Link-Belt®

Our achievement advances

Roller chain-Technology

Energy Impulses in Quality and Time

A BRAND OF REXNORD

PRECISION. POWER. PERFORMANCE.

Link-Belt Roller Chains

for power transmission and technology, based on and built to the highest standards of quality. This program offers solutions for a wide spectrum of applications.

Our Product Range:

- Roller chains, ISO-Standard
- Roller chains, Ansi-Standard
- Roller chains, H Series (re-inforced)
- Corrosion resistant roller chains, ISO-Standard
- Corrosion resistant roller chains, Ansi-Standard
- Double pitch conveyor chains
- Double pitch conveyor chains with large rollers
- Double pitch conveyor chains, rust resistant
- Hollow pin roller chains

Link-Belt®

Our achievement advances

Clarity in availability and delivery time

Performance, that Persuades

Over the past 100 years the brand name Link-Belt has become synonymous with top-quality chain products. In addition, Link Belt roller chains are manufactured under DIN EN ISO 9000 certification.

Quality is our standard

All Link-Belt products are manufactured under DIN EN ISO 9000 certification.

Products with High Quality – at Reasonable Prices

The quality of our products and our service lie above and beyond the average expectations. This is your Plus, when you have made the decision for Link-Belt. Our cost-effective products can meet your demands.

The Link-Belt Product Range

Standard roller chains



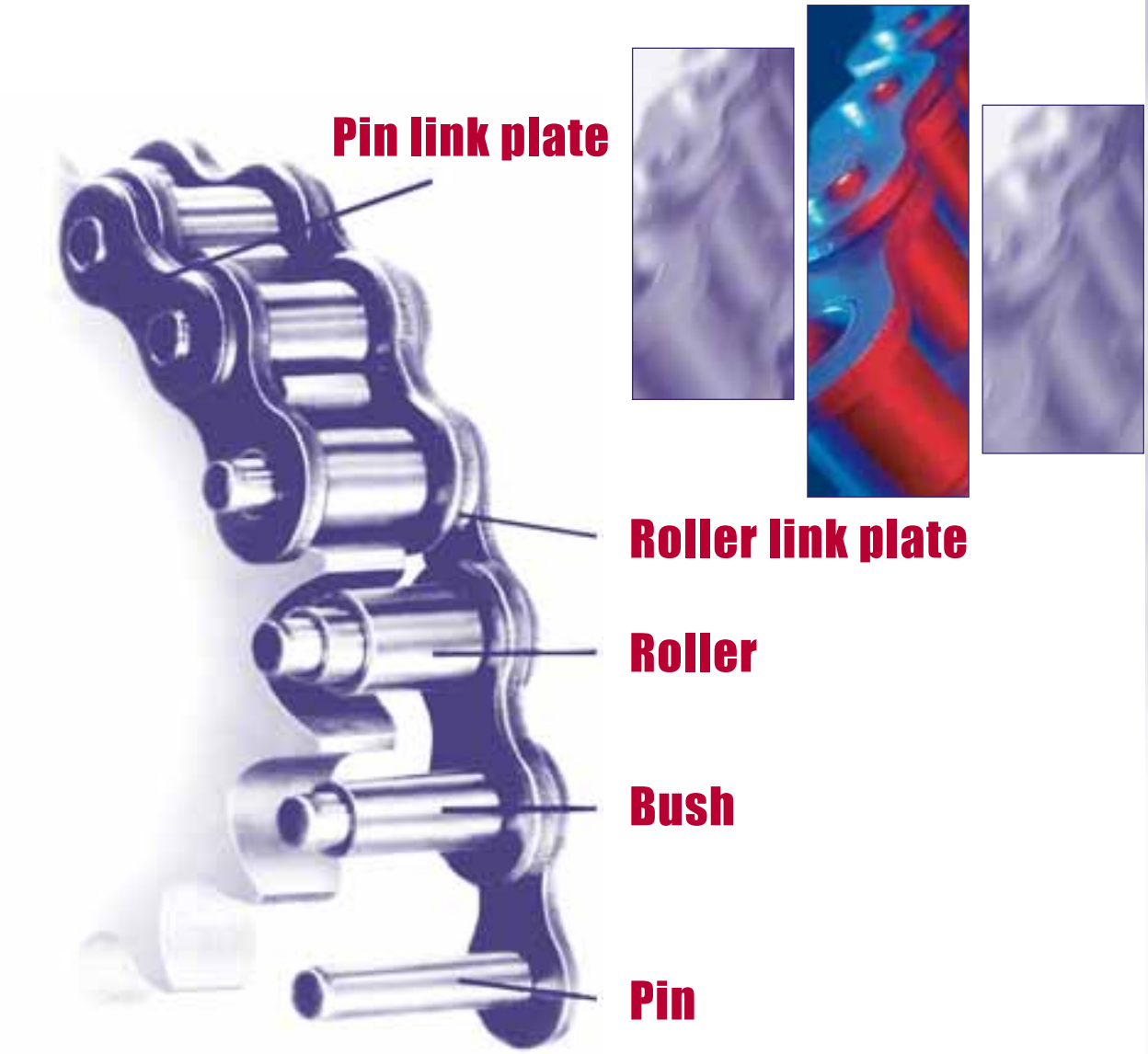

Standard roller chains BS/ISO

Standard roller chains Ansi

Double pitch chains

Hollow pin chains

The parts of the Roller Chain



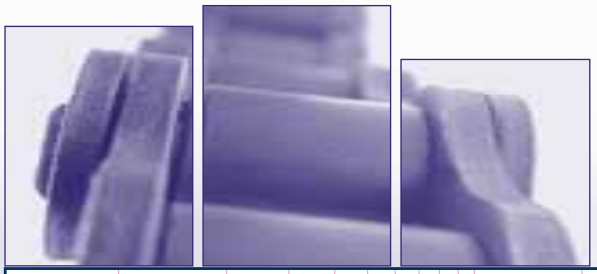
Function of the roller chain parts

The **link plates** act as the main tension carrier. They must withstand shock loading. The link plates are the critical part of the chain when looking at fatigue strength. With this in mind, the roller link plates are therefore more critical than the pin link plates. Link-Belt link plates are heat-treated.

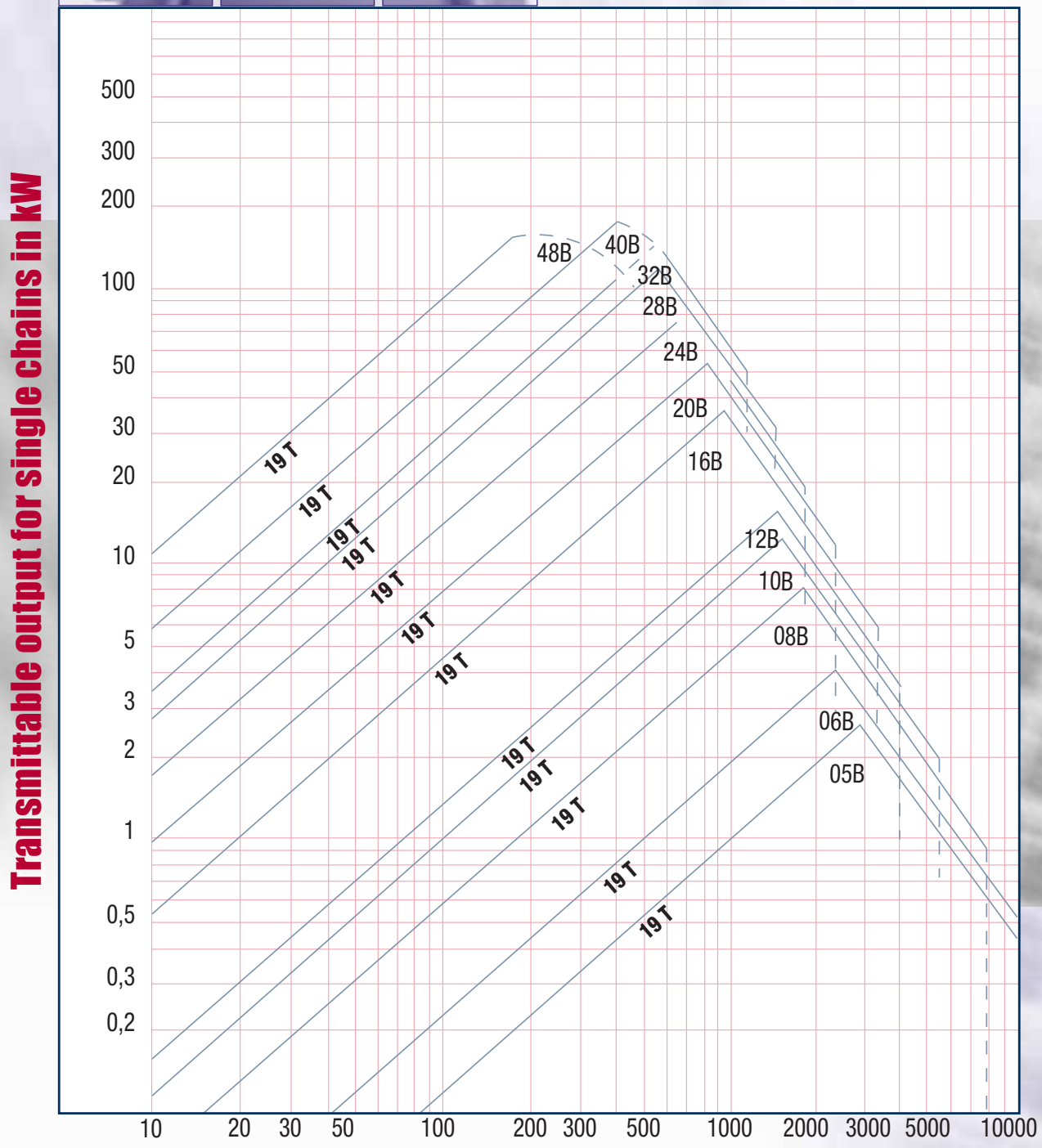
The **Rollers** protect the bushes from shock loading. To enable them to perform this function, the rollers must be heat treated. The roller then protects the working side of the chain wheel from wear and tear.

Pin and **Bushes** combine to form the chain link. They are responsible for the wear resistance of the roller chain. To achieve this resistance, the standard pins and bushes are case hardened. The pins are bound together with the pin link plates and the bushes are bound together with the roller link plate via a press fit.

Diagram for the Correct



Roller chain ISO-Standard

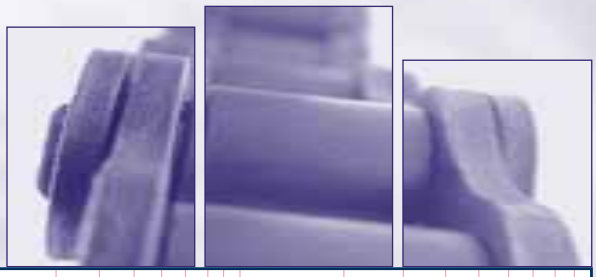


Small sprocket wheel revolutions (rpm)

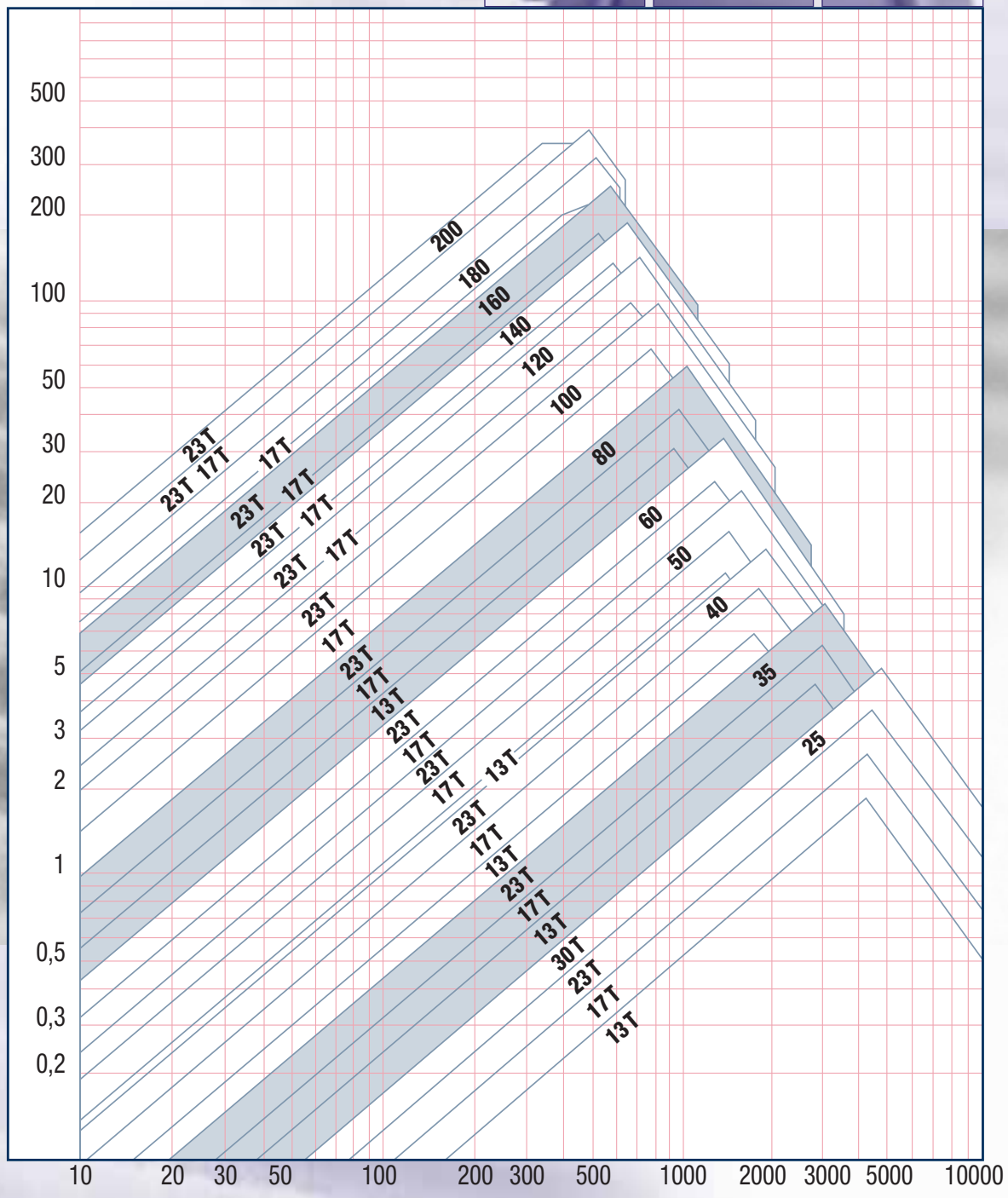
The loading for a double strand chain is made via multiplication of the load for a single chain by 1.7.

The loading for a triple strand chain is made by a multiplication factor of 2.5.

Choice of Chain

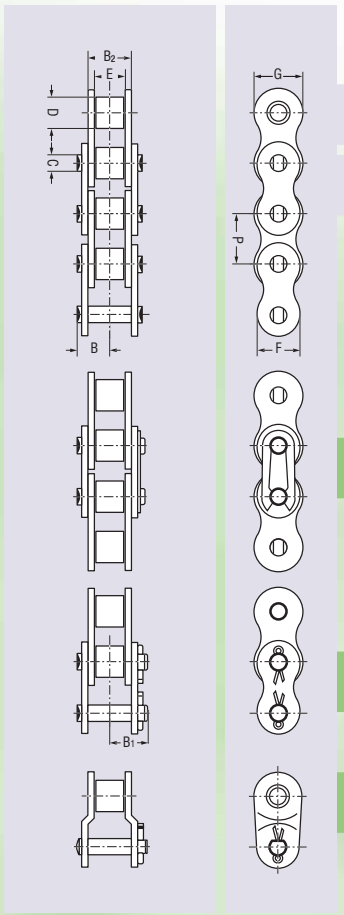


Roller chain Ansi-Standard



Outstanding Application

Roller chains, DIN 8187 ISO 606



Roller link **B**

Pin link **A**

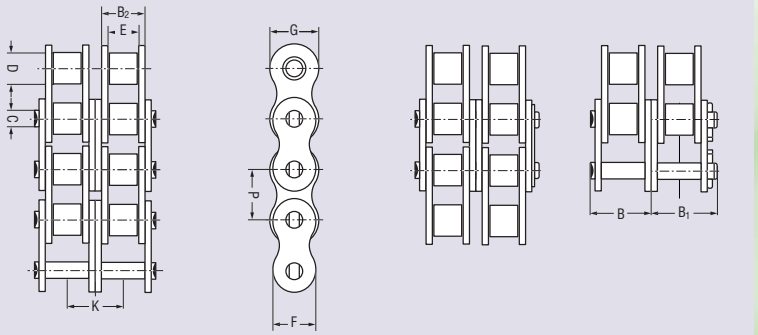
Connecting link with spring chip **VF**

Connecting link with splint **VS**

Offset link **GG**

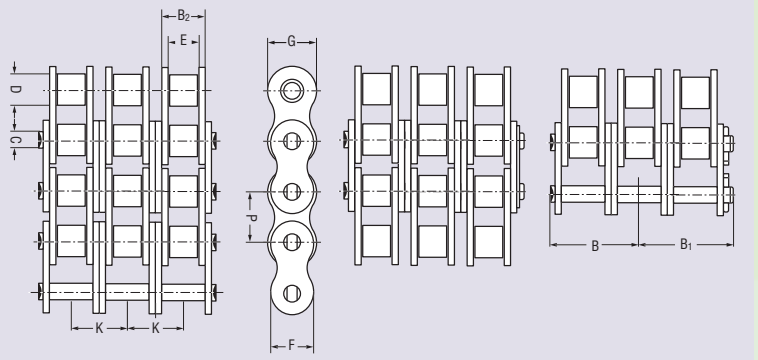
Single Roller chain, ISO

Chain No. ISO	Pitch p inch	Pitch p mm	Dimensions in mm B	B_1 max.	B_2 max.	C max.	D max.	E min.	F	G	K	Min. Ultimate strength N	Weight q kg/m	VF	VS	GG
04 B-1	0.236	6.000	3.35	4.45	4.10	1.85	4.00	2.80	5.00	5.00	–	3000	0.133	*	*	*
05 B-1	0.315	8.000	3.91	4.71	4.77	2.31	5.00	3.00	7.10	7.10	–	5000	0.164	*	*	*
06 B-1	0.375	9.525	6.13	7.83	8.53	3.28	6.35	5.72	8.20	8.20	–	9000	0.410	*	*	*
08 B-1	0.500	12.700	8.24	10.33	11.30	4.45	8.51	7.75	10.92	11.80	–	18000	0.660	*	*	*
10 B-1	0.625	15.875	9.80	12.25	13.28	5.08	10.16	9.65	13.72	14.70	–	22400	0.920	*	*	*
12 B-1	0.750	19.050	11.35	14.57	15.62	5.72	12.07	11.68	16.10	16.10	–	29000	1.210	*	*	*
16 B-1	1.000	25.400	18.05	21.11	25.45	8.28	15.88	17.02	21.00	21.00	–	60000	2.660	*	*	*
20 B-1	1.250	31.750	20.10	22.25	29.01	10.19	19.05	19.56	26.40	26.40	–	95000	3.620	*	*	*
24 B-1	1.500	38.100	26.70	32.17	37.92	14.63	25.40	25.40	33.40	33.40	–	160000	6.650	*	*	*
28 B-1	1.750	44.450	32.55	37.35	46.50	15.90	27.94	30.99	37.00	37.00	–	200000	8.900	*	*	*
32 B-1	2.000	50.800	33.15	38.15	45.50	17.85	29.21	30.99	42.20	42.20	–	250000	9.800	*	*	*
40 B-1	2.500	63.500	39.50	47.40	55.70	22.89	39.37	38.10	48.00	51.50	–	355000	15.100	*	*	*
48 B-1	3.000	76.200	49.30	60.00	70.50	29.24	48.26	45.72	62.00	65.00	–	560000	24.800	*	*	*



Double Roller chain, ISO

Chain No. ISO	Pitch p inch	Pitch p mm	Dimensions in mm B	B_1 max.	B_2 max.	C max.	D max.	E min.	F	G	K	Min. Ultimate strength N	Weight q kg/m	VF	VS	GG
06 B-2	0.375	9.525	11.56	12.95	8.53	3.28	6.35	5.72	8.20	8.20	10.24	16900	0.740	*	*	*
08 B-2	0.500	12.700	15.46	17.08	11.30	4.45	8.51	7.75	10.92	11.80	13.92	32000	1.300	*	*	*
10 B-2	0.625	15.875	18.10	20.73	13.28	5.08	10.16	9.65	13.72	14.70	16.59	44500	1.810	*	*	*
12 B-2	0.750	19.050	21.10	24.04	15.62	5.72	12.07	11.68	16.10	16.10	19.46	57800	2.400	*	*	*
16 B-2	1.000	25.400	34.00	37.31	25.45	8.28	15.88	17.02	21.00	21.00	31.88	106000	5.270	*	*	*
20 B-2	1.250	31.750	38.40	42.20	29.01	10.19	19.05	19.56	26.40	26.40	36.45	170000	7.160	*	*	*
24 B-2	1.500	38.100	50.87	56.77	37.92	14.63	25.40	25.40	33.40	33.40	48.36	280000	13.190	*	*	*
28 B-2	1.750	44.450	62.33	67.12	46.50	15.90	27.94	30.99	37.00	37.00	59.56	360000	17.800	*	*	*
32 B-2	2.000	50.800	62.40	67.40	45.50	17.85	29.21	30.99	42.20	42.20	58.55	450000	19.300	*	*	*
40 B-2	2.500	63.500	75.60	83.50	55.70	22.89	39.37	38.10	48.00	51.50	72.29	630000	29.700	*	*	*
48 B-2	3.000	76.200	94.90	105.60	70.50	29.24	48.26	45.72	62.00	65.00	91.21	1000000	49.300	*	*	*

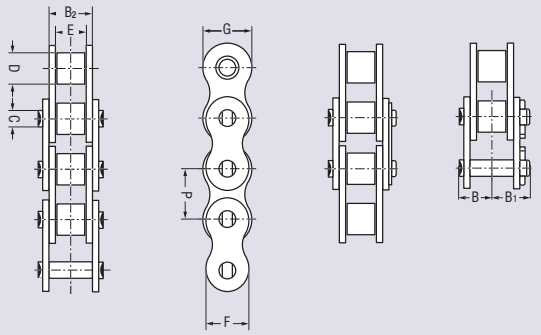


Triple Roller chain, ISO

Chain No. ISO	Pitch p inch	Pitch p mm	Dimensions in mm B	B_1 max.	B_2 max.	C max.	D max.	E min.	F	G	K	Min. Ultimate strength N	Weight q kg/m	VF	VS	GG
06 B-3	0.375	9.525	16.68	19.18	8.53	3.28	6.35	5.72	8.20	8.20	10.24	24900	1.100	*	*	*
08 B-3	0.500	12.700	22.45	24.11	11.30	4.45	8.51	7.75	10.92	11.80	13.92	47500	1.950	*	*	*
10 B-3	0.625	15.875	26.40	28.88	13.28	5.08	10.16	9.65	13.72	14.70	16.59	66700	2.700	*	*	*
12 B-3	0.750	19.050	30.85	33.99	15.62	5.72	12.07	11.68	16.10	16.10	19.46	86700	3.590	*	*	*
16 B-3	1.000	25.400	49.95	53.46	25.45	8.28	15.88	17.02	21.00	21.00	31.88	160000	7.880	*	*	*
20 B-3	1.250	31.750	56.60	61.20	29.01	10.19	19.05	19.56	26.40	26.40	36.45	250000	10.750	*	*	*
24 B-3	1.500	38.100	75.10	80.67	37.92	14.63	25.40	25.40	33.40	33.40	48.36	425000	19.690	*	*	*
28 B-3	1.750	44.450	92.10	96.90	46.50	15.90	27.94	30.99	37.00	37.00	59.56	530000	26.750	*	*	*
32 B-3	2.000	50.800	91.70	96.70	45.50	17.85	29.21	30.99	42.20	42.20	58.55	670000	28.900	*	*	*
40 B-3	2.500	63.500	111.80	120.70	55.70	22.89	39.37	38.10	48.00	51.50	72.29	950000	45.500	*	*	*
48 B-3	3.000	76.200	140.50	150.90	70.50	29.24	48.26	45.72	62.00	65.00	91.21	1500000	79.700	*	*	*

* = These connecting links are available

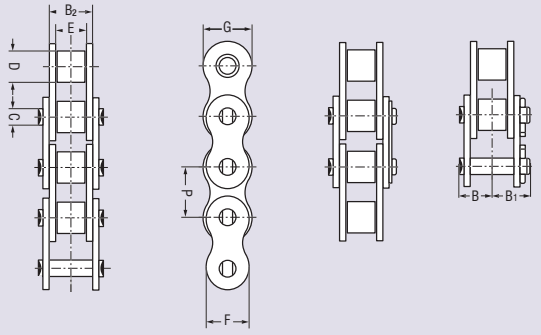
Outstanding Endurance



Single Roller chain, ISO nickel-plated

Chain No. ISO	Pitch p inch	Pitch p mm	Dimensions in mm B	B_1 max.	B_2 max.	C max.	D max.	E min.	F	G	K	Min. Ultimate strength N	Weight q kg/m	VF	VS	GG
04 B-1 NPC	0.236	6.000	3.35	4.45	4.10	1.85	4.00	2.80	5.00	5.00	–	3000	0.133	*	*	*
05 B-1 NPC	0.315	8.000	3.91	4.71	4.77	2.31	5.00	3.00	7.10	7.10	–	5000	0.164	*	*	*
06 B-1 NPC	0.375	9.525	6.13	7.83	8.53	3.28	6.35	5.72	8.20	8.20	–	9000	0.410	*	*	*
08 B-1 NPC	0.500	12.700	8.24	10.33	11.30	4.45	8.51	7.75	10.92	11.80	–	18000	0.660	*	*	*
10 B-1 NPC	0.625	15.875	9.80	12.25	13.28	5.08	10.16	9.65	13.72	14.70	–	22400	0.920	*	*	*
12 B-1 NPC	0.750	19.050	11.35	14.57	15.62	5.72	12.07	11.68	16.10	16.10	–	29000	1.210	*	*	*
16 B-1 NPC	1.000	25.400	18.05	21.11	25.45	8.28	15.88	17.02	21.00	21.00	–	60000	2.660	*	*	*

Double chains can be found on page 22.



Single Roller chain, Ansi corrosion resistant

Chain No. Ansi	Pitch p inch	Pitch p mm	Dimensions in mm B	B_1 max.	B_2 max.	C max.	D max.	E min.	F	G	K	Min. Ultimate strength N	Weight q kg/m	VF	VS	GG
25-1 SS	0.250	6.350	3.91	4.71	4.80	2.32	3.30	3.18	5.01	5.81	–	3000	0.130	*	*	*
35-1 SS	0.375	9.525	5.89	7.69	7.46	3.59	5.08	4.78	7.80	9.04	–	7000	0.320	*	*	*
40-1 SS	0.500	12.700	8.22	10.32	11.17	3.98	7.92	7.92	10.40	12.06	–	12500	0.620	*	*	*
50-1 SS	0.625	15.875	10.15	12.40	13.84	5.09	10.16	9.52	13.01	15.08	–	22500	1.010	*	*	*
60-1 SS	0.750	19.050	12.72	15.27	17.75	5.96	11.91	12.70	15.64	18.09	–	30000	1.450	*	*	*
80-1 SS	1.000	25.400	16.50	19.85	22.60	7.94	15.87	15.88	20.82	24.13	–	48000	2.550	*	*	*

Double and triple strand chains can be found on page 23.

* = These connecting links are available

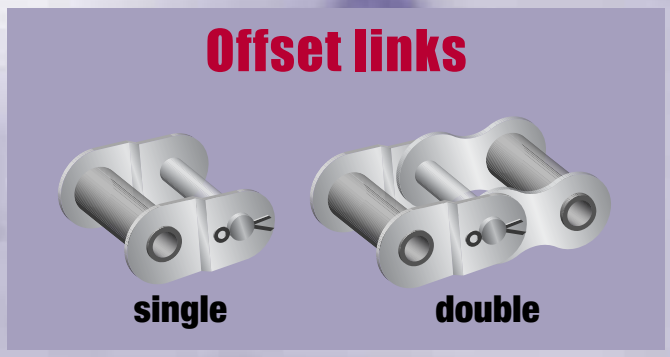
Types of Roller Chain Links

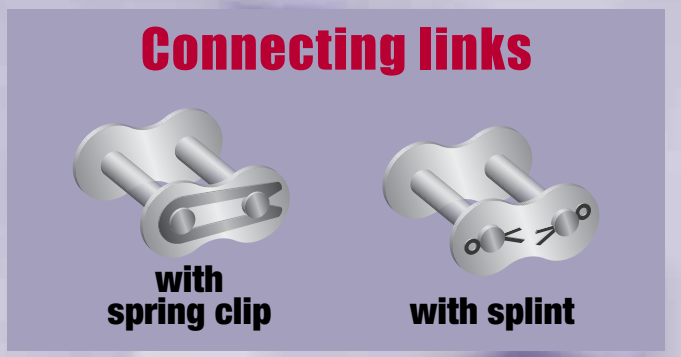
Offset link:

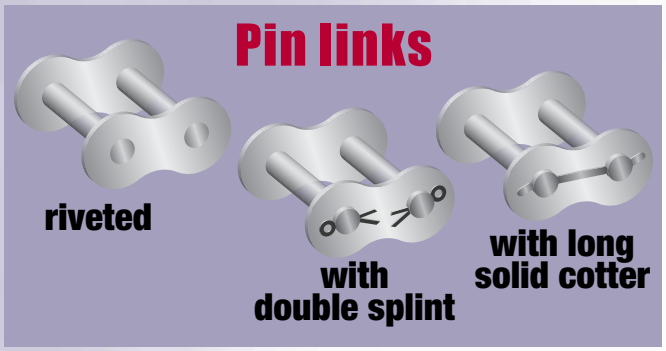
A chain link consisting of two offset link plates, a bush and a movable pin with splint. The offset double link consisting of one roller link and one offset link, which are connected by a riveted press-fit pin.

Roller link:

A chain link consisting of two roller link plates, two bushes and two rollers.







Connecting link:

A pin link consisting of a pin link plate, two mounted pins and pin link plate with sliding fit. There two types of connecting links.

- **Connecting link with spring clip:**
  The removable pin link plate is fixed with a spring clip. which engages grooves cut into the ends of the pins.
- **Connecting link with splint:**
  The link plate is held in position by 2 cotter pins.

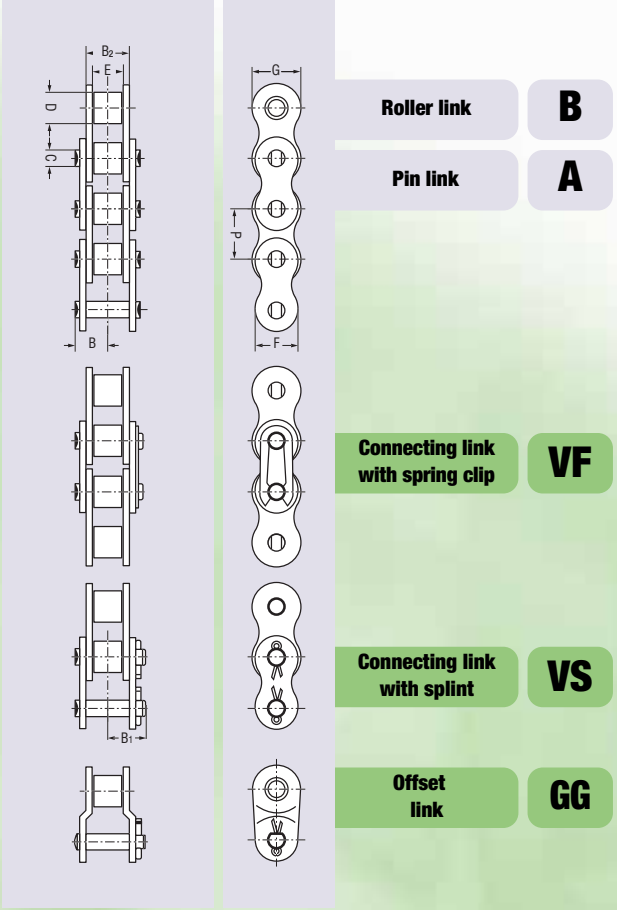
Pin link:

A pin link consists of two pin link plates, which are mounted with two pins. There are three types of pin link.

- **Riveted:**
  standard type of pin link.
- **Double splint:**
  pin link with two splints.
- **Long solid cotter:**
  pin link with long solid cotter.

High Demands

Roller chains, DIN 8188



Roller link **B**

Pin link **A**

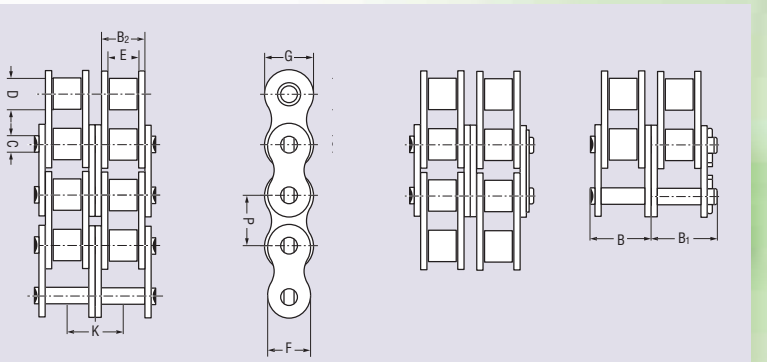
Connecting link with spring clip **VF**

Connecting link with splint **VS**

Offset link **GG**

Single Roller chain, Ansi

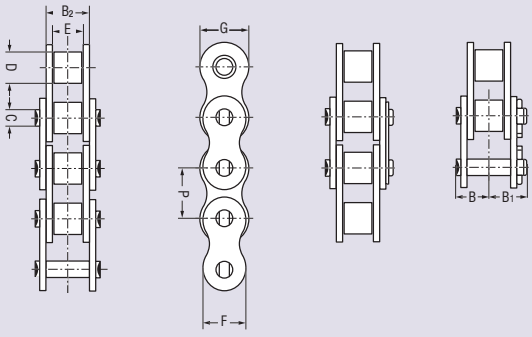
Chain No.	Pitch p		Dimensions in mm									Min. Ultimate strength	Weight q			
Ansi	inch	mm	B	B_1 max.	B_2 max.	C max.	D max.	E min.	F	G	K	N	kg/m	VF	VS	GG
25-1	0.250	6.350	3.91	4.71	4.80	2.32	3.30	3.18	5.01	5.81	–	3470	0.130	*	*	*
35-1	0.375	9.525	5.89	6.79	7.46	3.59	5.08	4.78	7.80	9.04	–	7825	0.320	*	*	*
40-1	0.500	12.700	8.22	10.32	11.17	3.98	7.92	7.92	10.41	12.06	–	14100	0.620	*	*	*
50-1	0.625	15.875	10.15	12.40	13.84	5.09	10.16	9.52	13.01	15.08	–	22200	1.010	*	*	*
60-1	0.750	19.050	12.72	15.27	17.75	5.96	11.91	12.70	15.64	18.09	–	31800	1.450	*	*	*
80-1	1.000	25.400	16.50	19.85	22.60	7.94	15.87	15.88	20.82	24.13	–	56700	2.550	*	*	*
100-1	1.250	31.750	20.19	23.19	27.45	9.54	19.05	19.05	26.03	30.16	–	88500	3.950	*	*	*
120-1	1.500	38.100	25.53	29.83	35.45	11.11	22.22	25.40	31.24	36.19	–	127000	5.640	*	*	*
140-1	1.750	44.450	27.27	32.17	37.18	12.71	25.40	25.40	36.44	42.22	–	172400	7.380	*	*	*
160-1	2.000	50.800	32.76	37.06	45.21	14.29	28.57	31.75	41.65	48.26	–	226800	9.400	*	*	*
200-1	2.500	63.500	40.15	46.35	54.88	19.85	39.67	38.10	52.07	60.32	–	353800	15.900	*	*	*
240-1	3.000	76.200	48.95	55.35	67.81	23.81	47.63	47.63	62.48	72.39	–	510300	24.400	*	*	*



Double Roller chain, Ansi

Chain No. Ansi	Pitch p inch	Pitch p mm	Dimensions in mm B	B_1 max.	B_2 max.	C max.	D max.	E min.	F	G	K	Min. Ultimate strength N	Weight q kg/m	VF	VS	GG
25-2	0.250	6.350	7.11	7.91	4.80	2.32	3.30	3.18	5.01	5.81	6.40	6940	0.250	*	*	*
35-2	0.375	9.525	11.21	12.61	7.46	3.59	5.08	4.78	7.80	9.04	10.13	15650	0.630	*	*	*
40-2	0.500	12.700	15.45	17.53	11.17	3.98	7.92	7.92	10.41	12.06	14.38	28200	1.220	*	*	*
50-2	0.625	15.875	19.18	21.58	13.84	5.09	10.16	9.52	13.01	15.08	18.11	44400	2.000	*	*	*
60-2	0.750	19.050	24.10	26.80	17.75	5.96	11.91	12.70	15.64	18.09	22.78	63600	2.870	*	*	*
80-2	1.000	25.400	31.10	35.20	22.60	7.94	15.87	15.88	20.82	24.13	29.29	113400	5.050	*	*	*
100-2	1.250	31.750	38.14	42.04	27.45	9.54	19.05	19.05	26.03	30.16	35.76	177000	7.860	*	*	*
120-2	1.500	38.100	48.13	52.33	35.45	11.11	22.22	25.40	31.24	36.19	45.44	254000	11.200	*	*	*
140-2	1.750	44.450	51.57	56.97	37.18	12.71	25.40	25.40	36.44	42.22	48.87	344800	14.660	*	*	*
160-2	2.000	50.800	62.41	65.21	45.21	14.29	28.57	31.75	41.65	48.26	58.55	453600	18.640	*	*	*
200-2	2.500	63.500	75.95	82.15	54.88	19.85	39.67	38.10	52.07	60.32	71.55	707600	31.630	*	*	*
240-2	3.000	76.200	92.90	99.20	67.81	23.81	47.63	47.63	62.48	72.39	87.83	1020600	48.400	*	*	*

Triple strand chains can be found on page 18.



Single Roller chain, Ansi H-Series

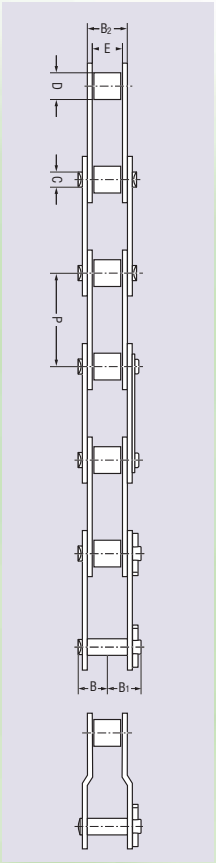
Chain No. Ansi	Pitch p inch	Pitch p mm	Dimensions in mm B	B_1 max.	B_2 max.	C max.	D max.	E min.	F	G	K	Min. Ultimate strength N	Weight q kg/m	VF	VS	GG
60-1 H	0.750	19.050	14.40	16.90	19.43	5.96	11.91	12.70	15.64	18.09	–	55000	1.730	*	*	*
80-1 H	1.000	25.400	17.95	22.05	24.28	7.94	15.87	15.88	20.82	24.13	–	90000	2.970	*	*	*
100-1 H	1.250	31.750	21.40	25.20	29.10	9.54	19.05	19.05	26.03	30.16	–	140000	4.490	*	*	*
120-1 H	1.500	38.100	26.50	31.30	37.18	11.11	22.22	25.40	31.24	36.19	–	165000	6.260	*	*	*
140-1 H	1.750	44.450	28.30	33.10	38.90	12.71	25.40	25.40	36.44	42.22	–	268000	8.150	*	*	*
160-1 H	2.000	50.800	33.60	38.10	46.48	14.29	28.57	31.75	41.65	48.26	–	308500	10.300	*	*	*

Double strand chains can be found on page 19.

* = These connecting links are available

High Demands

Double pitch conveyor chains



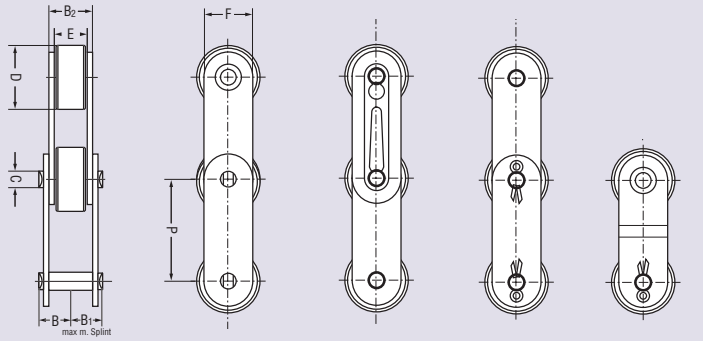
Roller link	B
Pin link	A
Connecting link with spring clip	VF
Connecting link with splint	VS
Offset link	GG

Conveyor chain, Ansi straight link plate

Chain No. Ansi	Pitch p inch	Pitch p mm	Dimensions in mm B	B_1 max.	B_2 max.	C max.	D max.	E min.	F	G	K	Min. Ultimate strength N	Weight q kg/m	VF	VS	GG
C 2040	1.000	25.400	8.22	10.32	11.17	3.98	7.92	7.92	12.06	–	–	14100	0.472	*	*	*
C 2050	1.250	31.750	10.15	12.40	13.84	5.09	10.16	9.52	15.08	–	–	22200	0.804	*	*	*
C 2060	1.500	38.100	12.72	15.27	17.75	5.96	11.91	12.70	18.09	–	–	31800	1.130	*	*	*

Conveyor chain, Ansi straight link plate, H-Series

Chain No. Ansi	Pitch p inch	Pitch p mm	Dimensions in mm B	B_1 max.	B_2 max.	C max.	D max.	E min.	F	G	K	Min. Ultimate strength N	Weight q kg/m	VF	VS	GG
C 2060 H	1.500	38.100	14.40	16.90	19.43	5.96	11.91	12.70	18.09	–	–	55920	1.410	*	*	*
C 2080 H	2.000	50.800	18.15	22.55	24.28	7.94	15.87	15.88	24.13	–	–	88240	2.380	*	*	*
C 2100 H	2.500	63.500	21.59	25.59	29.10	9.54	19.05	19.05	30.16	–	–	137250	3.660	*	*	*

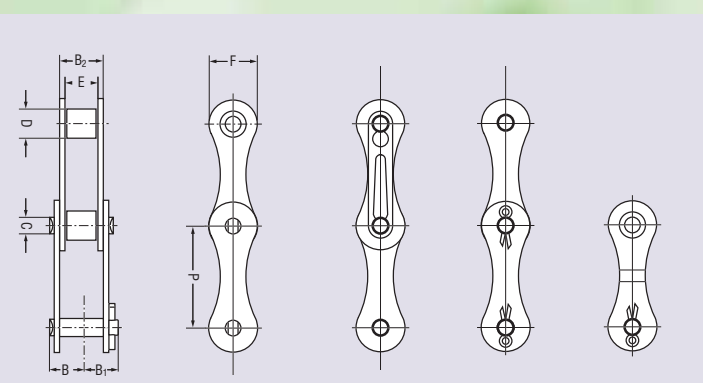


Conveyor chain, Ansi — straight link plate, with large roller

Chain No. Ansi	Pitch p inch	Pitch p mm	Dimensions in mm B	B_1 max.	B_2 max.	C max.	D max.	E min.	F	G	K	Min. Ultimate strength N	Weight q kg/m	VF	VS	GG
C 2042	1.000	25.400	8.22	10.32	11.17	3.98	15.88	7.92	12.06	–	–	14100	0.827	*	*	*
C 2052	1.250	31.750	10.15	12.40	13.84	5.09	19.05	9.52	15.08	–	–	22200	1.270	*	*	*
C 2062	1.500	38.100	12.72	15.27	17.75	5.96	22.22	12.70	18.09	–	–	31800	1.850	*	*	*

Conveyor chain, Ansi — straight link plate, with large roller, H-Series

Chain No. Ansi	Pitch p inch	Pitch p mm	Dimensions in mm B	B_1 max.	B_2 max.	C max.	D max.	E min.	F	G	K	Min. Ultimate strength N	Weight q kg/m	VF	VS	GG
C 2062 H	1.500	38.100	14.40	16.90	19.43	5.96	22.22	12.70	18.09	–	–	55920	2.120	*	*	*
C 2082 H	2.000	50.800	18.15	22.55	24.28	7.94	28.58	15.88	24.13	–	–	88240	3.440	*	*	*
C 2102 H	2.500	63.500	21.59	25.59	29.10	9.54	39.67	19.05	30.16	–	–	137250	5.880	*	*	*



Double pitch chain, Ansi — curved link plate

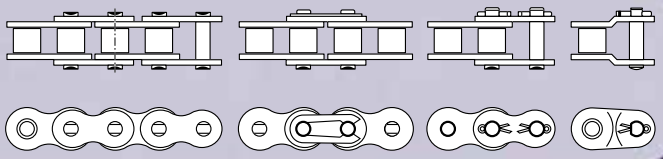
Chain No. Ansi	Pitch p inch	Pitch p mm	Dimensions in mm B	B_1 max.	B_2 max.	C max.	D max.	E min.	F	G	K	Min. Ultimate strength N	Weight q kg/m	VF	VS	GG
A 2040	1.000	25.400	8.22	10.32	11.17	3.98	7.92	7.92	12.06	–	–	14100	0.410	*	*	*
A 2050	1.250	31.750	10.15	12.40	13.84	5.09	10.16	9.52	15.08	–	–	22200	0.680	*	*	*
A 2060	1.500	38.100	12.72	15.27	17.75	5.96	11.91	12.70	18.09	–	–	31800	0.950	*	*	*

* = These connecting links are available

Chain types and their characteristics

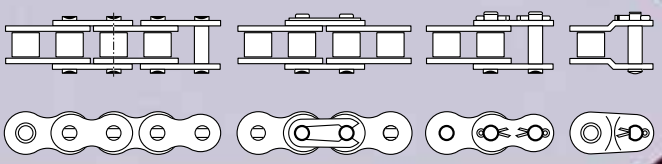
ISO-Standard roller chains

Link-Belt ISO-Standard roller chains conform to ISO-DIN stipulations and BS Guidelines. They are suitable for application in Europe and can be used for spare parts for European machines.



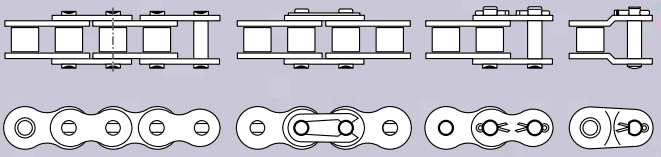
Ansi-Standard roller chains

Ansi-Standard Roller chains are of the same construction as Ansi chains from other manufacturers, in so far as they fulfill the Ansi B 29.1 Guidelines. The predominant usage of Link-Belt Ansi-Standard roller chains lies in the field of drive technology. Multiple strand chains are available for large power transfers.



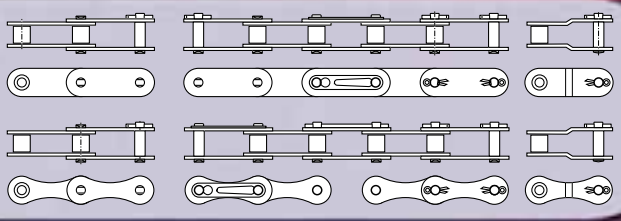
Roller chains in the „Heavy“ category

Where operating space is limited or the question of chain weight restricts the application of larger chains, the H series chain delivers a higher power transfer than the normal Ansi chains. They are available either as single or multiple strand chains.



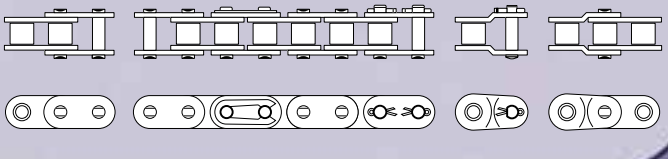
Double pitch conveyor chains

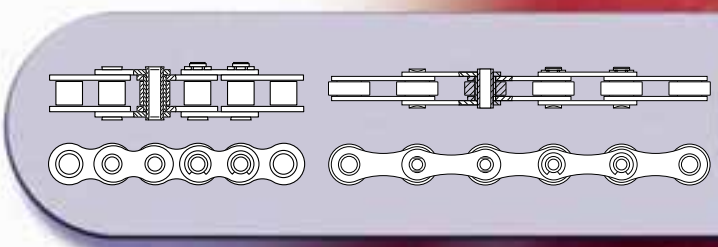
Link-Belt supplies double pitch chains with curved link plates and conveyor chains with straight link plates. The chains correspond to the Ansi-Standard with the same parts, except that the link plates have a double pitch size. They are used for low speeds, for lighter loads and for long distance conveying plant. Under the same precision quality, the reduction of material provides a more economical choice.



„C“-Type roller chains

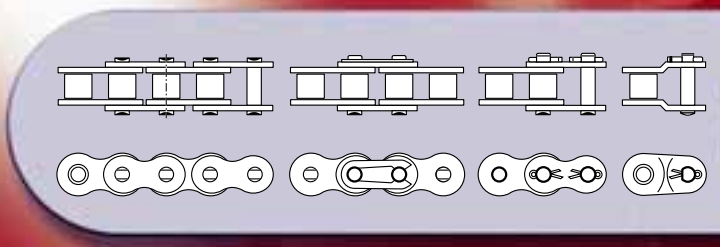
Link-Belt “C”-Type roller chains correspond to the Ansi-Standard. The exception is that they have a straight link plate form against the curved standard link plate. These chains demonstrate a higher fatigue strength when compared with standard roller chains.





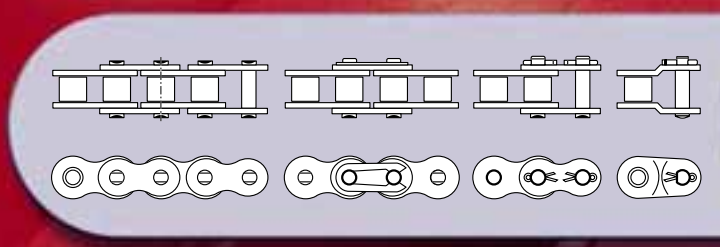
Hollow pin chains

Hollow pin chains offer unlimited possibilities for the design of conveyor systems. Attachments or cross rods can be inserted in the holes at any desired frequency. Hollow pin chains allow various changes of combination without removing the chains from the conveyor.



Corrosion resistant chains

The chain types correspond to the dimensions laid down in ISO or Ansi Standard and are made from stainless steel. They therefore have an excellent resistance to corrosion. This alone, must be the best reason to choose these Link-Belt roller chains in surroundings with extraordinarily high or low temperatures and in a corrosive environment.



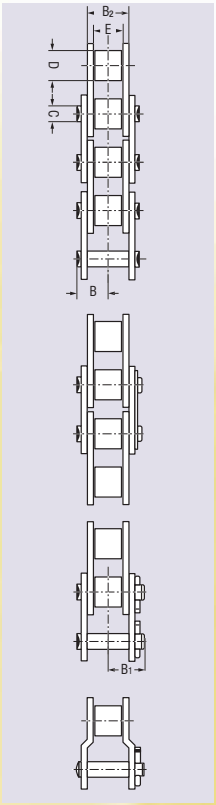
Nickel-plated roller chains

The nickel coating gives good corrosive resistant characteristics. Nickel-plated chains have the same dimensions and tensile strengths as the corresponding standard roller chains.

Link-Belt®

Our achievement advances

Outstanding Application



Roller link **B**

Pin link **A**

Connecting link with spring clip **VF**

Connecting link with splint **VS**

Offset link **GG**

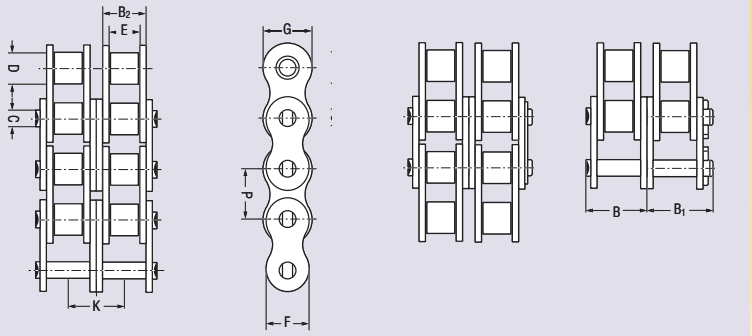
Single roller chain, ISO corrosion resistant

Chain No. ISO	Pitch p inch	Pitch p mm	Dimensions in mm B	B_1 max.	B_2 max.	C max.	D max.	E min.	F	G	K	Min. Ultimate strength N	Weight q kg/m	VF	VS	GG
06 B-1 SS	0.375	9.525	6.13	7.83	8.53	3.28	6.35	5.72	8.20	8.20	–	7000	0.410	*	*	*
08 B-1 SS	0.500	12.700	8.24	10.33	11.30	4.45	8.51	7.75	10.92	11.80	–	12500	0.660	*	*	*
10 B-1 SS	0.625	15.875	9.80	12.25	13.28	5.08	10.16	9.65	13.72	14.70	–	16500	0.920	*	*	*
12 B-1 SS	0.750	19.050	11.35	14.57	15.62	5.72	12.07	11.68	16.10	16.10	–	21000	1.210	*	*	*
16 B-1 SS	1.000	25.400	18.05	21.11	25.45	8.28	15.88	17.02	21.00	21.00	–	50000	2.660	*	*	*

Triple Roller chain, Ansi

Chain No. Ansi	Pitch p inch	Pitch p mm	Dimensions in mm B	B_1 max.	B_2 max.	C max.	D max.	E min.	F	G	K	Min. Ultimate strength N	Weight q kg/m	VF	VS	GG
25-3	0.250	6.350	10.53	11.33	4.80	2.32	3.30	3.18	5.01	5.81	6.40	10410	0.370	*	*	*
35-3	0.375	9.525	16.09	17.89	7.46	3.59	5.08	4.78	7.80	9.04	10.13	23475	0.940	*	*	*
40-3	0.500	12.700	22.60	24.76	11.17	3.98	7.92	7.92	10.41	12.06	14.38	42300	1.820	*	*	*
50-3	0.625	15.875	28.28	31.03	13.84	5.09	10.16	9.52	13.01	15.08	18.11	66600	2.980	*	*	*
60-3	0.750	19.050	35.55	38.25	17.75	5.96	11.91	12.70	15.64	18.09	22.78	95400	4.280	*	*	*
80-3	1.000	25.400	45.70	49.90	22.60	7.94	15.87	15.88	20.82	24.13	29.29	170100	7.540	*	*	*
100-3	1.250	31.750	55.99	59.89	27.45	9.54	19.05	19.05	26.03	30.16	35.76	265500	11.750	*	*	*
120-3	1.500	38.100	70.43	75.53	35.45	11.11	22.22	25.40	31.24	36.19	45.44	381000	16.730	*	*	*
140-3	1.750	44.450	76.47	80.77	37.18	12.71	25.40	25.40	36.44	42.22	48.87	517200	21.930	*	*	*
160-3	2.000	50.800	91.55	93.76	45.21	14.29	28.57	31.75	41.65	48.26	58.55	680400	27.890	*	*	*
200-3	2.500	63.500	111.70	117.90	54.88	19.85	39.67	38.10	52.07	60.32	71.55	1061400	47.300	*	*	*
240-3	3.000	76.200	136.80	143.20	67.81	23.81	47.63	47.63	62.48	72.39	87.83	1530900	72.400	*	*	*

Powerful transmission for heavy jobs



Offset sidebar chains

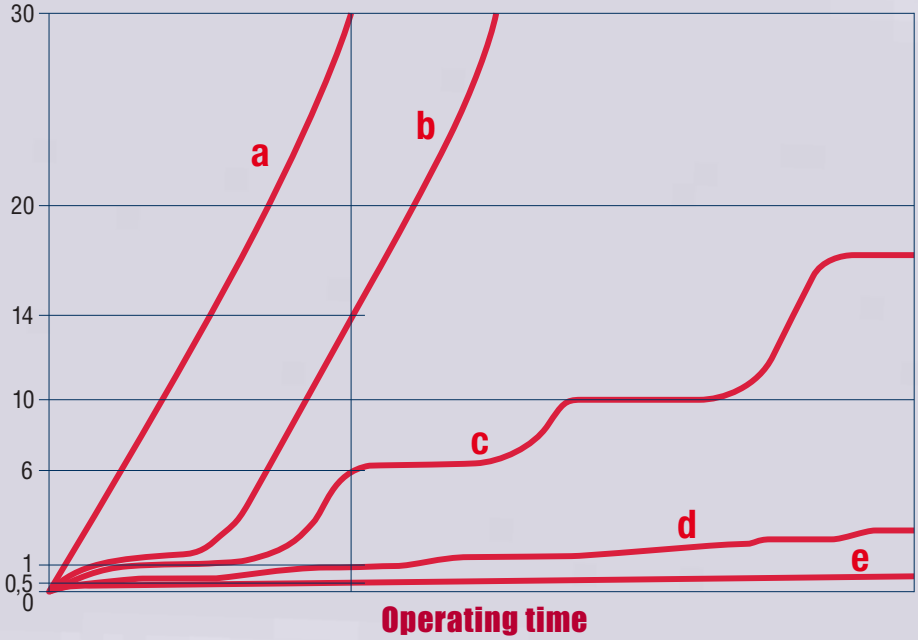
H-Series

Chain No.	Pitch p		Dimensions in mm									Min. Ultimate strength	Weight q			
Ansi	inch	mm	B	B_1 max.	B_2 max.	C max.	D max.	E min.	F	G	K	N	kg/m	VF	VS	GG
60-2 H	0.750	19.050	27.55	29.75	19.43	5.96	11.91	12.70	15.64	18.09	26.11	110000	3.430	*	*	*
80-2 H	1.000	25.400	34.75	38.65	24.28	7.94	15.87	15.88	20.82	24.13	32.59	180000	5.910	*	*	*
100-2 H	1.250	31.750	41.54	44.73	29.10	9.54	19.05	19.05	26.03	30.16	39.09	280000	8.880	*	*	*
120-2 H	1.500	38.100	51.90	56.83	37.18	11.11	22.22	25.40	31.24	36.19	48.87	330000	12.500	*	*	*

* = These connecting links are available

Lubrication of roller chains

Permissible chain length



a) Dry running
b) Lubrication once without relubrication
c) Temporary dry running (relubricatin interval too long)
d) Inadequate lubrication
e) Adequate lubrication

Waer elongation for:

a) 30 mm
b) 14 mm
c) 6 mm
d) 1 mm
e) 0.5 mm

Lubrication mistakes

Simple and unproblematic as the lubrication of drive chains may appear, a lot of mistakes are always made.
Statistics have shown that 60 % of all failures in chains are a direct result of incorrect lubrication.

Thickening and non liquid lubricants have the effect, they only achieve the formation of a lube film in the chain joints at the first relubrication, since only at that time, the lubricant passes between the link plate gaps.

Later lubrication generally only causes the formation of additional layers of grease on the outside of the link plates and rollers, which inevitably results in the collection of dust, thickening the grease and even the formation of hard crusts.

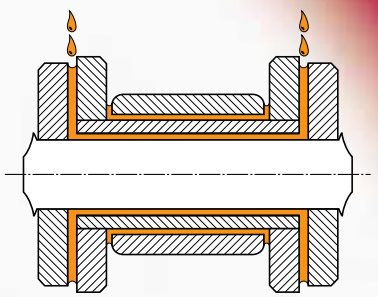
The outward appearance of the chain suggests that it is getting optimum lubrication. The truth however is, in most cases, the opposite.

The use of incorrect lubricants, which under normal conditions are too thick to penetrate the chain joints, cause dry friction in the chain links. This furthers the formation of gaps in the link joints, which sooner or later become filled with condensed water, friction and surface corrosion are the inevitable consequences.

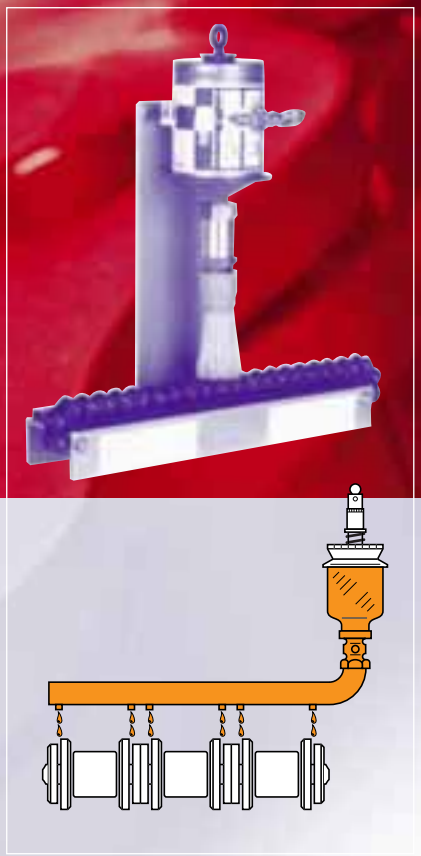
Since new chains have very little play between pins and bushes, this rapidly leads to pitting and wafering of the links.

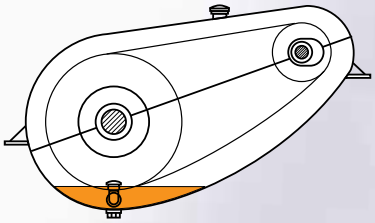
The first stage is stiffening of the joints. In the next stage the pins become fixed with the bushes, thereby destroying the press fit between pins and link plate, i. e. the roller link turns the pins in the press fits of the pin link plate. This will cause premature failure in the chain.
In less serious cases, rapid elongation occurs through stiffness and oxidation of the joints. A symptom of this can be “bleeding” of the pins.

Cross-section of a chain link



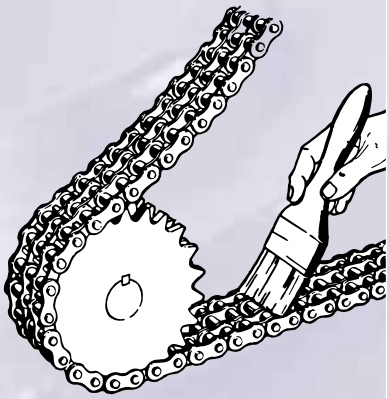
Correct chain lubrication





Oil bath lubrication.

For chain speeds from 1.5 m/s up to 8 m/s the oil bath lubrication is recommended. For ranges between 4-8 m/s an oil stirring disc should be installed next to the sprocket and only this disc may be immersed in the oil to avoid the formation of foam.



Manual lubrication.

For chain drives with a speed of up to approx. 0.5 m/s the so-called manual lubrication may be used. The oil is applied by means of a brush, spout can or aerosol spray can.

Drip lubrication.

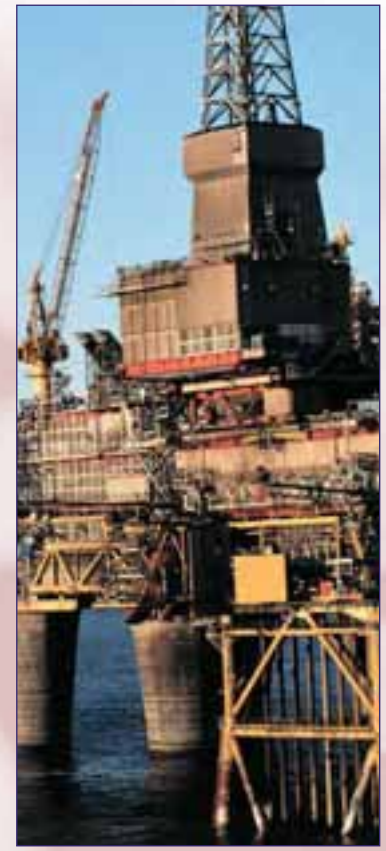
Chain speeds from 0.5 up to 1.5 m/s are suited to the drip method. The oil drips only onto the top edges of the link plates.

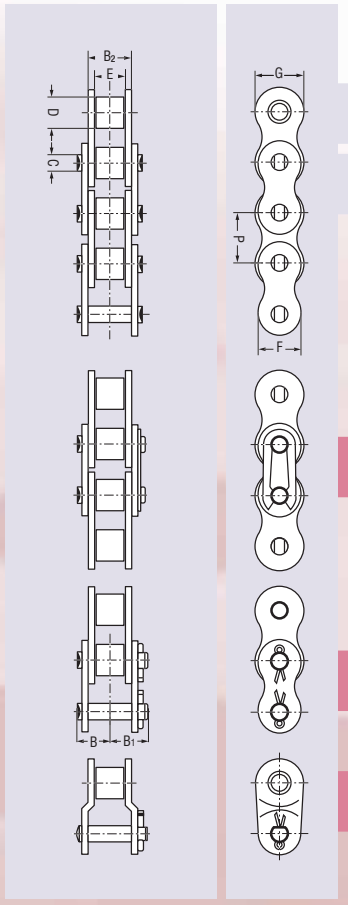
To achieve an effective lubrication, it is necessary that at each application enough quantities of liquid lubricant are introduced into the chain joints. The lubricant must hereby pass through a narrow gap between the link plates and is therefore best applied to the edges of the link plates.

For lubrication, a thin mineral, machine, motor or gear oil should always be used. The viscosity of the lubricating oil should be chosen so that it will remain fluid at all occurring ambient temperatures.

It really lies in your hands, a 60-times, a 12-times or only inadequate service life!

Outstandingly Resistant





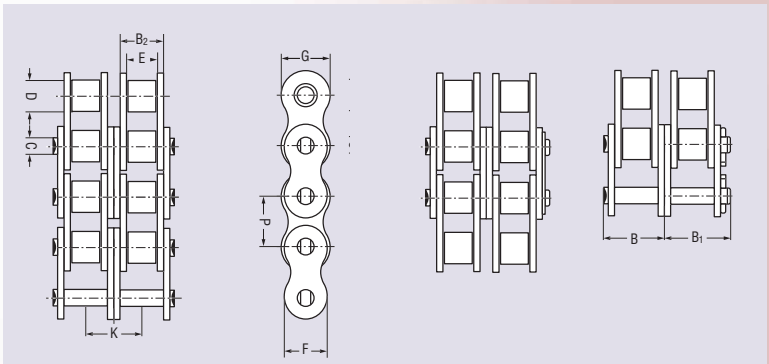
Roller link	B
Pin link	A
Connecting link with spring clip	VF
Connection link with splint	VS
Offset link	GG

Double Roller chain, ISO nickel-plated

Chain No. ISO	Pitch p inch	Pitch p mm	Dimensions in mm B	B_1 max.	B_2 max.	C max.	D max.	E min.	F	G	K	Min. Ultimate strength N	Weight q kg/m	VF	VS	GG
06 B-2 NPC	0.375	9.525	11.56	12.95	8.53	3.28	6.35	5.72	8.20	8.20	10.24	16900	0.740	*	*	*
08 B-2 NPC	0.500	12.700	15.46	17.08	11.30	4.45	8.51	7.75	10.92	11.80	13.92	32000	1.300	*	*	*
10 B-2 NPC	0.625	15.875	18.10	20.73	13.28	5.08	10.16	9.65	13.72	14.70	16.59	44500	1.810	*	*	*
12 B-2 NPC	0.750	19.050	21.10	24.04	15.62	5.72	12.07	11.68	16.10	16.10	19.46	57800	2.400	*	*	*
16 B-2 NPC	1.000	25.400	34.00	37.31	25.45	8.28	15.88	17.02	21.00	21.00	31.88	106000	5.270	*	*	*

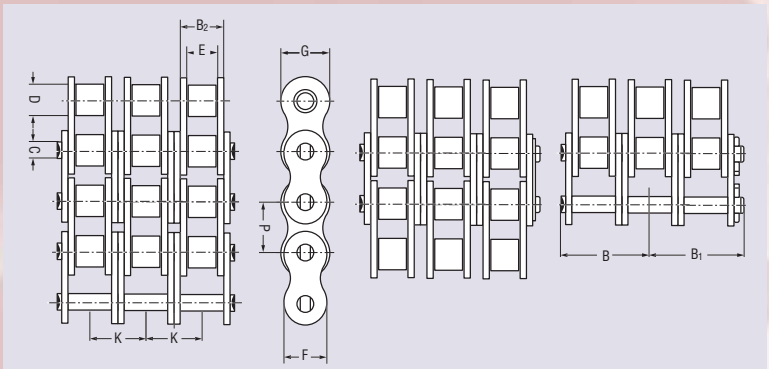
Double Roller chain, ISO corrosion resistant

Chain No. ISO	Pitch p inch	Pitch p mm	Dimensions in mm B	B_1 max.	B_2 max.	C max.	D max.	E min.	F	G	K	Min. Ultimate strength N	Weight q kg/m	VF	VS	GG
08 B-2 SS	0.500	12.700	15.46	17.08	11.30	4.45	8.51	7.75	10.92	11.80	13.92	22000	1.400	*	*	*
10 B-2 SS	0.625	15.875	18.10	20.73	13.28	5.08	10.16	9.65	13.72	14.70	16.59	26000	1.850	*	*	*
12 B-2 SS	0.750	19.050	21.10	24.04	15.62	5.72	12.07	11.68	16.10	16.10	19.46	33000	2.350	*	*	*
16 B-2 SS	1.000	25.400	34.00	37.31	25.45	8.28	15.88	17.02	21.00	21.00	31.88	73000	5.200	*	*	*



Double roller chain, Ansi corrosion resistant

Chain No. Ansi	Pitch p inch	Pitch p mm	Dimensions in mm B	B_1 max.	B_2 max.	C max.	D max.	E min.	F	G	K	Min. Ultimate strength N	Weight q kg/m	VF	VS	GG
25-2 SS	0.250	6.350	7.11	7.91	4.80	2.32	3.30	3.18	5.01	5.81	6.40	6000	0.250	*	*	*
35-2 SS	0.375	9.525	11.21	12.61	7.46	3.59	5.08	4.78	7.80	9.04	10.13	14000	0.630	*	*	*
40-2 SS	0.500	12.700	15.45	17.53	11.17	3.98	7.92	7.92	10.41	12.06	14.38	25000	1.220	*	*	*
50-2 SS	0.625	15.875	19.18	21.58	13.84	5.09	10.16	9.52	13.01	15.08	18.11	45000	2.000	*	*	*
60-2 SS	0.750	19.050	24.10	26.80	17.75	5.96	11.91	12.70	15.64	18.09	22.78	60000	2.870	*	*	*
80-2 SS	1.000	25.400	31.10	35.20	22.60	7.94	15.87	15.88	20.82	24.13	29.29	96000	5.050	*	*	*

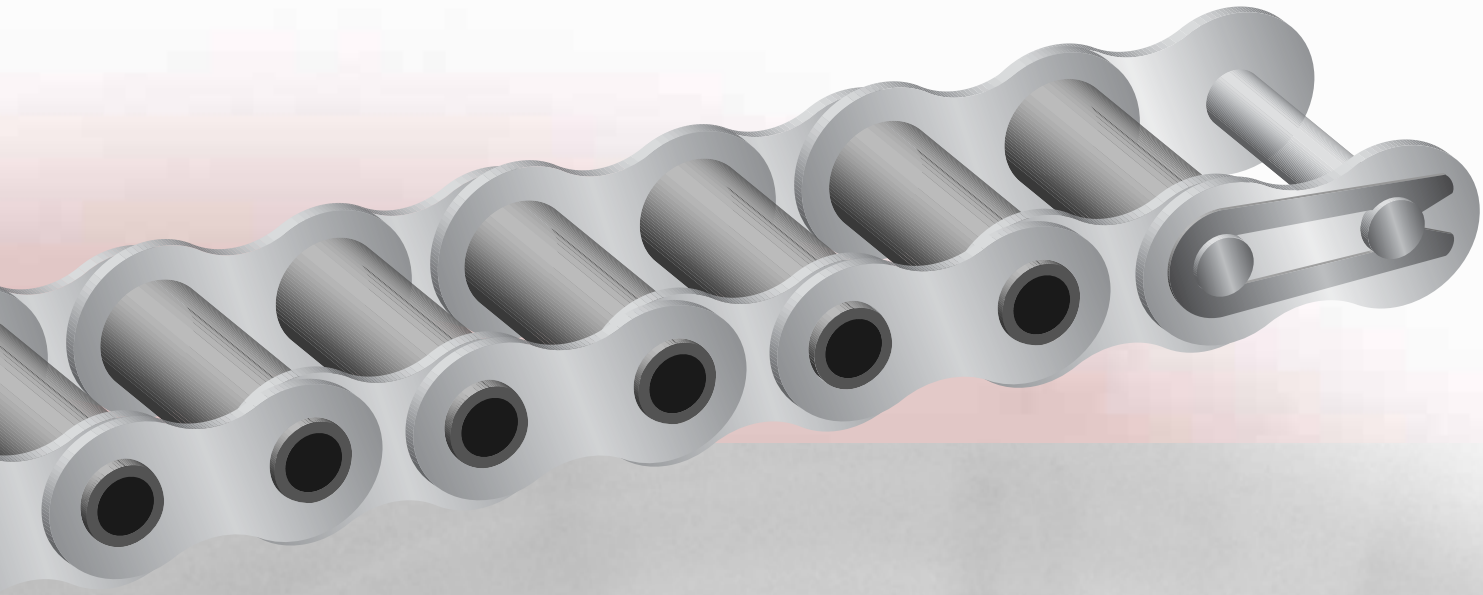


Triple Roller chain, Ansi corrosion resistant

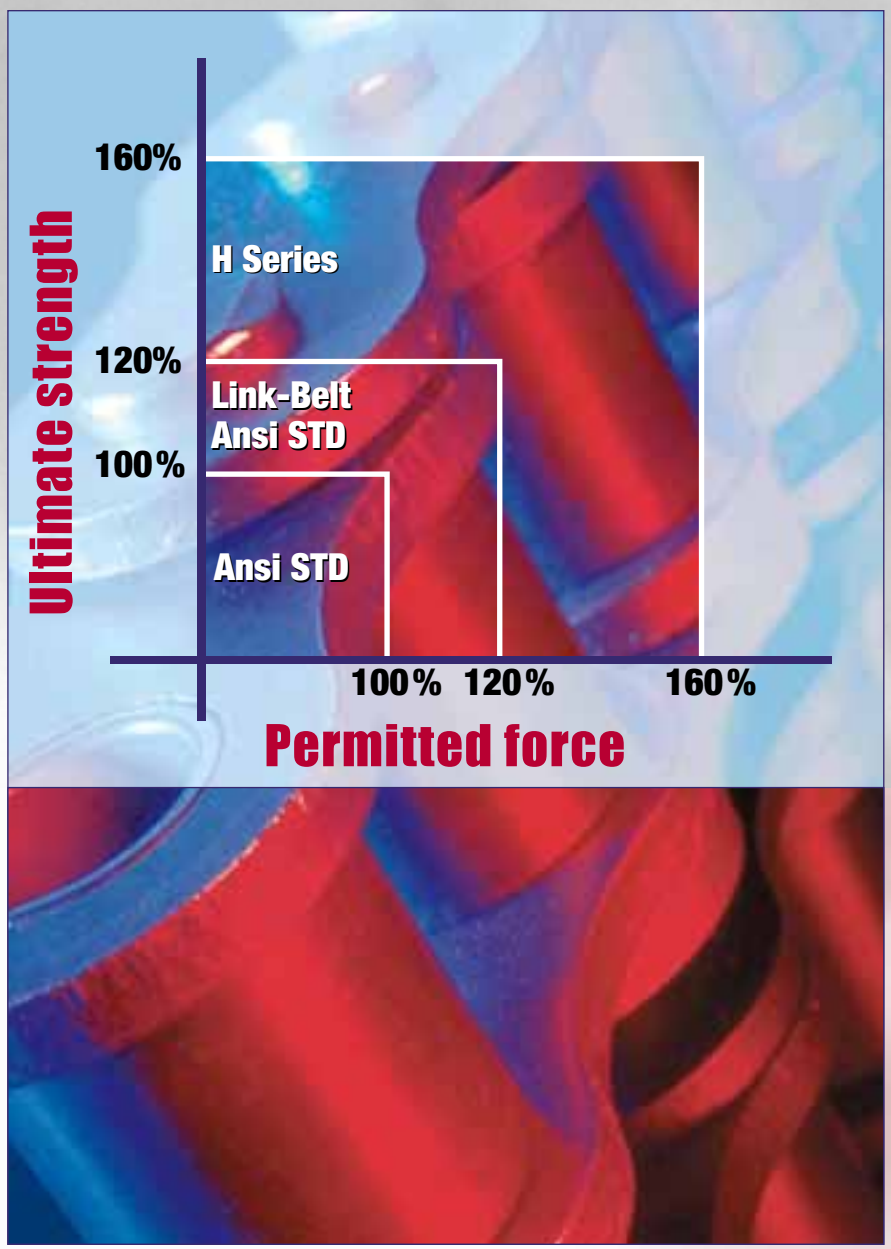
Chain No. Ansi	Pitch p inch	Pitch p mm	Dimensions in mm B	B_1 max.	B_2 max.	C max.	D max.	E min.	F	G	K	Min. Ultimate strength N	Weight q kg/m	VF	VS	GG
25-3 SS	0.250	6.350	10.53	11.33	4.80	2.32	3.30	3.18	5.01	5.81	6.40	9000	0.370	*	*	*
35-3 SS	0.375	9.525	16.09	17.89	7.46	3.59	5.08	4.78	7.80	9.04	10.13	21000	0.940	*	*	*
40-3 SS	0.500	12.700	22.60	24.76	11.17	3.98	7.92	7.92	10.41	12.06	14.38	37500	1.820	*	*	*
50-3 SS	0.625	15.875	28.28	31.03	13.84	5.09	10.16	9.52	13.01	15.08	18.11	67500	2.980	*	*	*
60-3 SS	0.750	19.050	35.55	38.25	17.75	5.96	11.91	12.70	15.64	18.09	22.78	90000	4.280	*	*	*
80-3 SS	1.000	25.400	45.70	49.90	22.60	7.94	15.87	15.88	20.82	24.13	29.29	144000	7.540	*	*	*

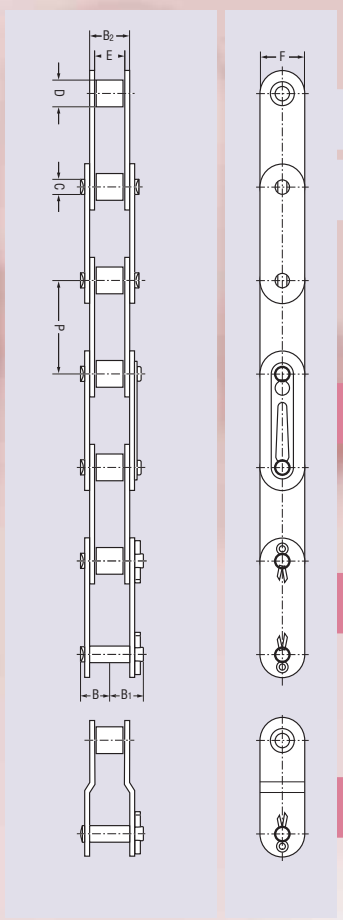
* = These connecting links are available.

“Heavy” Roller chains



“Heavy” roller chains conform with the Ansi Specification B 29.24 M, so that they are dimensionally interchangeable with the corresponding pitch size of Ansi-Standard roller chains. Additionally, the H-Series roller chains display much higher tensile and fatigue strength values. Selected steels and / or specially treated chain parts are used to equip the chains for the necessary extra strength and ability to cope with tough working conditions.





Roller link **B**

Pin link **A**

Connecting link with spring clip **VF**

Connecting with link splint **VS**

Offset link **GG**

Conveyor chain, Ansi straight link plate, corrosion resistant, H-Series

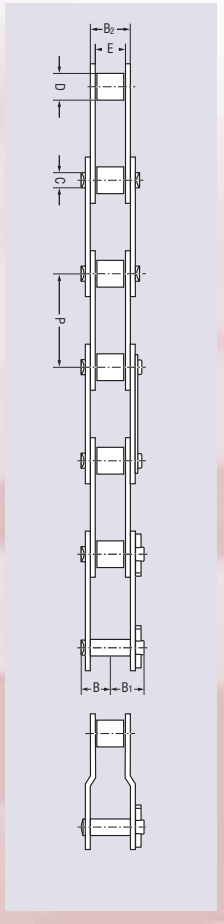
Chain No. Ansi	Pitch p inch	Pitch p mm	Dimensions in mm B	B_1 max.	B_2 max.	C max.	D max.	E min.	F	G	K	Min. Ultimate strength N	Weight q kg/m	VF	VS	GG
C 2060 H SS	1.500	38.100	14.40	16.90	19.43	5.96	11.91	12.70	18.09	–	–	29410	1.410	*	*	*
C 2080 H SS	2.000	50.800	18.15	22.55	24.28	7.94	15.87	15.88	24.13	–	–	50980	2.380	*	*	*

Conveyor chain, Ansi straight link plate with large rollers, corrosion resistant, H-Series

Chain No. Ansi	Pitch p inch	Pitch p mm	Dimensions in mm B	B_1 max.	B_2 max.	C max.	D max.	E min.	F	G	K	Min. Ultimate strength N	Weight q kg/m	VF	VS	GG
C 2062 H SS	1.500	38.100	14.40	16.90	19.43	5.96	22.22	12.70	18.09	-	-	29410	2.120	*	*	*
C 2082 H SS	2.000	50.800	18.15	22.25	24.28	7.94	28.58	15.88	24.13	-	-	50980	3.440	*	*	*

* = These connecting links are available.

Oustanding Application



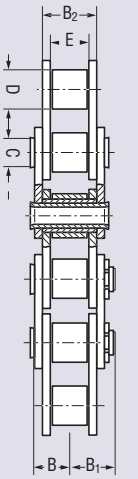
Roller link	B
Pin link	A
Connecting link with spring clip	VF
Connecting link with splint	VS
Offset link	GG

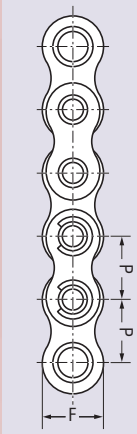
Conveyor chain, Ansi — straight link plate, corrosion resistant

Chain No. Ansi	Pitch p inch	Pitch p mm	Dimensions in mm B	B_1 max.	B_2 max.	C max.	D max.	E min.	F	G	K	Min. Ultimate strength N	Weight q kg/m	VF	VS	GG
C 2040 SS	1.000	25.400	8.22	10.32	11.17	3.98	7.92	7.92	12.06	–	–	12500	0.472	*	*	*
C 2050 SS	1.250	31.750	10.15	12.40	13.84	5.09	10.16	9.52	15.08	–	–	22500	0.804	*	*	*
C 2060 SS	1.500	38.100	12.72	15.27	17.75	5.96	11.91	12.70	18.09	–	–	28000	1.130	*	*	*
C 2080 SS	2.000	50.800	16.50	19.85	22.60	7.94	15.87	15.88	24.13	–	–	48000	2.080	*	*	*

Conveyor chain, Ansi — straight link plate with large rollers, corrosion resistant

Chain No. Ansi	Pitch p inch	Pitch p mm	Dimensions in mm B	B_1 max.	B_2 max.	C max.	D max.	E min.	F	G	K	Min. Ultimate strength N	Weight q kg/m	VF	VS	GG
C 2042 SS	1.000	25.400	8.22	10.32	11.17	3.98	15.88	7.92	12.06	–	–	12500	0.827	*	*	*
C 2052 SS	1.250	31.750	10.15	12.40	13.84	5.09	19.05	9.52	15.08	–	–	22500	1.270	*	*	*
C 2062 SS	1.500	38.100	12.72	15.27	17.75	5.96	22.22	12.70	18.09	–	–	28000	1.850	*	*	*
C 2082 SS	2.000	50.800	16.50	19.85	22.60	7.94	28.58	15.88	24.13	–	–	48000	3.140	*	*	*





Roller link	B
Pin link	A
Connecting link with spring clip	VF
Connecting link with splint	VS
Offset link	GG

Hollow pin chain, ISO

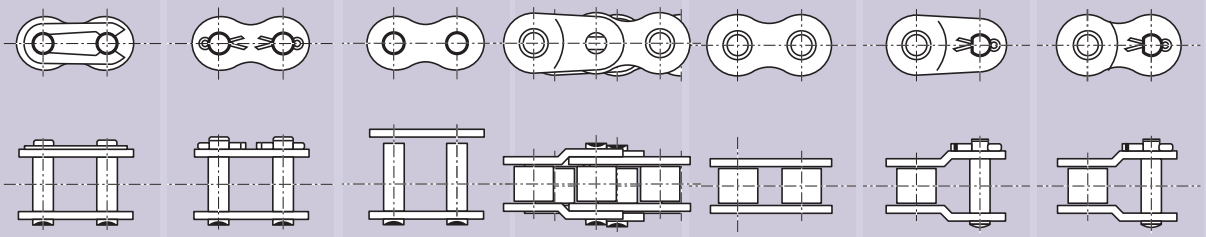
Chain No.	Pitch p		Dimensions in mm									Min. Ultimate strength	Weight q			
ISO	inch	mm	B	B_1 max.	B_2 max.	C max.	D max.	E min.	F	G	K	N	kg/m	VF	VS	GG
10 B HB	0.625	15.875	9.70	11.40	13.90	5.94	10.16	9.65	14.70	–	–	17000	0.800	*	*	*
12 B HB	0.750	19.050	11.20	12.80	16.30	6.50	12.07	11.68	15.90	–	–	21000	1.100	*	*	*

Hollow pin chain, Ansi

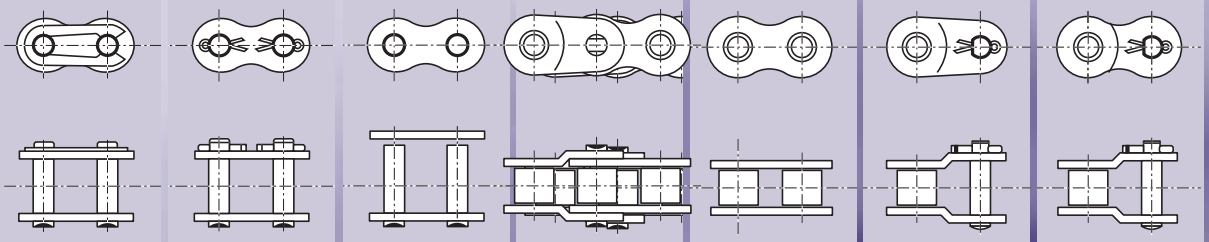
Chain No.	Pitch p		Dimensions in mm									Min. Ultimate strength	Weight q			
Ansi	inch	mm	B	B_1 max.	B_2 max.	C max.	D max.	E min.	F	G	K	N	kg/m	VF	VS	GG
40 HB	0.500	12.700	8.38	9.06	10.41	5.71	7.92	7.92	12.06	–	–	12750	0.530	*	*	*
50 HB	0.625	15.870	10.36	11.66	13.84	7.29	10.16	9.52	15.08	–	–	20590	0.820	*	*	*
60 HB	0.750	19.050	13.03	14.05	17.75	8.42	11.91	12.70	18.09	–	–	26470	1.320	*	*	*
80 HB	1.000	25.400	16.82	17.76	22.60	11.42	15.87	15.88	24.13	–	–	50980	2.400	*	*	*

* = These connecting links are available.

Link-Belt Chain Parts

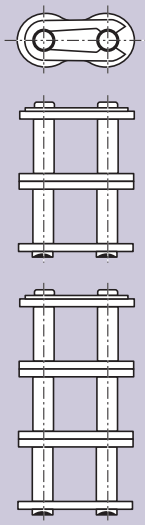


Connecting link with spring clip	**Connecting link** with splint	**Pin link** riveted	**Offset link** double	**Roller link**	**Offset link** with splint	**Offset link** curved link plate
25		25	25	25		
35	35	35	35	35	35	
40	40	40	40	40	40	
50	50	50	50	50	50	
60	60	60	60	60	60	
80	80	80	80	80	80	
	100	100	100	100	100	
	120	120	120	120	120	
	140	140	140	140	140	
	160	160	160	160	160	
	180	180	180	180	180	
	200	200	200	200	200	
A 2040	A 2040	A 2040	A 2040	A 2040		A 2040
A 2050	A 2050	A 2050	A 2050	A 2050		A 2050
A 2060	A 2060	A 2060	A 2060	A 2060		A 2060
C 2040	C 2040	C 2040	C 2040	C 2040	C 2040	
C 2050	C 2050	C 2050	C 2050	C 2050	C 2050	
C 2060	C 2060	C 2060	C 2060	C 2060	C 2060	
C 2042	C 2042	C 2042	C 2042	C 2042	C 2042	
C 2052	C 2052	C 2052	C 2052	C 2052	C 2052	
05 B		05 B	05 B	05 B		
06 B	06 B	06 B	06 B	06 B	06 B	
08 B	08 B	08 B	08 B	08 B	08 B	
10 B	10 B	10 B	10 B	10 B	10 B	
12 B	12 B	12 B	12 B	12 B	12 B	
16 B	16 B	16 B	16 B	16 B	16 B	
	20 B	20 B	20 B	20 B	20 B	
	24 B	24 B	24 B	24 B	24 B	
	32 B	32 B	32 B	32 B	32 B	
C 2060 H	C 2060 H	C 2060 H				
C 2062 H	C 2062 H	C 2062 H	C 2062 H	C 2062 H	C 2062 H	
	C 2080 H	C 2080 H				
	C 2082 H	C 2082 H	C 2082 H	C 2082 H	C 2082 H	
	C 2100 H	C 2100 H				
	C 2102 H	C 2102 H	C 2102 H	C 2102 H	C 2102 H	

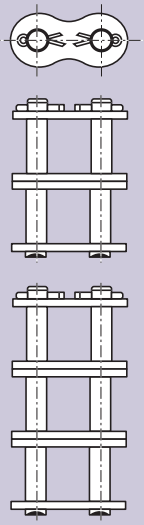


Connecting link with spring clip	**Connecting link** with splint	**Pin link** riveted	**Offset link** double	**Roller link**	**Offset link** with splint	**Offset link** curved link plate
60	60	60				
80	80	80				
	100	100				
25 SS	25 SS	25 SS	25 SS	25 SS		
35 SS	35 SS	35 SS	35 SS	35 SS	35 SS	
40 SS	40 SS	40 SS	40 SS	40 SS	40 SS	
50 SS	50 SS	50 SS	50 SS	50 SS	50 SS	
60 SS	60 SS	60 SS	60 SS	60 SS	60 SS	
80 SS	80 SS	80 SS	80 SS	80 SS	80 SS	
		05 B SS	05 B SS	05 B SS		
06 B SS	06 B SS	06 B SS	06 B SS	06 B SS	06 B SS	
08 B SS	08 B SS	08 B SS	08 B SS	08 B SS	08 B SS	
10 B SS	10 B SS	10 B SS	10 B SS	10 B SS	10 B SS	
12 B SS	12 B SS	12 B SS	12 B SS	12 B SS	12 B SS	
16 B SS	16 B SS	16 B SS	16 B SS	16 B SS	16 B SS	
	C 2040 SS	C 2040 SS	C 2040 SS	C 2040 SS	C 2040 SS	
	C 2050 SS	C 2050 SS	C 2050 SS	C 2050 SS	C 2050 SS	
	C 2060 SS	C 2060 SS	C 2060 SS	C 2060 SS	C 2060 SS	
	C 2060 H SS	C 2060 H SS	C 2060 H SS	C 2060 H SS	C 2060 H SS	
	C 2080 SS	C 2080 SS	C 2080 SS	C 2080 SS	C 2080 SS	
	C 2080 H SS	C 2080 H SS	C 2080 H SS	C 2080 H SS	C 2080 H SS	
	C 2042 SS	C 2042 SS	C 2042 SS	C 2042 SS	C 2042 SS	
	C 2052 SS	C 2052 SS	C 2052 SS	C 2052 SS	C 2052 SS	
	C 2062 SS	C 2062 SS	C 2062 SS	C 2062 SS	C 2062 SS	
	C 2082 SS	C 2082 SS	C 2082 SS	C 2082 SS	C 2082 SS	
	C 2062 H SS	C 2062 H SS	C 2062 H SS	C 2062 H SS	C 2062 H SS	
	C 2082 H SS	C 2082 H SS	C 2082 H SS	C 2082 H SS	C 2082 H SS	

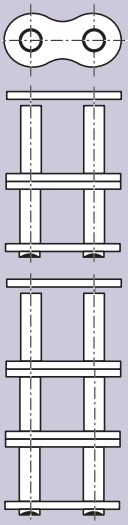
Link-Belt Chain Parts



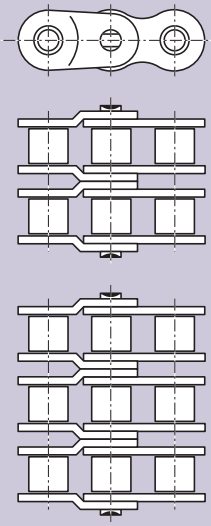
Connecting link
with spring clip



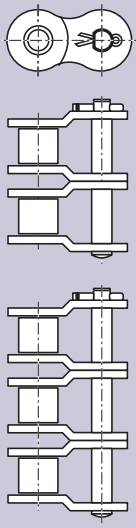
Connecting link
with splint



Pin link
riveted



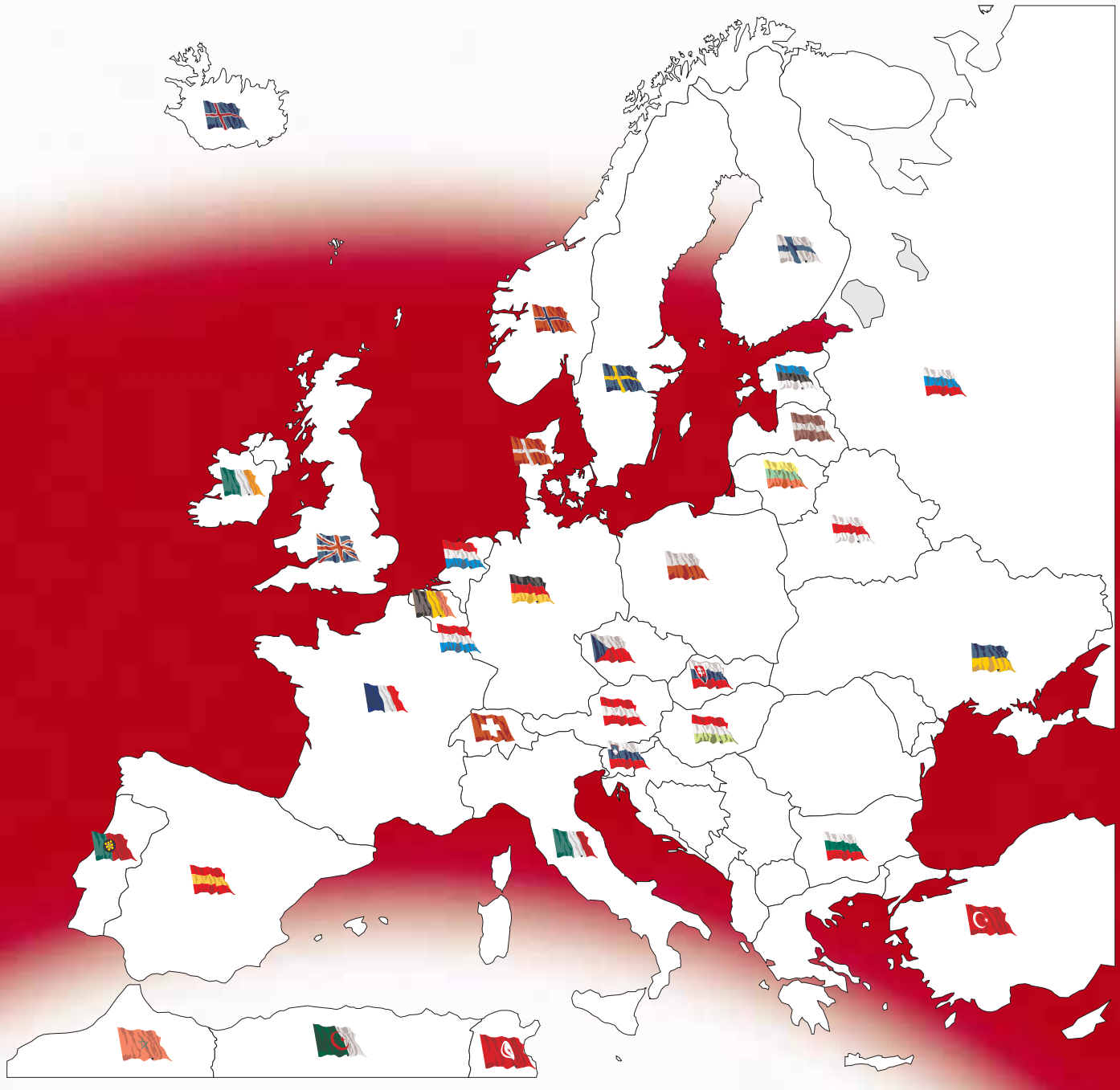
Offset link
double



Offset link
with splint

25-2. -3		25-2. -3	25-2. -3	
35-2. -3	35-2. -3	35-2. -3	35-2. -3	35-2. -3
40-2. -3	40-2. -3	40-2. -3	40-2. -3	40-2. -3
50-2. -3	50-2. -3	50-2. -3	50-2. -3	50-2. -3
60-2. -3	60-2. -3	60-2. -3	60-2. -3	60-2. -3
80-2. -3	80-2. -3	80-2. -3	80-2. -3	80-2. -3
	100-2. -3	100-2. -3	100-2. -3	100-2. -3
	120-2. -3	120-2. -3	120-2. -3	120-2. -3
	160-2. -3	160-2. -3	160-2. -3	160-2. -3
	200-2. -3	200-2. -3	200-2. -3	200-2. -3
06 B-2. -3	06 B-2. -3	06 B-2. -3	06 B-2. -3	06 B-2. -3
08 B-2. -3	08 B-2. -3	08 B-2. -3	08 B-2. -3	08 B-2. -3
10 B-2. -3	10 B-2. -3	10 B-2. -3	10 B-2. -3	10 B-2. -3
12 B-2. -3	12 B-2. -3	12 B-2. -3	12 B-2. -3	12 B-2. -3
16 B-2. -3	16 B-2. -3	16 B-2. -3	16 B-2. -3	16 B-2. -3
	20 B-2. -3	20 B-2. -3	20 B-2. -3	20 B-2. -3
	24 B-2. -3	24 B-2. -3	24 B-2. -3	24 B-2. -3
	28 B-2. -3	28 B-2. -3	28 B-2. -3	28 B-2. -3
	32 B-2. -3	32 B-2. -3	32 B-2. -3	32 B-2. -3
25-2 SS		25-2 SS	25-2 SS	
35-2 SS	35-2 SS	35-2 SS	35-2 SS	35-2 SS
40-2 SS	40-2 SS	40-2 SS	40-2 SS	40-2 SS
50-2 SS	50-2 SS	50-2 SS	50-2 SS	50-2 SS
60-2 SS	60-2 SS	60-2 SS	60-2 SS	60-2 SS
80-2 SS	80-2 SS	80-2 SS	80-2 SS	80-2 SS
06 B-2 SS	06 B-2 SS	06 B-2 SS	06 B-2 SS	06 B-2 SS
08 B-2 SS	08 B-2 SS	08 B-2 SS	08 B-2 SS	08 B-2 SS
10 B-2 SS	10 B-2 SS	10 B-2 SS	10 B-2 SS	10 B-2 SS
12 B-2 SS	12 B-2 SS	12 B-2 SS	12 B-2 SS	12 B-2 SS
16 B-2 SS	16 B-2 SS	16 B-2 SS	16 B-2 SS	16 B-2 SS

Link-Belt® Partner



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Link-Belt®

Our achievement advances

07.07 D