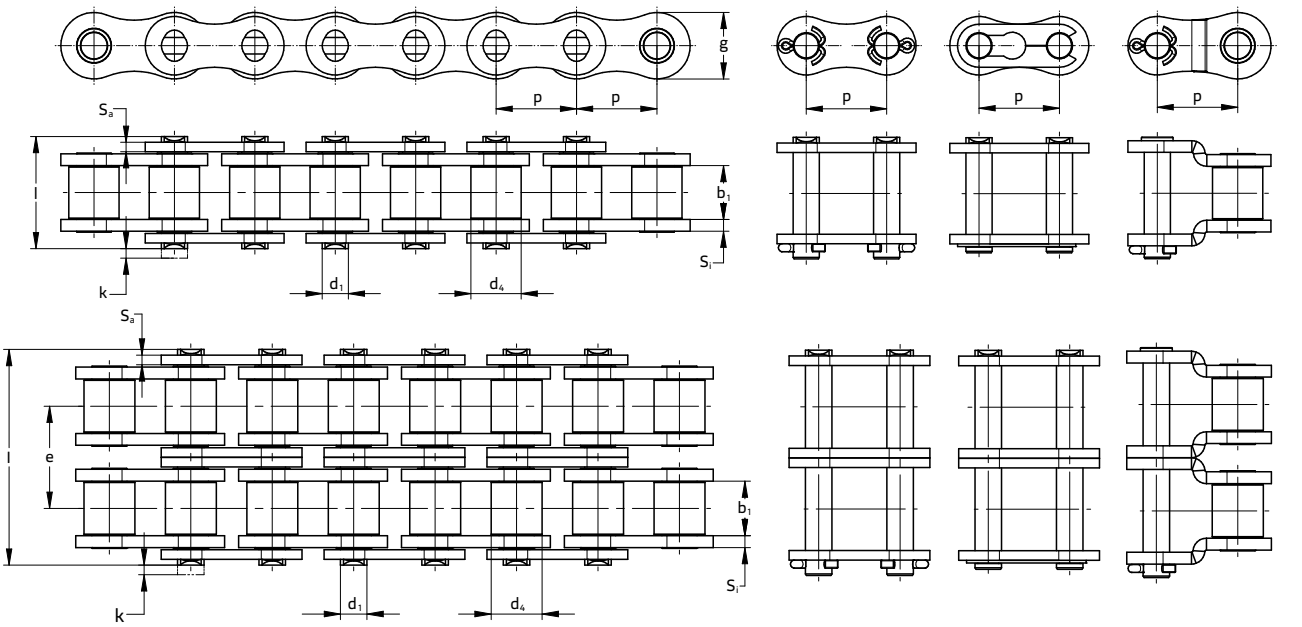
SS roller chains
KW SS simplex, KW SS duplex

Drawings / product data (European & American standard)



KettenWulf stainless steel roller chains

KW SS simplex, sizes according to European standard — **ISO 606 / DIN 8187**

Designation	Pitch [mm]	Min. inner width [mm]	Max. protection roller Ø [mm]	Max. pin Ø [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 [cm²]	Min. breaking load [N]	Weight [kg/m]
Chain type	p	b_1	d_4	d_1	l	k	S_i	S_a	g	e	f	F_B	≈q
KW 06BSS	9.525	5.72	6.35	3.28	13.50	3.30	1.30	1.30	8.20	-	0.28	5800	0,38
KW 08BSS	12.700	7.75	8.51	4.45	17.00	2.30	1.50	1.50	11.75	-	0.50	10700	0,68
KW 10BSS	15.875	9.65	10.16	5.08	18.60	3.10	1.65	1.65	14.65	-	0.67	14700	0,86
KW 12BSS	19.050	11.68	12.07	5.72	22.70	2.70	1.80	1.80	16.10	-	0.89	18600	1,21
KW 16BSS	25.400	17.02	15.88	8.28	36.10	7.00	4.00	3.20	20.40	-	2.10	39200	2,66
KW C16BSS*	25.400	17.02	15.88	8.28	36.10	7.00	4.00	3.20	21.00	-	2.10	39200	2,80
KW 20BSS	31.750	19.56	19.05	10.19	40.20	7.20	4.50	3.20	26.00	-	2.96	58000	3,62
KW 24BSS	38.100	25.40	25.40	14.63	51.80	5.20	6.00	4.80	33.40	-	5.54	90000	7,00
KW 32BSS	50.800	31.00	29.21	17.81	65.20	7.80	6.90	6.30	42.00	-	8.10	150000	10,50

KW SS simplex, sizes according to American standard — **ISO 606 / DIN 8188**

Chain type	p	b_1	d_4	d_1	l	k	S_i	S_a	g	e	f	F_B	≈q
KW 60SS	19.050	12.58	11.91	5.96	26.90	2.90	2.40	2.40	17.40	–	1.05	24300	1.44
KW 80SS	25.400	15.75	15.88	7.94	33.50	5.00	3.20	3.20	23.15	–	1.77	43100	2.83

KW SS duplex, sizes according to European standard — **ISO 606 / DIN 8187**

Chain type	p	b_1	d_4	d_1	l	k	S_i	S_a	g	e	f	F_B	≈q
KW 06B-2SS	9.525	5.72	6.35	3.28	23.80	2.00	1.30	1.10	8.20	10.24	0.56	11600	0.74
KW 08B-2SS	12.700	7.75	8.51	4.45	31.00	1.30	1.50	1.50	11.75	13.92	1.01	21400	1.34
KW 10B-2SS	15.875	9.65	10.16	5.08	36.20	2.00	1.65	1.65	14.65	15.69	1.34	29400	1.81
KW 12B-2SS	19.050	11.68	12.07	5.72	42.20	1.40	1.80	1.80	16.10	19.46	1.79	37200	2.40
KW 16B-2SS	25.400	17.02	15.88	8.28	68.00	3.60	4.00	3.20	20.40	31.88	4.24	78400	5.28
KW C16B-2SS*	25.400	17.02	15.88	8.28	68.00	3.60	4.00	3.20	21.00	31.88	4.24	78400	5.80

* straight link plate ›› other sizes available on 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									

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