

ES ELITESYSTEM® CHAINS



DRIVE
SOLUTIONS

The background of the page features a collage of various ES Elitesystem chains and components. These include long sections of roller chains, shorter segments, individual chain links, and specialized components like sprockets and pins. The chains are shown in different orientations and are set against a light, neutral background.

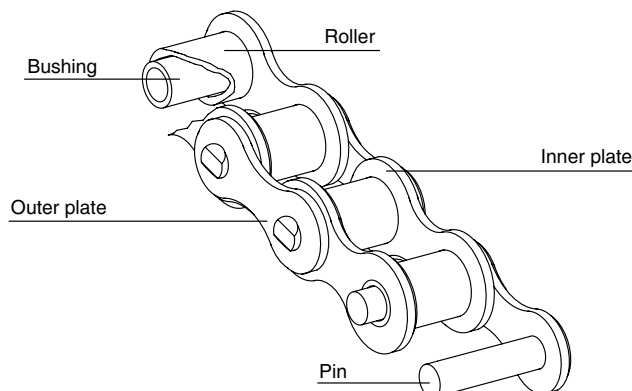
ES ELITESYSTEM®
CHAINS

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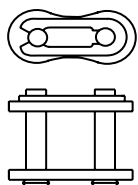
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Chain components

The roller chain is fabricated according to ISO/DIN/BS standards and it consists of five components:



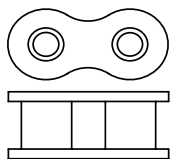
Connecting link with spring clip



Available from 05B to 16B.

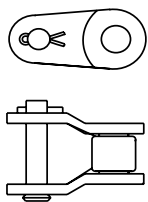
The standard closing plate has been designed for sliding assembly on pins. Positioning is provided by a flat steel spring clip with a split end to allow the installation in the pin side slots.

Inner links



Standard links for all roller chain sizes. They are supplied fully assembled. The two bushings are pressed into the single joint plates. The inner links are used for single or multiple chains.

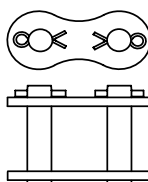
Offset link with one roller



Available for single, double and triple strand chains.

The flat milled surface on one pin end prevents plate rotation

Connecting links with split pin



Available from 20B to 32B.

The closing plate can be pressed or made to slide on the pins.

Pressure joints are recommended for heavy duty. Pressure closing plates are standard in multiple chains used in the oil industry.

Chain packages

Length in meters (standard):

- Box, 5 m
- Rollers, 25 / 50 or 100 m

Cut sizes (upon request):

- Open
- Open + connecting links
- Closed by connecting links
- Closed by rivets

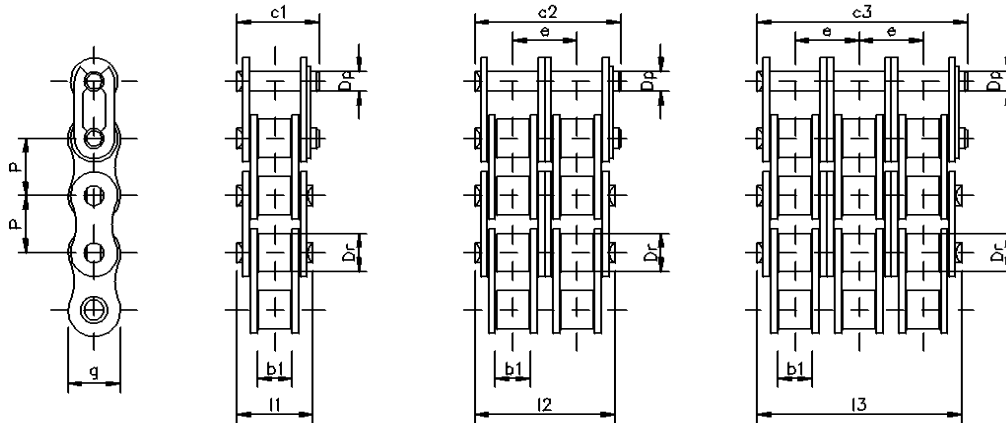
TRANSMISSION ROLLER CHAIN

Transmission roller chain - British Standard

DIN 8187 - ISO/R 606

Available models on request:

- With flat profile plates ("C"- type)
- Nickel-plated, zinc-plated
- Stainless steel AISI 304



	ISO Standard	Standard size	Pitch p [mm]	Inner width b1 [mm]	Roller diameter Dr [mm]	Pin diameter Dp [mm]	Pin length l1-l2-l3 [mm]	Pin length junction c1-c2-c3 [mm]	g max [mm]	e [mm]	Min. ultimate strength [N]	Weight [kg/m]
SIMPLEX	04-1	6 x 2,8 mm	6,00	2,80	4,00	1,85	7,40	10,30	5,00	-	3.000	0,12
	05 B1	8 x 3 mm	8,00	3,00	5,00	2,31	8,60	11,70	7,10	-	5.000	0,18
	06 B1 *	3/8" x 7/32"	9,53	5,72	6,35	3,28	13,50	16,80	8,20	-	9.000	0,45
	081-1	1/2" x 1/8"	12,70	3,30	7,75	3,66	10,20	11,70	9,91	-	8.200	0,28
	083-1	1/2" x 3/16"	12,70	4,88	7,75	4,09	12,90	14,40	10,30	-	12.000	0,42
	084-1	1/2" x 3/16"	12,70	4,88	7,75	4,09	14,80	16,30	11,10	-	16.000	0,59
	08 B1	1/2" x 5/16"	12,70	7,75	8,51	4,45	17,00	20,90	11,80	-	18.000	0,70
	10 B1	5/8" x 3/8"	15,88	9,65	10,16	5,08	19,60	23,70	14,70	-	22.400	0,95
	12 B1	3/4" x 7/16"	19,05	11,68	12,07	5,72	22,70	27,30	16,10	-	29.000	1,25
	16 B1	1" x 17,02 mm	25,40	17,02	15,88	8,28	36,10	41,50	21,00	-	60.000	2,70
	20 B1	1"1/4 x 3/4"	31,75	19,56	19,05	10,19	43,20	49,30	26,40	-	95.000	3,60
	24 B1	1"1/2 x 1"	38,10	25,40	25,40	14,63	53,40	60,00	33,40	-	160.000	6,70
	28 B1	1"3/4 x 1"1/4	44,45	30,99	27,94	15,90	65,10	72,50	37,00	-	200.000	8,30
	32 B1	2" x 1"1/4	50,80	30,99	29,21	17,81	67,40	75,30	42,20	-	250.000	10,50
	40 B1	2"1/2 x 1"1/2	63,50	38,10	39,37	22,89	82,60	92,60	52,90	-	355.000	16,00
	48 B1	3" x 1"3/4	76,20	45,72	48,26	29,24	99,10	109,10	63,80	-	560.000	25,00
DUPLEX	06 B2 *	3/8" x 7/32"	9,53	5,72	6,35	3,28	23,80	27,10	8,20	10,24	16.000	0,78
	08 B2	1/2" x 5/16"	12,70	7,75	8,51	4,45	31,00	34,90	11,80	13,92	32.000	1,35
	10 B2	5/8" x 3/8"	15,88	9,65	10,16	5,08	36,20	40,30	14,70	16,59	40.000	1,80
	12 B2	3/4" x 7/16"	19,05	11,68	12,07	5,72	42,20	46,80	16,10	19,46	53.000	2,50
	16 B2	1" x 17,02 mm	25,40	17,02	15,88	8,28	68,00	73,40	21,00	31,88	106.000	5,40
	20 B2	1"1/4 x 3/4"	31,75	19,56	19,05	10,19	79,70	85,80	26,40	36,45	170.000	7,40
	24 B2	1"1/2 x 1"	38,10	25,40	25,40	14,63	101,80	108,40	33,40	48,36	280.000	13,75
	28 B2	1"3/4 x 1"1/4	44,45	30,99	27,94	15,90	124,70	132,10	37,00	59,56	360.000	17,30
	32 B2	2" x 1"1/4	50,80	30,99	29,21	17,81	126,00	133,90	42,20	58,55	450.000	19,00
	40 B2	2"1/2 x 1"1/2	63,50	38,10	39,37	22,89	154,90	164,90	52,90	72,29	630.000	30,00
TRIPLEX	48 B2	3" x 1"3/4	76,20	45,72	48,26	29,24	190,00	200,00	63,80	91,21	1.000.000	48,60
	06 B3 *	3/8" x 7/32"	9,53	5,72	6,35	3,28	34,00	37,30	8,20	10,24	23.600	1,18
	08 B3	1/2" x 5/16"	12,70	7,75	8,51	4,45	44,90	47,80	11,80	13,92	47.500	2,00
	10 B3	5/8" x 3/8"	15,88	9,65	10,16	5,08	52,80	56,90	14,70	16,59	60.000	2,80
	12 B3	3/4" x 7/16"	19,05	11,68	12,07	5,72	61,70	66,30	16,10	19,46	80.000	3,80
	16 B3	1" x 17,02 mm	25,40	17,02	15,88	8,28	99,90	105,30	21,00	31,88	160.000	8,20
	20 B3	1"1/4 x 3/4"	31,75	19,56	19,05	10,19	116,00	122,10	26,40	36,45	250.000	11,80
	24 B3	1"1/2 x 1"	38,10	25,40	25,40	14,63	150,00	156,60	33,40	48,36	425.000	21,00
	28 B3	1"3/4 x 1"1/4	44,45	30,99	27,94	15,90	184,30	191,70	37,00	59,56	530.000	25,75
	32 B3	2" x 1"1/4	50,80	30,99	29,21	17,81	184,50	192,40	42,20	58,55	670.000	27,85
	40 B3	2"1/2 x 1"1/2	63,50	38,10	39,37	22,89	227,00	237,00	52,90	72,29	950.000	44,80
	48 B3	3" x 1"3/4	76,20	45,72	48,26	29,24	281,60	291,60	63,80	91,21	1.500.000	72,50

* = Available only with flat profile plates ("C"-Type)

Transmission roller chains - American Standard

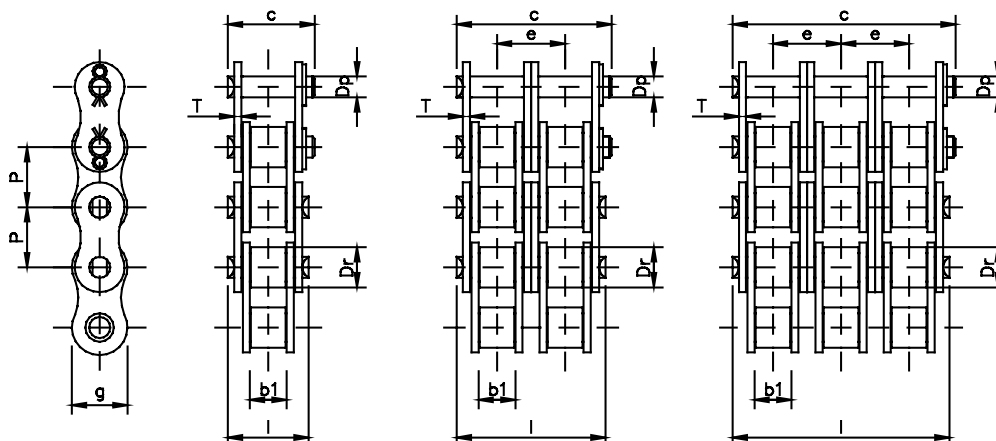
ISO R/606 - DIN 8188 - ANSI B29.1

The chains from series ANSI 25 to ANSI 50 are only available in riveted model; from series ANSI 60 onwards they are available also with split pin, upon request.

Available models on request:

- With flat profile plates ("C" type)
- Nickel-plated, zinc-plated
- Stainless steel AISI 304

All transmission roller chains, both British and American Standards, can be supplied, upon request, with vertical attachments, square attachments, with one or two holes and with projecting pins.



ANSI Standard	Standard size	Pitch p [mm]	Inner width b1 [mm]	Roller diameter Dr [mm]	Pin diameter Dp [mm]	Pin length l [mm]	Pin length junction c [mm]	g max [mm]	Plate thickness T [mm]	e [mm]	Average ultimate strength [N]	Weight [kg/m]
25-1	1/4" x 1/8"	6,35	3,18	3,30 *	2,29	8,64	9,40		0,76	-	3.892	0,13
25-2	1/4" x 1/8" duplex	6,35	3,18	3,30 *	2,29	14,99	16,00		0,76	6,40	7.784	0,24
25-3	1/4" x 1/8" triplex	6,35	3,18	3,30 *	2,29	21,34	22,35		0,76	6,40	11.677	0,37
35-1	3/8" x 3/16"	9,53	4,76	5,08 *	3,58	12,70	14,22	8,60	1,27	-	9.341	0,31
35-2	3/8" x 3/16" duplex	9,53	4,76	5,08 *	3,58	22,86	24,38	8,60	1,27	10,14	18.683	0,67
35-3	3/8" x 3/16" triplex	9,53	4,76	5,08 *	3,58	33,27	34,54	8,60	1,27	10,14	28.024	1,01
40-1	1/2" x 5/16"	12,70	7,94	7,93	3,96	17,02	18,29	11,40	1,52	-	17.792	0,61
40-2	1/2" x 5/16" duplex	12,70	7,94	7,93	3,96	31,50	32,77	11,40	1,52	14,38	35.584	1,19
40-3	1/2" x 5/16" triplex	12,70	7,94	7,93	3,96	45,72	46,99	11,40	1,52	14,38	53.376	1,79
50-1	5/8" x 3/8"	15,88	9,53	10,16	5,08	21,08	22,61	15,00	2,03	-	29.356	1,01
50-2	5/8" x 3/8" duplex	15,88	9,53	10,16	5,08	39,37	40,64	15,00	2,03	18,11	58.713	1,96
50-3	5/8" x 3/8" triplex	15,88	9,53	10,16	5,08	57,40	58,67	15,00	2,03	18,11	88.070	2,95
60-1	3/4" x 1/2"	19,05	12,70	11,91	5,94	26,42	28,19	18,00	2,39	-	37.808	1,47
60-2	3/4" x 1/2" duplex	19,05	12,70	11,91	5,94	49,28	51,05	18,00	2,39	22,78	75.616	2,90
60-3	3/4" x 1/2" triplex	19,05	12,70	11,91	5,94	72,14	73,91	18,00	2,39	22,78	113.424	4,29
80-1	1" x 5/8"	25,40	15,88	15,88	7,93	33,53	36,58	23,10	3,18	-	64.446	2,57
80-2	1" x 5/8" duplex	25,40	15,88	15,88	7,93	62,74	65,79	23,10	3,18	29,29	128.992	5,04
80-3	1" x 5/8" triplex	25,40	15,88	15,88	7,93	91,95	95,00	23,10	3,18	29,29	193.488	7,47
100-1	1"1/4 x 3/4"	31,75	19,05	19,05	9,53	40,89	43,94	28,70	3,96	-	106.752	3,73
100-2	1"1/4 x 3/4" duplex	31,75	19,05	19,05	9,53	76,71	79,76	28,70	3,96	35,76	213.504	7,31
100-3	1"1/4 x 3/4" triplex	31,75	19,05	19,05	9,53	112,52	115,82	28,70	3,96	35,76	320.256	11,01
120-1	1" 1/2 x 1"	38,10	25,40	22,23	11,10	50,80	54,36	35,10	4,75	-	151.232	5,49
120-2	1" 1/2 x 1" duplex	38,10	25,40	22,23	11,10	96,27	99,82	35,10	4,75	45,44	302.464	10,94
120-3	1" 1/2 x 1" triplex	38,10	25,40	22,23	11,10	141,73	145,29	35,10	4,75	45,44	453.696	16,52
140-1	1" 3/4 x 1"	44,45	25,40	25,40	12,70	54,36	58,67	39,60	5,56	-	204.608	7,44
140-2	1" 3/4 x 1" duplex	44,45	25,40	25,40	12,70	103,38	107,70	39,60	5,56	48,87	409.216	14,36
140-3	1" 3/4 x 1" triplex	44,45	25,40	25,40	12,70	152,40	156,46	39,60	5,56	48,87	613.824	21,28
160-1	2" x 1" 1/4	50,80	31,75	28,58	14,28	64,52	69,34	46,00	6,35	-	257.984	9,72
160-2	2" x 1" 1/4 duplex	50,80	31,75	28,58	14,28	123,19	128,02	46,00	6,35	58,55	515.968	19,09
160-3	2" x 1" 1/4 triplex	50,80	31,75	28,58	14,28	181,86	186,69	46,00	6,35	58,55	773.952	28,31

* = Bushing diameter (chain without roller)

ES PLUS TRANSMISSION ROLLER CHAINS

High-performance transmission roller chain

DIN ISO 606 (DIN 8187)

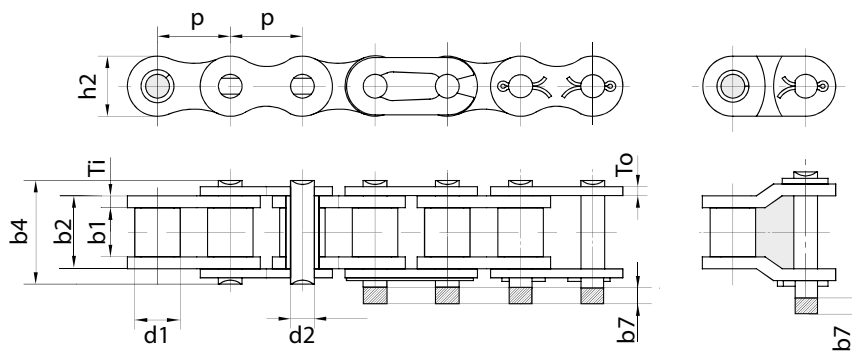
ES PLUS roller chains have a high wear resistance and significantly higher fatigue strength than the standard requires. The right choice for industrial applications: robust and reliable.

Features

- ES PLUS chain plates with optimum geometry are precision-formed and heat-treated. The tapered and shot-blasted chain plates also have particularly high contact ratios.
- ES PLUS pins have a smooth, extra-hard surface.
- ES PLUS bushes are absolutely cylindrical and available in seamless or wound versions, depending on application.
- ES PLUS rollers are seamless, and sizes 3/4" and over are tempered for high impact strength.
- Heat-treated, case-hardened steel alloys are used for all chain components.

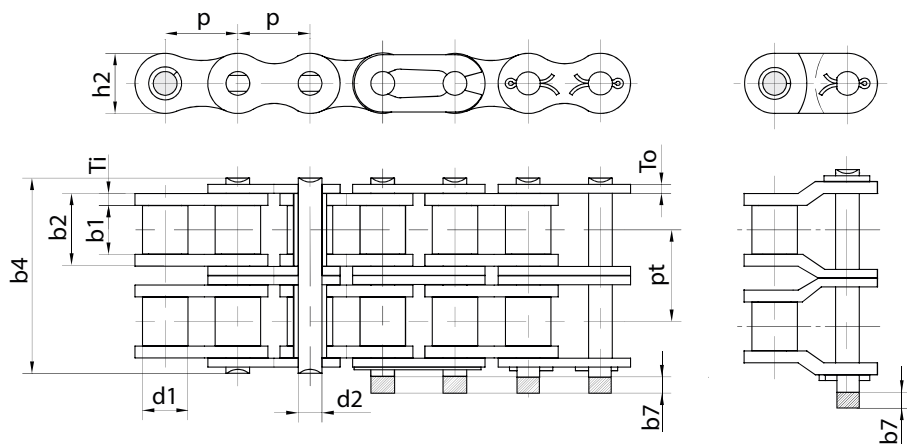
Advantages

- Approx. 40% higher breaking strength is applied to pre-stretch our chains by 10% more than required by standard ISO 606.
- Low run-in elongation.
- Tensile strength on average 20% higher than required by standard ISO 606
- ES PLUS pins have a smooth, extra-hard surface for increased wear resistance.
- Operating temperature range with standard lubrication: -5 °C to +70 °C
- All versions also available in coated form.
- If required, we can deliver your chains ready-made to the desired length.
- Special lubricants for low temperatures down to -30 °C or high temperature applications up to +250 °C available on request.
- On request, are provided chains pair-matched or set-matched and marked.



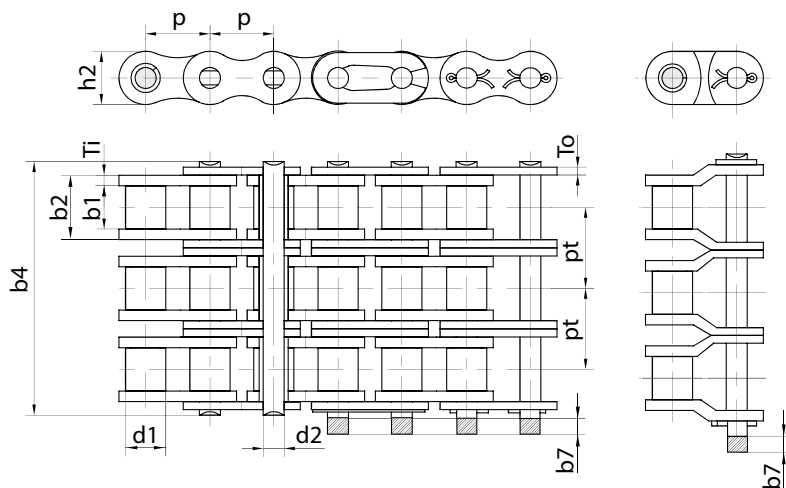
* = Straight side plates

Chain type	Pitch p [mm]	Width between inner plates b1 min. [mm]	Roller Ø d1 max. [mm]	Pin Ø d2 max. [mm]	Pin length b4 max. [mm]	Max. add. length of connecting link b7 max. [mm]	Total width inner link b2 max. [mm]	Plate thickness Ti/To [mm]	Height inner plate h2 max. [mm]	Minimum tensile strength FU [kN]	Avg. tensile strength FB [kN]	Weight per meter q [kg/m]	Bearing area f cm²
04B-1	6	2,8	4	1,85	6,8	2,5	4,15	0,60/0,60	5	3	3,1	0,12	0,08
05B-1	8	3	5	2,31	8,6	3,1	4,77	0,80/0,80	7,11	4,4	6,3	0,2	0,11
06B-1*	9,525	5,72	6,35	3,28	13,5	3,3	8,53	1,30/1,30	8,26	8,9	12,7	0,41	0,28
08B-1	12,7	7,75	8,51	4,45	17	3,9	11,3	1,60/1,60	11,81	17,8	19,6	0,69	0,5
10B-1	15,875	9,65	10,16	5,08	19,6	4,1	13,28	1,70/1,70	14,73	22,2	27,5	0,93	0,67
12B-1	19,05	11,68	12,07	5,72	22,7	4,6	15,62	1,85/1,85	16,13	28,9	33,3	1,15	0,89
16B-1	25,4	17,02	15,88	8,28	36,1	5,4	25,45	4,15/3,10	21,08	60	75,0	2,71	2,1
20B-1	31,75	19,56	19,05	10,19	43,2	6,1	29,01	4,50/3,50	26,42	95	101,8	3,7	2,96
24B-1	38,1	25,4	25,4	14,63	53,4	6,6	37,92	6,00/4,80	33,4	160	176	7,1	5,54
28B-1	44,45	30,99	27,94	15,9	65,1	7,4	46,58	7,50/6,00	37,08	200	215,6	8,5	7,4
32B-1	50,8	30,99	29,21	17,81	67,4	7,9	45,57	7,00/6,00	42,29	250	280,3	10,25	8,11



* = Straight side plates

Chain type	Pitch p [mm]	Width between inner plates b1 min. [mm]	Roller Ø d1 max. [mm]	Pin Ø d2 max. [mm]	Pin length b4 max. [mm]	Max. add. length of connecting link b7 max. [mm]	Total width inner link b2 max. [mm]	Plate thickness Ti/To [mm]	Height inner plate h2 max. [mm]	Transverse pitch pt [mm]	Minimum tensile strength FU [kN]	Avg. tensile strength FB [kN]	Weight per meter q [kg/m]	Bearing area f cm²
04B-2	6	2,8	4	1,85	12,3	2,5	4,15	0,60/0,60	5	5,5	5	5,8	0,24	0,16
05B-2	8	3	5	2,31	14,3	3,1	4,77	0,80/0,80	7,11	5,64	7,8	10,2	0,33	0,22
06B-2*	9,525	5,72	6,35	3,28	23,8	3,3	8,53	1,30/1,30	8,26	10,24	16,9	18,1	0,77	0,56
08B-2	12,7	7,75	8,51	4,45	31	3,9	11,3	1,60/1,60	11,81	13,92	31,1	37,4	1,34	1,01
10B-2	15,875	9,65	10,16	5,08	36,2	4,1	13,28	1,70/1,70	14,73	16,59	44,5	54,2	1,84	1,34
12B-2	19,05	11,68	12,07	5,72	42,2	4,6	15,62	1,85/1,85	16,13	19,46	57,8	66,6	2,31	1,79
16B-2	25,4	17,02	15,88	8,28	68	5,4	25,45	4,15/3,10	21,08	31,88	106	126,5	5,42	4,21
20B-2	31,75	19,56	19,05	10,19	79,7	6,1	29,01	4,50/3,50	26,42	36,45	170	210	7,2	5,91
24B-2	38,1	25,4	25,4	14,63	101,8	6,6	37,92	6,00/4,80	33,4	48,36	280	305,5	13,4	11,09
28B-2	44,45	30,99	27,94	15,9	124,7	7,4	46,58	7,50/6,00	37,08	59,56	360	390,5	16,6	14,79
32B-2	50,8	30,99	29,21	17,81	126	7,9	45,57	7,00/6,00	42,29	58,55	450	487,5	21	16,21



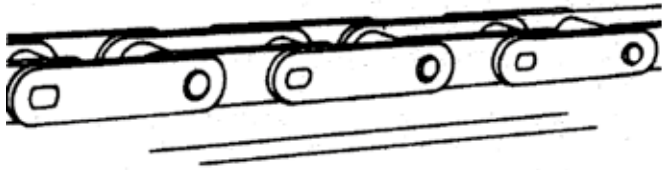
* = Straight side plates

Chain type	Pitch p [mm]	Width between inner plates b1 min. [mm]	Roller Ø d1 max. [mm]	Pin Ø d2 max. [mm]	Pin length b4 max. [mm]	Max. add. length of connecting link b7 max. [mm]	Total width inner link b2 max. [mm]	Plate thickness Ti/To [mm]	Height inner plate h2 max. [mm]	Transverse pitch pt [mm]	Minimum tensile strength F _U [kN]	Avg. tensile strength F _B [kN]	Weight per meter q [kg/m]	Bearing area f cm ²
05B-3	8	3	5	2,31	19,9	3,1	4,77	0,80/0,80	7,11	5,64	11,1	13,8	0,48	0,33
06B-3*	9,525	5,72	6,35	3,28	34	3,3	8,53	1,30/1,30	8,26	10,24	24,9	29,8	1,16	0,84
08B-3	12,7	7,75	8,51	4,45	44,9	3,9	11,3	1,60/1,60	11,81	13,92	44,5	50,2	2,03	1,51
10B-3	15,875	9,65	10,16	5,08	52,8	4,1	13,28	1,70/1,70	14,73	16,59	66,7	79,8	2,77	2,02
12B-3	19,05	11,68	12,07	5,72	61,7	4,6	15,62	1,85/1,85	16,13	19,46	86,7	101,8	3,46	2,68
16B-3	25,4	17,02	15,88	8,28	99,9	5,4	25,45	4,15/3,10	21,08	31,88	160	190	8,13	6,31
20B-3	31,75	19,56	19,05	10,19	116,1	6,1	29,01	4,50/3,50	26,42	36,45	250	276,2	10,82	8,87
24B-3	38,1	25,4	25,4	14,63	150,2	6,6	37,92	6,00/4,80	33,4	48,36	425	480	20,1	16,63
28B-3	44,45	30,99	27,94	15,9	184,3	7,4	46,58	7,50/6,00	37,08	59,56	530	580	24,92	22,18
32B-3	50,8	30,99	29,21	17,81	184,5	7,9	45,57	7,00/6,00	42,29	58,55	670	720,2	31,56	24,31

TRANSPORT CHAINS

Types of transport chains

Chains with sliding plates



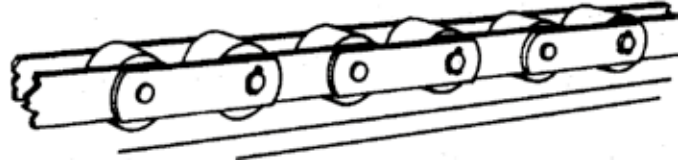
Advantages:

- Easier to manufacture
- Cheaper solution with same load strength
- More effective in dirty environments

Disadvantages:

- Movement requires more power

Roller chains



Advantages (due to lower friction):

- Larger distances between centers
- Lower power is required
- Less operating costs

Disadvantages:

- Not suitable in dirty environments because rollers may become blocked

Types of attachments

Transport chains can be equipped with special attachments, such as links with plates, pushers, protruding pins to support or to drag the material.

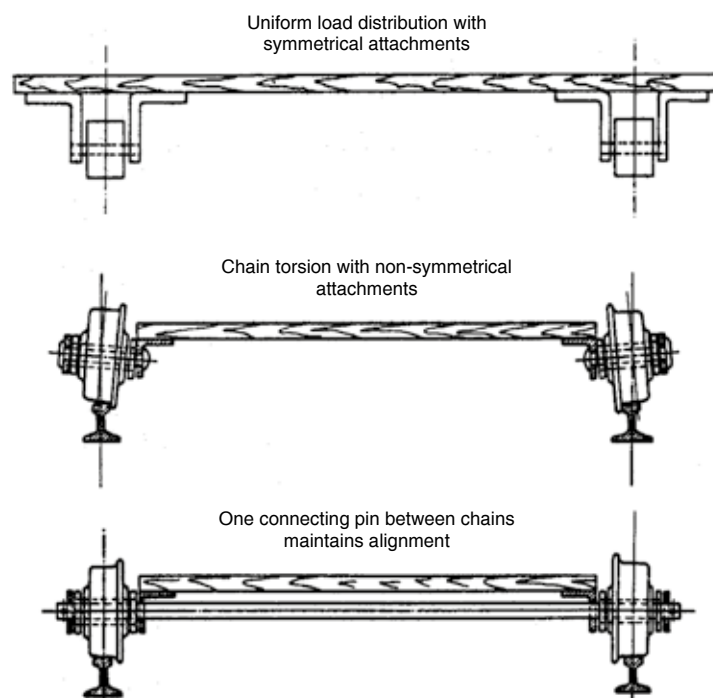
Two types available:

Symmetrical attachments (K o M type):

- Uniformly distributed load on the chain
- Good alignment
- Suitable for very heavy loads or for non-symmetrical load distribution

Non-symmetrical attachments (A o M35 type):

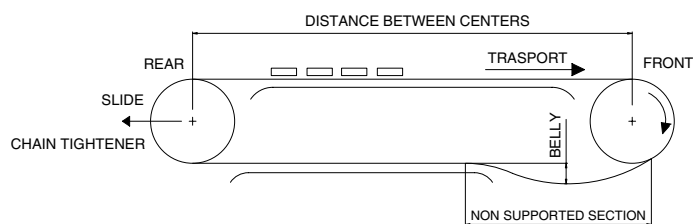
- Non-symmetrical load distribution with possible chain torsion
- Irregular stress distribution and consequent wear of the chain bearing surface (rollers or plates)
- To be used with connecting pins between the two chains to help maintaining correct alignment (see different configurations of figure 2)
- To be used with reduced transporting weight and with short distances between centers of chains



Conveyor chain installation

The best configuration for a chain conveyor is shown in the following diagram:

- Driving sprocket in the front part
- Well supported chain both in the operating and in the reverse section

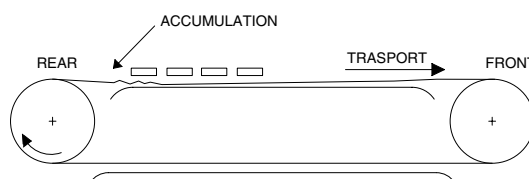


In the driving sprocket exit section there should be a non-supported section, which has two functions:

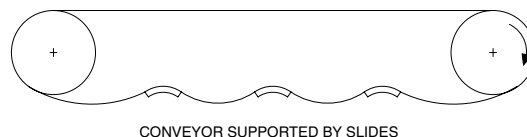
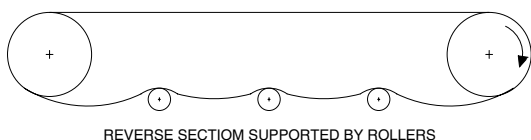
- it allows the chain to set
- the “belly” weight force keeps the chain in mesh with the driving sprocket

There is no wear between pin and bushing because of the very low tension in the reverse section and the deflection is reduced by the support guides.

It is not advisable to install the driving sprocket in the rear of the conveyor because the chain, which is always under load during the whole distance covered, would suffer abnormal wear. Especially in the area of high pressure, i.e. where the material is loaded, there is a risk of chain accumulation in the driving sprocket area and the chain may consequently fall off.



Use a chain tightening device to adjust the distance between centers and to maintain a correct “belly” but do not overload the chain. Other installation methods are shown in following figure. These types of supports cause more wear because the chain is supported only in short sections.



Problems and solutions

The most common problem of conveyors is tripping.

Following table shows some possible causes and solutions of this problem.

Possible causes	Solutions
Excessive friction	Clean and lubricate moving parts
Conveyor is too long	Use shorter conveyor sections
Conveyor speed is too low	Increase the speed or the number of teeth of the driving wheel
Speed variations due to polygonal effect	Use driving plate wheels with 12 or more teeth

Note: for the transmission selection chain please contact our Technical Office to the following e-mail: ufficio.tecnico@sitspa.it.

Non-standard metric pitch chains with solid pins

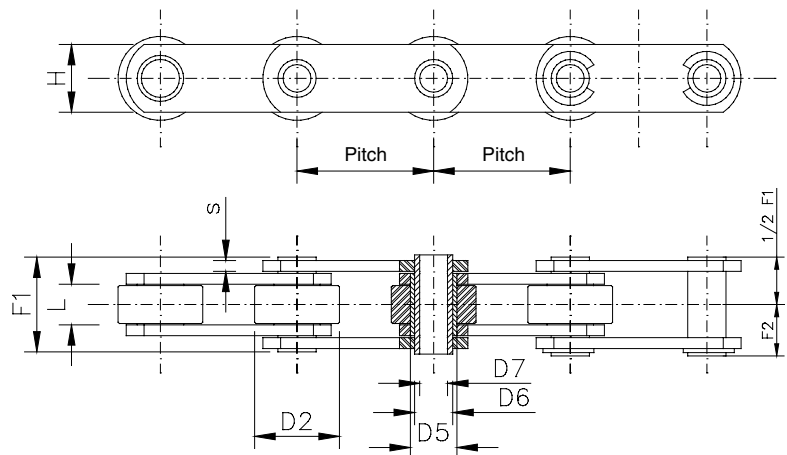
Following types are available on request:

- stainless steel attachments (SS code)
- nylon rollers
- Delrin rollers
- pre-loaded
- pre-selected

Available surface treatments:

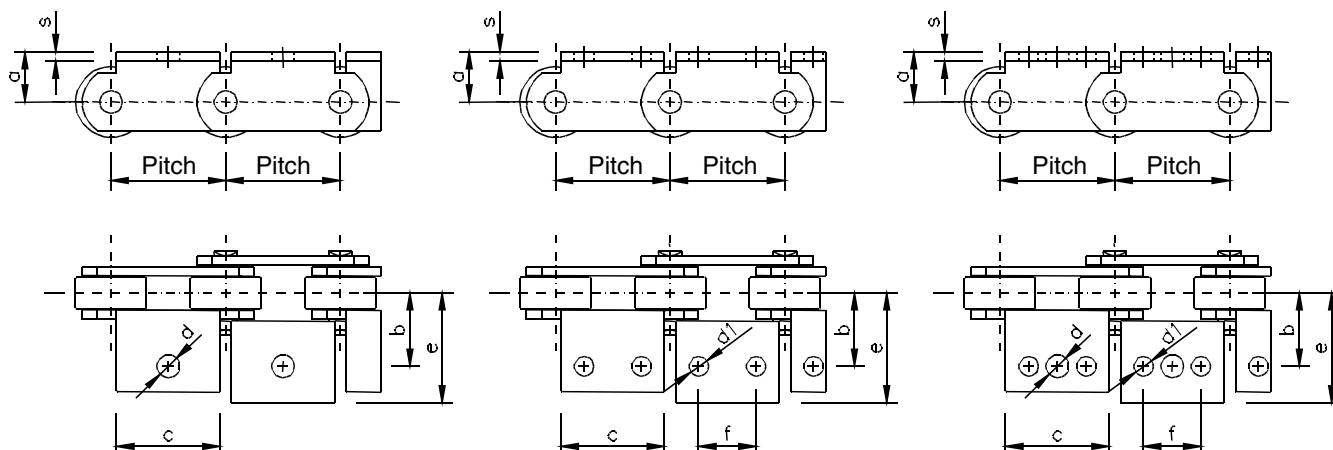
- Zinc plating
- Nickel plating

Sprockets on request.



Chain N°	Pitch p [mm]	Inner width L [mm]	Roller diameter D2 [mm]	Bushing diameter D5 [mm]	Pin diameter D6 [mm]	Plate height H [mm]	Plate thickness s [mm]	Length reiterated pin F1 [mm]	Pin length junction F2 [mm]	Ultimate strength [N]	Chain weight [kg/m]
103	50	11,5	25	8,4	5,7	15	2	24,0	14,6	16.000	1,4
200	50	11,5	25	8,4	5,7	15	3	28,0	16,5	18.000	1,7
202	69	11,5	25	8,4	5,7	15	3	28,0	16,5	18.000	1,5
203	75	11,5	25	8,4	5,7	20	3	28,0	16,5	18.000	1,7
205	50	11,5	25	8,4	5,7	18	2,5	26,0	16	18.000	1,7
205SS	50	11,5	25	8,4	5,7	18	2,5	26,0	16	18.000	1,7
206	50	11,5	25	11	8	20	3	28,0	17	22.000	1,9
206SS	50	11,5	25	11	8	20	3	28,0	17	22.000	1,9
206R	50	11,5	25	11	8	20	3	28,0	17	45.000	1,9
400	50	15	31	13,2	10	23	3	33,0	19,5	35.000	3
400SS	50	15	31	13,2	10	23	3	33,0	19,5	30.000	3
402	100	15	31	13,2	10	23	3	33,0	19,5	35.000	2,3
500	50	15	31	13,2	10	25	4	36,0	21	45.000	3,9
500R	50	15	31	13,2	10	25	4	36,0	21	75.000	3,9
501	75	15	31	13,2	10	25	4	36,0	21	45.000	3,2
502	100	15	31	13,2	10	25	4	36,0	21	45.000	2,7
5021432	100	15	31	13,2	10	25	4	36,0	21	75.000	2,7
503	125	15	31	13,2	10	25	4	36,0	21	45.000	2,5
504	150	15	31	13,2	10	25	4	36,0	21	45.000	2,4
701	75	22	40	17	12	35	4	43,0	25	75.000	5,9
703	100	22	40	17	12	35	4	43,0	25	75.000	4,9
704	125	22	40	17	12	35	4	43,0	25	75.000	4,4
705	150	22	40	17	12	35	4	43,0	25	75.000	4
W1743	100	24	40	17	12	35	4	45,0	26	75.000	6,3

Attachments for non-standard metric pitch chains with solid pins



Chain N°	Pitch p [mm]	Fin folding a [mm]	Bore distance b [mm]	Fin width c [mm]	Bore diameter d [mm]	Bore diameter d1 [mm]	Max. dimensions e [mm]	Bore center distance [mm]	Plate Thickness s [mm]	No. of bores	Attachments weight [kg/m]
103	50	25	21	41	6,5	-	32	-	2	1	0,023
200	50	25	24	41	6,5	-	34	-	3	1	0,035
202	69	27	24	66	6,5	-	34	-	3	1	0,050
203	75	27	33	46	6,5	-	46	-	3	1	0,055
205	50	24	22	46	6,5	-	36	-	2,5	1	0,035
205B	50	14	32	46	6,5	-	45	-	2,5	1	0,035
205SS	50	24	22	46	6,5	-	36	-	2,5	1	0,035
206	50	24	23	40	6,5	-	38	-	3	1	0,035
206R	50	24	23	40	6,5	-	38	-	3	1	0,035
400	50	35	31	60	10	8,5	48,5	25	3	1	0,080
400B	50	16,5	31	60	10	8,5	48,5	25	3	1 or 2	0,050
400SS	50	35	31	60	10	8,5	48,5	25	3	1 or 2	0,080
400SA***	50	28	31	30	10	-	46	-	3	1	0,035
400SB	50	16,5	42	30	10	-	57	-	3	1	0,035
402	100	35	31	70	10	9	46	35	3	3	0,085
500	50	35	32	45	10	8,5	48,5	25	4	1 or 2	0,070
500B	50	22	45	45	10	8,5	61,5	25	4	1 or 2	0,070
500H	50	17,5	34	60	10	9	50	30	4	1 or 2	0,070
501	75	30	29	60	10	9	44,5	30	4	3	0,080
502	100	35	32	70	10	9	48,5	35	4	3	0,100
5021432	100	1,5**	30	60	9	6,5	46	40	4	3	0,100
503	125	35	32	70	10	9	56	35	4	3*	0,160
504	150	35	32	70	10	9	56	35	4	1 or 2*	0,250
701	75	26	38	50	10	9	66,5	25	4	1 or 2	0,100
703	100	40	38	70	10	9	54,5	35	4	3	0,140
703B	100	26	38	70	10	9	68,5	35	4	3	0,120
704	125	26	40	100	10	9	62,5	70	4	3	0,150
705	150	26	40	75	10	9	56,5	50	4	1 or 2	0,180
W1743	100	26	38,5	70	16,5	-	73	35	4	1	0,120

*** = Available also in stainless steel (SS)

** = Attachment folded in chain center line

* = Welded attachment

Non-standard metric pitch chains with hollow pins

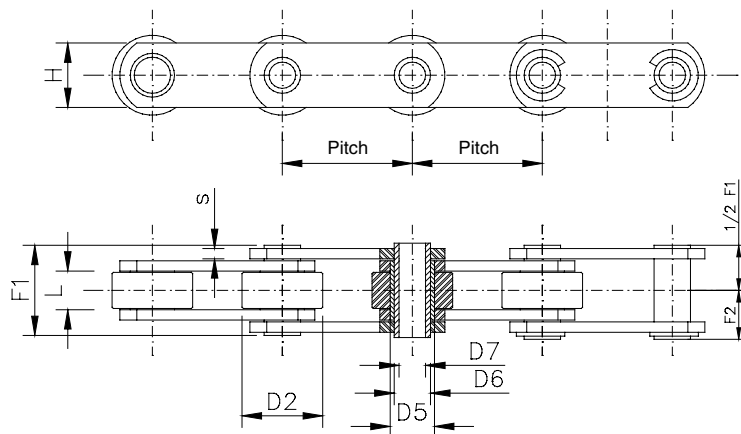
Following types are available on request:

- stainless steel attachments (SS code)
- nylon rollers
- Delrin rollers
- chains with bushing without roller
- plate wheels on request

Available surface treatments:

- Zinc plating
- Nickel plating

Plate wheels on request

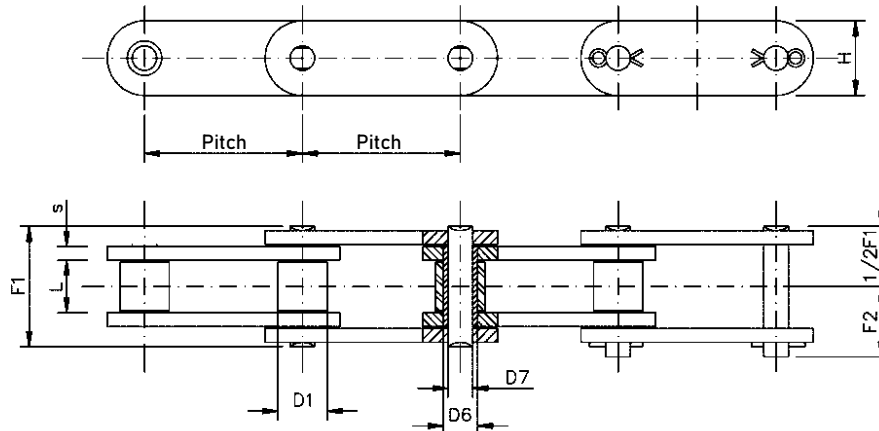


Chain N°	Pitch p [mm]	Inner width L [mm]	Roller diameter D2 [mm]	Bushing diameter D5 [mm]	Pin diameter D6 [mm]	Diameter inside bored pin D7 [mm]	Plate height H [mm]	Plate thickness s [mm]	Length reiterated pin F1 [mm]	Pin length junction F2 [mm]	Ultimate strength [N]	Chain weight [kg/m]
250	50	11,5	25	11	9	6,2	20	2,5	25	14	30.000	1,8
250R	50	11,5	25	11	9	6,2	20	2,5	25	14	38.000	1,8
250SS	50	11,5	25	11	9	6,2	20	2,5	25	14	30.000	1,8
250Z	50	11,5	25	11	9	6,2	20	2,5	25	14	30.000	1,8
400C*	50	15	31	17	14	10,2	25	3	31	17	35.000	3
500C	50	15	31	17	14	10,2	25	4	35	18,5	40.000	3,6
500CR	50	15	31	17	14	10,2	25	4	35	18,5	65.000	3,6
500CSS	50	15	31	17	14	10,2	25	4	35	20	40.000	3,6
501C	75	15	31	17	14	10,2	25	4	35	18,5	40.000	3,1
501CSS	75	15	31	17	14	10,2	25	4	35	20	40.000	3,1
502C	100	15	31	17	14	10,2	25	4	35	18,5	40.000	2,6
502CSS	100	15	31	17	14	10,2	25	4	35	20	40.000	2,6
503C	125	15	31	17	14	10,2	25	4	35	18,5	40.000	2,4
503CSS	125	15	31	17	14	10,2	25	4	35	20	40.000	2,4
504C	150	15	31	17	14	10,2	25	4	35	18,5	40.000	2,3
701C	75	22	40	23	18	12,2	35	4	45	23,5	60.000	4,6
703C	100	22	40	23	18	12,2	35	4	45	23,5	60.000	4,4
703CR	100	22	40	23	18	12,2	35	4	45	23,5	75.000	4,4
704C	125	22	40	23	18	12,2	35	4	45	23,5	60.000	4,2
704CR	125	22	40	23	18	12,2	35	4	45	23,5	75.000	4,2
705C	150	22	40	23	18	12,2	35	4	45	23,5	60.000	4
705CR	150	22	40	23	18	12,2	35	4	45	23,5	75.000	4

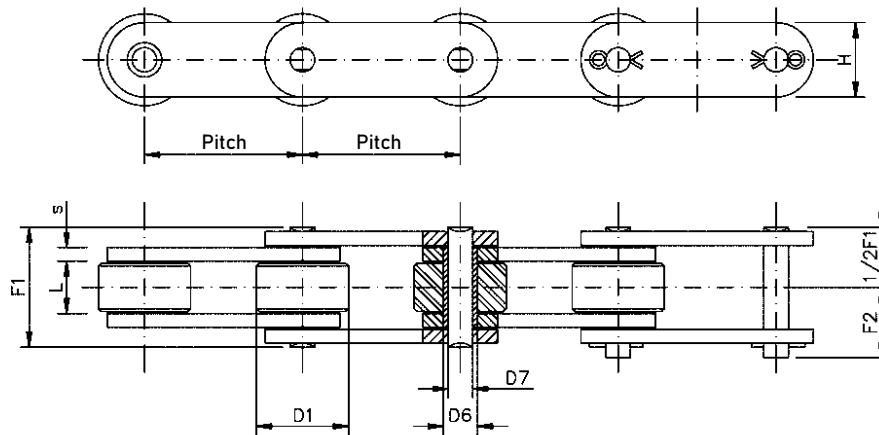
* Profiled plates (straight plates also available)

Chains for light conveyors

According to ansi standards - at an elongated pitch.



Small roller



Big roller

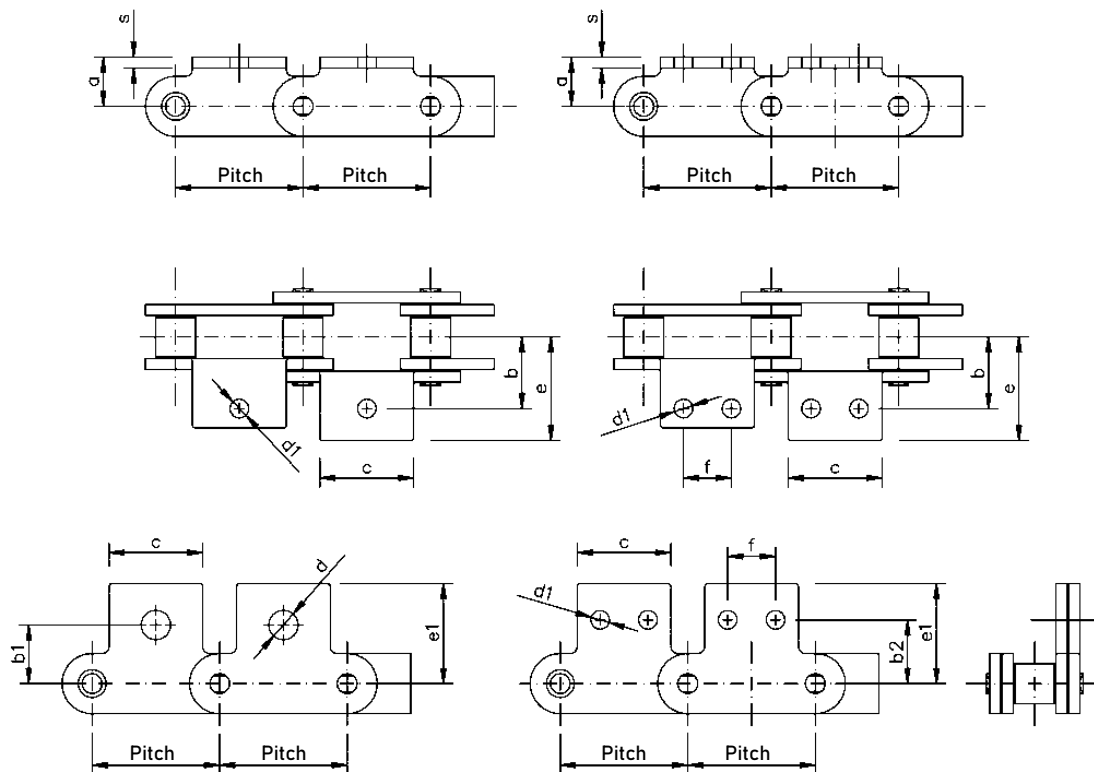
Chain N°	Pitch p [mm]	Inner width L [mm]	Roller diameter D1 [mm]	Bushing diameter D5 [mm]	Pin diameter D6 [mm]	Plate height H [mm]	Plate thickness s [mm]	Length reiteration pin F1 [mm]	Pin length junction F2 [mm]	Ultimate strength [N]	Chain weight [kg/m]
C2040 C2042	25,4	7,9	7,95 15,88	5,5	3,96	12	1,5	16,6	9,7	16.500	0,5 0,8
C2050 C2052	31,75	9,53	10,16 19,05	7	5,08	15,1	2,03	20,4	13,4	26.500	0,8 1,2
C2060H C2062H	38,1	12,7	11,91 22,23	8,35	5,94	18	3,25	29,2	18	38.000	1,6 2,3
C2080H C2082H	50,8	15,88	15,88 28,58	11	7,92	22,2	4	36,5	21,5	66.000	2,4 3,4
C2100H C2102H	63,5	19,05	19,05 39,67	13,7	9,53	28,5	4,8	44	24,6	109.000	3,6 5,8
C2120H C2122H	76,2	25,4	22,23 44,45	16,2	11,1	36	5,65	53,8	30,5	154.000	5,3 8,7

Sprockets on request

Attachments for chains for light conveyors

According to ansi standards - at an elongated pitch.

ANSI series chains with extended pitch can be supplied with protruding pins upon request.

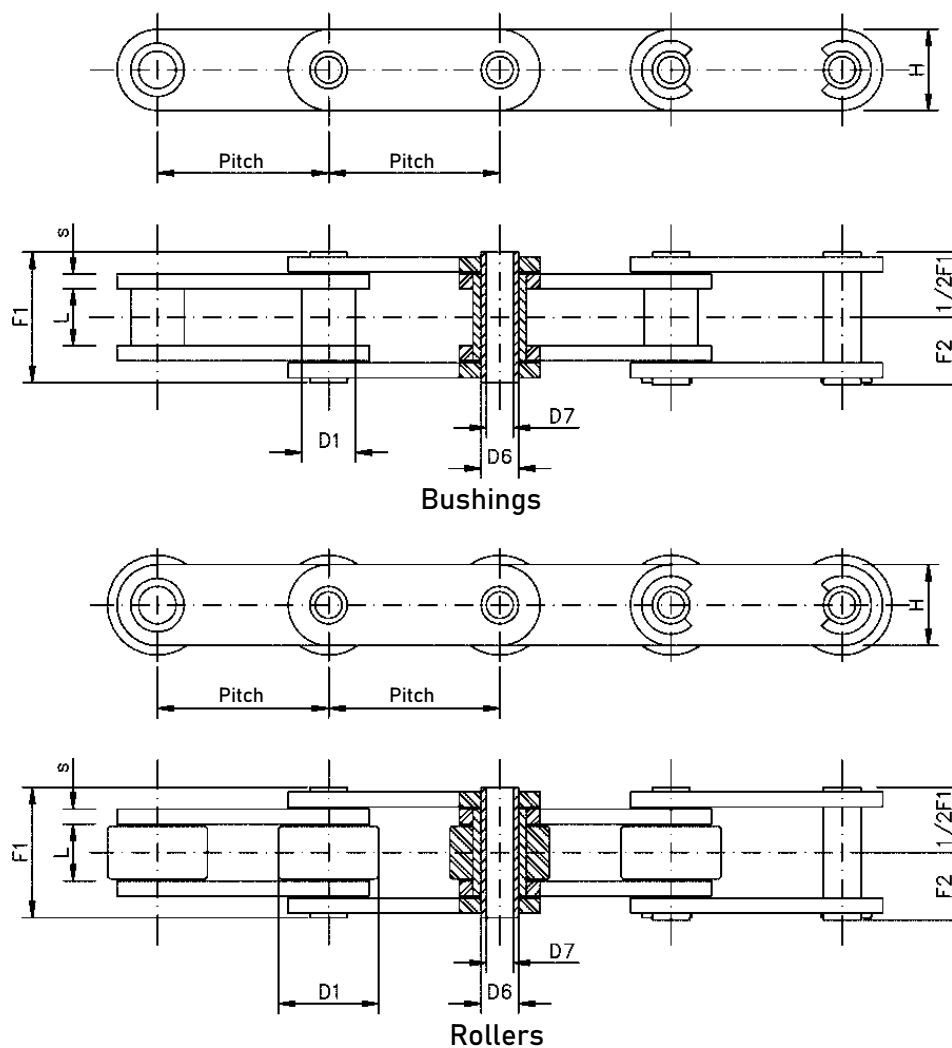


Chain N°	Pitch p [mm]	Fin folding a [mm]	Bore distance b [mm]	Bore height b1 [mm]	Bores height b2 [mm]	Fin width c [mm]	Bore diameter d [mm]	Bore diameter d1 [mm]	Max size e [mm]	Max height e1 [mm]	Bores center distance f [mm]	Plate thickness s [mm]
C2040 C2042	25,4	9,1	12,7	11,1	13,5	19,1	4,8	3,2	19,8	20,6	9,7	1,5
C2050 C2052	31,75	11,1	15,9	14,2	15,9	25,4	6,4	5,2	24,7	24,2	11,9	2,03
C2060H C2062H	38,1	14,7	21,4	19,05*	17,5*	28	8,8	5,6	31	30	14,3	3
C2080H C2082H	50,8	19,05	27,8	22,2*	25,4*	38	11	6,8	39,3	38	19	4
C2100H C2102H	63,5	23,4	33,1	28,6	31,8	47,5	13,1	8,8	49,2	48,2	23,8	4,8
C2120H C2122H	76,2	27,8	39,7	33,3	37,3	57	15	11	59,2	57	28,6	5,65

* Measurements not to ANSI standards

Chains for lightweight conveyors with hollow pins

According to ansi standards - at an elongated pitch.



Chain N°	Pitch p [mm]	Inner width L [mm]	Roller diameter D1 [mm]	Pin diameter D6 [mm]	Diameter inside bored pin D7 [mm]	Plate height H [mm]	Plate thickness s [mm]	Length reiterated pin F1 [mm]	Pin length junction F2 [mm]	Ultimate strength [N]	Chain weight [kg/m]
C2040HP C2042HP	25,4	7,9	7,95 15,88	5,6	4	12	1,5	16	9,5	11.000	0,46 0,82
C2050HP C2052HP	31,75	9,53	10,16 19,05	7,01	5,1	15	2	20,1	11,5	19.600	0,75 1,2
C2060HP C2062HP	38,1	12,7	11,91 22,23	8,7	5,99	18	2,3	24	14,5	32.000	1,87 2,23
C2080HP C2082HP	50,8	15,88	15,88 28,58	11,17	8	23	3,3	32	17,2	48.000	1,82 3,7
C2100H C2102H	63,5	19,05	19,05 39,67	13,7	9,53	28,5	4,8	44	24,6	109.000	3,6 5,8
C2120H C2122H	76,2	25,4	22,23 44,45	16,2	11,1	36	5,65	53,8	30,5	154.000	5,3 8,7

