



iRiS
chains

SINCE
1935

Standard roller chains

IRIS Standard precision roller chains are designed and manufactured to meet or exceed ANSI, ISO, DIN, and BS requirements

Standard roller chains



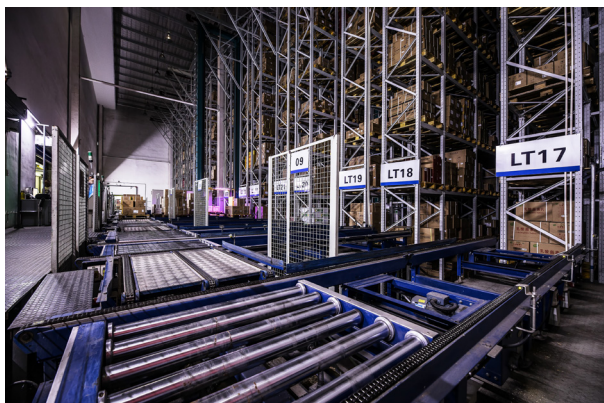
IRIS Standard precision roller chains are designed and manufactured to meet and exceed ISO, DIN, ANSI and BS requirements. Commonly found in a variety of industrial drive systems, IRIS chains are engineered and built for high performance even in the toughest applications, ensuring a long service life.

IRIS conveyor chains offer the user the benefits of parallel and synchronous running, extremely precise positioning, quiet running and significantly higher breaking resistance than the norm. As a result, downtime is minimised and there is a significant reduction of the operating costs.

Our standard lubrication ensures resistance to a temperature range from -5° C to +120° C: a particular lube can be applied upon request for applications with temperatures from -30 °C to 250 °C.

Highlights

- ▶ All IRIS Standard roller chains meet or exceed the requirements of ISO 606.
- ▶ Initial stretching contributes to a higher fatigue strength.
- ▶ All components are heat-treated according to their size and application.
- ▶ Precision-formed plates feature shot peening for higher resistance.
- ▶ Pins' surface is smooth and wear-resistant.
- ▶ Bushes are geometrically cylindrical.
- ▶ Special initial lubricant is applied to increase resistance.



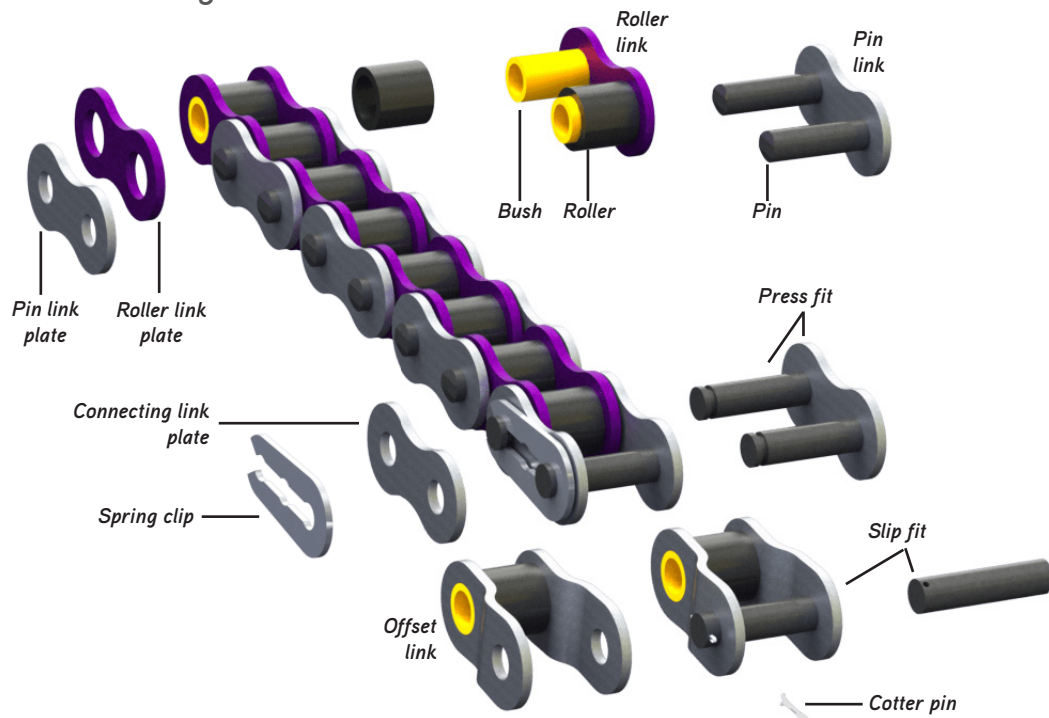
IRIS CHAIN OPTIONS

With a thorough understanding of the European market demand, all of our main products are available in stock and comply with both British Standards and those stipulated by ANSI.

From transmission chains, to chains with attachments for driving applications, corrosion-resistant versions or lube-free solutions, even for the most exacting client requirements, IRIS has a series of products for each client application.

Standard roller chains

Chain structure and connecting links



IRIS Standard roller chains are able to convey mechanical power in a highly efficient and adjustable manner for a great variety of industrial applications. The illustration above shows in detail the structure and its parts, as well as the connecting links that held the components.

Industries

- ▶ Industrial handling
- ▶ End of line food packaging machinery
- ▶ Pharmaceutical sector
- ▶ Confectionery production plants
- ▶ Pasta production and bakery machinery
- ▶ Painting systems
- ▶ Wood industry machinery
- ▶ Ceramic systems
- ▶ And many more industry applications

SERVICES

Many references available in stock

Specific product on request

Matched pairs on request for chains working in parallel

Chains of any length

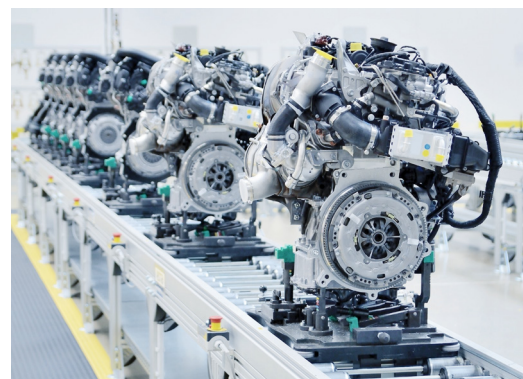
Technical assistance

Initial treatment with standard lubrication

for higher resistance

Special lubrication at request for

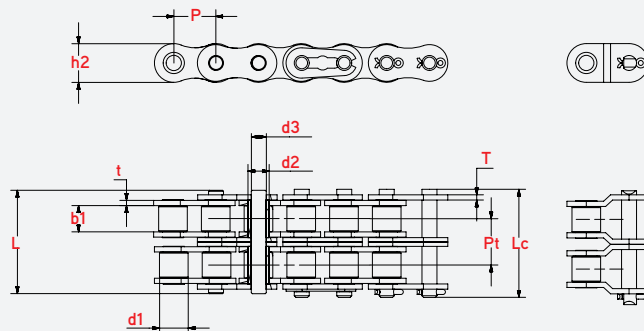
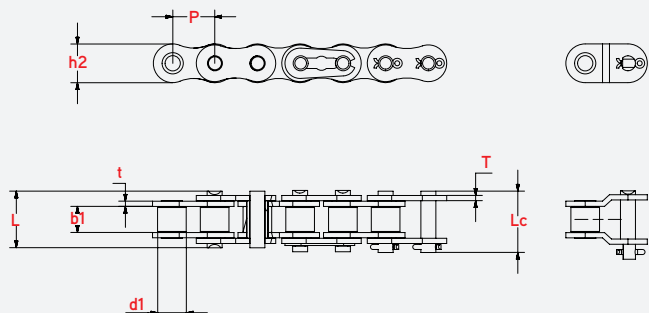
extreme temperature conditions



ISO Series DIN ISO 606 (DIN 8187)

Simple Strand

Double Strand

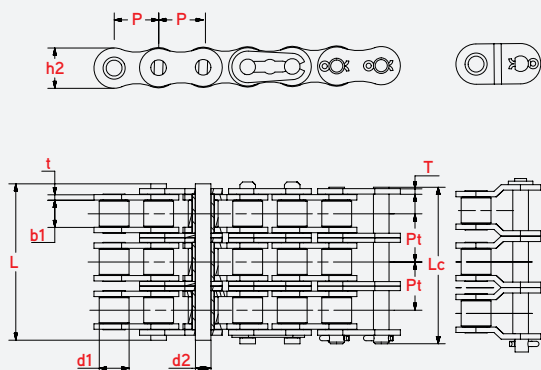


		Pitch	Roller diameter	Width between plates	Pin diameter	Pin length		Inner Plate depth	Plate thickness	Minimum Tensile strength	Weight per meter
DIN/ISO No.	Material	P mm	d1 max mm	b1 min mm	d2 max mm	L max mm	Lc max mm	h2 max mm	t/T max mm	Q min KN	q kg/m
Simple Strand											
04B-1	CS, NP, DT, SS	6,000	4,00	2,80	1,85	6,80	7,80	5,00	0,60	3,00	0,11
05B-1	CS, NP, DT, SS	8,000	5,00	3,00	2,31	8,20	8,90	7,10	0,80	5,00	0,20
*06B-1	CS, NP, DT, SS	9,525	6,35	5,72	3,28	13,15	14,10	8,20	1,30	9,00	0,41
08B-1	CS, NP, DT, SS	12,700	8,51	7,75	4,45	16,70	18,20	11,80	1,60	18,00	0,69
10B-1	CS, NP, DT, SS	15,875	10,16	9,65	5,08	19,50	20,90	14,70	1,70	22,40	0,93
12B-1	CS, NP, DT, SS	19,050	12,07	11,68	5,72	22,50	24,20	16,00	1,85	29,00	1,15
16B-1	CS, NP, DT, SS	25,400	15,88	17,02	8,28	36,10	37,40	21,00	4,15/3,1	60,00	2,71
20B-1	CS, NP, DT, SS	31,750	19,05	19,56	10,19	41,30	45,00	26,40	4,5/3,5	95,00	3,70
24B-1	CS, DT, SS	38,100	25,40	25,40	14,63	53,40	57,80	33,20	6,0/4,8	160,00	7,10
28B-1	CS, DT, SS	44,450	27,94	30,99	15,90	65,10	69,50	36,70	7,5/6,0	200,00	8,50
32B-1	CS, SS	50,800	29,21	30,99	17,81	66,00	71,00	42,00	7,0/6,0	250,00	10,25
40B-1	CS, SS	63,500	39,37	38,10	22,89	82,20	89,20	52,96	8,5/8,0	355,00	16,35
48B-1	CS, SS	76,200	48,26	45,72	29,24	99,10	107,00	63,80	12,0/10,0	560,00	25,00
Double Strand											
05B-2	CS, NP, DT, SS	8,000	5,00	3,00	2,31	13,90	14,50	7,10	0,80	7,80	0,33
*06B-2	CS, NP, DT, SS	9,525	6,35	5,72	3,28	23,40	24,40	8,20	1,30	16,90	0,77
08B-2	CS, NP, DT, SS	12,700	8,51	7,75	4,45	31,20	32,20	11,80	1,60	32,00	1,34
10B-2	CS, NP, DT, SS	15,875	10,16	9,65	5,08	36,10	37,50	14,70	1,70	44,50	1,84
12B-2	CS, NP, DT, SS	19,050	12,07	11,68	5,72	42,00	43,60	16,00	1,85	57,80	2,31
16B-2	CS, NP, DT, SS	25,400	15,88	17,02	8,28	68,00	69,30	21,00	4,15/3,1	106,00	5,42
20B-2	CS, NP, DT, SS	31,750	19,05	19,56	10,19	77,80	81,50	26,40	4,5/3,5	170,00	7,20
24B-2	CS, DT, SS	38,100	25,40	25,40	14,63	101,70	106,20	33,20	6,0/4,8	280,00	13,40
28B-2	CS, DT, SS	44,450	27,94	30,99	15,90	124,60	129,10	36,70	7,5/6,0	360,00	16,60
32B-2	CS, SS	50,800	29,21	30,99	17,81	124,60	129,60	42,00	7,0/6,0	450,00	21,00
40B-2	CS, SS	63,500	39,37	38,10	22,89	154,50	161,50	52,96	8,5/8,0	630,00	32,00
48B-2	CS, SS	76,200	48,26	45,72	29,24	190,40	198,20	63,80	12,0/10,0	1.000,00	50,00

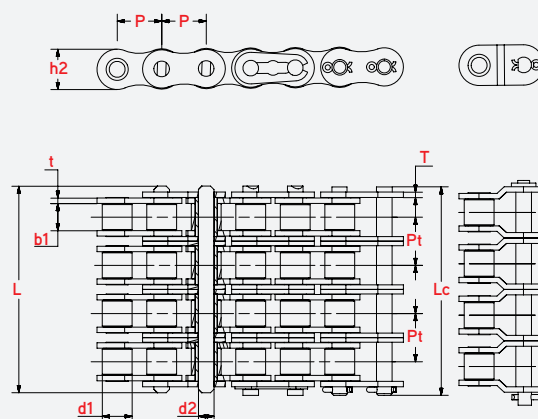
* Straight side plates.

ISO Series DIN ISO 606 (DIN 8187)

Triple Strand

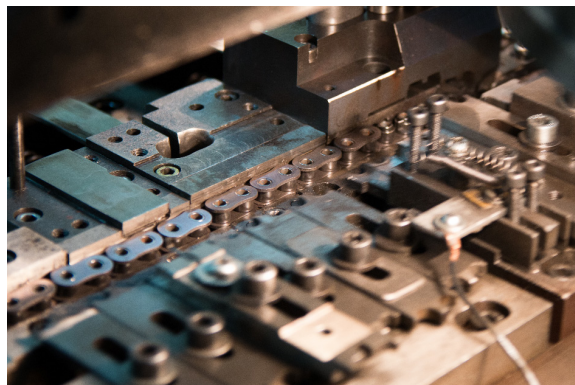


Quadruple Strand



		Pitch	Roller diameter	Width between plates	Pin diameter	Pin length		Inner Plate depth	Plate thickness	Minimum Tensile strength	Weight per meter
DIN/ISO No.	Material	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 kg/m
Triple Strand											
05B-3	CS, NP, DT, SS	8,000	5,00	3,00	2,31	19,50	20,20	7,10	0,80	11,10	0,48
*06B-3	CS, NP, DT, SS	9,525	6,35	5,72	3,28	33,50	34,60	8,20	1,30	24,90	1,16
08B-3	CS, NP, DT, SS	12,700	8,51	7,75	4,45	45,10	46,10	11,80	1,60	47,50	2,03
10B-3	CS, NP, DT, SS	15,875	10,16	9,65	5,08	52,70	54,10	14,70	1,70	66,70	2,77
12B-3	CS, NP, DT, SS	19,050	12,07	11,68	5,72	61,50	63,10	16,00	1,85	86,70	3,46
16B-3	CS, NP, DT, SS	25,400	15,88	17,02	8,28	99,80	101,20	21,00	4,15/3,1	160,00	8,13
20B-3	CS, NP, DT, SS	31,750	19,05	19,56	10,19	114,20	117,90	26,40	4,5/3,5	250,00	10,82
24B-3	CS, DT, SS	38,100	25,40	25,40	14,63	150,10	154,60	33,20	6,0/4,8	425,00	20,10
28B-3	CS, DT, SS	44,450	27,94	30,99	15,90	184,20	188,70	36,70	7,5/6,0	530,00	24,92
32B-3	CS, SS	50,800	29,21	30,99	17,81	183,20	188,20	42,00	7,0/6,0	670,00	31,56
40B-3	CS, SS	63,500	39,37	38,10	22,89	226,80	233,80	52,96	8,5/8,0	950,00	48,10
48B-3	CS, SS	76,200	48,26	45,72	29,24	281,60	289,40	63,80	12,0/10,0	1.500,00	75,00
Quadruple Strand											
08B-4	CS, NP, DT, SS	12,700	8,51	7,75	4,45	58,30	66,10	11,80	1,60	65,85	2,72
10B-4	CS, NP, DT, SS	15,875	10,16	9,65	5,08	68,80	77,00	14,70	1,70	88,00	3,47
12B-4	CS, NP, DT, SS	19,050	12,07	11,68	5,72	81,00	99,20	16,00	1,85	115,80	4,78
16B-4	CS, NP, DT, SS	25,400	15,88	17,02	8,28	132,00	142,80	21,00	4,15/3,1	222,00	10,39
20B-4	CS, NP, DT, SS	31,750	19,05	19,56	10,19			26,40	4,5/3,5		

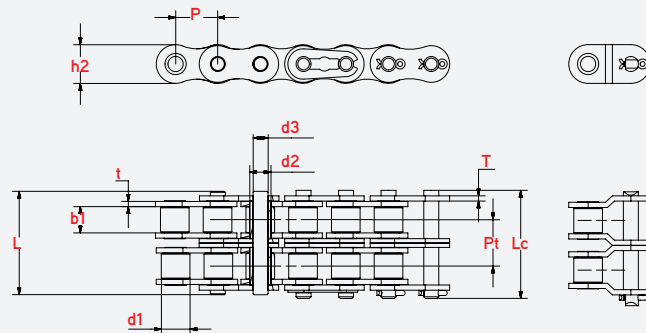
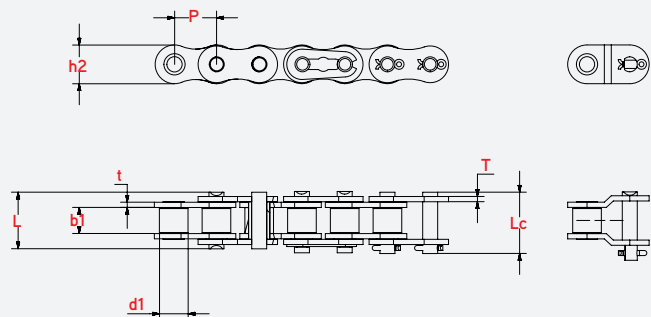
* Straight side plates.



ASA Series DIN ISO 606 (DIN 8188)

Simple Strand

Double Strand

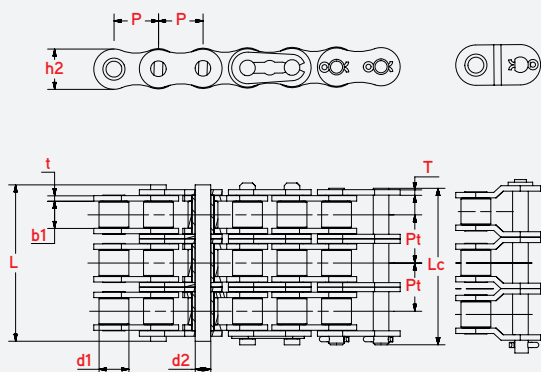


			Pitch	Roller diameter	Width between plates	Pin diameter	Pin length		Inner Plate depth	Plate thickness	Minimum Tensile strength	Weight per meter
DIN/ISO No.	ANSI No.	Material	P mm	d1 max mm	b1 min mm	d2 max mm	L max mm	Lc max mm	h2 max mm	t/T max mm	Q min KN	q kg/m
Simple Strand												
*04A-1	*25	CS, DT, SS	6,350	3,30	3,18	2,31	7,90	8,40	6,00	0,80	3,50	0,15
*06A-1	*35	CS, DT, SS	9,525	5,08	4,77	3,58	12,40	13,17	9,00	1,30	7,90	0,33
08A-1	40	CS, DT, SS	12,700	7,95	7,85	3,96	16,60	17,80	12,00	1,50	14,10	0,62
10A-1	50	CS, DT, SS	15,875	10,16	9,40	5,08	20,70	22,20	15,09	2,03	22,20	1,02
12A-1	60	CS, DT, SS	19,050	11,91	12,57	5,94	25,90	27,70	18,00	2,42	31,80	1,50
16A-1	80	CS, DT, SS	25,400	15,88	15,75	7,92	32,70	35,00	24,00	3,25	56,70	2,60
20A-1	100	CS, DT, SS	31,750	19,05	18,90	9,53	40,40	44,70	30,00	4,00	88,50	3,91
24A-1	120	CS, DT, SS	38,100	22,23	25,22	11,10	50,30	54,30	35,70	4,80	127,00	5,62
28A-1	140	CS, SS	44,450	25,40	25,22	12,70	54,40	59,00	41,00	5,60	172,40	7,50
32A-1	160	CS, SS	50,800	28,58	31,55	14,27	64,80	69,60	47,80	6,40	226,80	10,10
36A-1	180	CS, SS	57,150	35,71	35,48	17,46	72,80	78,60	53,60	7,20	280,20	13,45
40A-1	200	CS, SS	63,500	39,68	37,85	19,85	80,30	87,20	60,00	8,00	353,80	16,15
48A-1	240	CS, SS	76,200	47,63	47,35	23,81	95,50	103,00	72,39	9,50	510,30	23,20
Double Strand												
*04A-2	*25-2	CS, DT, SS	6,350	3,30	3,18	2,31	14,50	15,00	6,00	0,80	7,00	0,28
*06A-2	*35-2	CS, DT, SS	9,525	5,08	4,77	3,58	22,50	23,30	9,00	1,30	15,80	0,63
08A-2	40-2	CS, DT, SS	12,700	7,95	7,85	3,96	31,00	32,20	12,00	1,50	28,20	1,12
10A-2	50-2	CS, DT, SS	15,875	10,16	9,40	5,08	38,90	40,40	15,09	2,03	44,40	2,00
12A-2	60-2	CS, DT, SS	19,050	11,91	12,57	5,94	48,80	50,50	18,00	2,42	63,60	2,92
16A-2	80-2	CS, DT, SS	25,400	15,88	15,75	7,92	62,70	64,30	24,00	3,25	113,40	5,15
20A-2	100-2	CS, DT, SS	31,750	19,05	18,90	9,53	76,40	80,50	30,00	4,00	177,00	7,80
24A-2	120-2	CS, DT, SS	38,100	22,23	25,22	11,10	95,80	99,70	35,70	4,80	254,00	11,70
28A-2	140-2	CS, SS	44,450	25,40	25,22	12,70	103,30	107,90	41,00	5,60	344,80	15,14
32A-2	160-2	CS, SS	50,800	28,58	31,55	14,27	123,30	128,10	47,80	6,40	453,60	20,14
36A-2	180-2	CS, SS	57,150	35,71	35,48	17,46	138,60	144,40	53,60	7,20	560,50	29,22
40A-2	200-2	CS, SS	63,500	39,68	37,85	19,85	151,90	158,80	60,00	8,00	707,60	32,24
48A-2	240-2	CS, SS	76,200	47,63	47,35	23,81	183,40	190,80	72,39	9,50	1.020,60	45,23

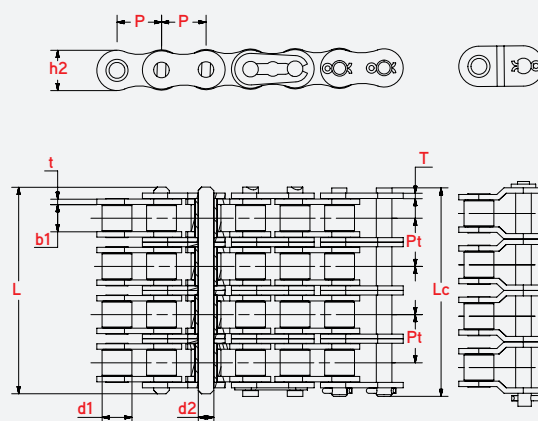
* Bushing chain: d1 indicates the external diameter of the bushing.

ASA Series DIN ISO 606 (DIN 8188)

Triple Strand



Quadruple Strand



			Pitch	Roller diameter	Width between plates	Pin diameter	Pin length		Inner Plate depth	Plate thickness	Minimum Tensile strength	Weight per meter
DIN/ISO No.	ANSI No.	Material	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 kg/m
Triple Strand												
*04A-3	*25-3	CS, DT, SS	6,350	3,30	3,18	2,31	21,00	21,50	6,00	0,80	10,50	0,44
*06A-3	*35-3	CS, DT, SS	9,525	5,08	4,77	3,58	32,70	33,50	9,00	1,30	23,70	1,05
08A-3	40-3	CS, DT, SS	12,700	7,95	7,85	3,96	45,40	46,60	12,00	1,50	42,30	1,90
10A-3	50-3	CS, DT, SS	15,875	10,16	9,40	5,08	57,00	58,50	15,09	2,03	66,60	3,09
12A-3	60-3	CS, DT, SS	19,050	11,91	12,57	5,94	71,50	73,30	18,00	2,42	95,40	4,54
16A-3	80-3	CS, DT, SS	25,400	15,88	15,75	7,92	91,70	93,60	24,00	3,25	170,10	7,89
20A-3	100-3	CS, DT, SS	31,750	19,05	18,90	9,53	112,20	116,30	30,00	4,00	265,50	11,77
24A-3	120-3	CS, DT, SS	38,100	22,23	25,22	11,10	141,40	145,20	35,70	4,80	381,00	17,53
28A-3	140-3	CS, SS	44,450	25,40	25,22	12,70	152,20	156,80	41,00	5,60	517,20	22,20
32A-3	160-3	CS, SS	50,800	28,58	31,55	14,27	181,80	186,60	47,80	6,40	680,40	30,02
36A-3	180-3	CS, SS	57,150	35,71	35,48	17,46	204,40	210,20	53,60	7,20	840,70	38,22
40A-3	200-3	CS, SS	63,500	39,68	37,85	19,85	223,50	230,40	60,00	8,00	1.061,40	49,03
48A-3	240-3	CS, SS	76,200	47,63	47,35	23,81	271,30	278,60	72,39	9,50	1.530,90	71,60
Quadruple Strand												
08A-4	40-4	CS, DT, SS	12,700	7,95	7,85	3,96	59,70	67,50	12,00	1,50	55,20	2,40
10A-4	50-4	CS, DT, SS	15,875	10,16	9,40	5,08	74,50	82,60	15,09	2,03	87,20	4,00
12A-4	60-4	CS, DT, SS	19,050	11,91	12,57	5,94	94,50	103,70	18,00	2,42	124,40	5,66
16A-4	80-4	CS, DT, SS	25,400	15,88	15,75	7,92	121,00	131,80	24,00	3,25	222,40	10,13
20A-4	100-4	CS, DT, SS	31,750	19,05	18,90	9,53	148,50	160,70	30,00	4,00	346,80	15,30

* Bushing chain: d1 indicates the external diameter of the bushing.

ISO and ASA Heavy Series DIN ISO 606 (DIN 8188)

IRIS offers ISO and ASA-standard roller chain series to meet a variety of load-driving requirements.

ISO and ASA Standard Series

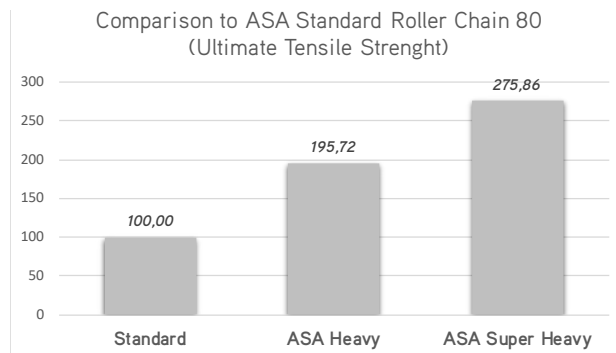
Feature thick link plates and shot peening for higher resistance

ISO and ASA Heavy Series

Provides outstanding resistance to shock and wear due to their extra thick plates and thoroughly hardened pins

ASA Super Heavy Series

Is extraordinarily-resistant to shock load and offers excellent tensile strength thanks to their heat-treated components made from the highest grade of alloy steel



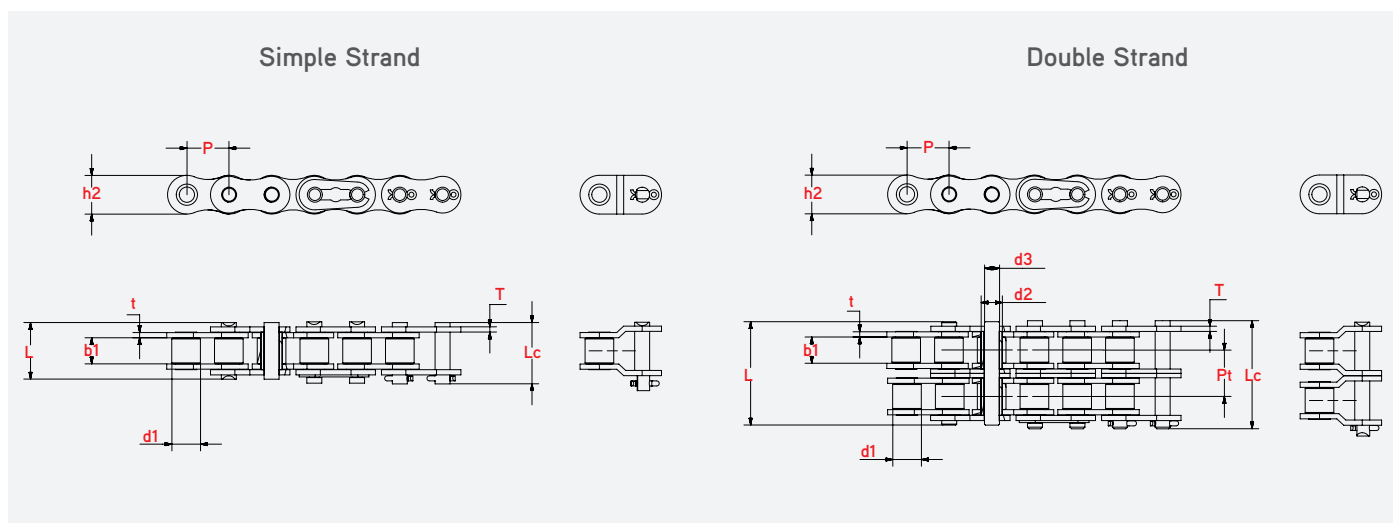
ISO HEAVY SERIES

DIN/ISO No.	Material	Pitch	Roller diameter	Width between plates	Pin diameter	Pin length		Inner Plate depth	Plate thickness	Minimum Tensile strength	Weight per meter
		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 kg/m
12B-1H	CS, NP, DT, SS	19,05	12,07	11,70	6,10	25,00	26,60	18,10	2,40	40	1,45
16B-1H	CS, NP, DT, SS	12,700	15,88	17,02	8,90	36,10	37,70	24,10	3/4	80	3,11
20B-1H	CS, NP, DT, SS	12,700	19,05	19,56	10,19	48,10	49,70	26,30	4,8/6	110	3,98

ASA HEAVY SERIES

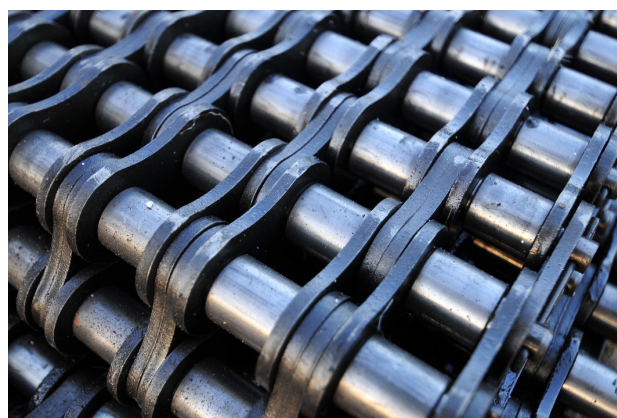
ASA HEAVY SERIES			Pitch	Roller diameter	Width between plates	Pin diameter	Pin length		Inner Plate depth	Plate thickness	Minimum Tensile strength	Weight per meter
DIN/ISO No.	ANSI No.	Material	P mm	d1 max mm	b1 min mm	d2 max mm	L max mm	Lc max mm	h2 max mm	t/T max mm	Q min KN	q kg/m
Simple Strand												
08A-1 H	40H	CS, DT, SS	12,700	7,95	7,85	3,96	18,80	19,90	12,00	2,03	14,10	0,82
10A-1 H	50H	CS, DT, SS	15,875	10,16	9,40	5,08	22,10	23,40	15,09	2,42	22,20	1,25
12A-1 H	60H	CS, DT, SS	19,050	11,91	12,57	5,94	29,20	31,00	18,00	3,25	31,80	1,87
16A-1 H	80H	CS, DT, SS	25,400	15,88	15,75	7,92	36,20	37,70	24,00	4,00	56,70	3,10
20A-1 H	100H	CS, DT, SS	31,750	19,05	18,90	9,53	43,60	46,90	30,00	4,80	88,50	4,52
24A-1 H	120H	CS, DT, SS	38,100	22,23	25,22	11,10	53,50	57,50	35,70	5,60	127,00	6,60
Double Strand												
12A-2 H	60H-2	CS, DT, SS	19,050	11,91	12,57	5,94	55,30	57,10	18,00	3,25	63,60	3,71
16A-2 H	80H-2	CS, DT, SS	25,400	15,88	15,75	7,92	68,80	70,30	24,00	4,00	113,40	6,15
20A-2 H	100H-2	CS, DT, SS	31,750	19,05	18,90	9,53	82,70	86,00	30,00	4,80	177,00	9,03
24A-2 H	120H-2	CS, DT, SS	38,100	22,23	25,22	11,10	102,40	106,40	35,70	5,60	254,00	13,13
Triple Strand												
12A-3 H	60H-3	CS, DT, SS	19,050	11,91	12,57	5,94	81,40	83,20	18,00	3,25	95,00	5,54
16A-3 H	80H-3	CS, DT, SS	25,400	15,88	15,75	7,92	101,40	102,90	24,00	4,00	170,10	9,42
20A-3 H	100H-3	CS, DT, SS	31,750	19,05	18,90	9,53	121,80	125,10	30,00	4,80	265,50	12,96
24A-3 H	120H-3	CS, DT, SS	38,100	22,23	25,22	11,10	151,20	155,20	35,70	5,60	381,00	19,64

ASA Super Heavy Series DIN ISO 606 (DIN 8188)



ASA SUPER HEAVY

ASA SUPER HEAVY			Pitch	Roller diameter	Width between plates	Pin diameter	Pin length		Inner Plate depth	Plate thickness	Minimum Tensile strength	Weight per meter
DIN/ISO No.	ANSI No.	Material	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 kg/m
Simple Strand												
10A-1 SH	50H	CS, DT	15,875	10,16	9,40	5,08	22,60	26,70	15,09	2,40	36,70	1,23
12A-1 SH	60H	CS, DT	19,050	11,91	12,57	5,96	30,20	34,80	18,10	3,20	55	1,87
16A-1 SH	80H	CS, DT	25,400	15,88	15,75	7,94	37,40	42,80	24,13	4,00	80	3,10
20A-1 SH	100H	CS, DT	31,750	19,05	18,90	9,54	44,50	50,60	30,17	4,70	133,4	4,52
24A-1 SH	120H	CS, DT	38,100	22,23	25,22	11,11	55,00	61,60	36,20	5,60	243,6	6,60



IRIS Non-Standard Series

IRIS Non-Standard Chains are solutions that are purposely designed for a variety of specific needs and requirements put forward by our clients. Some of these are the outcome of customisations to our motorcycle chains.

Each chain is as distinct on its specifications as its intended application.

SERVICES

Tailored designs at specific needs and requests

Many references available in stock

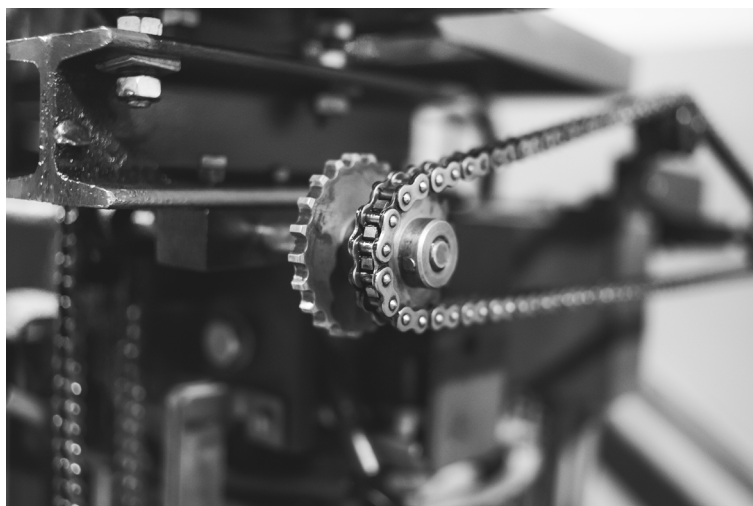
Specific product on request

Matched pairs on request for chains working in parallel

Chains of any length

Technical assistance

DIN/ISO No.	Material	Pitch	Roller diameter	Width between plates	Pin diameter	Pin length		Inner Plate depth	Plate thickness	Minimum Tensile strength	Weight per meter
		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 kg/m
081-1	CS, NP, DT, SS	12,700	7,75	3,30	3,64	9,30	10,80	9,80	1,00	8,00	0,38
083-1	CS, NP, DT, SS	12,700	7,75	4,88	4,09	12,90	14,40	10,20	1,30	11,60	0,45
084-1	CS, NP, DT, SS	12,700	7,75	4,88	4,09	14,80	16,80	10,20	1,80	15,60	0,51
085-1	CS, NP, DT, SS	12,700	7,75	6,25	3,60	14,00	15,50	10,20	1,30	6,70	0,41
415	CS, NP, DT, SS	12,700	7,77	4,76	3,60	11,00	12,40	9,70	1,00	6,86	0,32
415H	CS, NP, DT, SS	12,700	7,77	4,76	3,96	13,10	14,50	12,00	1,50	14,40	0,55
423	CS, NP, DT, SS	12,700	8,51	6,40	4,45	15,60	17,10	12,40	1,70	19,60	0,71
420	CS, NP, DT, SS	12,700	7,77	6,25	3,96	14,70	16,10	12,00	1,50	16,00	0,55
428H	CS, NP, DT, SS	12,700	8,51	7,85	4,45	18,80	19,90	11,80	2,03	20,60	0,79
520	CS, NP, DT, SS	12,700	10,16	6,25	5,08	17,50	19,00	15,09	2,03	26,50	0,89
520H	CS, NP, DT, SS	13,700	10,16	6,25	5,08	19,30	20,80	15,09	2,42	26,50	1,10
5R	CS, NP, DT, SS	12,700	7,75	5,00	3,96	11,80	13,30	10,10	1,3/1,0	11,60	0,46
12BV	CS, NP, DT, SS	19,050	12,07	11,68	6,10	24,50	26,90	16,00	2,40	40,00	1,45
229	CS, NP, DT, SS	19,050	12,07	13,30	6,10	28,80	31,80	17,00	3,00	35,00	1,61
517	CS, NP, DT, SS	19,050	12,07	11,68	6,10	24,50	26,90	18,10	2,40	44,00	1,55
305	CS, NP, DT, SS	25,400	15,88	13,05	8,26	30,90	32,20	20,50	3,6/3,0	50,00	2,37



Standard roller chains with straight side plates

These roller chains are designed and manufactured to the same standards as all IRIS standard roller chains, and feature straight side plates which allow rollers to convey higher loads directly on the side plate.

Roller chains with straight side plates are thus used in conveying systems in highly demanding industries like the automotive or in automation, or for activities such as pallet transport. They provide a long service life and outstanding wear resistance for all applications.

Our standard lubrication ensures resistance to a temperature range of -5 °C to +120 °C; a particular lube can be applied upon request for applications in temperatures as low as -30 °C to up to +250 °C.

SERVICES

Special lube at request for extreme temperature conditions

Many references available in stock

Specific product on request

Matched pairs on request for chains working in parallel

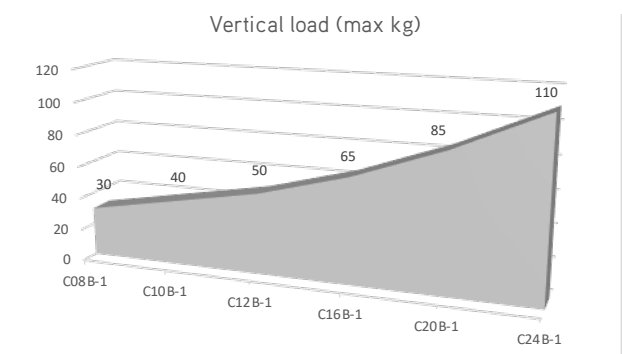
Chains of any length

Technical assistance

Highlights

- ▶ All IRIS Standard roller chains meet or exceed the requirements of ISO 606.
- ▶ Initial stretching contributes to a higher fatigue strength.
- ▶ All components are heat-treated according to their size and application.
- ▶ Precision-formed plates feature shot peening for higher resistance.
- ▶ Pins' surface is smooth and wear-resistant.
- ▶ Bushes are geometrically cylindrical.
- ▶ Special initial lubricant is applied to increase resistance.

Roller chains with straight side plates are able to convey loads vertically. Each can convey the following amount of vertical load:

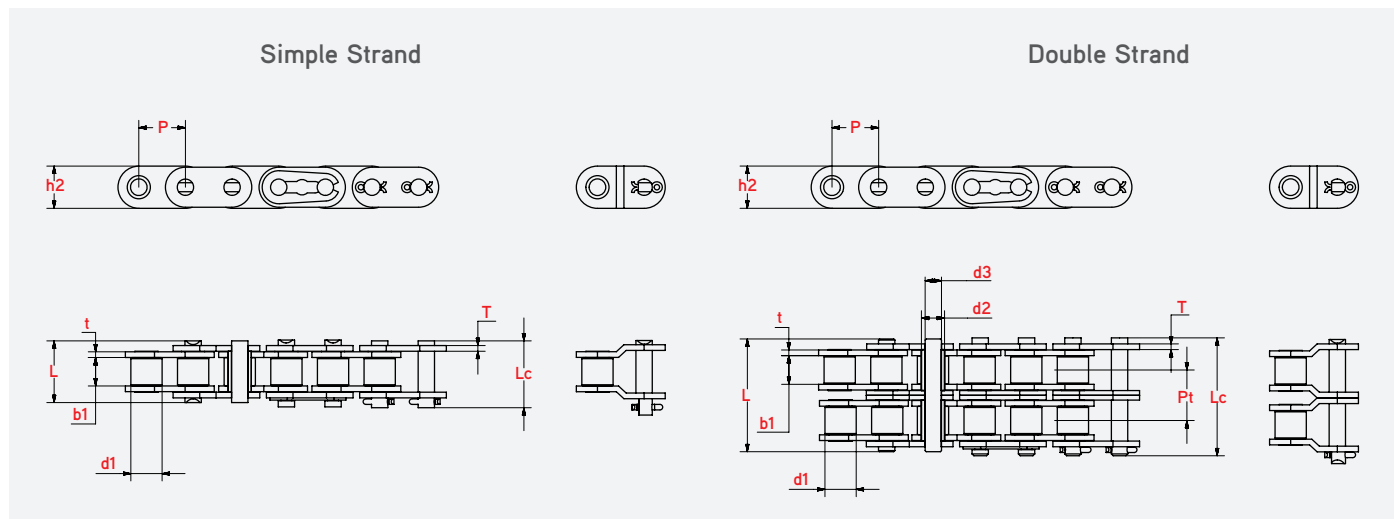


Industries

- ▶ Industrial handling
- ▶ End of line food packaging machinery
- ▶ Pharmaceutical sector
- ▶ Confectionery production plants
- ▶ Pasta production and bakery machinery
- ▶ Painting systems
- ▶ Wood industry machinery
- ▶ Ceramic systems
- ▶ Many more industry applications



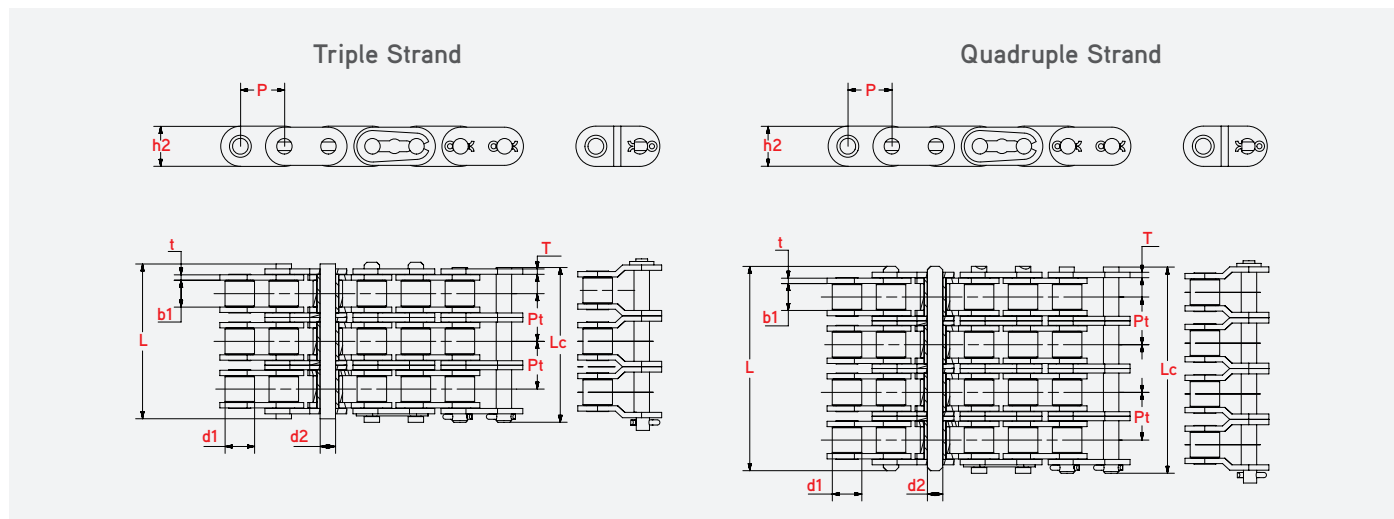
ISO Straight Side Plates Series DIN ISO 606 (DIN 8187)



		Pitch	Roller diameter	Width between plates	Pin diameter	Pin length		Inner Plate depth	Plate thickness	Minimum Tensile strength	Weight per meter
DIN/ISO No.	Material	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 kg/m
Simple Strand											
C08B-1	CS, NP, DT, SS	12,700	8,51	7,75	4,45	16,70	18,20	11,80	1,60	18,00	0,80
C10B-1	CS, NP, DT, SS	15,875	10,16	9,65	5,08	19,50	20,90	14,70	1,70	22,40	1,06
C12B-1	CS, NP, DT, SS	19,050	12,07	11,68	5,72	22,50	24,20	16,00	1,85	29,00	1,32
C16B-1	CS, NP, DT, SS	25,400	15,88	17,02	8,28	36,10	37,40	21,00	4,15/3,1	60,00	4,08
*C16B-1	CS, DT, SS	25,400	15,88	17,02	8,28	36,10	37,40	24,00	4,15/3,1	60,00	3,49
C20B-1	CS, NP, DT, SS	31,750	19,05	19,56	10,19	41,30	45,00	26,40	4,5/3,5	95,00	4,16
C24B-1	CS, DT, SS	38,100	25,40	25,40	14,63	53,40	57,80	33,20	6,0/4,8	160,00	7,47
C28B-1	CS, DT, SS	44,450	27,94	30,99	15,90	65,10	69,50	36,70	7,5/6,0	200,00	9,90
C32B-1	CS, SS	50,800	29,21	30,99	17,81	66,00	71,00	42,00	7,0/6,0	250,00	10,45
Double Strand											
C08B-2	CS, NP, DT, SS	12,700	8,51	7,75	4,45	31,20	32,20	11,80	1,60	32,00	1,45
C10B-2	CS, NP, DT, SS	15,875	10,16	9,65	5,08	36,10	37,50	14,70	1,70	44,50	2,00
C12B-2	CS, NP, DT, SS	19,050	12,07	11,68	5,72	42,00	43,60	16,00	1,85	57,80	2,62
CC16B-2	CS, NP, DT, SS	25,400	15,88	17,02	8,28	68,00	69,30	21,00	4,15/3,1	106,00	6,10
*C16B-2	CS, NP, DT, SS	25,400	15,88	17,02	8,28	68,00	69,30	24,00	4,15/3,1	106,00	6,92
C20B-2	CS, NP, DT, SS	31,750	19,05	19,56	10,19	77,80	81,50	26,40	4,5/3,5	170,00	8,23
C24B-2	CS, DT, SS	38,100	25,40	25,40	14,63	101,70	106,20	33,20	6,0/4,8	280,00	14,77
C28B-2	CS, DT, SS	44,450	27,94	30,99	15,90	124,60	129,10	36,70	7,5/6,0	360,00	19,82
C32B-2	CS, SS	50,800	29,21	30,99	17,81	124,60	129,60	42,00	7,0/6,0	450,00	20,94

* h2=24mm.

ISO Straight Side Plates Series DIN ISO 606 (DIN 8187)

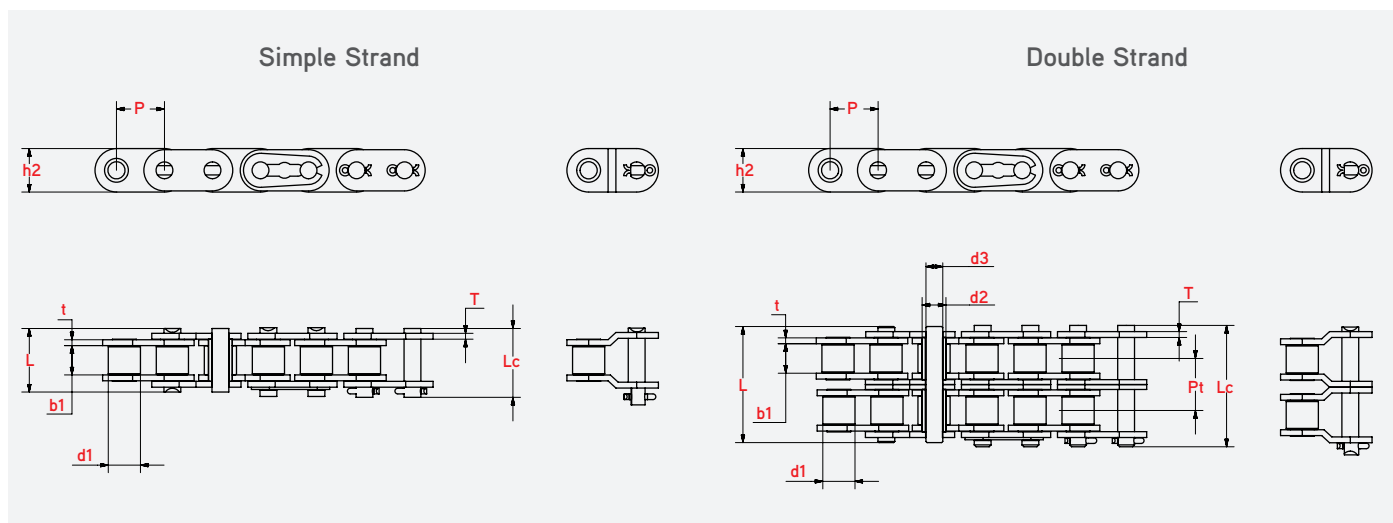


		Pitch	Roller diameter	Width between plates	Pin diameter	Pin length		Inner Plate depth	Plate thickness	Minimum Tensile strength	Weight per meter
DIN/ISO No.	Material	P mm	d1 max mm	b1 min mm	d2 max mm	L max mm	Lc max mm	h2 max mm	t/T max mm	Q min KN	q kg/m
Triple Strand											
C08B-3	CS, NP, DT, SS	12,700	8,51	7,75	4,45	45,10	46,10	11,80	1,60	47,50	2,10
C10B-3	CS, NP, DT, SS	15,875	10,16	9,65	5,08	52,70	54,10	14,70	1,70	66,70	2,87
C12B-3	CS, NP, DT, SS	19,050	12,07	11,68	5,72	61,50	63,10	16,00	1,85	86,70	3,89
C16B-3	CS, NP, DT, SS	25,400	15,88	17,02	8,28	99,80	101,20	21,00	4,15/3,1	160,00	9,12
*C16B-3	CS, NP, DT, SS	25,400	15,88	17,02	8,28	99,80	101,20	24,00	4,15/3,1	106,00	10,34
C20B-3	CS, NP, DT, SS	31,750	19,05	19,56	10,19	114,20	117,90	26,40	4,5/3,5	250,00	11,34
C24B-3	CS, DT, SS	38,100	25,40	25,40	14,63	150,10	154,60	33,20	6,0/4,8	425,00	22,10
C28B-3	CS, DT, SS	44,450	27,94	30,99	15,90	184,20	188,70	36,70	7,5/6,0	530,00	29,64
C32B-3	CS, SS	50,800	29,21	30,99	17,81	183,20	188,20	42,00	7,0/6,0	670,00	31,27
Quadruple Strand											
C08B-4	CS, NP, DT, SS	12,700	8,51	7,75	4,45	58,30	66,10	11,80	1,60	65,85	2,80
C10B-4	CS, NP, DT, SS	15,875	10,16	9,65	5,08	68,80	77,00	14,70	1,70	88,00	3,60
C12B-4	CS, NP, DT, SS	19,050	12,07	11,68	5,72	81,00	99,20	16,00	1,85	115,80	5,35
C16B-4	CS, NP, DT, SS	25,400	15,88	17,02	8,28	132,00	142,80	21,00	4,15/3,1	222,00	11,63

* h2=24mm.



ASA Straight Side Plates Series DIN ISO 606 (DIN 8188)



DIN/ISO No.	ANSI No.	Material	Pitch P mm	Roller diameter d1 max mm	Width between plates b1 min mm	Pin diameter d2 max mm	Pin length L max mm Lc max mm	Inner Plate depth h2 max mm	Plate thickness t/T max mm	Minimum Tensile strength Q min KN	Weight per meter q kg/m
Simple Strand											
C08A-1	C40	CS, DT, SS	12,700	7,95	7,85	3,96	16,60 17,80	12,00	1,50	14,10	0,73
C10A-1	C50	CS, DT, SS	15,875	10,16	9,40	5,08	20,70 22,20	15,09	2,03	22,20	1,23
C12A-1	C60	CS, DT, SS	19,050	11,91	12,57	5,94	25,90 27,70	18,00	2,42	31,80	1,81
C16A-1	C80	CS, DT, SS	25,400	15,88	15,75	7,92	32,70 35,00	24,00	3,25	56,70	3,09
C20A-1	C100	CS, DT, SS	31,750	19,05	18,90	9,53	40,40 44,70	30,00	4,00	88,50	4,56
Double Strand											
C08A-2	C40-2	CS, DT, SS	12,700	7,95	7,85	3,96	31,00 32,20	12,00	1,50	28,20	1,43
C10A-2	C50-2	CS, DT, SS	15,875	10,16	9,40	5,08	38,90 40,40	15,09	2,03	44,40	2,42
C12A-2	C60-2	CS, DT, SS	19,050	11,91	12,57	5,94	48,80 50,50	18,00	2,42	63,60	3,58
C16A-2	C80-2	CS, DT, SS	25,400	15,88	15,75	7,92	62,70 64,30	24,00	3,25	113,40	6,12
C20A-2	C100-2	CS, DT, SS	31,750	19,05	18,90	9,53	76,40 80,50	30,00	4,00	177,00	9,08
Triple Strand											
C08A-3	C40-3	CS, DT, SS	12,700	7,95	7,85	3,96	45,40 46,60	12,00	1,50	42,30	2,14
C10A-3	C50-3	CS, DT, SS	15,875	10,16	9,40	5,08	57,00 58,50	15,09	2,03	66,60	3,62
C12A-3	C60-3	CS, DT, SS	19,050	11,91	12,57	5,94	71,50 73,30	18,00	2,42	95,40	5,36
C16A-3	C80-3	CS, DT, SS	25,400	15,88	15,75	7,92	91,70 93,60	24,00	3,25	170,10	9,10
C20A-3	C100-3	CS, DT, SS	31,750	19,05	18,90	9,53	112,20 116,30	30,00	4,00	265,50	13,60