



iRiS
chains

SINCE
1935

Corrosion resistant chains

The variety of model of stainless steel chains, are reliable, fatigue and corrosion-resistant, and they are ideal for use in applications involving food and beverage industry

Corrosion resistant chains

The variety of model of stainless steel chains, are reliable, fatigue and corrosion-resistant, and they are ideal for use in applications involving food and beverage industry. For permanent corrosion resistance, a sufficient regular lubrication is necessary. All kind of special solutions are available under request. Tensile strength is approximately 65 % that of standard carbon steel in 304 and 306 Series. In 631 Series the tensile strength increases until 90 % of the standard carbon steel.

SERVICES

Many references available in stock

Standard attachments chains in 48 h

Specific product on request

Matched pairs on request for chains working in parallel

Chains of any length

Various special lubricants available

Technical assistance

Highlights

- ▶ Required in corrosive environments(presence of chemical agents as alkalics and acids)
- ▶ Temperature below freezing point and high temperature applications.
- ▶ SS chains have lower mechanical characteristics than carbon steel.
- ▶ Cost much higher.
- ▶ For middle corrosive environments, Deal Seal and nickel plated might be a more adequate solution.

Performance of anti-corrosive stainless steel

	Corrosion resistance	Temperature resistance	Magnetism	Wear resistance
304 SS SERIES	Good for general acid, alkalic and water	+40° to -400° (Never use below 160° or over 700°)	Slightly magnetic	Fair
316 SS SERIES	Superior to 340 SS and 600 SS	+40° to -400° (Never use below 250° or over 800°)	Non-magnetic	Fair
600 SS SERIES	Good for general acid, alkalic and water	+40° to -400° (Never use over 500°)	Magnetic	Excellent

304 SS SERIES

304 SS series are made completely of 304 stainless steel (austenitic non-magnetic steel). SS Series has an excellent resistance to corrosion and temperature extremes. These steel can withstand operating temperatures up to 400°, with special lubrication without problems. It's non-magnetic, although some permeability can be found.

316 SS SERIES

SS series are made completely of 316 stainless steel. It is the most corrosion resistant standard stainless steel chain. It has also the highest resistance to temperature extremes. The load capacity is equal to 304 SS. It's our non-magnetic chains, because its extremely low magnetic permeability.

600 AS SERIES

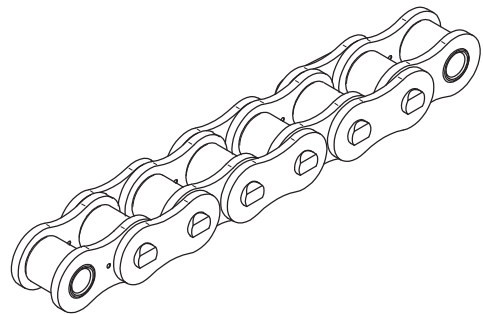
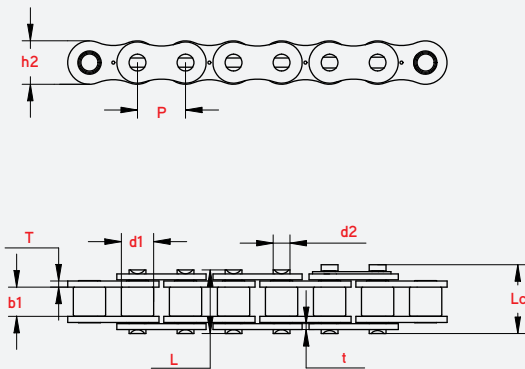
AISI 600 hardened by precipitation(PH) stainless steel are used in particular on rounded parts(pins, rollers and bushing). Link plates are made of 304 stainless steel. AISI 600 is an excellent choice for drives requiring both corrosion resistance and high mechanical resistance. Magnetic steels.

POLY-STEEL SERIES

It is made of moulded engineered plastic with 304 stainless steel pin links. This combination effectively incorporates the advantages of both materials into one chain. It has a superior wear life, excellent corrosion resistance, and requires no lubrication. This design provides a lightweight, quiet chain for economical solutions to difficult applications problems.

Corrosion resistant chains

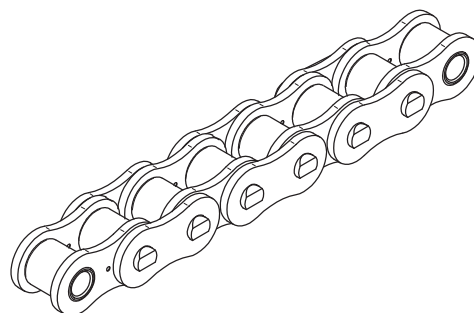
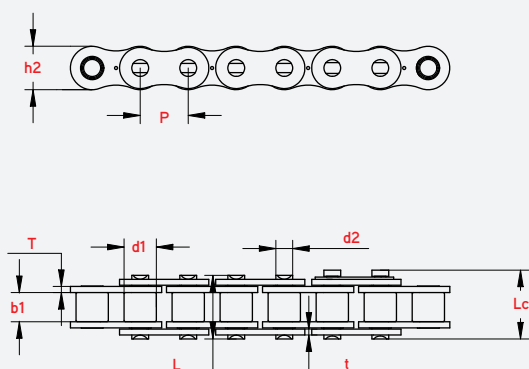
ISO SERIES	Pitch mm	Roller diameter mm	Width between plates mm	Pin diameter mm	Pin length mm		Inner Plate depth mm	Plate thickness mm	304 SERIES	316 SERIES	600 SERIES	Weight per meter kg/m
									Minimum Tensile strength KN	Minimum Tensile strength KN	Minimum Tensile strength KN	
DIN/ISO No.	P	d1 max	b1 min	d2 max	L max	Lc max	h2 max	t/T max	Q min	Q min	Q min	q
SIMPLEX												
4BSS-1	6,000	4,00	2,80	1,85	6,80	7,80	5,00	0,60	2,00	2,00		0,11
5BSS-1	8,000	5,00	3,00	2,31	8,20	8,90	7,10	0,80	3,50	3,50		0,20
6BSS-1	9,525	6,35	5,72	3,28	13,15	14,10	8,20	1,20	6,20	6,20		0,41
8BSS-1	12,700	8,51	7,75	4,45	16,70	18,20	11,80	1,50	12,00	12,00	18,00	0,69
10BSS-1	15,875	10,16	9,65	5,08	19,50	20,90	14,70	1,60	14,50	14,50	21,75	0,93
12BSS-1	19,050	12,07	11,68	5,72	22,50	24,20	16,00	1,80	18,50	18,50	27,75	1,15
16BSS-1	25,400	15,88	17,02	8,28	36,10	37,40	21,00	4,0/3,0	40,00	40,00	60,00	2,71
20BSS-1	31,750	19,05	19,56	10,19	41,30	45,00	26,40	4,00	59,00	59,00		3,70
24BSS-1	38,100	25,40	25,40	14,63	53,40	57,80	33,20	6,0/4,8	104,00	104,00		7,10
28BSS-1	44,450	27,94	30,99	15,90	65,10	69,50	36,70	7,5/6,0	120,00	120,00		8,50
32BSS-1	50,800	29,21	30,99	17,81	66,00	71,00	42,00	7,0/6,0	150,00	150,00		10,25
DUPLEX												
5BSS-2	8,000	5,00	3,00	2,31	13,90	14,50	7,10	0,80	3,90	3,90		0,33
6BSS-2	9,525	6,35	5,72	3,28	23,40	24,40	8,20	1,20	8,45	8,45		0,77
8BSS-2	12,700	8,51	7,75	4,45	31,20	32,20	11,80	1,50	16,00	16,00		1,34
10BSS-2	15,875	10,16	9,65	5,08	36,10	37,50	14,70	1,60	22,25	22,25		1,84
12BSS-2	19,050	12,07	11,68	5,72	42,00	43,60	16,00	1,80	28,90	28,90		2,31
16BSS-2	25,400	15,88	17,02	8,28	68,00	69,30	21,00	4,0/3,0	53,00	53,00		5,42
20BSS-2	31,750	19,05	19,56	10,19	77,80	81,50	26,40	4,00	85,00	85,00		7,20
24BSS-2	38,100	25,40	25,40	14,63	101,70	106,20	33,20	6,0/4,8	140,00	140,00		13,40
28BSS-2	44,450	27,94	30,99	15,90	124,60	129,10	36,70	7,5/6,0	180,00	180,00		16,60
32BSS-2	50,800	29,21	30,99	17,81	124,60	129,60	42,00	7,0/6,0	225,00	225,00		21,00
TRIPLEX												
5BSS-3	8,000	5,00	3,00	2,31	19,50	20,20	7,10	0,80	7,20	7,20		0,48
6BSS-3	9,525	6,35	5,72	3,28	33,50	34,60	8,20	1,20	16,20	16,20		1,16
8BSS-3	12,700	8,51	7,75	4,45	45,10	46,10	11,80	1,50	30,80	30,80		2,03
10BSS-3	15,875	10,16	9,65	5,08	52,70	54,10	14,70	1,60	43,40	43,40		2,77
12BSS-3	19,050	12,07	11,68	5,72	61,50	63,10	16,00	1,80	46,00	46,00		3,46
16BSS-3	25,400	15,88	17,02	8,28	99,80	101,20	21,00	4,0/3,0	104,00	104,00		8,13
20BSS-3	31,750	19,05	19,56	10,19	114,20	117,90	26,40	4,00	163,00	163,00		10,82
24BSS-3	38,100	25,40	25,40	14,63	150,10	154,60	33,20	6,0/4,8	276,00	276,00		20,10
28BSS-3	44,450	27,94	30,99	15,90	184,20	188,70	36,70	7,5/6,0	345,00	345,00		24,92
32BSS-3	50,800	29,21	30,99	17,81	183,20	188,20	42,00	7,0/6,0	435,00	435,00		31,56



Corrosion resistant chains

ASA SERIES									304 SERIES	316 SERIES	600 SERIES	
	Pitch	Roller diameter	Width between plates	Pin diameter	Pin length		Inner Plate depth	Plate thickness	Minimum Tensile strength	Minimum Tensile strength	Minimum Tensile strength	Weight per meter
DIN/ISO No.	P mm	d1 max mm	b1 min mm	d2 max mm	L max mm	Lc max mm	h2 max mm	t/T max mm	Q min KN	Q min KN	Q min KN	q kg/m
SIMPLEX												
*04ASS-1	*25SS	6,350	3,30	2,31	7,90	8,40	6,00	0,75	2,50	2,50		0,15
*06ASS-1	*35SS	9,525	5,08	3,58	12,40	13,17	9,00	1,20	5,50	5,50		0,33
085SS-1	41SS	12,700	7,77	3,58	13,75	15,00	9,91	1,20	6,00	6,00	9,00	0,41
08ASS-1	40SS	12,700	7,95	3,96	16,60	17,80	12,00	1,50	9,60	9,60	14,40	0,62
10ASS-1	50SS	15,875	10,16	5,08	20,70	22,20	15,09	2,00	15,20	15,20	22,80	1,02
12ASS-1	60SS	19,050	11,91	5,94	25,90	27,70	18,00	2,40	21,70	21,70	32,55	1,50
16ASS-1	80SS	25,400	15,88	7,92	32,70	35,00	24,00	3,00	38,90	38,90	58,35	2,60
20ASS-1	100SS	31,750	19,05	9,53	40,40	44,70	30,00	4,00	60,00	60,00		3,91
24ASS-1	120SS	38,100	22,23	11,10	50,30	54,30	35,70	4,80	88,90	88,90		5,62
28ASS-1	140SS	44,450	25,40	12,70	54,40	59,00	41,00	5,60	103,44	103,44		7,50
32ASS-1	160SS	50,800	28,58	14,27	64,80	69,60	47,80	6,40	136,08	136,08		10,10
DUPLEX												
*04ASS-2	*25SS	6,350	3,30	2,31	14,50	15,00	6,00	0,75	3,50	3,50		0,63
*06ASS-2	*35SS	9,525	5,08	3,58	22,50	23,30	9,00	1,20	7,90	7,90		0,81
085SS-2	41SS	12,700	7,77	3,58	25,70	26,90	9,91	1,20	6,67	6,67		1,12
08ASS-2	40SS	12,700	7,95	3,96	31,00	32,20	12,00	1,50	14,10	14,10		2,00
10ASS-2	50SS	15,875	10,16	5,08	38,90	40,40	15,09	2,00	22,20	22,20		2,92
12ASS-2	60SS	19,050	11,91	5,94	48,80	50,50	18,00	2,40	31,80	31,80		5,15
16ASS-2	80SS	25,400	15,88	7,92	62,70	64,30	24,00	3,00	56,70	56,70		7,80
20ASS-2	100SS	31,750	19,05	9,53	76,40	80,50	30,00	4,00	88,50	88,50		11,70
24ASS-2	120SS	38,100	22,23	11,10	95,80	99,70	35,70	4,80	127,00	127,00		15,14
28ASS-2	140SS	44,450	25,40	12,70	103,30	107,90	41,00	5,60	172,40	172,40		20,14
32ASS-2	160SS	50,800	28,58	14,27	123,30	128,10	47,80	6,40	226,80	226,80		29,22
TRIPLEX												
*04ASS-2	*25SS	6,350	3,30	2,31	21,00	21,50	6,00	0,75	5,25	5,25		0,44
*06ASS-2	*35SS	9,525	5,08	3,58	32,70	33,50	9,00	1,20	11,85	11,85		1,05
08ASS-2	40SS	12,700	7,95	3,96	45,40	46,60	12,00	1,50	33,30	33,30		1,90
10ASS-2	50SS	15,875	10,16	5,08	57,00	58,50	15,09	2,00	47,70	47,70		3,09
12ASS-2	60SS	19,050	11,91	5,94	71,50	73,30	18,00	2,40	85,05	85,05		4,54
16ASS-2	80SS	25,400	15,88	7,92	91,70	93,60	24,00	3,00	132,75	132,75		7,89
20ASS-2	100SS	31,750	19,05	9,53	112,20	116,30	30,00	4,00	190,50	190,50		11,70
24ASS-2	120SS	38,100	22,23	11,10	141,40	145,20	35,70	4,80	258,50	258,50		17,53
28ASS-2	140SS	44,450	25,40	12,70	152,20	156,80	41,00	5,60	340,20	340,20		22,20
32ASS-2	160SS	50,800	28,58	14,27	181,80	186,60	47,80	6,40	420,35	420,35		30,02

* **Bushing chain:** d 1 indicate the external diameter of the bushing.



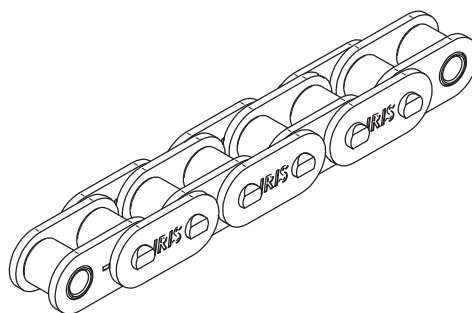
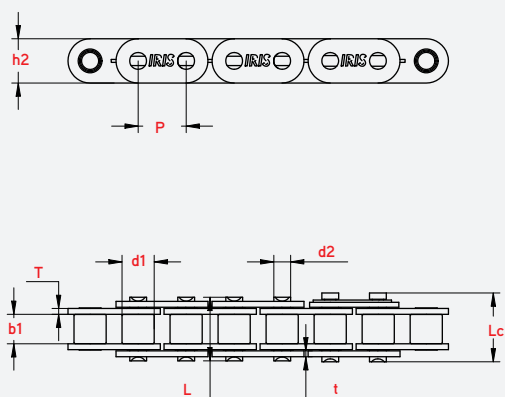
Corrosion resistant chains

SS series straight plates

ISO SERIES

	Pitch	Roller diameter	Width between plates	Pin diameter	Pin length	Inner Plate depth	Plate thickness	Minimum Tensile strength	Weight per meter
DIN/ISO No.	P mm	d1 max mm	b1 min mm	d2 max mm	L max mm	h2 max mm	t/T max mm	Q min KN	q kg/m
SIMPLEX									
C08ASS-1	C40SS	12,700	7,85	3,96	16,60	12,00	1,50	9,80	0,72
C10ASS-1	C50SS	15,875	9,40	5,08	20,70	15,09	2,00	16,20	1,22
C12ASS-1	C60SS	19,050	12,57	5,94	25,90	18,00	2,40	21,00	1,80
C16ASS-1	C80SS	25,400	15,75	7,92	32,70	24,00	3,00	36,00	3,10
C20ASS-1	C100SS	31,750	18,90	9,53	40,40	30,00	4,00	58,90	4,55
C24ASS-1	C120SS	38,100	25,22	11,10	50,30	35,70	4,80	92,80	6,87
DUPLEX									
C08ASS-2	C40SS	12,700	7,85	3,96	31,00	12,00	1,50	21,20	1,44
C10ASS-2	C50SS	15,875	9,40	5,08	38,90	15,09	2,00	32,04	2,45
C12ASS-2	C60SS	19,050	12,57	5,94	48,80	18,00	2,40	48,07	3,59
C16ASS-2	C80SS	25,400	15,75	7,92	62,70	24,00	3,00	86,50	6,14
C20ASS-2	C100SS	31,750	18,90	9,53	76,40	30,00	4,00	123,40	9,12
C24ASS-2	C120SS	38,100	25,22	11,10	95,80	35,70	4,80	180,30	13,70
TRIPLEX									
C08ASS-3	C40SS	12,700	7,85	3,96	45,40	12,00	1,50	30,00	2,15
C10ASS-3	C50SS	15,875	9,40	5,08	57,00	15,09	2,00	57,10	3,64
C12ASS-3	C60SS	19,050	12,57	5,94	71,50	18,00	2,40	69,30	5,37
C16ASS-3	C80SS	25,400	15,75	7,92	91,70	24,00	3,00	130,50	9,13
C20ASS-3	C100SS	31,750	18,90	9,53	112,20	30,00	4,00	169,60	13,62
C24ASS-3	C120SS	38,100	25,22	11,10	141,40	35,70	4,80	262,30	20,45

* **Bushing chain:** d 1 indicate the external diameter of the bushing.

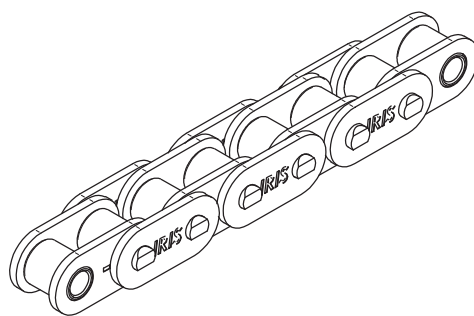
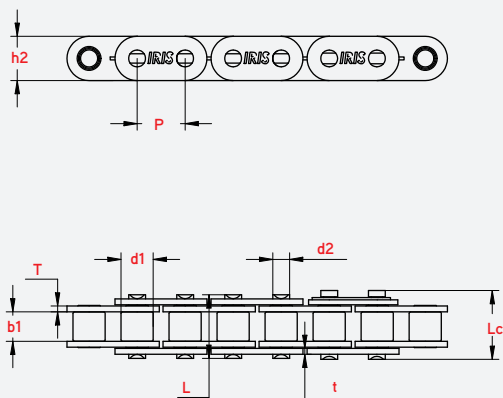


Corrosion resistant chains

SS series straight plates

ASA SERIES

	Pitch	Roller diameter	Width between plates	Pin diameter	Pin length	Inner Plate depth	Plate thickness	Minimum Tensile strength	Weight per meter
DIN/ISO No.	P mm	d1 max mm	b1 min mm	d2 max mm	L max mm	h2 max mm	t/T max mm	Q min KN	q kg/m
SIMPLEX									
C08ASS-1	C40SS	12,700	7,85	3,96	16,60	12,00	1,50	9,80	0,72
C10ASS-1	C50SS	15,875	9,40	5,08	20,70	15,09	2,00	16,20	1,22
C12ASS-1	C60SS	19,050	12,57	5,94	25,90	18,00	2,40	21,00	1,80
C16ASS-1	C80SS	25,400	15,75	7,92	32,70	24,00	3,00	36,00	3,10
C20ASS-1	C100SS	31,750	18,90	9,53	40,40	30,00	4,00	58,90	4,55
C24ASS-1	C120SS	38,100	25,22	11,10	50,30	35,70	4,80	92,80	6,87
DUPLEX									
C08ASS-2	C40SS	12,700	7,85	3,96	31,00	12,00	1,50	21,20	1,44
C10ASS-2	C50SS	15,875	9,40	5,08	38,90	15,09	2,00	32,04	2,45
C12ASS-2	C60SS	19,050	12,57	5,94	48,80	18,00	2,40	48,07	3,59
C16ASS-2	C80SS	25,400	15,75	7,92	62,70	24,00	3,00	86,50	6,14
C20ASS-2	C100SS	31,750	18,90	9,53	76,40	30,00	4,00	123,40	9,12
C24ASS-2	C120SS	38,100	25,22	11,10	95,80	35,70	4,80	180,30	13,70
TRIPLEX									
C08ASS-3	C40SS	12,700	7,85	3,96	45,40	12,00	1,50	30,00	2,15
C10ASS-3	C50SS	15,875	9,40	5,08	57,00	15,09	2,00	57,10	3,64
C12ASS-3	C60SS	19,050	12,57	5,94	71,50	18,00	2,40	69,30	5,37
C16ASS-3	C80SS	25,400	15,75	7,92	91,70	24,00	3,00	130,50	9,13
C20ASS-3	C100SS	31,750	18,90	9,53	112,20	30,00	4,00	169,60	13,62
C24ASS-3	C120SS	38,100	25,22	11,10	141,40	35,70	4,80	262,30	20,45



Corrosion resistant chains

Polysteel series

ISO SERIES

	Pitch	Roller diameter	Width between plates	Pin diameter	Pin length	Inner Plate depth	Plate thickness	Minimum Tensile strength	Weight per meter
DIN/ISO No.	P mm	d1 max mm	b1 min mm	d2 max mm	L max mm	h2 max mm	t/T max mm	Q min KN	q kg/m
08B-1 SS PL	12,700								
10B-1 SS PL	15,875	8,51	7,75	4,45	16,70	11,80	1,50	12,20	0,82
12B-1 SS PL	19,050	10,16	9,65	5,08	19,50	14,70	1,60	16,20	1,07
16B-1 SS PL	25,400	12,07	11,68	5,72	22,50	16,00	1,80	17,70	1,33
			17,02						3,10

