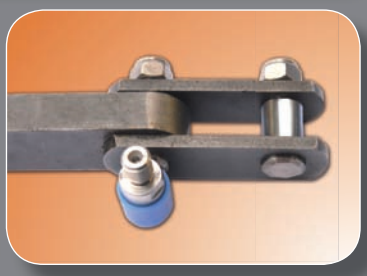
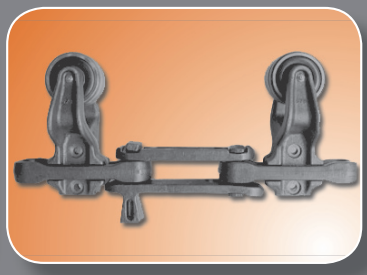
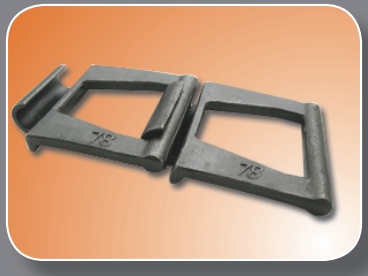
C - Engineered pin-bush conveyor chains and chain sprockets







C - Engineered pin-bush conveyor chains and chain wheels
DIN 8165 - DIN 8167 - DIN 8168 (standard and according drawing)
- Chain sprockets - Standard and spec. attachments
- Rivetless and bloc chains - Bi-planar and booster chains

Engineered pin-bush conveyor chains

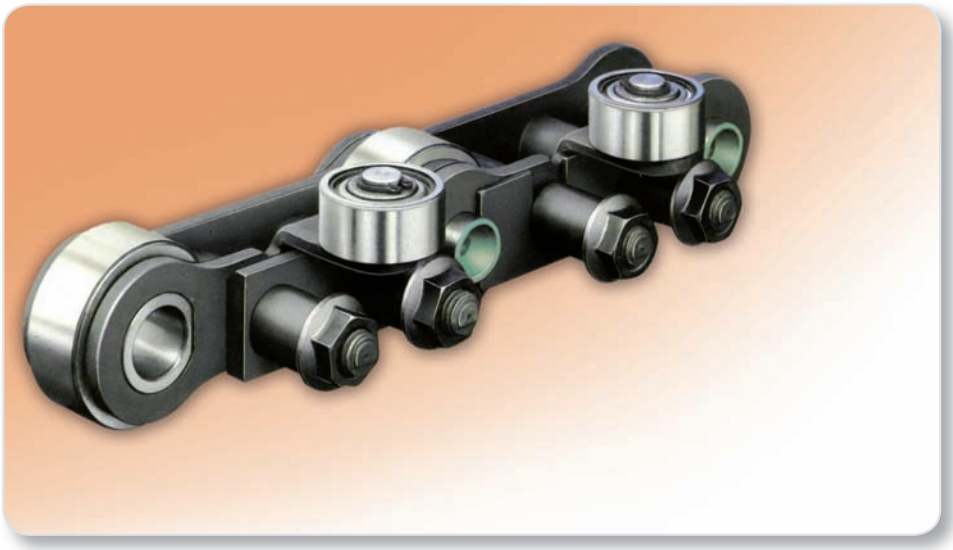
BTC & GEHA Industries AT YOUR SERVICE

The following chapters gives you an overview of some of our products, but most of our customers asks us for customer-made Chains & Sprockets according customer drawings or sample with appropriate materials and heat-treatments for typical applications.

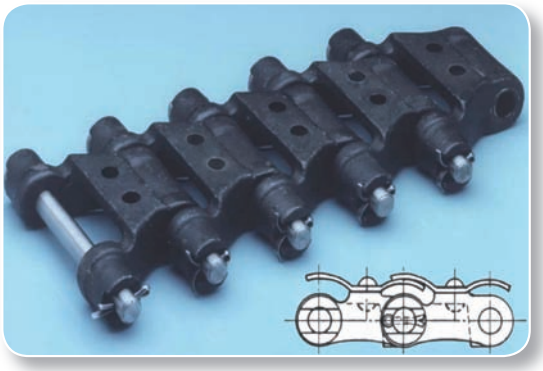
Our engineers are at your service for all information about special alloy steel-types and their treatment to, improve the quality of the required chains and sprockets in accordance with the application and the product to convey.

Also we are mostly able to improve the breaking-load and also the life-time of some chains using higher quality alloy steels and their appropriate heat-treatments.

Some of our customers are also consulting us for increasing the capacity of their conveyors and/or Bucket-Elevators using the same casing and going on with our proposal for adapted chains with higher performances.
See also chapter "G" in this catalogue, concerning Chain-Damage (causes and remedies), composed by our "Trouble Shooters".

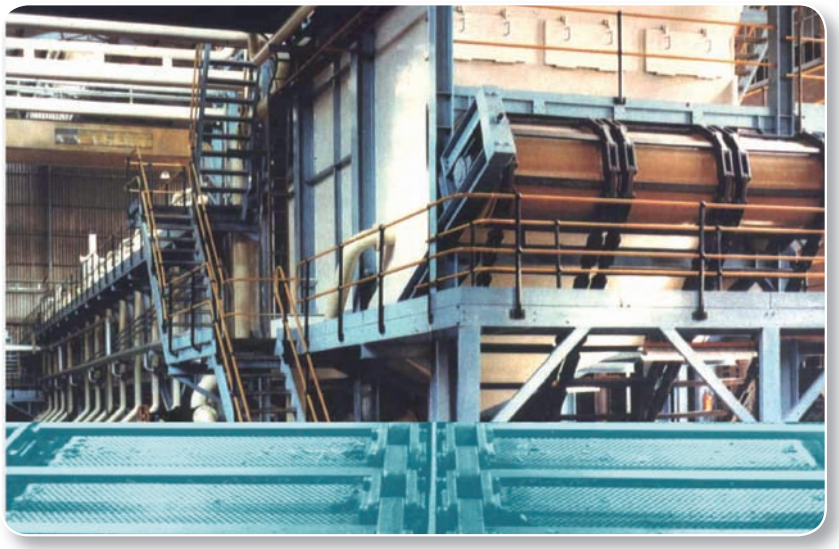


High precision chain for extruding of plastic film.

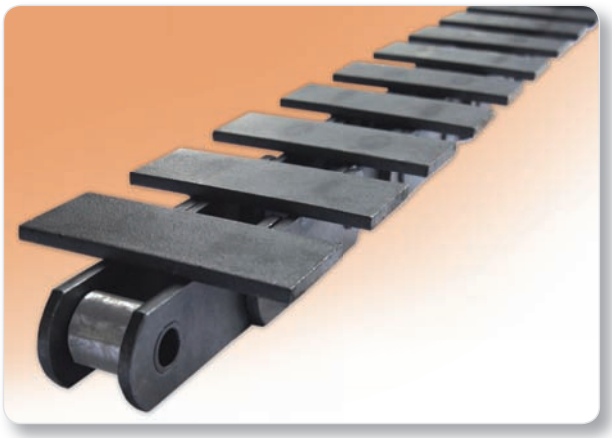


Carrying chain for sugar industry.

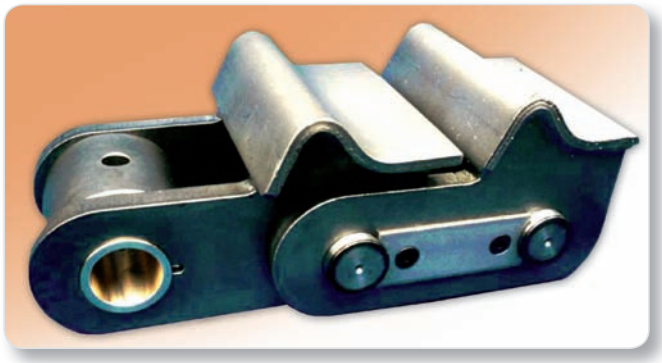
Low maintenance chain for Shredder installation.



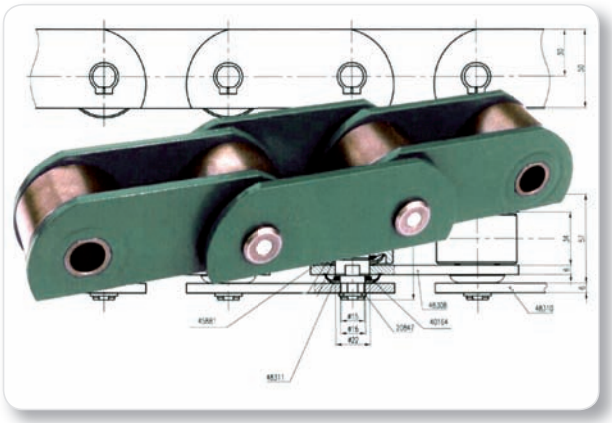
Block chain for sugar industry.



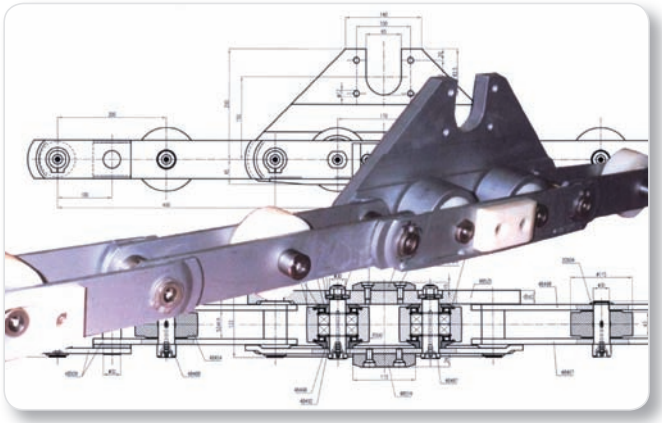
Chain for carrying of solids.



Conveyor chain pitch 220 mm .



Chain for car-industry.



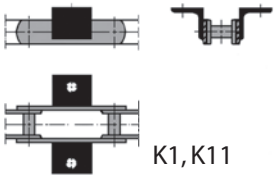
Conveyor chain pitch 400 mm for print-department with pre-coating and cathode bath paint system for automotive industry.

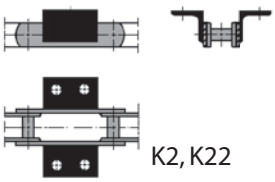
Conveyor chain for paper industry pitch 63 mm - 120 kN.

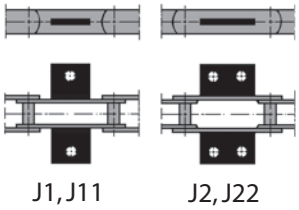
Conveyor chains

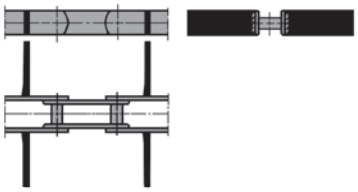

R1, R11

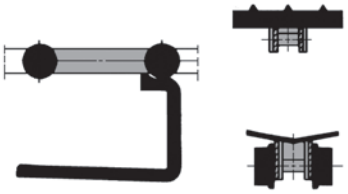

R2, R22

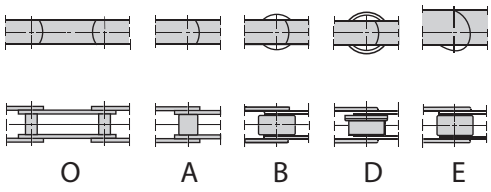

K1, K11


K2, K22


J1, J11 J2, J22

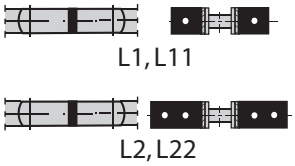


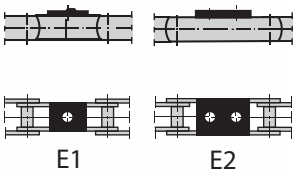



O A B D E


F1, F11

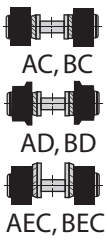

F2, F22

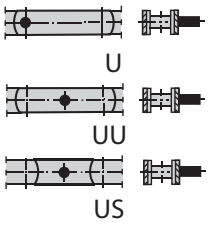

L1, L11 L2, L22

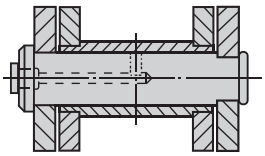

E1 E2

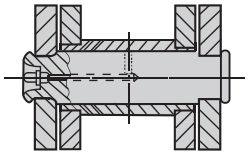

2A, 2B

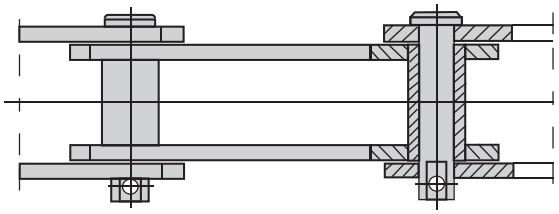

2C, 2D

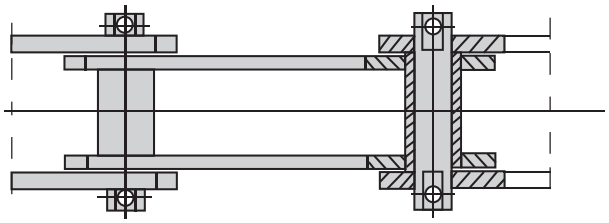

AC, BC AD, BD AEC, BEC

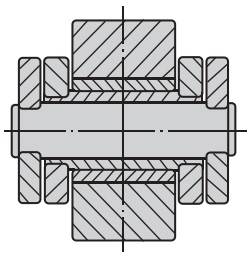

U UU US

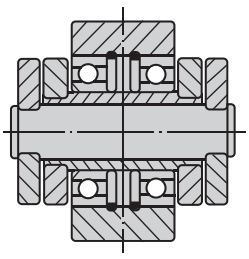


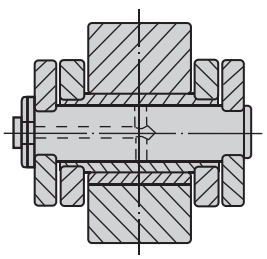






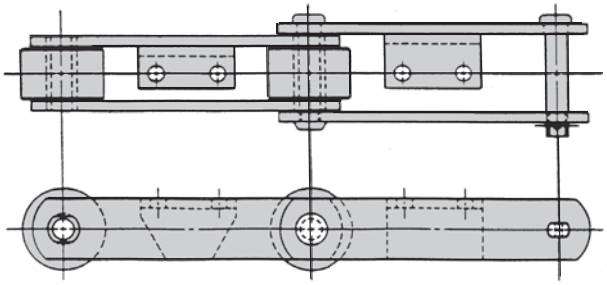




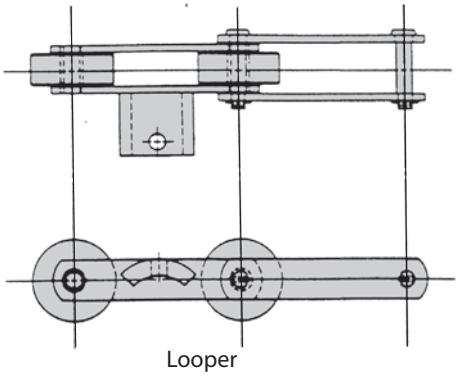


CONVEYOR CHAINS

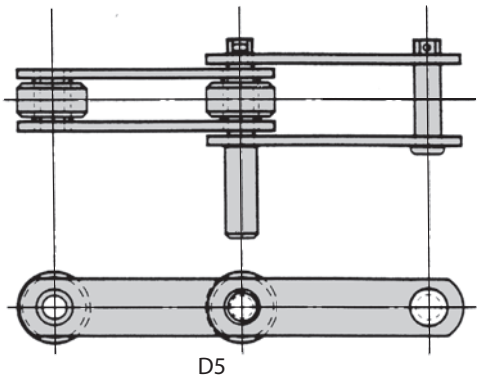
Conveyor chains



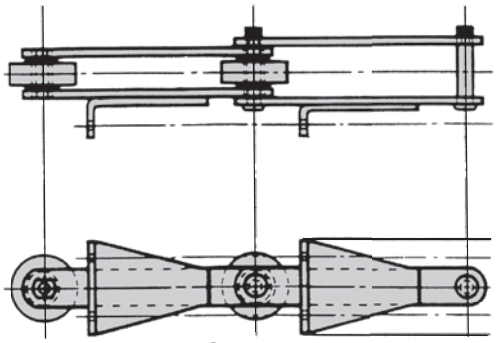
A5



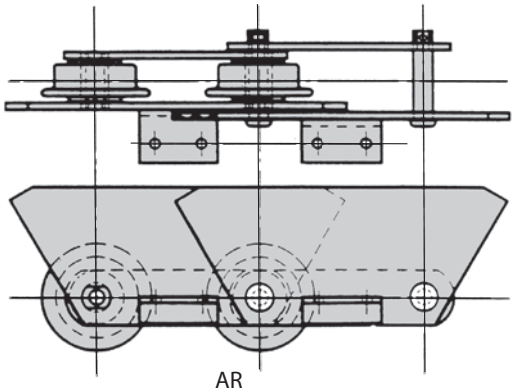
Looper



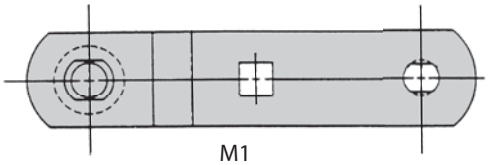
D5



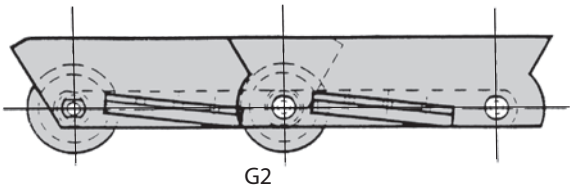
G19



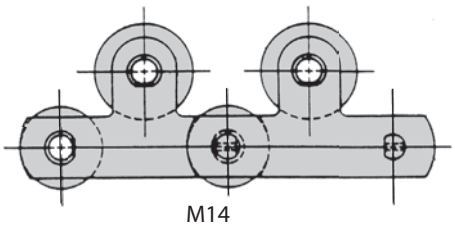
AR



M1

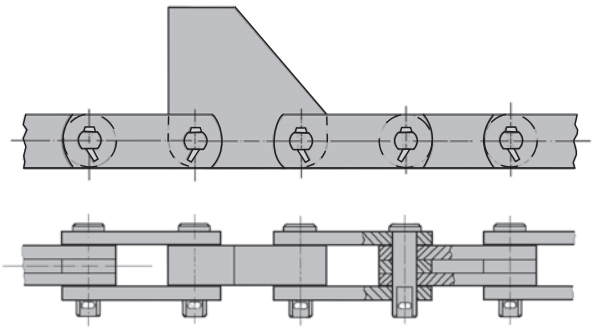


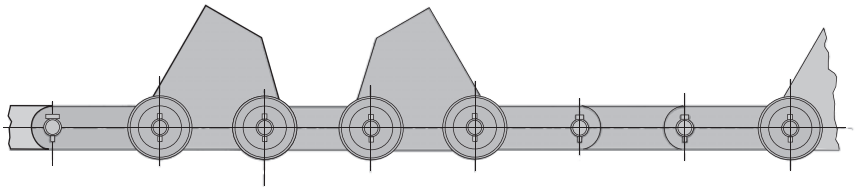
G2

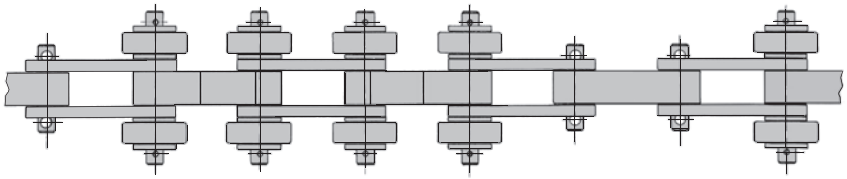


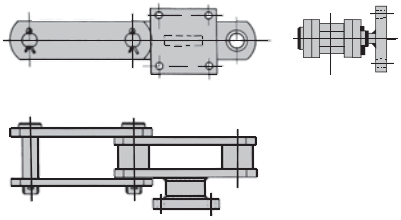
M14

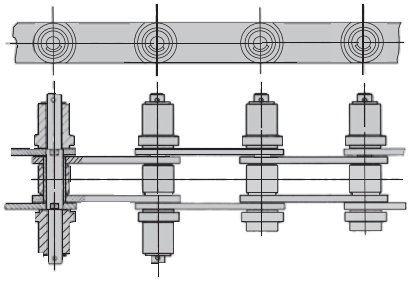
Conveyor chains

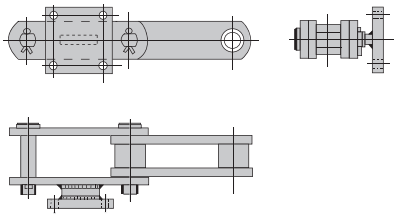


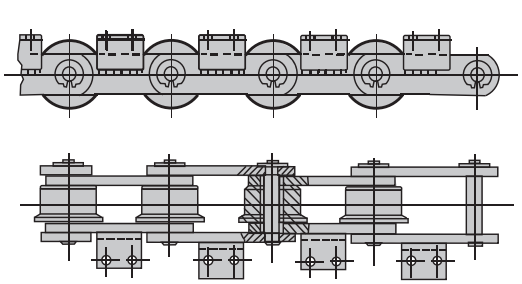


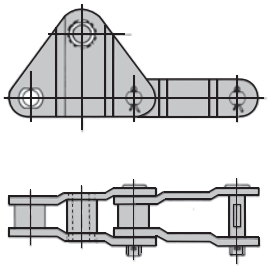


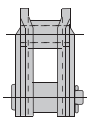


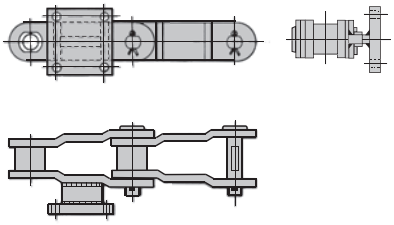








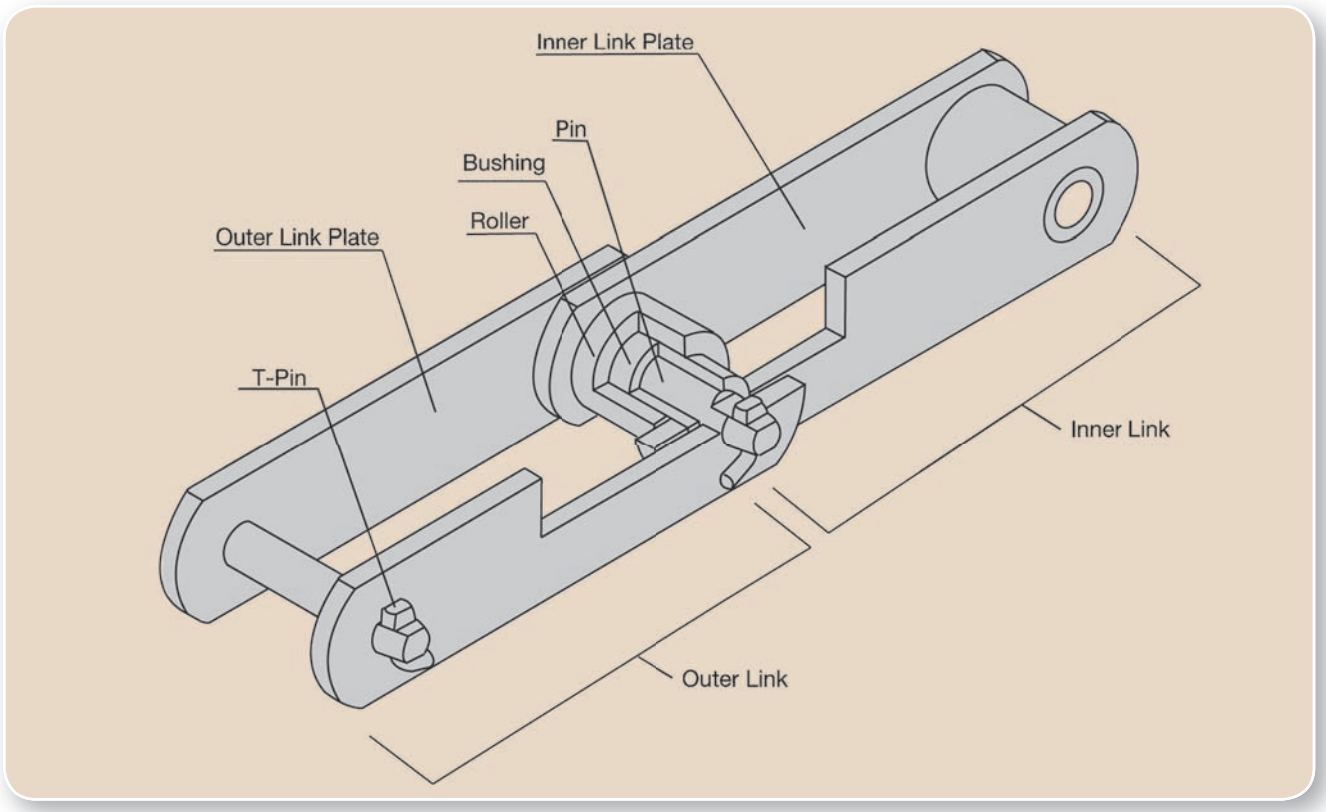




Construction and component parts

In general, the main body of a conveyor chain is as shown in the structural view. The names of respective components are also stated in the following illustration. These components respectively act as described below, and are highly functional designs.

Construction



Pins

Pins support all the load acting on the chain together with plates, and when the chain is engaged with the sprockets, they slide together with bushings as bearings. They are subject to wear and especially must have high shear strength, bending strenght and wear resistance. Hardened and tempered tough steel, carburized steel, or induction-hardened steel is used.

Rollers

Rollers protect the chain from shocks with the sprockets, and when the chain is engaged with the sprockets, the rollers bend the chain smoothly, and act to lessen the resistance when the chain runs on a rail. They are required to have high shock fatigue strength, collapse strength and wear resistance. Hardened and tempered steel, carburized steel or induction-hardened steel is used.

Bushings

Bushings are located between pins and rollers and act as bearings for both the pins and rollers not to transmit the load received by the rollers directly to the pins when the chain is engaged with the sprockets. They are required to have high shock fatigue strength, collapse strength and wear resistance, and in general, carburized steel is used.

Plates

Plates are subject to repeated tension of the chain and sometimes to large shocks. They are required to be have high tensile strength, and especially have high shock strength and fatigue strength. For a regular version, high tensile steel is used, but for the heavy-duty version, heat-treated alloy steel is used.

T-pins

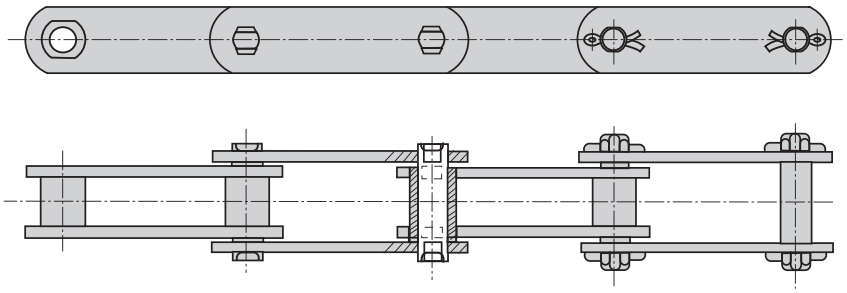
T-pins are provided to prevent the outer plates from disengaging from the pins. However, since pins are generally pressed-in the outer plates, no large force act on the T-pins. Therefore, soft steel is used.

Conveyor chains - DIN 8165 - DIN 8167 - DIN 8168

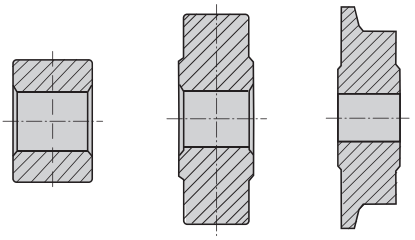
Solid pin chain

Illustrated: O = without rollers

Type - FV **Type - M**



Rollers to DIN 8169



Type A
Small roller

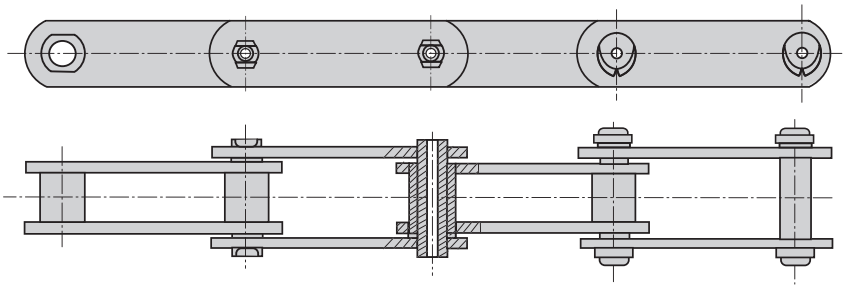
Type B
Large plain roller

Type D
Flanged roller

Hollow pin chain

Illustrated: O = without rollers

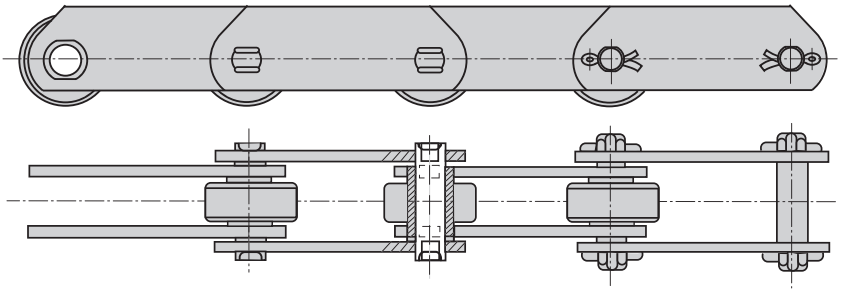
Type - FVH **Type - MC**



Deep link chain

Illustrated: B = with plain rollers

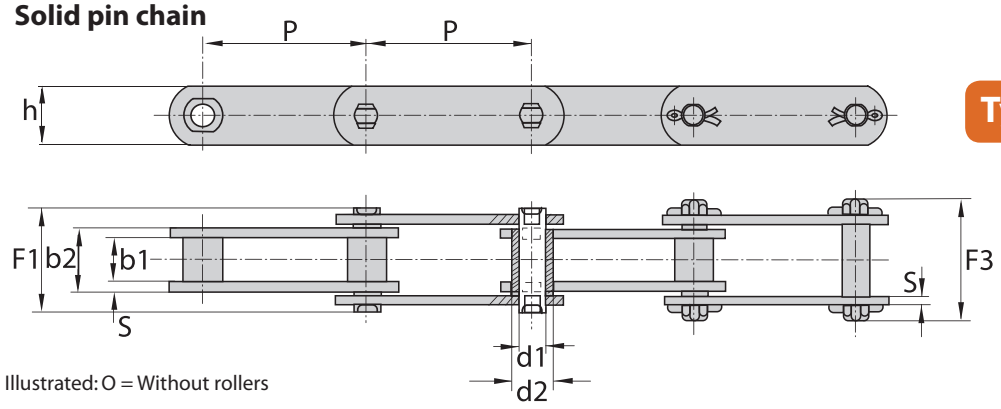
Type - FVT **Type - MT**



Note:
All components for these chains are regularly stocked, thus allowing for reasonably quick assembly to customers' order. In other words, conveyor chains of the solid or hollow bearing pin type, without rollers as illustrated, or with either type "A","B" or "D" roller and equipped with attachments can be made up to meet our customers' specific requirements. Moreover, any base conveyor chain can be supplied with special made-to-order attachments, examples of wich are illustrated on page G-5-2.
For any new conveyor installation it is, however, recommended, not to envisage the use of chain to DIN 8165 as these Standards will be superseded within the next 10 to 15 years. Chain in accordance with the new ISO International Standards DIN 8167, 8168 and 8169 should be selected (see page E-5-2).

Conveyor chains - DIN 8165 - hollow pin and solid pin

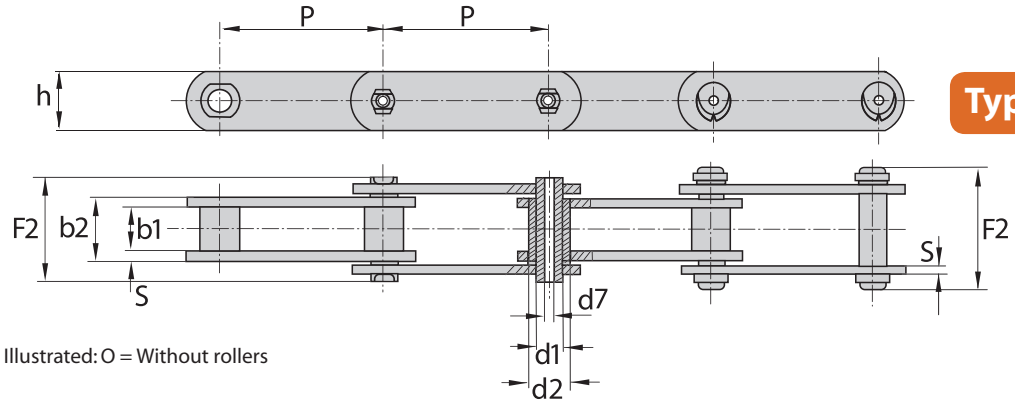
Solid pin chain



Type - FV

Illustrated: O = Without rollers

Hollow pin chain



Type - FVH

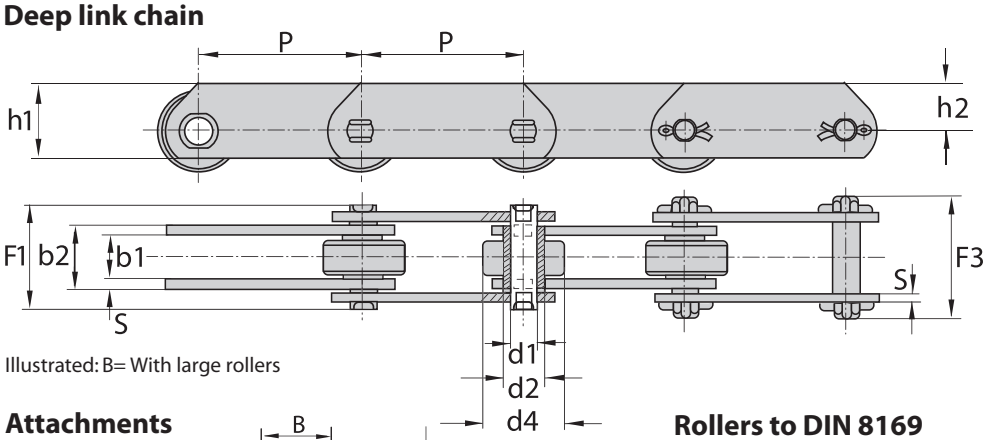
Illustrated: O = Without rollers

Din Nr.	p	b1	b2	d1	d2	d3	d4	d5/d6	d7	e	F1	F2	F3	h	s	h1	h2	f	FB	FBh
	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	cm²	N	N
		min.	max.		O	A	B	D	min.										min.	min.
FV 40	40	18	24,5	10	15	20	32	-	-	4,0	36	-	43	26	3	35	22	2,5	42000	-
	50							-												
	63							40/48												
	80																			
	100																			
FV 63	63	22	30,5	12	18	26	40	-	8	5,0	44,0	44,0	54,0	30,0	4,0	40,0	25,0	3,8	64000	46000
	80							50/60												
	100																			
	125																			
	160																			
FV 90	63	25	35,5	14	20	30	48	-	10	6,5	52	51,2	61	35	5	45	27,5	5,04	100000	73000
	100							63/73												
	125																			
	160																			
	200																			
	250																			
FV 112	100	30	42,5	16	22	32	55	-	11	7,5	61,0	60,2	70,0	40	6	50	30,0	6,88	120000	90000
	125							72/85												
	160																			
	200																			
	250																			
FV 140	100	35	47,5	18	26	36	60	-	12	9	66	65,3	79	45	6	60	37,5	8,64	145000	110000
	125							80/95												
	160																			
	200																			
	250																			
FV 180	125	45	61,5	20	30	42	70	-	14	13	85,5	84,8	99	50	8	70	45	12,6	190000	145000
	160							100/120												
	200																			
	250																			
	315																			
FV 250	125	55	72	26	36	50	80	-	18	15	97,5	95,3	113	60	8	80	50	18,98	275000	215000
	160																			
	200																			
	250																			
	315																			

f = bearing area FB = breaking load FBh = breaking load hollow stud * F1 = Riveted pin F2, F3 = Connector pin

Conveyor Chains - DIN 8165

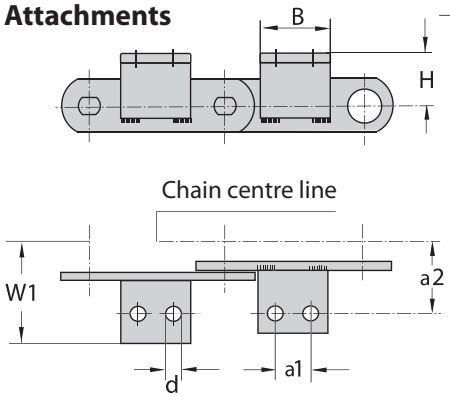
Deep link chain



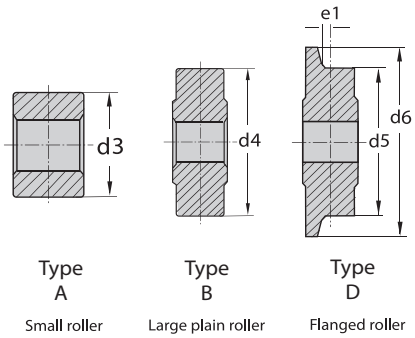
Type - FVT

Illustrated: B= With large rollers

Attachments



Rollers to DIN 8169



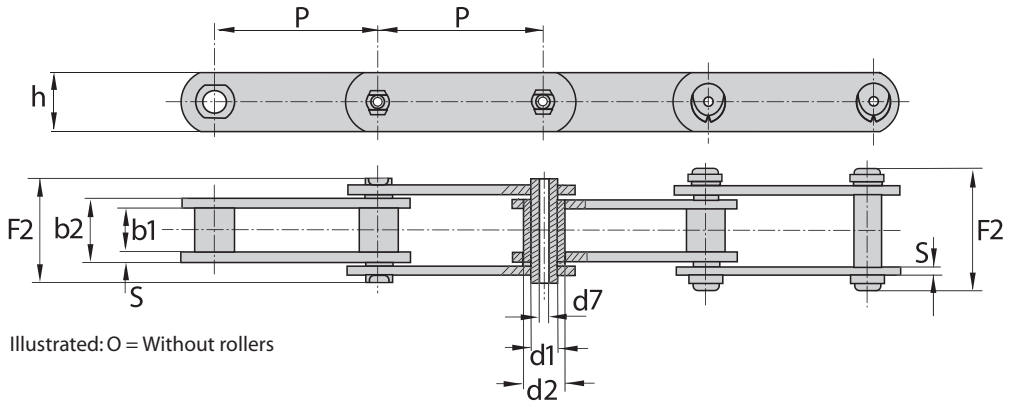
Din Nr.	p	a1	a2°	B	d	H°	W	Angle Iron	q	q	q	q	Attach-ment
	mm	mm	mm	mm	mm	mm	mm		kg/m	kg/m	kg/m	kg/m	weight
				max.	max.				O	A	B	D	kg/each
FV 40	40	-	-	-	-	-	-	-	2.59	3.04	4.68	-	-
	50	*	25	25	6.4	20	49	**	2.34	2.70	4.06	-	0.02
	63	*		31				**	2.08	2.36	3.43	4.65	0.03
	80	*		40				**	1.91	2.14	3.02	4.01	0.04
	100	30		50			46	**	1.76	1.94	2.60	3.38	0.05
FV 63	63	*	34	40	8.4	30	50	**	3.46	4.17	6.08	-	0.05
	80	*		40			49.5	30x30x4	3.10	3.72	5.29	6.00	0.07
	100	30		50					2.92	3.37	4.57	5.60	0.09
	125	40		60					2.67	3.03	3.79	4.82	0.12
	160	50		70					2.45	2.73	3.48	4.13	0.14
FV 90	63	-	-	-	-	-	-	-	5.72	6.87	10.00	-	-
	100	30	40	50	8.4	35	63	40x40x5	4.67	5.40	7.37	9.59	0.15
	125	40		60					4.35	4.93	6.51	8.29	0.19
	160	50		70					3.87	4.32	5.56	6.95	0.24
	200	60		80					3.50	3.86	4.85	5.96	0.27
	250	65		85					3.47	3.76	4.55	5.44	0.30
FV 112	100	30	50	50	11	40	67.5	40x40x6	6.11	7.06	10.50	14.30	0.18
	125	40		65					5.85	6.61	9.39	12.40	0.23
	160	50		75					5.26	5.85	8.03	10.40	0.28
	200	65		90					5.00	5.47	7.30	9.13	0.35
	250	80		105					4.72	5.10	6.49	8.02	0.47
FV 140	100	30	50	55	11	45	80	50x50x7	7.38	8.69	13.30	-	0.28
	125	40		65					6.78	7.80	11.50	15.70	0.33
	160	50		75					6.56	7.36	10.20	13.50	0.41
	200	65		90					5.82	6.46	8.77	11.40	0.51
	250	80		105					5.48	5.99	7.85	9.96	0.69
FV 180	125	35	64	63	13	45	89.3	50x50x7	10.70	12.50	19.20	-	0.33
	160	50		80					9.72	11.20	16.30	22.20	0.41
	200	65		95					9.12	10.00	14.40	19.10	0.51
	250	80		110					8.51	9.43	12.70	16.90	0.69
	315	100		130					8.20	8.93	11.60	14.50	0.82
FV 250	125	*	69	50	13	55	109.5	65x65x7	14.30	17.50	27.50	-	0.39
	160	50		80					13.00	15.50	23.40	39.90	0.62
	200	65		95					11.80	13.80	20.60	33.30	0.77
	250	80		110					10.80	12.40	17.40	28.00	1.04
	315	100		130					10.00	11.20	15.20	23.60	1.23

* = 1 hole only ° = Free dimension ** = integral bent attachment q = chain weight

Conveyor chains - DIN 8165

Hollow pin chain

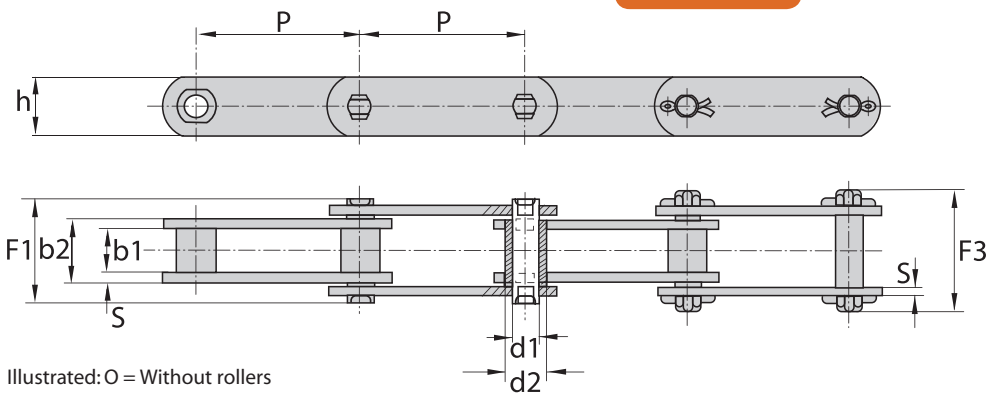
Type - FVH



Illustrated: O = Without rollers

Solid pin chain

Type - FV



Illustrated: O = Without rollers

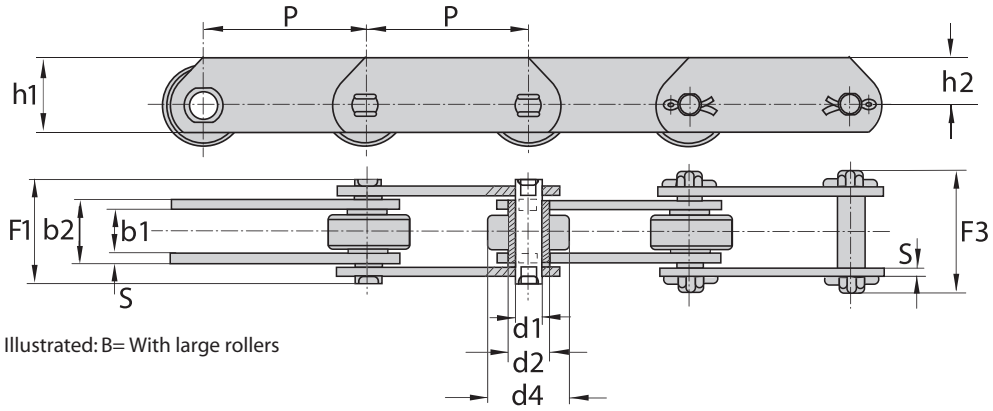
Din Nr.	p	b1	b2	d1	d2	d3	d4	d5/d6	d7	e1	F1	F2	F3	h	s	h1	h2	f	FB	FBh
	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	cm²	N	N
		min.	max.		O	A	B	D	min.										min.	min.
FV 315	160	65	86	30	42	60	90	-	20	18,0	117	113,3	130	70	10	90	55	26,1	370000	295000
	200							140/170												
	250																			
	315																			
	400																			
FV 400	160	70	96	32	44	60	100	-	22	20	130	127,3	148	70	12	90	55	30,72	410000	330000
	200							150/185°												
	250																			
	315																			
	400																			
FV 500	160	80	106	36	50	70	110	-	26	21	140	138,3	160	80	12	100	60,0	38,16	540000	440000
	200							-												
	250							160/195°												
	315																			
	400																			
FV 630	200	90	116	42	56	80	120	-	30	22	152	149,3	196	100	12	120	70	48,72	630000	520000
	250							170/210°												
	315																			
	400																			
	500																			

° = cast iron f = bearing area FB = breaking load FBh = breaking load hollow stud * F1 = Riveted pin F2, F3 = Connector pin

Conveyor chains - DIN 8165

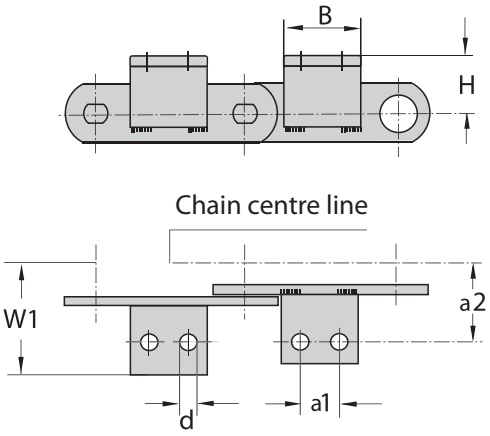
Deep link chain

Type - FVT

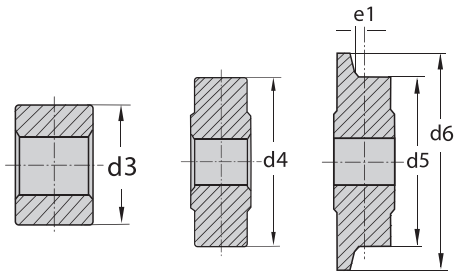


Illustrated: B= With large rollers

Attachments



Rollers to DIN 8169



Type A — Small roller

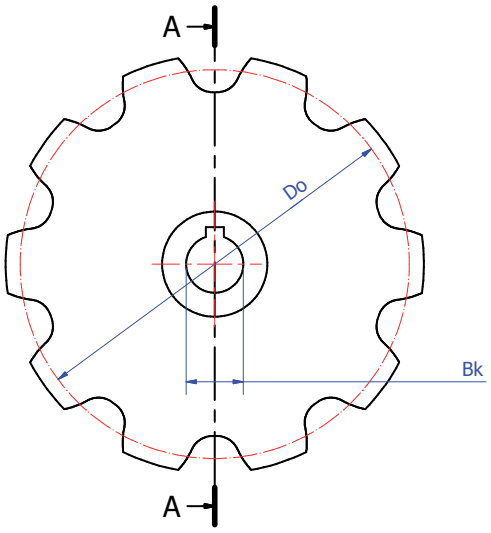
Type B — Large plain roller

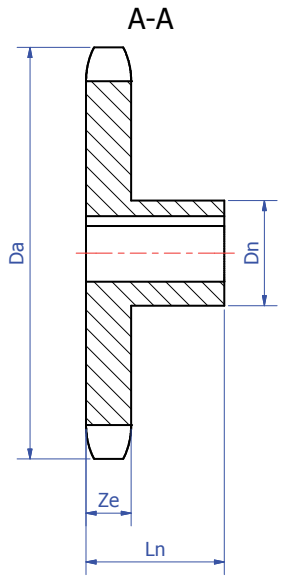
Type D — Flanged roller

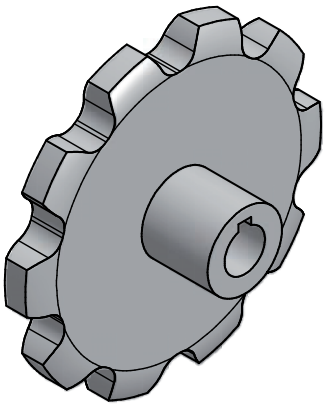
Din Nr.	p	a1	a2°	B	d	H°	W	Angle Iron	q	q	q	q	Attach-ment
	mm	mm	mm	mm	mm	mm	mm		kg/m	kg/m	kg/m	kg/m	weight
				max.	max.				O	A	B	D	kg/each
FV 315	160	*	85	50	13	60	124	70x70x9	20,04	24,51	35,67	-	0,65
	200	65		95					18,24	21,81	30,74	43,59	0,93
	250	80		110					16,76	19,65	26,79	37,07	1,25
	315	100		130					15,53	17,80	23,46	31,62	1,48
	400	100		130					14,56	16,35	20,81	27,23	1,48
FV 400	160	*	95	50	17	65	131	70x70x11	24,16	28,52	45,58	-	0,78
	200	60		100					21,91	25,40	39,05	56,11	1,12
	250	80		120					20,17	22,96	33,88	47,53	1,50
	315	100		140					18,73	20,95	29,61	40,44	1,78
	400	100		140					17,56	19,31	26,12	34,66	1,78
FV 500	160	*	100	50	17	70	146	80x80x12	30,04	37,18	58,90	-	0,84
	200	50		90					27,04	32,75	50,13	-	1,25
	250	80		120					24,65	29,22	43,12	55,48	1,88
	315	100		140					22,68	26,30	37,34	47,14	2,23
	400	100		140					21,06	23,91	32,60	40,33	2,23
FV 630	200	*	115	50	17	80	171	100x100x12	36,45	45,22	67,25	-	1,24
	250	70		110					32,93	39,95	57,57	76,20	2,13
	315	100		140					30,02	35,59	49,57	64,36	2,83
	400	100		140					27,65	32,04	43,05	54,69	2,83
	500	100		140					25,88	29,39	38,20	47,52	2,83

° = cast iron * = 1 hole only ° = Free dimension ** = integral bent attachment q = chain weight

Conveyor chains - DIN 8165 - sprockets

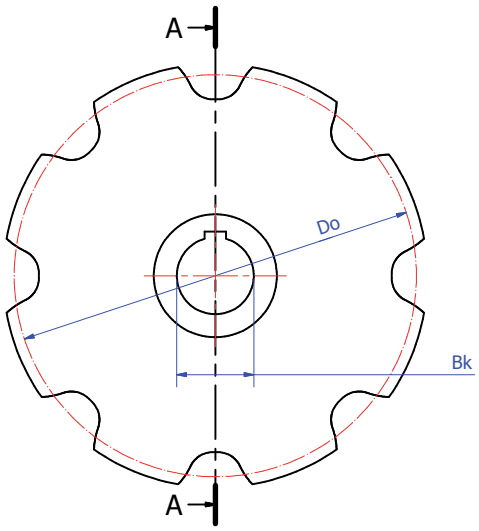


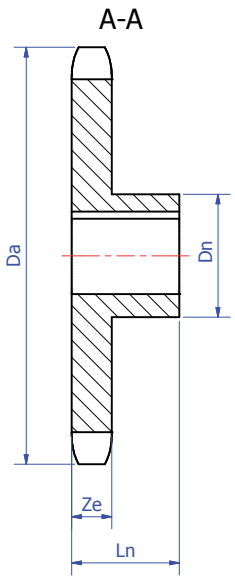


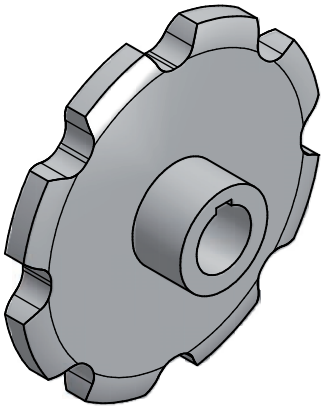


Type	p	z	Do	Da				Dn	Ln	Ze		Bk	Bg	q
	mm		mm	mm				mm	mm	mm		mm	mm	Kg
				O	A	B	D			O,A,B	D			
FV40	40	10	129,44	139	141			80	46	16		25	45	4
		16	205,03	215	216			90	50			30	50	5
		24	306,45	316	318			120	65			30	65	10
	50	10	161,81	171	173	175		100	50	16		30	55	5
		16	256,29	265	267	270		110	60			30	60	12
		24	383,07	392	394	397		120	65			30	65	19
	63	10	203,87	214	215	218	220	90	50	16	11	30	50	8
		16	322,93	333	334	337	339	120	65			30	65	15
		24	482,66	493	494	497	500	125	70			40	70	22
	80	8	209,05	218	220	223	224	110	50	16	11	30	60	7
		10	258,89	268	270	273	274	110	60			30	60	12
		16	410,06	419	421	424	425	120	65			40	65	19
	100	8	261,31	271	272	275	277	110	60	16	11	30	60	12
		10	323,61	334	335	338	340	120	65			30	65	16
		16	512,58	523	524	527	529	130	75			40	75	30
FV63	63	10	203,87	215	217	220		110	60	20		30	60	7
		16	322,93	334	336	339		125	70			30	70	13
		24	482,66	494	495	499		130	75			40	75	20
	80	8	209,05	219	221	224	226	110	60	20	14	30	60	7
		10	258,89	269	271	274	276	120	65			30	65	12
		16	410,06	420	422	425	427	130	75			40	75	20
	100	8	261,31	272	274	277	279	120	65	20	14	30	65	10
		10	323,61	335	336	340	342	125	70			30	70	13
		16	512,58	524	525	529	531	140	80			40	80	25
	125	8	326,64	338	339	343	345	125	70	20	14	40	70	14
		10	404,51	416	417	421	423	130	75			40	75	17
		12	482,96	494	496	499	501	130	75			40	75	22
	160	8	418,10	429	431	434	436	130	75	20	14	40	75	17
		10	517,78	529	531	534	537	140	80			40	80	26
		12	618,19	630	631	634	636	150	85			40	85	31
FV90	63	10	203,87	215	218	221		120	65	23		30	65	8
		16	322,93	334	337	340		130	75			30	75	15
		24	482,66	494	496	500		140	80			40	80	22
	100	8	261,31	272	275	279	281	125	70	23	17	30	70	12
		10	323,61	335	337	341	344	130	75			30	75	16
		16	512,58	524	526	530	533	150	85			40	85	30
	125	8	326,64	338	340	344	347	130	75	23	17	30	75	15
		10	404,51	416	418	422	425	140	80			30	80	23
		12	482,96	494	497	500	503	140	80			40	80	25
	160	8	418,10	429	432	436	438	140	80	23	17	40	85	23
		10	517,78	529	531	535	538	150	85			40	90	30
		12	618,19	629	632	636	638	160	90			50	95	32
	200	8	522,62	534	536	540	543	150	85	23	17	40	85	34
		10	647,22	658	661	665	667	160	90			40	90	50
	250	8	653,28	664	667	671	674	160	90	23	17	40	90	44
		10	809,03	820	823	827	830	170	95			50	95	60

Conveyor chains - DIN 8165 - sprockets

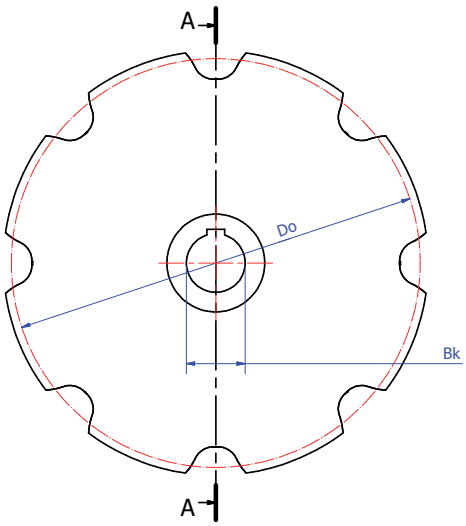


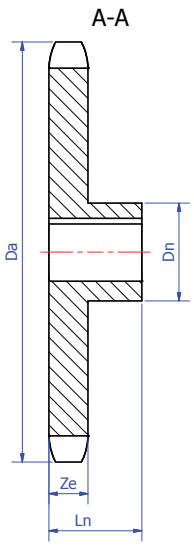


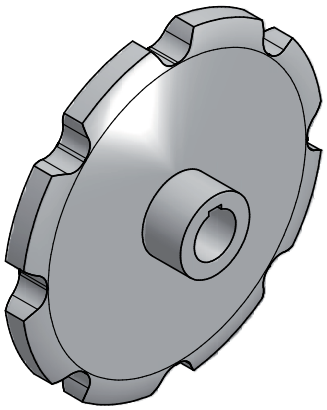


Type	p	z	Do	Da				Dn	Ln	Ze		Bk	Bg	q
	mm		mm	mm				mm	mm	mm		mm	mm	Kg
				O	A	B	D			O,A,B	D			
FV112	100	8	261,31	273	275	280	284	125	70	27	21	30	70	15
		10	323,61	335	338	342	345	140	80			30	80	21
		16	512,58	525	527	532	535	160	90			40	90	38
		24	766,13	778	780	785	788	170	95			40	95	54
	125	8	326,64	338	341	345	348	140	80	27	21	30	80	21
		10	404,51	416	419	423	426	150	85			30	85	29
		12	482,96	495	497	502	504	150	85			40	85	35
	160	8	418,10	430	432	437	441	150	85	27	21	40	85	29
		10	517,78	529	532	536	540	160	90			40	90	41
		12	618,19	630	632	637	641	170	95			40	95	50
	200	8	522,62	534	537	541	545	160	90	27	21	40	90	50
		10	647,22	658	661	666	670	170	95			40	95	54
		12	772,74	784	787	792	795	170	95			50	95	63
	250	8	653,28	665	667	671	674	170	95	27	21	40	95	98
		10	809,03	820	823	827	830	190	105			50	105	141
		12	965,93	977	980	984	987	200	110			50	110	194
FV140	100	8	261,31	274	276	281		125	75	32		30	70	19
		10	323,61	336	339	343		150	85			30	85	25
		16	512,58	525	528	532		170	95			40	95	42
	125	8	326,64	340	342	346	349	150	85	32	24	30	85	25
		10	404,51	418	420	424	427	160	90			30	90	34
		12	482,96	496	498	502	505	160	90			40	90	41
	160	8	418,10	431	433	437	440	160	90	32	24	40	90	37
		10	517,78	531	533	537	540	170	95			40	95	47
		12	618,19	631	633	637	640	180	100			40	100	52
	200	8	522,62	536	538	542	545	170	95	32	24	40	95	48
		10	647,22	660	662	666	670	180	100			50	100	65
		12	772,74	768	788	762	795	180	100			50	100	89
	250	8	653,28	666	668	672	675	180	100	32	24	50	100	70
		10	809,03	822	824	828	831	190	105			50	105	98
		12	965,93	979	981	985	988	200	110			50	110	133
	125	8	326,64	341	343	348		160	90	41		30	90	34
		10	404,51	418	421	425		170	95			30	95	42
		12	482,69	497	499	504		170	95			40	95	50

Conveyor chains - DIN 8165 - sprockets





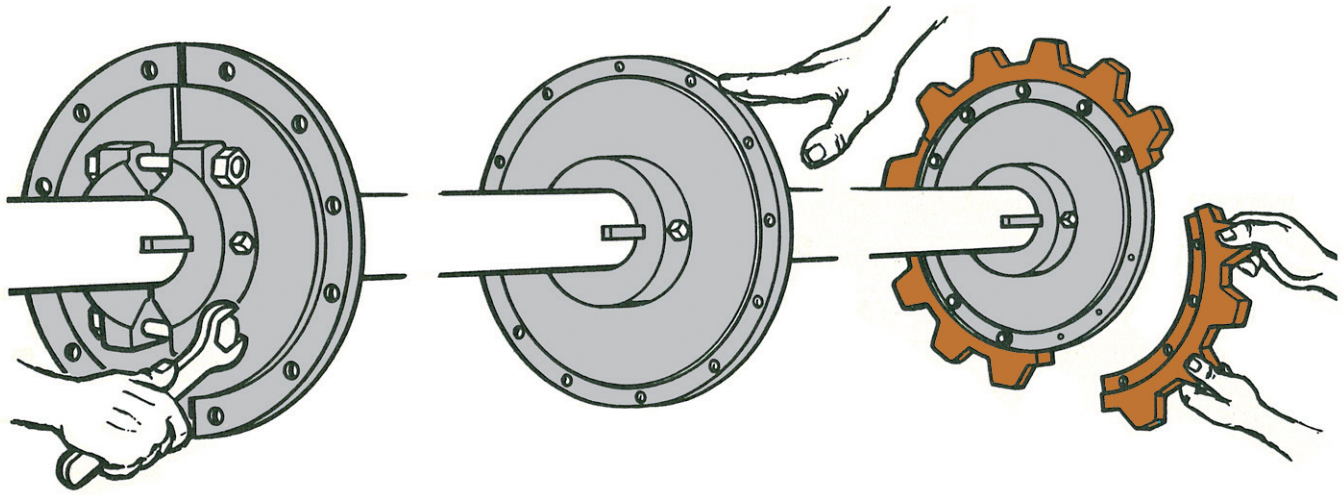


Type	p	z	Do	Da				Dn	Ln	Ze		Bk	Bg	q
	mm		mm	mm				mm	mm	mm		mm	mm	Kg
				O	A	B	D			O,A,B	D			
FV180	160	8	418,10	432	434	439	444	160	95	41	33	40	90	43
		10	517,78	532	534	539	544	170	100			40	95	58
		12	618,19	632	634	639	644	180	105			40	105	74
	200	8	522,62	537	539	544	548	180	100	41	33	40	100	61
		10	647,22	661	663	668	672	190	105			40	105	81
		12	772,74	787	789	794	798	190	105			50	105	107
	250	8	653,28	667	669	674	679	190	105	41	33	60	105	87
		10	809,03	823	825	830	835	200	110			60	110	116
		12	965,93	980	982	987	991	210	115			60	115	154
FV250	125	8	326,64	342	344	349		180	100	50	-	30	100	41
		10	404,51	420	422	427		190	105			30	105	53
		12	482,96	498	501	505		200	110			40	110	65
	160	8	418,10	433	436	440	446	190	105	50	39	40	105	56
		10	517,78	533	535	540	546	200	110			40	110	76
		12	618,19	633	636	640	646	210	115			40	115	102
	200	8	522,62	538	540	545	551	200	110	50	39	60	110	80
		10	647,22	662	665	669	675	210	115			60	115	98
		12	772,74	788	790	795	801	210	115			60	115	128
	250	8	653,28	668	671	675	681	210	115	50	39	60	115	103
		10	809,03	824	827	831	837	210	120			60	120	137
		12	965,93	981	984	988	994	220	125			60	125	170

Segmental rim sprockets and traction wheels

Segmental sprockets and traction wheels provide important benefits in easy installation and simplified replacement. The rims are made of hardened steel, and both split and solid bodies are available.

This development materially reduces the down time normally required to install a standard-type sprocket, and saves even more time and effort when replacements are made. For double sprockets, replacement rims should be ordered in matched pairs and aligned.



Existing installations may be modernized by removing old sprockets or wheels and replacing them by segmental rim of either solid hub or split hub body style. Three-segment traction wheels provide the ability to replace worn segments one at a time without removing the chain. On segmental sprockets, all rims must be removed from the hub before the replacement rims are installed.

Solid Hub Bodies

Solid hub bodies are recommended for new installations, or existing installations where it is expedient to install a solid hub to save added cost of split hub. They are accurately machined of close-grained cast iron. The bodies can be made of steel, but dimensions will differ.

Split Hub Bodies

Split hub bodies can be easily installed on existing installations without removing the shaft, bearings, or chain. They are accurately machined of close-grained cast iron. A complete set of hub bolts and nuts included. The bodies can be made of steel, but dimensions will differ.

Traction Wheels Vs. Sprockets at the Head Shaft

When properly applied, the use of a traction wheel at the head end of a centrifugal elevator will result in an increase in both chain and wheel life. In addition, the traction wheel will minimize peak chain tensions under impact or starting conditions.

Successful application of a traction wheel is dependent upon a frictional force between the traction wheel and the chain bushing, which is great enough to handle the applied chain load without excessive slippage. Factors which can detract from the effectiveness of a traction wheel are:

1. Handling material with lubricating qualities.
2. Heavy digging loads.
3. Handling very dense material.

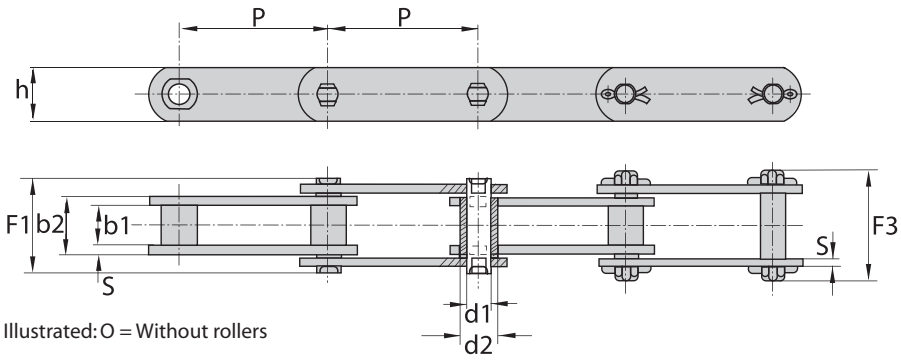
Dry and abrasive materials, on the other hand, have the desirable effect of increasing the coefficient of friction. Traction wheels have been used very successfully in the cement mill industry. Chain with roller should not be used with a traction wheel.

Conveyor chains - DIN 8167

SFS 2380, DIN 8167, SMS 2083, ISO recommendation R 1977.

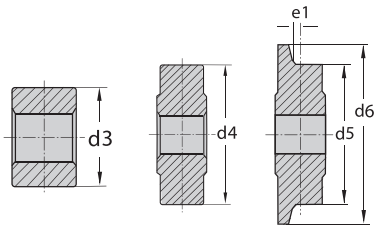
Solid pin chain

Type - M



Illustrated: O = Without rollers

Rollers to DIN 8169



Type A — Small roller

Type B — Large plain roller

Type D — Flanged roller

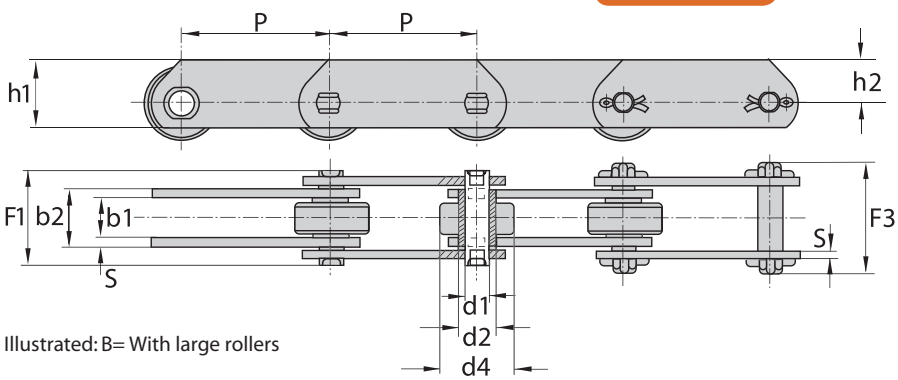
DIN Nr.	p	b1	b2	d1	d2	d3	d4	d5/d6	e1	F1*	F3	h	s	f	FB
	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	cm²	N
		min.	max.		O	A	B	D							min.
M 20**	40	16	22	6	9	12,5	25	25/30	4	31,2	36,2	18	2,5	1,32	20000
	50														
	63														
	80														
	100														
	125														
	160														
M 28**	50	18	25	7	10	15	30	30/36	4,5	35,2	40,2	20,0	3,0	1,75	28000
	63														
	80														
	100														
	125														
	160														
	200														
M 40**	63	20	28	8,5	12,5	18	36	36/42	4,5	40,2	47,2	25,0	3,5	2,38	40000
	80														
	100														
	125														
	160														
	200														
	250														
M 56	63	24	33	10	15	21	42	42/50	6	47,2	56,2	30,0	4,0	3,30	56000
	80														
	100														
	125														
	160														
	200														
	250														
M 80	80	28	39	12	18	25	50	50/60	7	55,2	64,2	35	5	4,68	80000
	100														
	125														
	160														
	200														
	250														
	315														
M 112	80	32	45	15	21	30	60	60/70	7,5	64,2	75,2	40	6	6,75	112000
	100														
	125														
	160														
	200														
	250														
	315														
	400														

** = Pins + bushings not flatted f = bearing area FB = breaking load * F1 = Riveted pin, F3 = Connector pin

Conveyor chains - DIN 8167

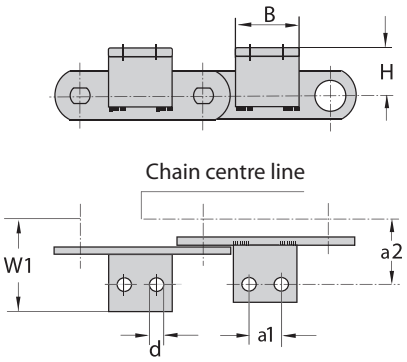
Deep link chain

Type - MT



Illustrated: B= With large rollers

Attachments



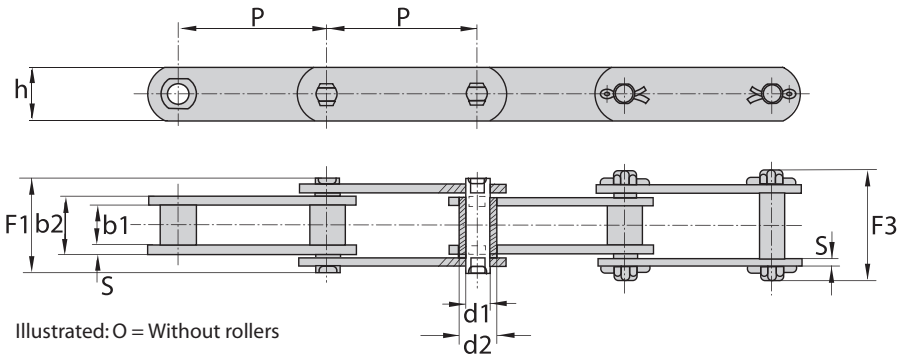
DIN No.	p	a1	a2°	B	d	h1	h2	H°	W	Angle Iron	q	q	q	q	Attachment
	mm	mm	mm	mm	mm			mm	mm		kg/m	kg/m	kg/m	kg/m	weight
				max.	max.						O	A	B	D	kg/each
M 20	40	*	27	14	6,6	25	16	16,0	39	**	1,08	1,44	2,61	2,81	0,02
	50	*		14						**	1,01	1,29	2,23	2,39	0,02
	63	20		35						15x20x3	0,99	1,23	2,00	2,13	0,04
	80	35		50							0,90	1,07	1,67	1,77	0,06
	100	50		65							0,86	1,00	1,47	1,55	0,07
	125	50		65							0,82	0,95	1,32	1,38	0,07
	160	50		65							0,80	0,89	1,19	1,24	0,07
M 28	50	*	32	20	9	30	20	20	46	**	1,54	1,82	3,32	3,52	0,02
	63	*		20						**	1,42	1,64	2,84	3,00	0,02
	80	25		45						20x30x3	1,32	1,50	2,44	2,57	0,05
	100	40		60							1,24	1,38	2,13	2,23	0,07
	125	65		85							1,18	1,30	1,90	1,98	0,10
	160	65		85							1,13	1,22	1,69	1,08	0,10
	200	65		85							1,10	1,17	1,54	1,59	0,10
M 40	63	*	35	20	9,0	35	22,5	25	48	**	2,24	2,57	4,47	4,70	0,03
	80	20		40						30x30x3	1,98	2,25	3,75	3,95	0,06
	100	40		60							1,91	2,12	3,32	3,47	0,08
	125	65		85							1,81	1,98	2,93	3,06	0,15
	160	65		85							1,71	1,85	2,60	2,71	0,15
	200	65		85							1,64	1,75	2,35	2,42	0,15
	250	65		85							1,60	1,68	2,16	2,23	0,15
M 56	63	*	44	22	11	45	30	30	61	**	3,32	3,83	6,93	7,26	0,05
	80	*		22						**	3,01	3,41	5,86	6,20	0,05
	100	25		50						40x40x4	2,79	3,11	5,07	5,34	0,12
	125	50		75							2,60	2,87	4,43	4,65	0,18
	160	85		110							2,44	2,64	3,87	4,04	0,27
	200	85		110							2,34	2,50	3,49	3,63	0,27
	250	85		110							2,25	2,37	3,16	3,27	0,27
M 80	80	*	48	22	11	50	32,5	35	65	**	4,65	5,29	9,35	9,95	0,05
	100	*		22						**	4,27	4,79	8,03	8,50	0,05
	125	50		75						40x40x4	3,97	4,38	6,98	7,35	0,18
	160	85		110							3,70	4,03	6,05	6,35	0,27
	200	125		150							3,51	3,77	5,39	5,63	0,36
	250	125		150							3,37	3,57	4,87	5,06	0,36
	315	125		150							3,24	3,41	4,43	4,58	0,36
M 112	80	*	55	28	14	60	40	40	79	50x50x6	6,75	7,88	14,60	15,30	0,13
	100	*		28							6,15	7,06	12,40	13,00	0,13
	125	35		65							5,69	6,42	10,70	11,20	0,30
	160	65		95							5,26	5,83	9,15	9,54	0,44
	200	100		130							4,97	5,43	8,09	8,38	0,59
	250	100		130							4,74	5,10	7,22	7,47	0,59
	315	100		130							4,53	4,82	6,52	6,70	0,59
	400	100		130							4,38	4,61	5,94	6,08	0,59

* = 1 hole only ° = Free dimension ** = integral bent attachment q = chain weight

Conveyor chains - DIN 8167

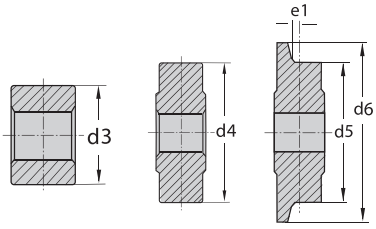
Solid pin chain

Type - M



Illustrated: O = Without rollers

Rollers to DIN 8169



Type A — Small roller

Type B — Large plain roller

Type D — Flanged roller

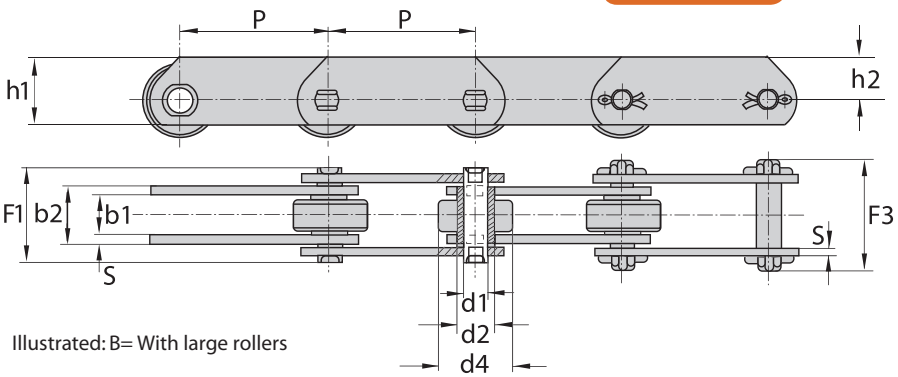
DIN No.	p	b1	b2	d1	d2	d3	d4	d5/d6	e1	F1	F3	h	s	f	FB
	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	cm²	N
		min.	max.		O	A	B	D							min.
M 160	100	37	52	18	25	36,0	70	70/85	8,5	73,3	88,3	50	7	9,36	160000
	125														
	160														
	200														
	250														
	315														
	400														
	500														
M 224	125	43	60	21	30	42	85	85/100	10,0	86,3	99,3	60,0	8,0	12,60	224000
	160														
	200														
	250														
	315														
	400														
	500														
	630														
M 315	160	48	70	25	36,0	50	100	100/120	10,5	100,3	120,3	70,0	10	17,50	315000
	200														
	250														
	315														
	400														
	500														
	630														
M 450	200	56	82	30	42	60	120	120/140*	11,5	117,5	141,3	80,0	12,0	24,60	450000
	250														
	315														
	400														
	500														
	630														
	800														
M 630	250	66	96	36	50	70	140	140/170*	14,5	136,3	159,3	100	14	34,56	630000
	315														
	400														
	500														
	630														
	800														
	1000														
M 900	250	78	112	44	60	85	170	170/210*	17	157,3	179,3	120	16	49,28	900000
	315														
	400														
	500														
	630														
	800														
	1000														

* = Cast Iron f = bearing area FB = breaking load * F1 = Riveted pin F3 = Connector pin

Conveyor chains - DIN 8167

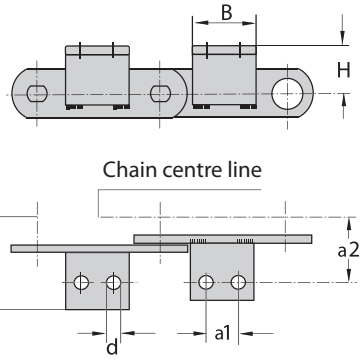
Deep link chain

Type - MT



Illustrated: B= With large rollers

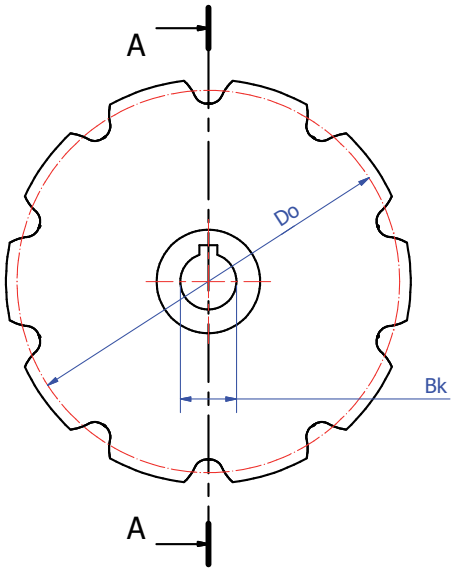
Attachments

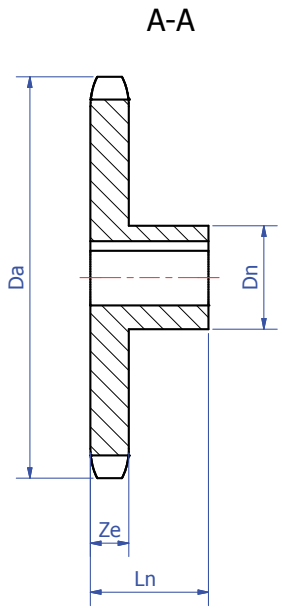


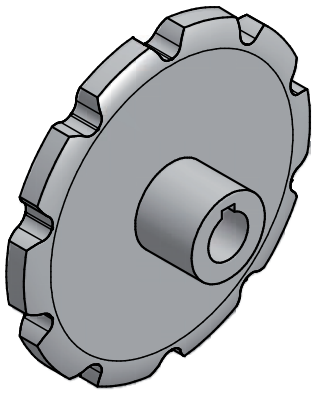
DIN No.	p	a1	a2°	B	d	h1	h2	H°	W	Angle Iron	q	q	q	q	Attach-ment
	mm	mm	mm	mm	mm			mm	mm		kg/m	kg/m	kg/m	kg/m	weight
				max.	max.						O	A	B	D	kg/each
M 160	100	*	62	30	14	70	45	45,0	83,5	50x50x6	9,70	11,20	19,50	20,40	0,14
	125	*		30							8,85	10,10	16,70	17,50	0,14
	160	50		80							8,15	9,12	14,30	14,90	0,37
	200	85		115							7,56	8,33	12,50	13,00	0,53
	250	145		175							7,22	7,82	11,10	11,50	0,80
	315	145		175							6,88	7,38	9,95	10,30	0,80
	400	145		175							6,57	6,95	9,00	9,25	0,80
	500	145		175							6,36	6,68	8,35	8,52	0,80
M 224	125	*	70	35	18	90	60	55	99	60x60x8	13,10	14,90	26,60	27,80	0,25
	160	*		35							11,90	13,30	22,40	23,40	0,25
	200	65		100							11,10	12,20	19,50	20,30	0,71
	250	125		160							10,30	11,20	17,10	17,70	1,13
	315	190		225							9,78	10,50	15,10	15,70	1,60
	400	190		225							9,30	9,86	13,50	13,90	1,60
	500	190		225							8,97	9,40	12,30	12,60	1,60
	630	190		225							8,67	9,02	11,30	11,60	1,60
M 315	160	*	80	35	18	100	65	65	116	70x70x9	18,30	20,50	34,40	36,10	0,27
	200	50		85							16,70	18,60	29,60	31,00	0,66
	250	100		135							15,60	17,10	25,90	27,10	1,04
	315	155		190							14,60	15,80	22,90	23,70	1,46
	400	155		190							13,90	14,80	20,30	21,20	1,46
	500	155		190							13,30	14,10	18,50	19,10	1,46
	630	155		190							12,80	13,40	16,90	17,40	1,46
M 450	200	*	90	40	18	120	80	75	124	70x70x9	24,20	27,50	46,00	47,80	0,37
	250	85		125							22,40	25,00	39,80	41,40	1,17
	315	155		195							20,90	22,90	34,70	36,00	1,82
	400	240		280							19,70	21,30	30,60	31,50	2,62
	500	240		280							18,70	20,10	27,50	28,20	2,62
	630	240		280							18,00	19,00	24,90	25,50	2,62
	800	240		280							17,40	18,20	22,80	23,30	2,62
M 630	250	*	115	50	24	140	90	90	163	100x100x12	34,80	39,60	62,80	65,70	0,89
	315	100		150							32,20	35,40	54,30	56,50	2,67
	400	190		240							30,30	32,70	47,80	49,50	4,27
	500	300		350							28,40	30,40	42,40	43,80	6,22
	630	300		350							27,10	28,70	38,30	39,30	6,22
	800	300		350							26,00	27,20	34,70	35,60	6,22
	1000	300		350							25,20	26,20	32,20	32,90	6,22
M 900	250	*	140	60	30	180	120	110	193	120x120x15	51,20	58,00	100,00	106,00	1,59
	315	65		125							47,00	52,30	85,70	90,20	3,32
	400	155		215							43,50	47,70	74,00	77,40	5,70
	500	240		300							40,80	44,20	65,30	68,10	7,95
	630	240		300							38,80	41,40	58,10	60,40	7,95
	800	240		300							36,90	39,00	52,20	51,70	7,95
	1000	240		300							35,50	37,20	47,70	49,10	7,95

* = 1 hole only ° = Free dimension ** = integral bent attachment q = chain weight

Conveyor chains - DIN 8167 - sprockets

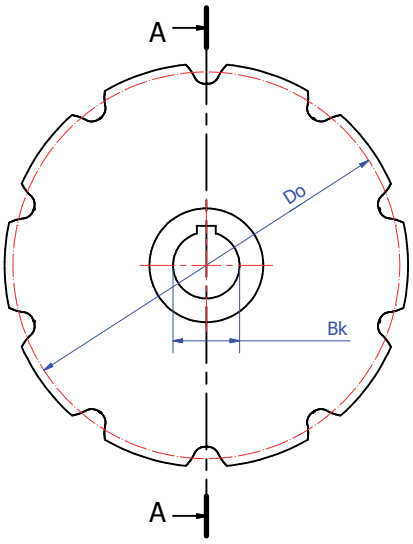


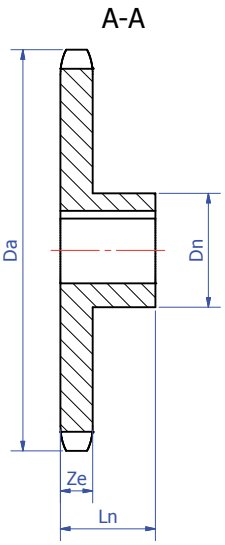


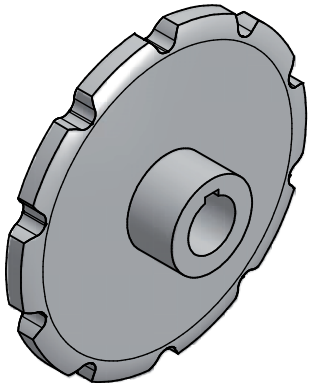


ISO No.	p	z	Do	Da			Dn	Ln	Ze		Bk	Bg	q
	mm		mm	mm			mm	mm	mm		mm	mm	Kg
				O	A	B,D			O,A,B	D			
M 20	40	10	129,44	136	138	141	80	40	14	10	25	45	3
		16	205,03	212	214	217	90	50			30	50	4
		24	306,45	313	315	318	100	60			30	60	10
		40	509,82	516	518	521	125	65			40	70	25
	50	10	161,81	169	170	174	80	45	14	10	25	50	4
		16	256,29	263	264	268	90	50			30	50	6
		24	383,07	390	392	395	100	60			30	60	12
		40	637,28	644	646	649	140	75			40	80	28
	63	10	203,87	211	212	216	90	50	14	10	30	50	5
		16	322,92	329	331	334	115	60			30	65	10
		24	482,66	489	491	494	125	65			40	70	20
		40	802,96	810	811	815	150	75			40	85	40
	80	8	209,05	216	217	221	90	50	14	10	30	50	4
		10	258,89	266	267	271	110	60			30	60	8
		16	410,06	417	419	422	140	75			40	80	18
		24	612,90	620	621	624	140	75			40	80	28
	100	8	261,31	268	270	273	110	60	14	10	30	60	8
		10	323,61	331	332	337	125	65			40	70	13
		12	386,37	393	395	398	130	70			40	75	15
		16	512,58	519	521	524	130	70			40	75	26
M 28	50	10	161,81	169	171	175	80	45	16	11	25	45	4
		16	256,29	263	265	269	90	50			30	50	7
		24	383,07	390	392	396	90	60			30	50	15
		40	637,28	645	646	650	125	85			40	70	30
	63	10	203,87	211	213	217	90	50	16	11	30	50	4
		16	322,92	330	332	336	90	60			30	50	7
		24	482,66	490	492	496	140	75			40	80	25
		40	802,96	810	812	816	180	100			50	100	42
	80	8	209,05	216	218	222	90	50	16	11	30	50	6
		10	258,89	266	268	272	110	60			30	60	10
		16	410,06	417	419	423	140	75			40	80	22
		24	612,90	620	622	626	180	100			50	100	35
	100	8	261,31	269	271	275	60	60	16	11	30	60	10
		10	323,61	331	331	333	125	65			40	70	14
		12	386,37	394	396	400	130	70			40	75	19
	125	8	326,63	334	336	340	125	65	16	11	40	70	11
		10	404,51	412	414	358	140	75			40	80	22
		12	482,96	490	492	496	140	75			40	80	26

Conveyor chains - DIN 8167 - sprockets

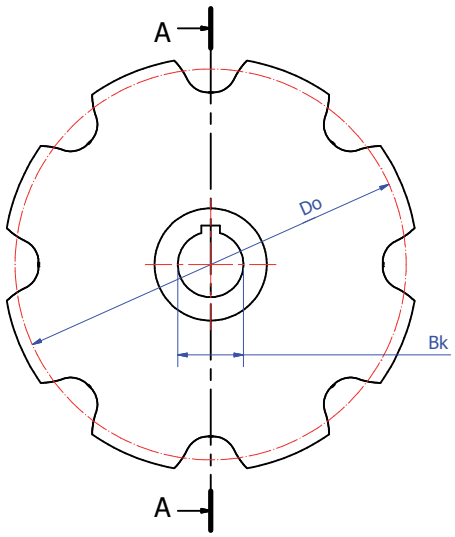


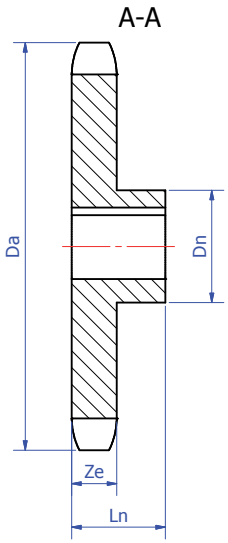


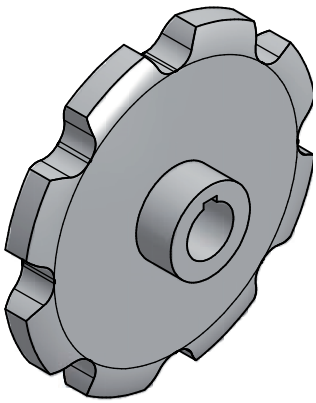


ISO No.	p	z	Do	Da			Dn	Ln	Ze		Bk	Bg	q
	mm		mm	mm			mm	mm	mm		mm	mm	Kg
				O	A	B,D			O,A,B	D			
M 40	63	10	203,87	212	214	218	90	50	18	12	30	50	6
		16	322,92	331	333	337	90	65			30	50	7
		24	482,66	491	493	497	140	75			40	80	25
		40	802,96	811	813	817	180	100			50	100	42
	80	8	209,05	217	219	224	90	50	18	12	30	50	6
		10	258,89	267	269	273	110	60			30	60	8
		16	410,06	418	420	425	140	75			40	80	20
		24	612,90	621	623	627	180	100			50	100	40
	100	8	261,31	270	271	276	110	60	18	12	30	60	9
		10	323,61	332	334	338	125	65			40	70	14
		12	386,37	395	396	401	130	70			40	75	18
		16	512,58	521	523	527	180	100			50	100	28
	125	8	326,63	335	337	341	125	65	18	12	40	70	14
		10	404,51	413	415	419	140	75			40	80	20
		12	482,96	491	493	497	140	75			40	80	25
	160	8	418,09	426	428	433	140	75	18	12	40	80	22
		10	517,77	526	528	532	150	80			40	85	26
		12	618,19	626	628	633	160	85			40	90	37
M 56	63	10	203,87	213	215	220	90	50	22	16	30	50	6
		16	322,92	332	334	339	130	65			40	70	16
		24	482,66	492	494	498	140	65			40	80	28
		40	802,96	812	814	819	180	100			50	100	62
	80	8	209,05	218	220	25	90	50	22	16	30	50	6
		10	258,89	268	270	275	110	60			30	60	11
		16	410,06	419	421	426	125	80			40	70	21
		24	612,90	622	624	629	140	90			40	80	40
	100	8	261,31	270	272	277	110	60	22	16	30	60	12
		10	323,61	333	335	339	125	65			40	70	16
		12	386,37	396	397	402	130	70			40	75	21
		16	512,58	522	524	528	140	80			40	80	32
	125	8	326,63	336	338	342	125	65	22	16	40	70	16
		10	404,51	414	415	420	140	80			40	80	25
		12	482,96	492	191	499	140	75			40	80	29
	160	8	418,09	427	429	434	140	80	22	16	40	80	25
		10	517,77	527	529	533	150	85			40	85	40
		12	618,19	627	629	634	160	90			40	90	45

Conveyor chains - DIN 8167 - sprockets

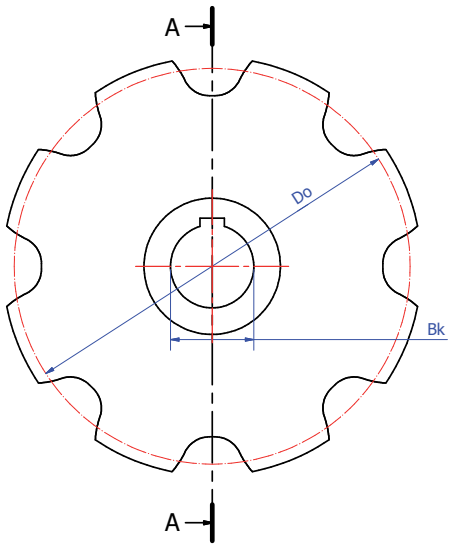


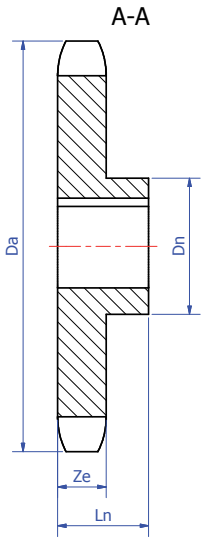


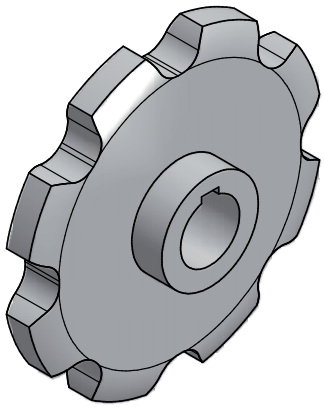


ISO No.	p	z	Do	Da			Dn	Ln	Ze		Bk	Bg	q
	mm		mm	mm			mm	mm	mm		mm	mm	Kg
				O	A	B,D			O,A,B	D			
M 80	80	8	209,05	219	221	226	90	50	25	18	30	50	8
		10	258,89	269	271	276	110	60			30	60	14
		16	410,06	420	422	427	140	65			40	80	24
		24	612,90	623	625	630	140	65			40	80	36
	100	8	261,31	271	273	278	110	60	25	18	30	60	15
		10	323,61	334	336	641	125	65			40	70	19
		12	386,37	396	398	404	130	70			40	75	24
		16	512,58	523	525	530	140	70			40	80	35
	125	8	326,63	337	339	344	125	65	25	18	40	70	18
		10	404,51	415	417	422	140	80			40	80	28
		12	482,96	493	495	500	140	75			40	80	33
	160	8	418,09	428	430	435	140	80	25	18	40	80	32
		10	517,77	528	530	535	150	85			40	85	38
		12	618,19	628	630	635	160	90			40	90	45
	200	8	522,62	533	535	540	150	85	25	18	40	85	39
		10	647,22	657	659	664	160	90			40	90	47
		12	772,74	783	785	790	180	100			50	100	61
M 112	80	8	209,05	220	222	228	90	50	29	21	30	50	11
		10	258,59	270	272	277	110	60			30	60	17
		16	410,06	421	423	429	125	80			40	70	32
		24	612,90	624	626	632	140	90			40	80	52
	100	8	261,31	272	275	280	110	60	29	21	40	60	17
		10	323,61	335	337	342	125	70			40	70	21
		12	386,37	397	400	405	130	75			40	75	29
		16	512,58	524	526	531	140	80			40	80	45
	125	8	326,63	338	340	345	125	70	29	21	40	70	21
		10	404,51	415	418	423	140	75			40	80	33
		12	482,96	494	496	502	140	80			40	80	38
	160	8	418,09	429	431	437	140	75	29	21	40	80	35
		10	517,77	529	531	537	150	80			40	85	48
		12	618,19	629	631	637	160	85			40	90	58
	200	8	522,62	534	536	541	150	80	29	21	40	85	52
		10	647,22	658	660	666	160	85			40	90	63
		12	772,74	784	786	792	180	95			50	100	85

Conveyor chains - DIN 8167 - sprockets





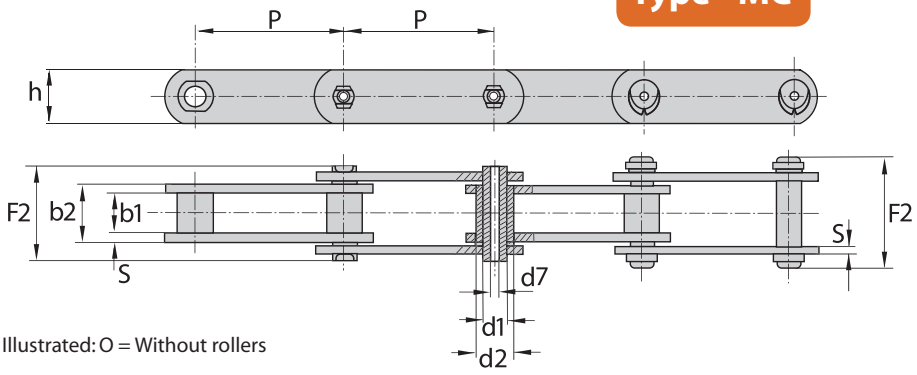


DIN No.	p	z	Do	Da			Dn	Ln	Ze		Bk	Bg	q
	mm		mm	mm			mm	mm	mm		mm	mm	Kg
				O	A	B,D			O,A,B	D			
M 160	100	8	261,31	273	276	282	110	60	34	24	40	60	10
		10	323,61	339	341	347	120	65			40	70	17
		12	386,37	398	401	407	130	70			40	80	27
		16	512,58	525	527	533	150	85			40	85	42
	125	8	326,63	339	341	347	120	65	34	24	40	80	18
		10	404,51	417	419	425	130	70			40	80	32
		12	482,96	495	497	503	140	80			40	85	39
	160	8	418,09	430	433	439	140	80	34	24	40	80	37
		10	517,77	530	532	538	150	85			40	85	44
		12	618,19	631	633	639	160	90			40	90	63
	200	8	522,62	535	537	543	150	85	34	24	40	85	46
		10	647,22	659	662	668	160	90			40	90	68
		12	772,74	785	787	793	180	100			50	100	86
	250	8	653,27	665	668	674	160	90	34	24	40	90	69
		10	809,02	821	824	829	190	105			50	105	99
		12	965,92	978	980	986	210	120			50	120	126
M 224	125	8	326,63	340	342	349	120	65	39	28	40	80	28
		10	404,51	418	420	427	130	70			40	80	38
		12	482,96	496	499	506	140	80			40	85	53
	160	8	418,09	431	434	441	140	80	39	28	40	80	44
		10	517,77	531	533	540	150	85			40	85	58
		12	618,19	631	634	641	160	90			40	90	73
	200	8	522,62	536	538	545	150	85	39	28	40	85	60
		10	647,22	660	663	670	160	90			40	90	78
		12	772,74	786	788	795	180	100			50	100	102
	250	8	653,27	666	669	676	160	90	39	28	40	90	78
		10	809,02	821	824	831	190	105			50	105	111
		12	965,92	979	982	988	210	120			50	120	143
M 315	160	8	418,09	433	435	443	200	115	44	31	50	115	61
		10	517,77	532	535	542	200	115			60	115	72
		12	618,19	633	635	643	210	115			60	115	89
	200	8	522,62	537	540	547	200	115	44	31	50	115	79
		10	647,22	662	664	672	200	115			60	115	108
		12	772,74	787	790	797	210	115			60	115	127
	250	8	653,27	668	670	678	210	115	44	31	60	115	109
		10	809,02	823	825	833	210	115			60	115	143
		12	965,92	980	983	990	220	125			60	125	153

Conveyor chains - DIN 8168 - hollow pin

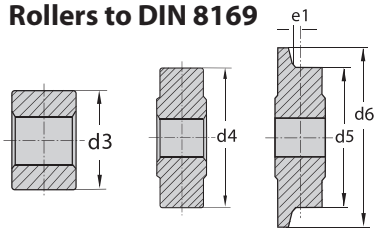
Hollow pin chain

Type - MC



Illustrated: O = Without rollers

Rollers to DIN 8169



Type A — Small roller

Type B — Large plain roller

Type D — Flanged roller

Conveyor Chains - DIN 8168-ISO 1977

DIN Nr.	p	b1	b2	d1	d2	d3	d4	d5/d6	d7	e	F1	F2	h	s	f	FBh
	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	cm²	N
		min.	max.		O	A	B	D	min.							min.
MC 28	63	20	28	13	17,5	25,0	36	36/42	8,2	4,5	40,6	40,6	25	3,5	3,64	28000
	80															
	100															
	125															
	160															
MC 56	80	24	33	15,5	21	30	50	50/60	10,2	6,0	46,6	46,6	35,0	4,0	5,11	56000
	100															
	125															
	160															
	200															
	250															
MC 112	100	32	45	22	29,0	42	70	70/85	14,3	7,5	63,8	63,8	50,0	6	9,90	112000
	125															
	160															
	200															
	250															
	315															
MC 224	160	43	60	31	41	60	100	100/120*	20,3	10	82,9	82,9	70,0	8,0	18,60	224000
	200															
	250															
	315															
	400															
	500															

f = bearing area FBh = breaking load * F1 = Riveted pin, F2 = Connector pin

Attachment plates and weights

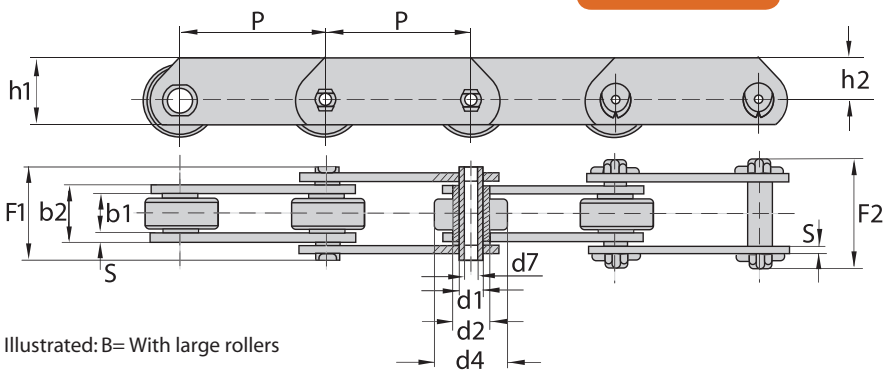
DIN No.	p	a1	a2°	B	d	h1	h2	H°	W	Angle Iron	q	q	q	q	Attachement
	mm	mm	mm	mm	mm			mm	mm		kg/m	kg/m	kg/m	kg/m	weight
				max.	max.						O	A	B	D	kg/each
MC 28	63	*	35	20	9	35	22,5	25,0	47,7	**	2,6	3,8	5,0	5,2	0,03
	80	20		40						30x30x3	2,4	3,3	4,3	4,4	0,06
	100	40		60							2,2	2,9	3,7	3,8	0,09
	125	65		85							2,0	2,6	3,2	3,3	0,12
	160	65		85							1,9	2,3	2,8	2,9	0,12
MC 56	80	*	44	25	11	50	32,5	35	60,7	**	3,5	4,9	5,7	6,0	0,06
	100	*		25						**	3,3	4,4	5,0	5,2	0,06
	125	50		75						40x40x4	3,1	4,0	4,5	4,6	0,18
	160	85		110							2,9	3,6	4,0	4,1	0,27
	200	125		150							2,7	3,3	3,6	3,7	0,36
	250	125		150							2,6	3,1	3,3	3,4	0,36
MC 112	100	*	55	30	14	70	45	45	78,8	50x50x6	8,5	9,9	12,9	13,5	0,13
	125	*		30							7,6	8,9	11,3	11,7	0,13
	160	50		80							6,9	8,0	9,9	10,2	0,36
	200	85		115							6,5	7,3	8,8	9,1	0,51
	250	145		175							6,1	6,8	8,0	8,2	0,78
	315	145		175							5,3	5,8	6,8	6,9	0,78
MC 224	160	*	70	35	18	100	65	65	98,3	60x60x8	13,6	16,4	27,0	28,7	0,25
	200	50		85							12,3	13,5	22,0	23,4	0,60
	250	100		135							11,9	12,5	19,4	20,5	0,96
	315	155		190							11,2	11,8	17,2	18,0	1,35
	400	155		190											
	500	155		190											

* = 1 hole only ° = Free dimension ** = integral bent attachment q = chain weight

Conveyor chains - DIN 8168 - sprockets

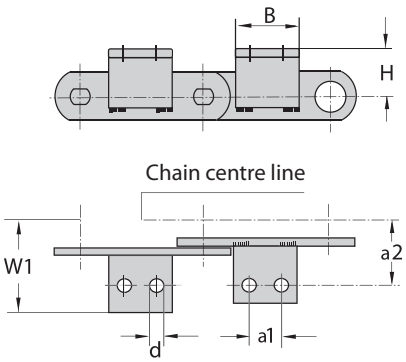
Deep link chain

Type - MCT

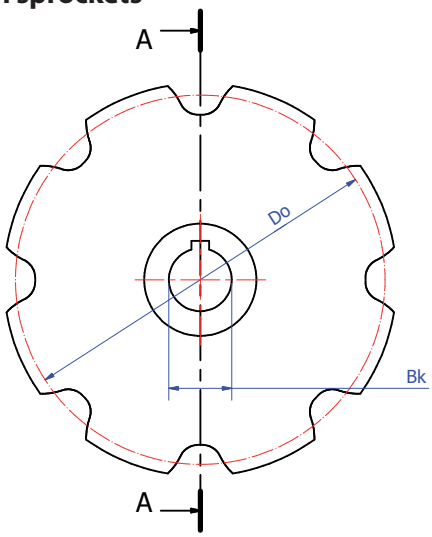


Illustrated: B= With large rollers

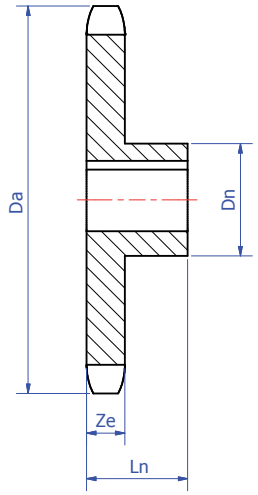
Attachments

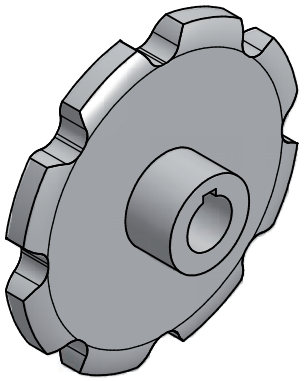


Chain sprockets



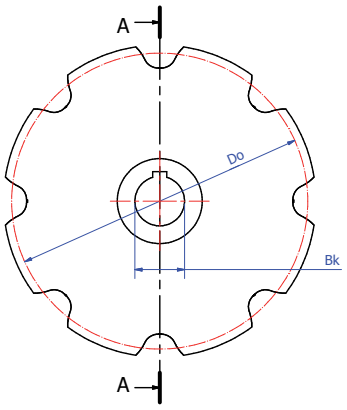
A-A

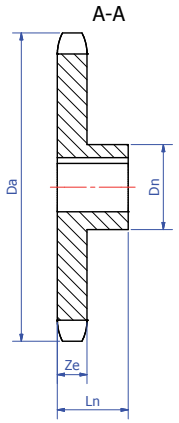


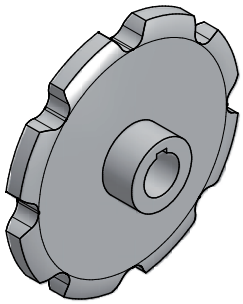


DIN No.	p	z	Do	Da			Dn	Ln	Ze		Bk	Bg	q
	mm		mm	mm			mm	mm	mm		mm	mm	Kg
				O	A	B,D			O,A,B	D			
MC 28	63	8	164,63	175	177	180	80	45	18	12	25	45	3,9
		10	203,87	214	216	219	90	50			30	50	6,5
		12	243,41	254	256	258	110	60			30	60	11,7
	80	8	209,05	220	222	224	90	50	18	12	30	50	6,8
		10	258,89	269	271	273	110	60			30	60	13
		12	309,10	320	322	324	125	65			40	70	14,5
	100	8	261,31	272	274	276	110	60	18	12	30	60	13,3
		10	323,61	334	336	338	125	65			40	70	16,3
		12	386,37	397	399	401	130	70			40	75	20,1
	125	8	326,64	337	339	341	125	65	18	12	40	70	16,9
		10	404,51	415	417	419	140	75			40	80	21,1
		12	482,96	493	495	497	140	75			40	80	23,1
	160	8	418,10	429	431	433	140	75	18	12	40	80	22,3
		10	517,78	528	530	532	150	80			40	85	27,9
		12	618,19	629	631	633	160	85			40	90	38

Conveyor chains - DIN 8168 - sprockets







Type - MCT

ISO No.	p	z	Do	Da			Dk	Dn	Ln	Ze		Bk	Bg	q
	mm		mm	mm			mm	mm	mm	mm		mm	mm	Kg
				O	A	B,D	O,A,B		O,A,B	A,B	D	30		
MC 56	80	8	209,05	211	223	227	152	90	50	22	16	30	50	7,1
		10	258,89	270	272	276	204	110	60			30	60	13,2
		12	309,10	321	323	327	256	125	65			40	70	15,6
	100	8	261,31	273	275	279	200	110	60	22	16	30	60	13,3
		10	323,61	335	337	341	266	125	65			40	70	16,4
		12	386,37	398	400	404	332	130	70			40	75	21,6
	125	8	326,64	338	340	344	260	125	65	22	16	40	70	17,0
		10	404,51	416	418	422	342	140	80			40	80	23,9
		12	482,96	494	496	500	424	140	75			40	80	27,1
	160	8	418,10	430	432	436	344	140	80	22	16	40	80	24,1
		10	517,78	529	531	535	452	150	85			40	85	29,9
		12	618,19	630	632	636	556	160	90			40	90	40,1
	200	8	522,62	534	536	540	440	150	85	22	16	40	85	31,1
		10	647,22	659	661	665	574	160	90			40	90	41,3
		12	772,74	784	786	790	706	180	100			50	100	49,7
	250	8	653,28	665	667	671	562	160	90	22	16	40	90	42,8
		10	809,03	821	823	827	728	190	105			50	105	64,8
		12	965,93	977	979	983	892	210	120			50	120	77,4
MC 112	100	8	261,31	275	277	282	184	110	60	22	21	40	60	13,3
		10	323,61	337	339	344	250	125	470			40	70	16,9
		12	386,37	400	402	407	316	130	75			40	75	24,6
	125	8	326,64	340	342	347	244	125	70	22	21	40	70	17,7
		10	404,71	418	420	425	328	140	75			40	80	30,9
		12	482,96	496	498	503	410	140	80			40	80	31,7
	160	8	418,10	432	434	439	330	140	75	29	21	40	80	31,8
		10	517,78	531	533	538	436	150	80			40	85	52,7
		12	618,19	632	634	639	540	160	85			40	90	67,7
	200	8	522,62	536	538	543	426	150	80	29	21	40	85	53,2
		10	647,22	661	663	668	558	160	85			40	90	68,2
		12	772,74	786	788	793	690	180	98			50	100	84,6
	250	8	653,28	667	669	674	546	160	85	29	21	40	90	70,3
		10	809,03	823	825	830	712	190	100			50	105	87,9
		12	965,93	979	981	986	876	210	115			50	120	123,0
	315	8	823,13	937	839	844	704	190	100	29	21	50	105	91,0
		10	1019,37	1033	1035	1040	912	230	125			60	130	132,0
		12	1217,07	1231	1233	1238	1118	250	135			60	140	167,0
MC 224	160	8	418,10	434	438	443	310	140	80	39	28	40	80	37,2
		10	517,78	534	538	543	416	150	85			40	85	52,8
		12	618,19	634	638	643	520	160	90			40	90	67,3
	200	8	522,62	539	543	548	406	150	85	39	28	40	85	56,3
		10	647,22	663	667	672	538	160	90			40	90	73,1
		12	772,74	789	793	798	670	180	100			50	100	87,6
	250	8	653,28	669	673	678	526	160	90	39	28	40	90	74,5
		10	809,03	825	829	834	692	190	105			50	105	91,8
		12	965,93	982	986	991	856	210	120			50	120	140,0
	315	8	823,13	839	843	848	684	190	105	39	38	50	105	94,5
		10	1019,37	1035	1039	1044	892	230	130			60	130	141,0
		12	1217,07	1233	1237	1242	1098	250	140			60	140	173,0

Sprockets with replaceable teeth segments

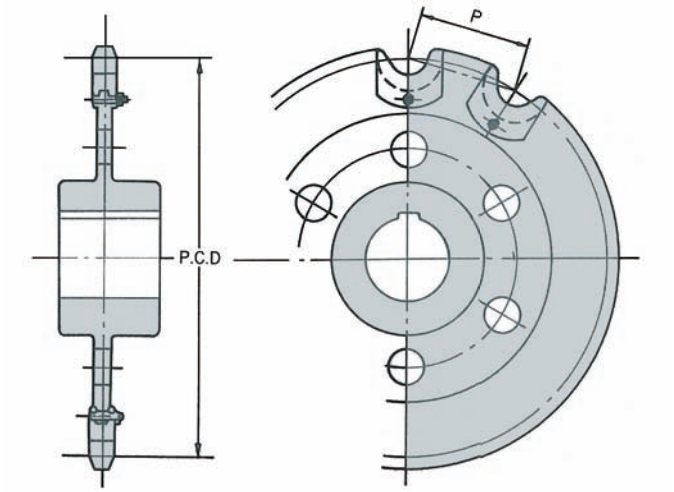
Any damage on the teeth surfaces of a sprocket diminishes the life of the conveyor chain. When the teeth of a sprocket are considerably worn in a severe service environment, padding of the teeth or the replacement of a complete sprocket was necessary in the past. In either case, repair was costly and, in the case of padding teeth accuracy was impaired. We design and manufacture teeth replaceable sprockets. Since this achieves an important savings in cost and time in environment causing heavy wear of teeth surfaces, the sprockets have gained wide acceptance by users.

Construction

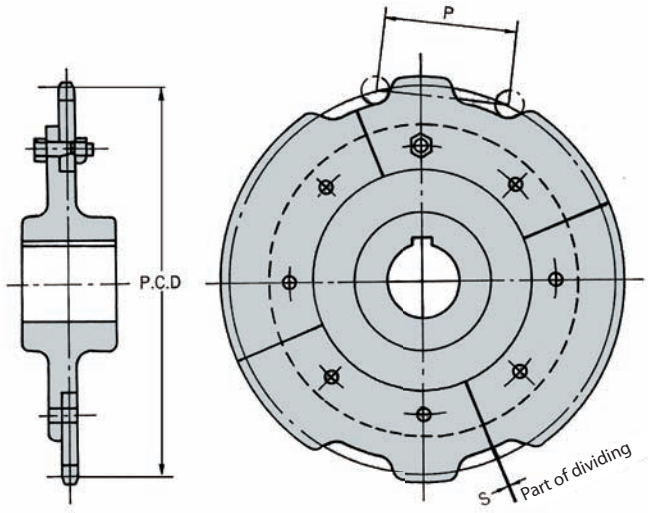
The teeth can be replaced by two methodes: replacing teeth one by one or replacing sectors of a teeth ring of a sprocket. The bolts and nuts used for mounting the teeth on the sprocket are spot-welded to prevent loosening. The respective structures are illustrated on the right.

The above photo and the top right illustration show a sprocket with teeth individually replaced. Since the joint face between the replaced teeth and the sprocket is formed in a unique circular arc, the bonding accuracy is high and a strong sprocket is achieved. Furthermore, since the load acting on the mounting bolts is decreased, there is less possibility of loosening.

Replacement of Sprocket by One Tooth.

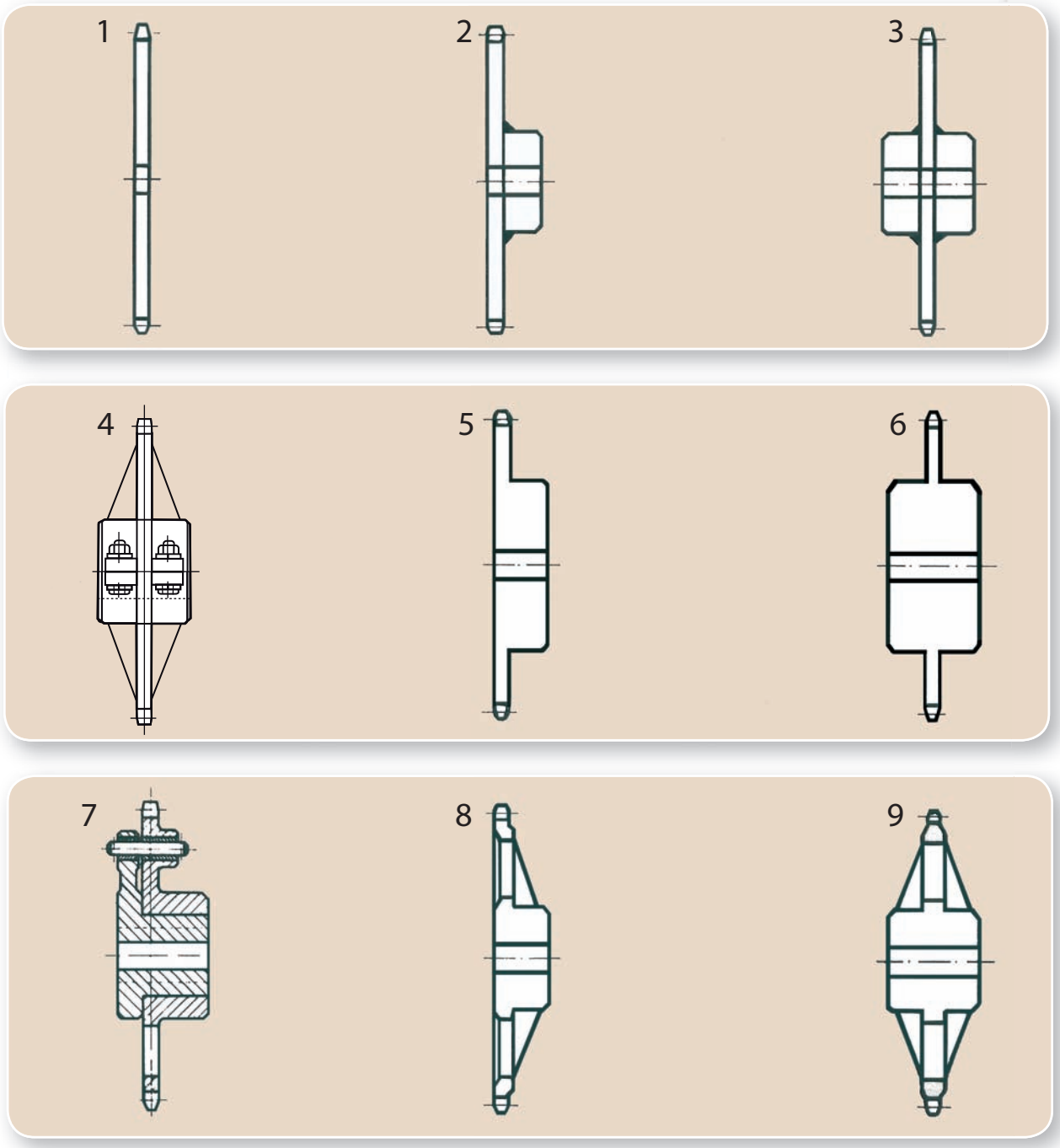


Replacement of Sprocket by Chunk of Teeth
(Example: divided into four segments)



Replacement segments for sprockets.

Sprocket designs



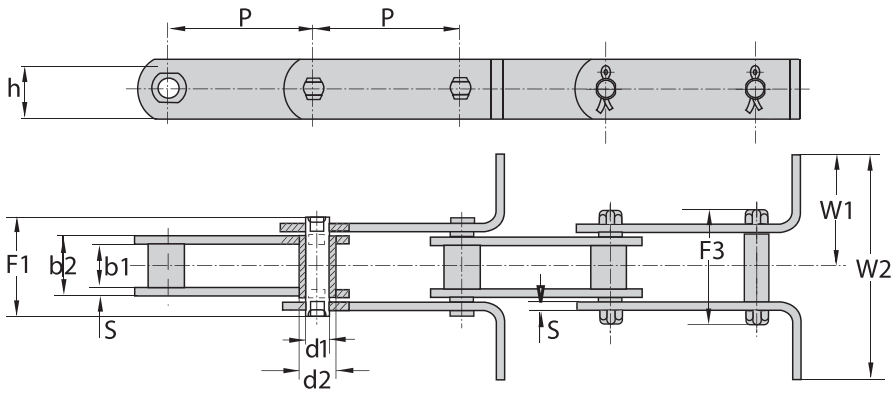
Modifications and special features

The following can often be furnished on request:
Hub diameters or lengths other than listed
Bores other than listed
Additional or special keyseats
Keyseats in line or in definite locations
Additions or special setscrews
Facing hubs to exact dimensions
Jaw clutch, shear pin, or special hubs bronze bushings

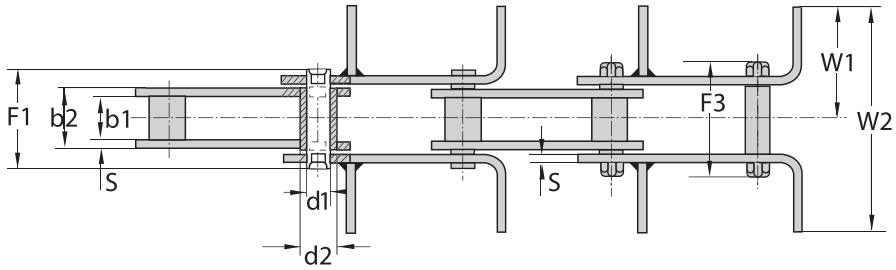
We produce sprockets for every kind of chain. Please consult us for your special executions.

Scraper chains - DIN 8165 / 8167

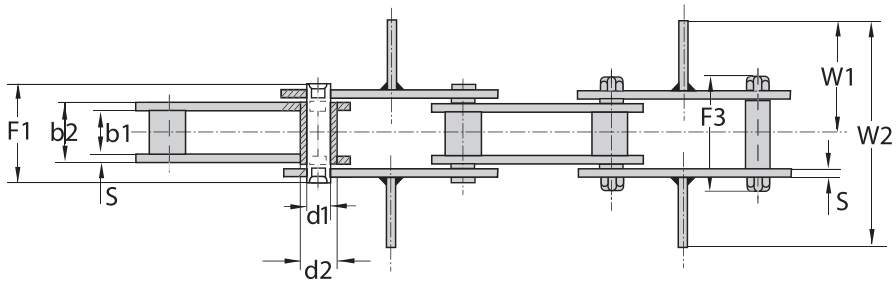
Type - A



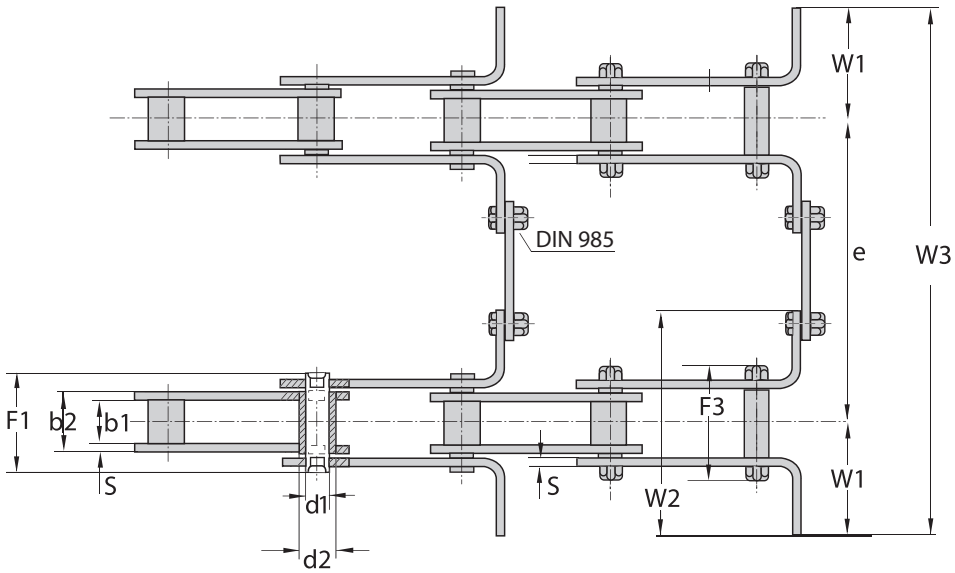
Type - B



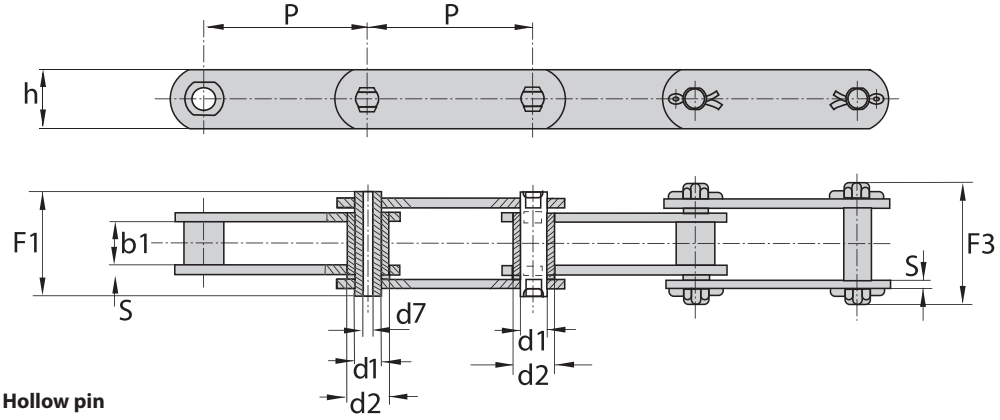
Type - C

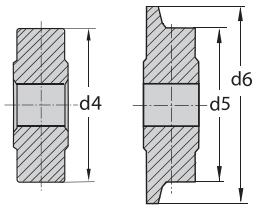


Type -D



Hollow pin and solid pin conveyor chains with attachments (British standard)





Type B — Large plain roller

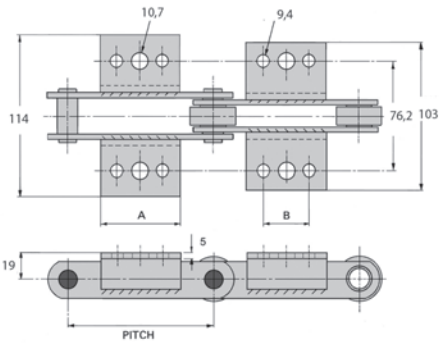
Type D — Flanged roller

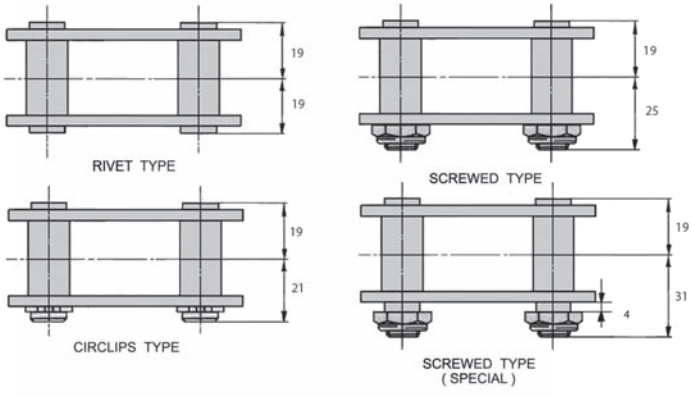
Hollow pin

Chain No	p	b1	d1	d2	d5/d6	d7	F1	F3	h	s	FB	q
	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	kN / Lb	kg/m
		min.		O		min.					min.	
GH4202HP	50,80	15,00	14,00	18,00	31,80 /40	10,10	36,3	39,0	26,0	3,80	42,0/9545	3,75
GH4203HP	76,20	15,00	14,00	18,00	31,80 /40	10,10	36,3	39,0	26,0	3,80	42,0/9545	3,01
GH42035HP	88,90	15,00	14,00	18,00	31,80 /40	10,10	36,3	39,0	26,0	3,80	42,0/9545	2,79
GH4204HP	101,60	15,00	14,00	18,00	31,80 /40	10,10	36,3	39,0	26,0	3,80	42,0/9545	2,63
GH4205HP	127,00	15,00	14,00	18,00	31,80 /40	10,10	36,3	39,0	26,0	3,80	42,0/9545	2,45
GH4206HP	152,40	15,00	14,00	18,00	31,80 /40	10,10	36,3	39,0	26,0	3,80	42,0/9545	2,35
Solid pin											*FBh*	
GH6702	50,80	15,00	14,00	18,00	31,80 /40	-	36,3	39,0	26,0	3,80	67,0/15225	4,00
GH6703	76,20	15,00	14,00	18,00	31,80 /40	-	36,3	39,0	26,0	3,80	67,0/15225	3,25
GH67035	88,90	15,00	14,00	18,00	31,80 /40	-	36,3	39,0	26,0	3,80	67,0/15225	3,00
GH6704	101,60	15,00	14,00	18,00	31,80 /40	-	36,3	39,0	26,0	3,80	67,0/15225	2,80
GH6705	127,00	15,00	14,00	18,00	31,80 /40	-	36,3	39,0	26,0	3,80	67,0/15225	2,60
GH6706	152,40	15,00	14,00	18,00	31,80 /40	-	36,3	39,0	26,0	3,80	67,0/15225	2,45

F1 = Riveted pin F3 = Connector pin FB = solid pin / FBh = hollow pin

Connecting Links





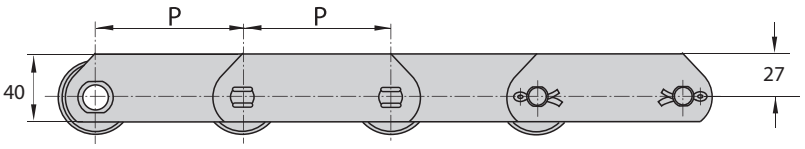
Integral K-attachments or Welded K-attachments

K1 - 1 HOLE K2 - 2 HOLES K3 - 3 HOLES

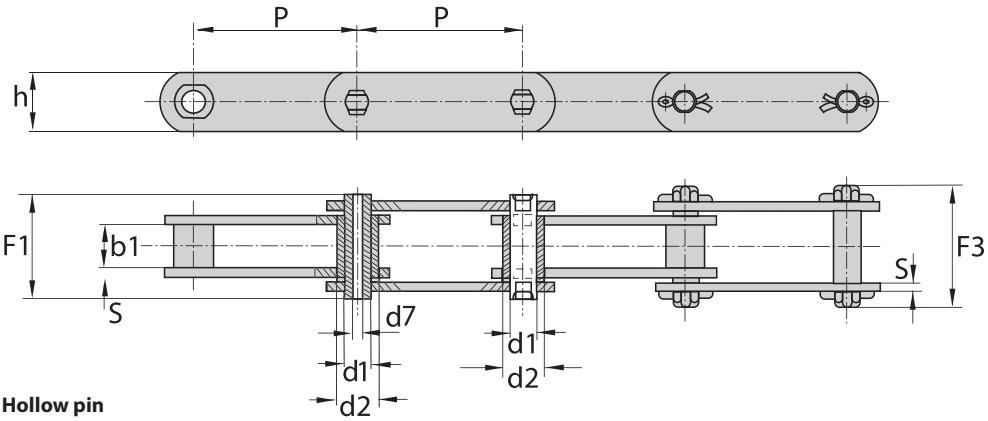
TYPE	PITCH mm	A mm	B mm	Extra mass kg/each
K1	76,20	28,0	-	0,05
K2	76,20	43,0	22,2	0,08
K3	101,60	56,0	31,8	0,10
K3	152,40	84,0	57,2	0,16

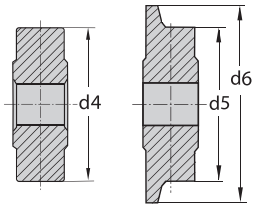
Other distances of holes available as well as attachments on one or both sides.
All types of conveyor chains also available without rollers.

Deep link chain



Hollow pin and solid pin conveyor chains with attachments (British standard)





Type B
Large plain roller

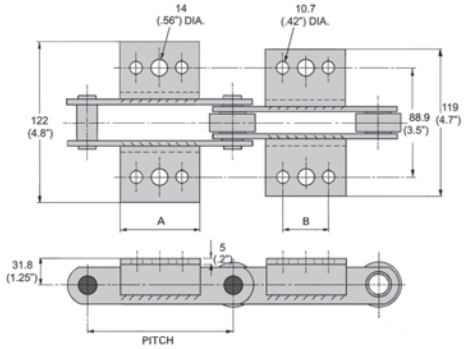
Type D
Flanged roller

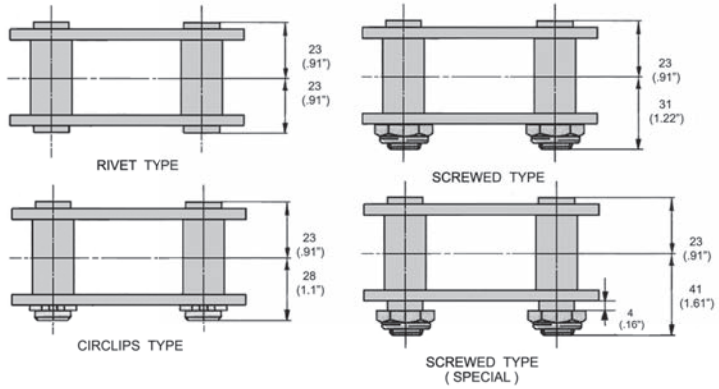
Hollow pin

Chain No.	p	b1	d1	d2	d5/d6	d7	F1	F3	h	s	FB	q
	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	kN / Lb	kg/m
		min.		O		min.					min.	
GH8403HP	76,20	19,00	19,05	23,60	47,60/60	13,60	43,8	46,3	39,0	5,1/3,8	84,0/19160	6,90
GH84035HP	88,90	19,00	19,05	23,60	47,60/60	13,60	43,8	46,3	39,0	5,1/3,8	84,0/19160	6,30
GH8404HP	101,60	19,00	19,05	23,60	47,60/60	13,60	43,8	46,3	39,0	5,1/3,8	84,0/19160	5,90
GH8405HP	127,00	19,00	19,05	23,60	47,60/60	13,60	43,8	46,3	39,0	5,1/3,8	84,0/19160	5,30
GH8406HP	152,40	19,00	19,05	23,60	47,60/60	13,60	43,8	46,3	39,0	5,1/3,8	84,0/19160	4,90
Solidp in											FBh	
GH13403	76,20	19,00	19,05	23,60	47,60/60	-	43,8	46,3	39,0	5,1/3,8	134,0/30450	7,60
GH134035	88,90	19,00	19,05	23,60	47,60/60	-	43,8	46,3	39,0	5,1/3,8	134,0/30450	7,00
GH13404	101,60	19,00	19,05	23,60	47,60/60	-	43,8	46,3	39,0	5,1/3,8	134,0/30450	6,40
GH13405	127,00	19,00	19,05	23,60	47,60/60	-	43,8	46,3	39,0	5,1/3,8	134,0/30450	5,70
GH13406	152,40	19,00	19,05	23,60	47,60/60	-	43,8	46,3	39,0	5,1/3,8	134,0/30450	5,20

F1 = Riveted pin F3 = Connector pin FB = solid pin / FBh = hollow pin

Connecting Links





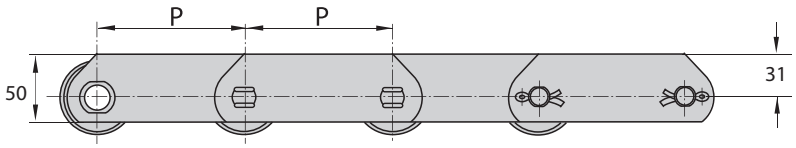
Integral K-attachments or Welded K-attachments

K1 - 1 HOLE K2 - 2 HOLES K3 - 3 HOLES

TYPE	PITCH mm	A mm	B mm	Extra mass kg/each
K1	76,20	28,0	-	0,08
K3	101,60	56,0	31,8	0,16
K3	152,40	84,0	57,2	0,23
K2	203,20	127,0	88,9	0,36

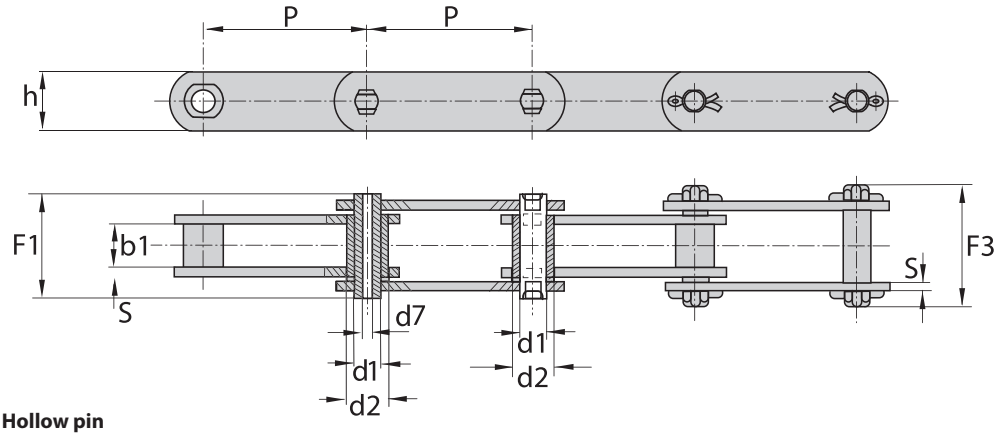
Other distances of holes available as well as attachments on one or both sides.
All types of conveyor chains also available without rollers.

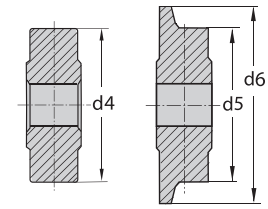
Deep link chain



CONVEYOR CHAINS

Hollow pin and solid pin conveyor chains with attachments (British standard)

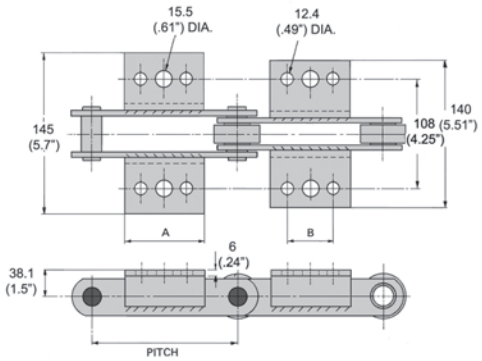




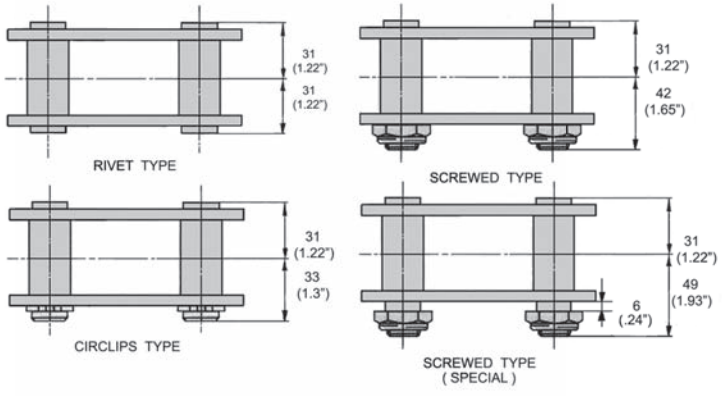
Hollow pin

Chain No	p	b1	d1	d2	d5/d6	d7	F1	F3	h	s	FB	q
	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	kN/lb	kg/m
		min.		O		min.					min.	
GH21504HP	101,60	25,40	26,90	33,20	66,70/85	20,10	56,5	61,5	52,0	7,1/5,1	215,0/48805	12,70
GH21505HP	127,00	25,40	26,90	33,20	66,70/85	20,10	56,5	61,5	52,0	7,1/5,1	215,0/48805	11,20
GH21506HP	152,40	25,40	26,90	33,20	66,70/85	20,10	56,5	61,5	52,0	7,1/5,1	215,0/48805	10,90
GH21508HP	203,20	25,40	26,90	33,20	66,70/85	20,10	56,5	61,5	52,0	7,1/5,1	215,0/48805	8,90
Solid pin											FBh	
GH26804	101,60	25,40	26,90	33,20	66,70/85	-	56,5	61,5	52,0	7,1/5,1	268,0/60835	14,20
GH26805	127,00	25,40	26,90	33,20	66,70/85	-	56,5	61,5	52,0	7,1/5,1	268,0/60835	12,40
GH26806	152,40	25,40	26,90	33,20	66,70/85	-	56,5	61,5	52,0	7,1/5,1	268,0/60835	11,20
GH26806	203,20	25,40	26,90	33,20	66,70/85	-	56,5	61,5	52,0	7,1/5,1	268,0/60835	9,70

F1 = Riveted pin F3 = Connector pin FB = solid pin / FBh = hollow pin



Connecting Links



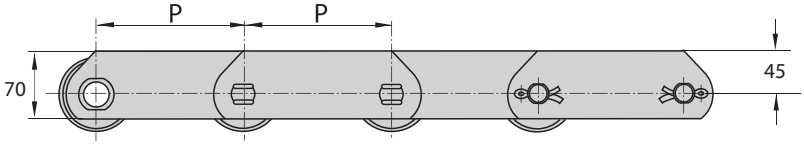
Integral K-attachments or Welded K-attachments

K1 - 1 HOLE K2 - 2 HOLES K3 - 3 HOLES

TYPE	PITCH mm	A mm	B mm	Extra mass kg/each
K1 & K2	101,60	56,0	31,8	0,30
K3	152,40	84,0	57,2	0,45
K2	203,20	127,0	88,9	0,62
K2	304,80	168,0	133,4	0,91

Other distances of holes available as well as attachments on one or both sides.
All types of conveyor chains also available without rollers.

Deep link chain



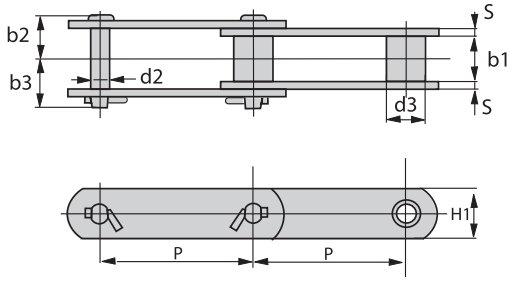
Special scraper chains pitch 315 mm till 1000T/h.
Cement, coal, ore, phosphate etc..

Dimensions

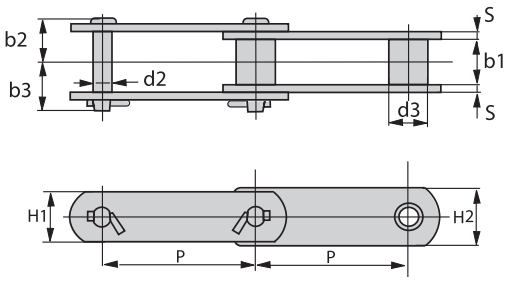
Heavy-duty type conveyor chains are high-strength chains developed for large bucket elevators and flow conveyors. Compared to regular conveyor chains, the bearing areas of pins, bushings and rollers are secured to achieve high wear resistance. Precision machining ensures high performance. These high quality large conveyor chains have excellent tensile strength, fatigue strength and shock resistance, and can be used for long periods of time.

The heavy-duty H type has equal-height inner and outer plates, and even if the chain runs while the sliding plates directly contact the floor, plate wear is minimized. This type is suitable for a flow conveyor.

The heavy-duty Z type has inner plates of larger height, balance inner and outer plate strength, and decrease the ratio of weight to strength. This type is suitable for vertical conveyance such as a bucket elevator or parking chain.



Heavy-duty H type chain



Heavy-duty Z type chain

Dimension of heavy-duty H type and Z type conveyor chains

Chain No.	Ultimate Tensile Strength kN (kgf)	Height of Inner & Outer Plate H1	Approx. Weight (kg/m)
200M35H	323 (33,000)	50	12.2
250M35H			11.2
200M50H	490 (50,000)	65	17.0
225M50H			16.2
250M50H			15.5
300M50H			14.5
200M75H	735 (75,000)	80	30.0
250M75H			27.0
300M75H			25.0
350M75H			23.7
250M100H	980 (100,000)	90	41.2
300M100H			38.2
350M100H			35.9
250M120H	1,176 (120,000)	100	48.6
300M120H			44.8
350M120H			41.8
400M120H			39.9
300M140H	1,372 (140,000)	115	54.2
350M140H			50.5
400M140H			47.8
300M160H	1,569 (160,000)	120	66.9
350M160H			62.8
400M160H			58.9
350M200H	1,961 (200,000)	140	76.1
400M200H			71.9
450M200H			68.3
350M250H	2,451 (250,000)	150	99.0
400M250H			90.0
500M250H			77.4

Chain No	Ultimate Tensile Strength kN (kgf)	Height of Inner & Outer Plate H2	Approx. Weight (kg/m)
200M35Z	392 (40,000)	57	12.7
250M35Z			11.7
200M50Z	588 (60,000)	75	17.7
225M50Z			16.9
250M50Z			16.2
300M50Z			15.2
200M75Z	931 (95,000)	90	31.2
250M75Z			28.0
300M75Z			26.0
350M75Z			24.6
250M100Z	1,225 (125,000)	100	42.5
300M100Z			39.5
350M100Z			37.2
250M120Z	1,470 (150,000)	115	50.6
300M120Z			46.8
350M120Z			43.7
400M120Z			41.6
300M140Z	1,667 (170,000)	125	55.5
350M140Z			51.8
400M140Z			49.1
300M160Z	1,863 (190,000)	130	68.4
350M160Z			63.8
400M160Z			60.3
350M200Z	2,255 (230,000)	150	77.5
400M200Z			73.3
450M200Z			70.0
350M250Z	2,843 (290,000)	165	101.6
400M250Z			92.5
500M250Z			79.8

Pitch P	Roller Link Width b1	"A" Roller d3	Pin d2	Pin b2	Pin b3	Thickness of Plate S
200	51,8	44,5	22,2	53,8	60,2	9
250						
200	57.6	50.8	25.4	57.3	64.2	9
225						
250						
300						
200	67.4	63.5	31.75	70.0	78.0	12
250						
300						
350						
250	75	70	35	83.2	90.8	16
300						
350						
250	82.5	75	38.5	88.0	95.5	16
300						
350						
400						
300	85	82	41.75	90.2	99.3	16
350						
400						
300	92,5	86	44,5	101,2	110,3	19
350						
400						
350	95	97	50,8	103,5	114	19
400						
450						
350	100	107	56	113	123	22
400						
500						

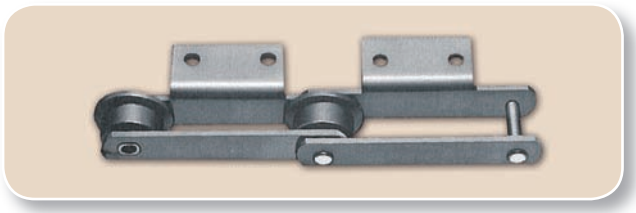
Note:
Height of outer plate of heavy-duty Z type conveyor chain is the same figure as H1 of inner and outer plate height of heavy- duty H type conveyor chain.

Standard attachments for standard conveyor chains

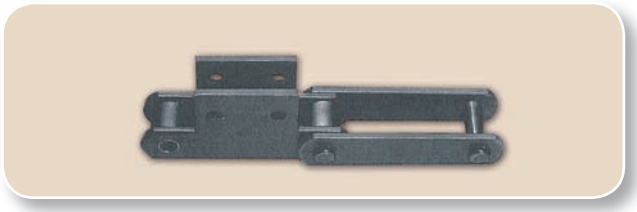
For "GEHA regular conveyor chains", variously shaped links are available to allow attachments designed by customers to be directly mounted on the chains.
The following standard attachments are available.

For the applicable chain sizes, see the lists of applicable attachments.
The number following the letter indicates the number of bolt holes.
Example: A 2 = One side bent attachment with two bolt holes.

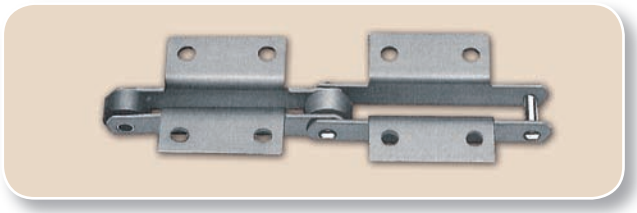
A **Attachment**



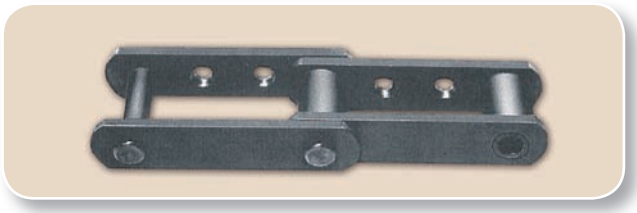
SK **Attachment**



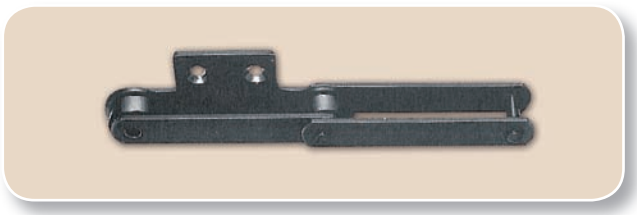
K **Attachment**



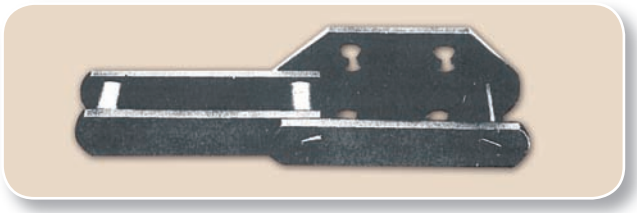
G2 **Attachment**



SA **Attachment**

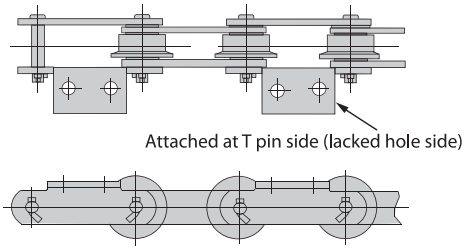


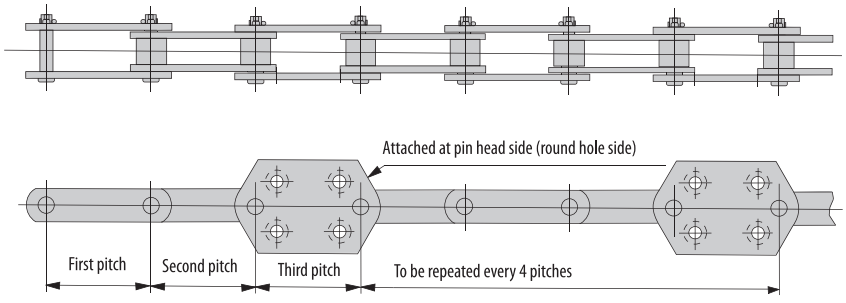
G4 **Attachment**



Composition of chain with attachments

The standard composition of a chain with attachments is as described below. If you design a special composition, please consult us.
1) When the attachments are installed for even-numbered links, they are installed on the outer links.
2) When attachments are installed on one side, like A2 or GA2 attachments, they are installed on the T-pin side. However, G4 attachments are installed on the pin head side. In the case of flanged roller conveyor chain, the flanges of rollers are installed on the T-pin side.
3) If the attachments installation intervals are every three links or more, the first attachment is installed at the 3rd link from the tip of the chain, and this installation is repeated.





Bearing assembled roller type conveyor chain

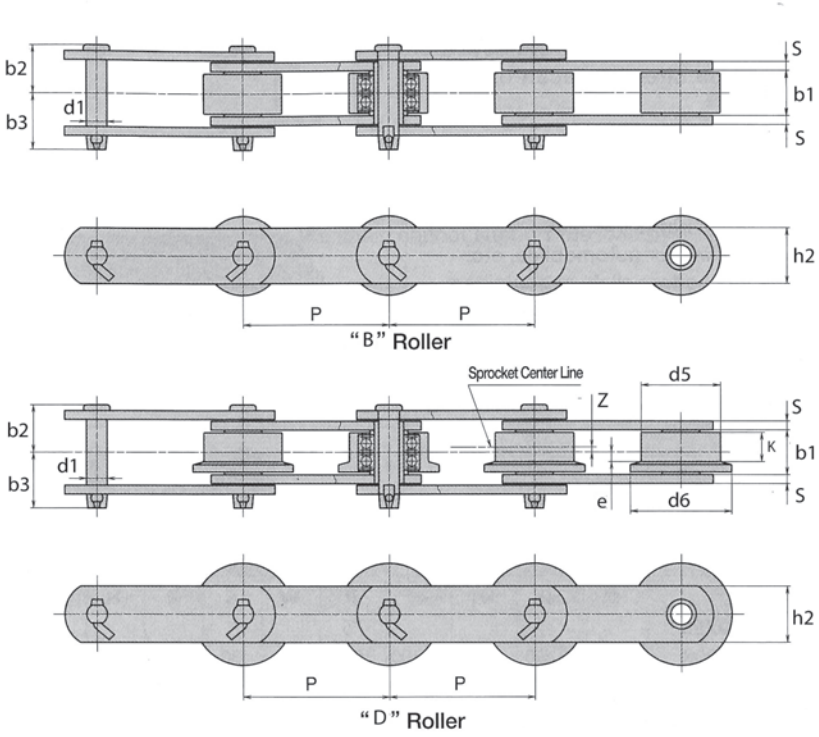
This is a chain with bearings built into the rollers. Since the rolling friction of rollers is small, the drive loss of the chain is small, and the allowable load of rollers is large. So, a chain smaller than a regular conveyor can be selected.

• The base chain is the same as an R roller of F roller type regular conveyor chain.

• The sprockets of a regular conveyor chain can be used.

• The dimensions of attachments are also the same as those of a regular conveyor chain.

• Coefficient of rolling friction f = 0.035



Unit (mm)

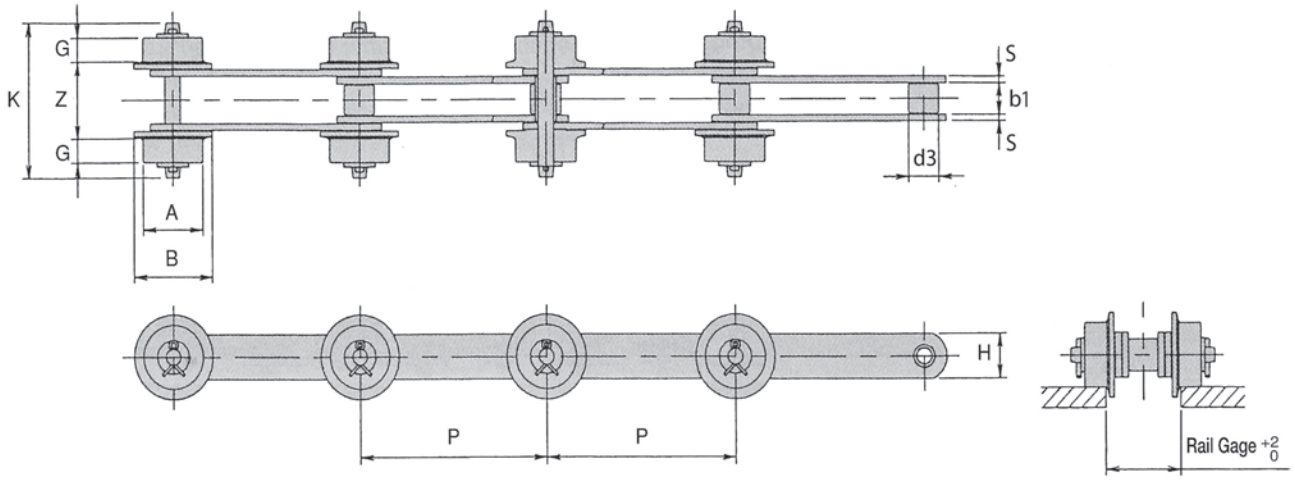
Chain No.		Ultimate tensile strength				Pitch	Roller width link	"B" Roller	"D" Roller					Pin			Plate		Roller allowable load kgt/pc	Approx. weight kg/m	
		Normal		Heavy Duty																	
Chain Roller	Size Type	kN	kgf	kN	kgf	P	b1	d4	d5	d6	K	Z	e	d1	b2	b3	S	h1		"B" Roller	"D" Roller
GH10011 BR,BF		112	11,500	225	23,000	100	30.6	50	50	65	20.5	3.5	6.5	14	32.6	38.0	6	38	930	9.6	10.1
GH12511 BR,BF						125														8.5	8.9
GH15011 BR,BF						150														7.6	7.9
GH20011 BR,BF						200														6.5	6.8
GH15013 BR,BF		127	13,000	240	24,500	150	36.5	60	60	80	24	4	8	15.9	40.4	47.1	8	38	1,050	10.9	11.6
GH20013 BR,BF						200														9.3	9.8
GH20019 BR,BF		186	19,000	279	28,500	200	36.5	65	65	85	24	4	8	15.9	40.4	47.1	8	45	1,460	11.5	12.1
GH25019 BR,BF						250														10.3	10.8
GH30019 BR,BF						300														9.5	10.0
GH20025 BR,BF		245	25,000	392	40,000	200	51.8	80	80	105	35.5	5	12.5	19.1	51.7	59.8	9	50	2,100	18.2	19.5
GH25025 BR,BF						250														15.9	17.0
GH30025 BR,BF						300														14.5	15.3
GH20032 BR,BF		313	32,000	500	51,000	200	57.6	100	100	130	39	6	13.5	22.2	55.7	62.8	9	65	3,680	28.2	30.2
GH25032 BR,BF						250														24.6	26.2
GH30032 BR,BF						300														22.0	23.4
GH45032 BR,BF						450														17.8	18.7
GH25050 BR,BF		490	50,000	686	70,000	250	67.4	125	125	160	44	7	15	25.4	68.1	74.9	12	80	4,600	42.7	45.8
GH30050 BR,BF						300														38.0	40.4
GH45050 BR,BF						450														30.3	31.9
GH15211 BR,BF		112	11,500	171	17,500	152.4	30.8	50.8	50.8	65	21	3	7.5	12.7	32.2	37.6	6	38	930,000	7.4	7.9
GH15219 BR,BF		186	19,000	279	28,500	152.4	36.5	57.2	57.2	75	24	4	8	15.9	40.4	47.1	8	45	1,050	11.8	12.2
GH15225 BR,BF		245	25,000	392	40,000	152.4	37.5	69.9	69.9	90	25	4	8.5	19.1	44.6	52.9	9	50	1,480	16.4	17.3

Conveyor chain with side rollers

This chain is based on S roller type conveyor chain, and has flanged side rollers installed on extended pins on both sides. It is engaged with the sprockets at the central rollers, and runs using the side rollers. It can be manufactured by using the same materials as those of a regular conveyor chain.

When you order:
Please specify the name of series, version symbol and the installation intervals of side rollers.

Application
1. When plates are specially shaped to accommodate such devices as dogs or top plates.
2. When the chain cannot support the load by its central rollers only.
3. To stably convey articles with high in gravity center.
4. To install chain float prevention guides.



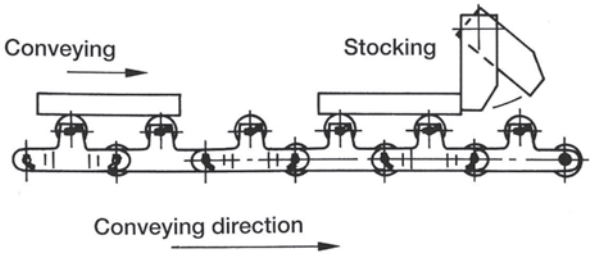
Unit (mm)

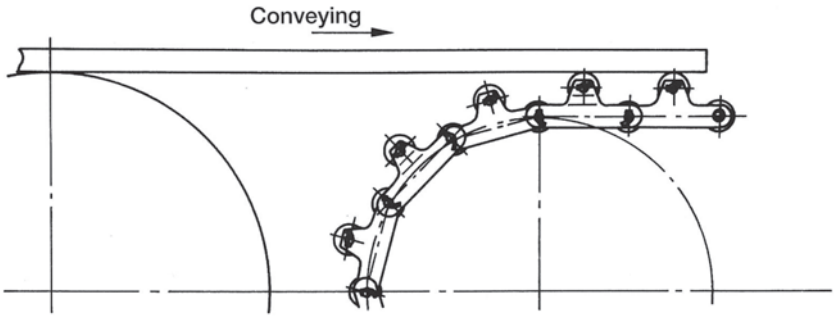
Chain No.	Pitch P	Roller dia. d3	Roller Link width b1	Plate		Side roller			K	Z	Rail gage	Added weight of side roller per pc. (kg)
				Thickness S	Height H	C A	Q1 B	Q2 G				
GH75S030-SR	75	15.9	15.9	3.2	22.2	30	40	12	76	38	40	0.3
GH005031-SR	100											
GH01S051-SR	101.6	20	22	05	25	40	50	15	102	55	57	0.6
GH01S051-SR	75	22.2	22	4.5	32	40	50	15	102	55	57	0.6
GH00S071-SR	100											
GH50S071-SR	150											
GH01S081-SR	101.6	22.2	27.6	6	28.6	45	60	16	120	70	72	0.8
GH00S111-SR	100	28.8	30.6	6	38	80	65	20	133	75	77	1.2
GH50S111-SR	150											
GH52S191-SR	152.4	34.9	36.5	8	45	60	80	24	165	92	94	1.8
GH00S192-SR	200	34.9	36.5	8	45	65	85	24	165	92	94	2.0
GH50S192-SR	250											
GH00S252-SR	200	40.1	51.8	9	50	65	85	24	186	112	114	2.0
GH50S252-SR	250											
GH00S253-SR	300											
GH00S322-SR	200	44.5	57.6	9	65	80	100	35.5	222	124	126	4.8
GH50S322-SR	250											
GH00S323-SR	300											
GH50S502-SR	250	50.8	67.4	12	80	100	125	39	260	150	152	8.4
GH00S503-SR	300											
GH50S504-SR	450											

Note: Basis specification is identical to normal spec. conveyor chain.

Accumulation conveyor chain with top rollers

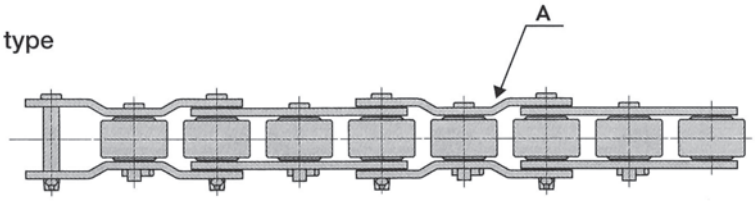
This is a chain for conveying pallets mounted with articles on the rollers installed at the top of the chain as illustrated on the right.
Pallets usually travel with the chain, but can also be stopped by a stopper. In this case, the chain is a "chain for a free flow conveyor" in which the chain runs while top rollers rotate idly.
A top roller conveyor chain is available either as TR1 type or TR2 type.

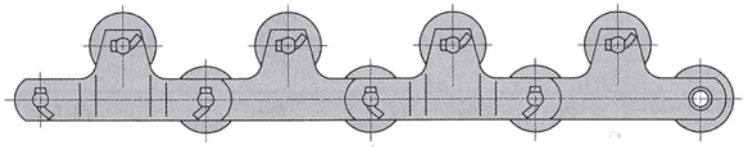




To make the distance between the two opposite plates suit the width of a top roller, the plates are bent at portion A.

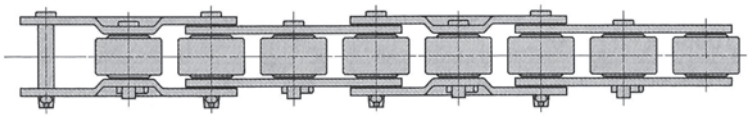
TR1 type



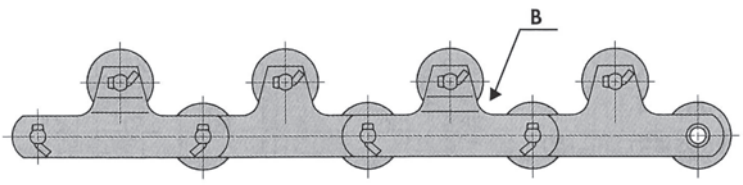


To make the distance between the two opposite plates suit the width of a top roller, the plates are bent at portion B.

TR2 type

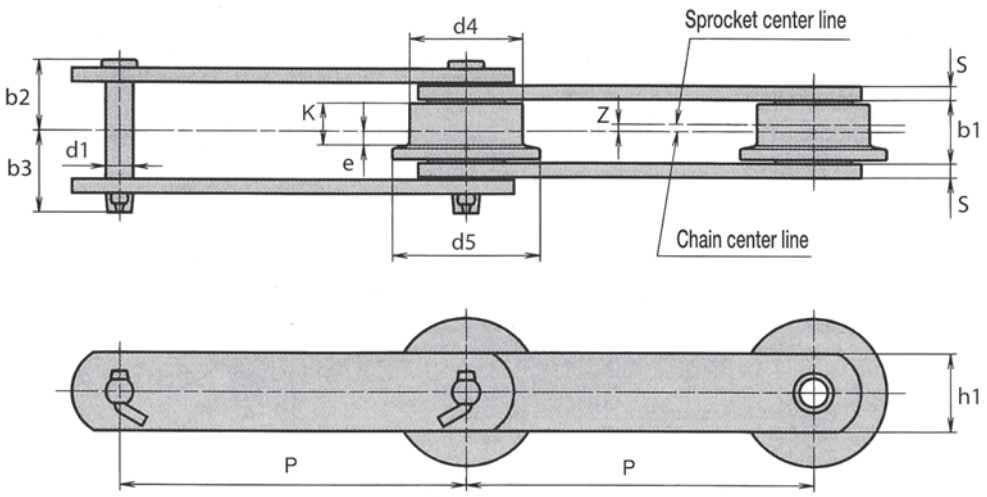


The chain is based on a regular conveyor chain.



Chain for garbage conveyors

This conveyor chain is recommended for apron conveyors, scraper conveyors, and other systems conveying industrial waste in a recycle center, household refuse or ash in an incineration plant. It is designed to ensure that even if miscellaneous objects penetrate roller bearing portions, the rollers continue to rotate smoothly.
In addidtion to standard chains, custom-made chains with enhanced wear resistance and corrosion resistance to meet the requirements of special service conditions can be manufactured on request.



Unit (mm)

Chain No.	Ultimate tensile strength		Pitch	Roller link width	Roller					Pin			Plate		Approx. weight
	kN	kgf	P	b1	d4	d5	K	Z	e	d1	b2	b3	S	h1	(kg/m)
GH5S0307-SR	112	11,500	125	30.6	50	65	20	3.5	6.5	14	32.6	38.0	6	38	8.9
GH050310-SR			150												7.9
GH5S0307-SR	186	19,000	200	36.5	65	85	24	4	8	15.9	40.4	47.1	8	45	12.1
GH050310-SR			250												10.8
GH5S0307-SR	245	25,000	200	51.8	80	105	35.5	5	12.5	19.1	51.7	59.8	9	50	19.5
GH050310-SR			250												17.0
GH050310-SR			300												15.3
GH5S0307-SR	313	32,000	250	57.6	100	130	39	6	13.5	22.2	55.7	62.8	9	65	26.2
GH050310-SR			300												23.4
GH5S0307-SR	490	50,000	300	67.4	125	160	44	7	15	25.4	68.1	74.9	12	80	40.4
GH050310-SR			450												31.9

Note:
1. It is also possible to make a chain with specific attachments and other type of chains as well as UF roller type.

Shipunloader for ore and coal.

Coil conveyor chain
for steel industry.

Coil carrying chain pitch 630 mm.
- for coils till dia. 1650 mm
- for coils till 40000 kg
- for coils till 600 °C

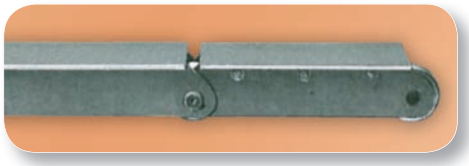
Aluminia coil conveyor chain pitch 630 mm
with PA supporting.

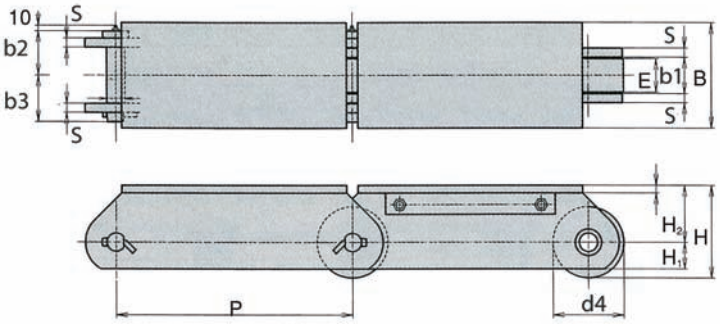
Special chain pitch 600 mm pre-heating brames.
(Oven temp. 500° C)

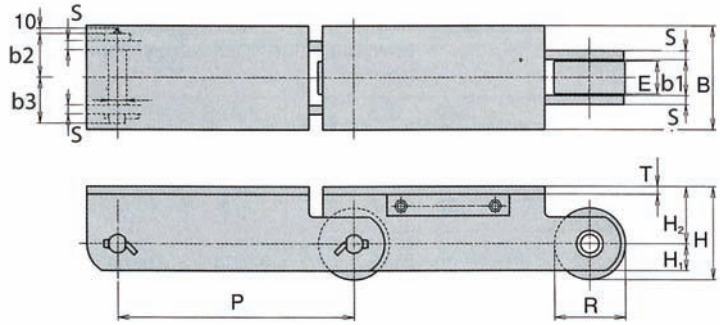
Flat top type chain for coil conveyor

A flat top type chain is designed to carry very heavy loads such as steel coils produced by hot rolling or cold rolling in an ironworks or steel mill. Based on a standard conveyor chain, the top face of the chain allows stable conveyance of heavy coils.
Since a large load acts on the chain, a heavy-duty construction is adopted. We manufacture 16 kinds of standard chains.

The chain features bearings built into the rollers to minimize running resistance, and is available as grease type and mainentance-free non-lubrication type.





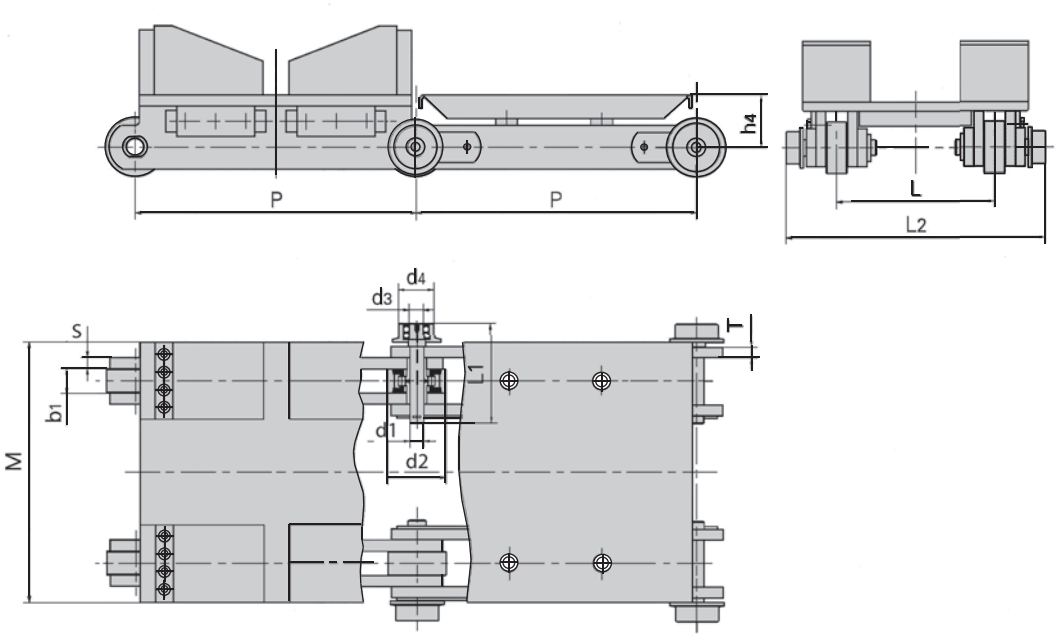


The value marked ※ of non-lubrication type is O.

Unit (mm)

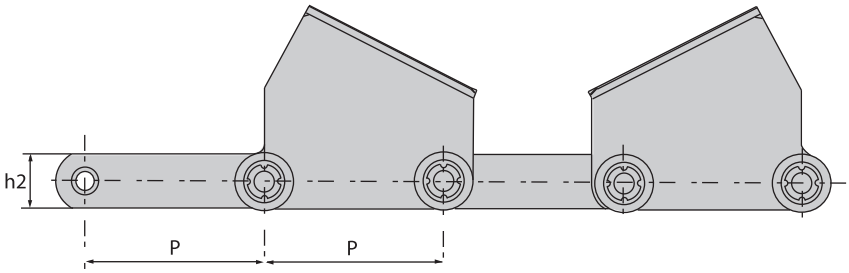
Chain No.	Ultimate tensile strength kN	Ultimate tensile strength kgf	Pitch P	Roller link width b1	Roller d4	Roller E	Pin d1	Pin b2	Pin b3	Plate S	Plate H	Plate H1	Plate H2	Top plate T	Top plate B	Approx. weight (kg/m)	Bearing rated load dynamic C/ Static C kN (kgf)
GH30060	588	60,000	300	60	125	55	28	64.5	72.5	12	154.5	45	92	12	180	63	158 (16,200) /
GH40060			400													58	
GH50060			500													55	133 (13,600)
GH30090	882	90,000	300	62	135	55	30	74.5	81.5	16	177.5	56	110	16	190	90	204 (20,900) /
GH40090			400													83	
GH50090			500													79	164 (16,800)
GH30090W	882	90,000	300	78	135	71	30	82.5	89.5	16	177.5	56	110	16	210	98	243 (24,800) /
GH40090W			400													89	
GH50090W			500													84	233 (23,800)
GH30013	1,274	130,000	300	76	150	70	38.5	89.5	97.5	19	188	63	113	16	210	119	278 (28,400) /
GH40013			400													109	
GH50013			500													102	246 (25,100)
GH60013			600													97	
GH400160	1,569	160,000	400	85	175	80	41.5	95.5	102.5	19	22.5	75	134	19	220	139	304 (31,000) /
GH500160			500													130	
GH 600160			600													122	343 (35,000)

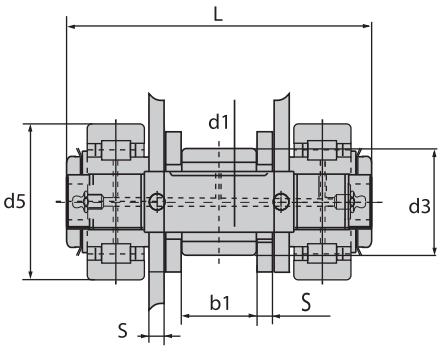
Conveyor chains for steel mill



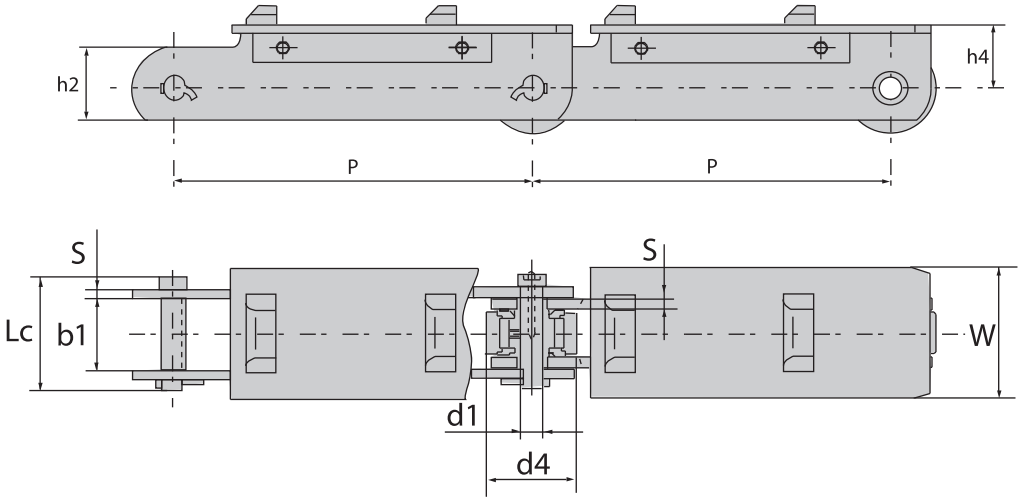
Chain No.	Pitch	Roller diameter		Width between inner plates	Pin diameter		Pin length	Plate thickness	Attachment dimension				Ultimate tensile strength	Weight per meter
	P mm	d2 max mm	d4 max mm	b1 min mm	d1 max mm	d3 max mm	L1 max mm	S max mm	L mm	L2 mm	M mm	h4 mm	Q min kN/LB	q kg/m
GSCP650	650	135,0	85,0	56,0	32,0	35,0	232,0	25,0	420,0	690,0	600,0	120,0	750/168718	214.5

Conveyor chains for steel mill



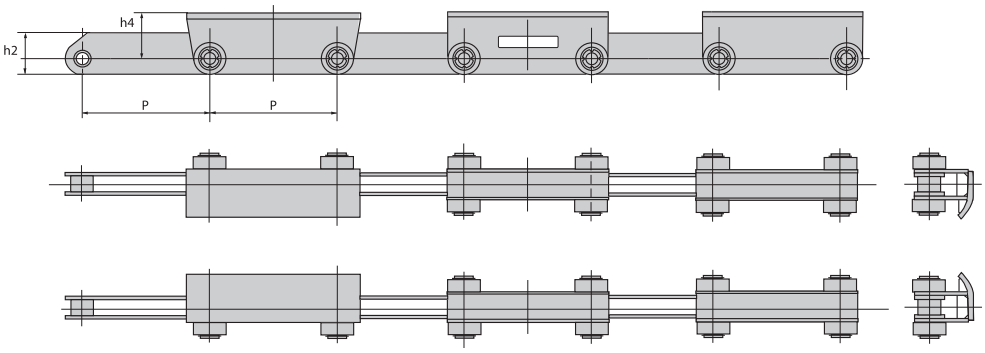


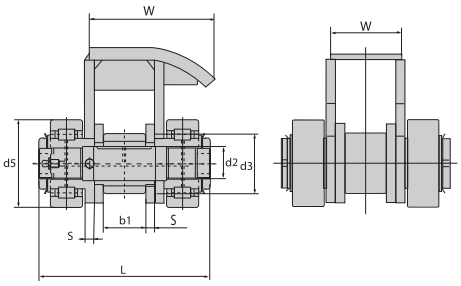
Chain No.	Pitch	Roller diameter		Width between inner plates	Pin diameter	Pin length	Plate thickness	Plate depth	Ultimate tensile strength
	P mm	d3 max mm	d5 max mm	b1 min mm	d1 max mm	L max mm	S max mm	h2 max mm	Q min kN/LB
GSCP500F2	500	107	160	76	62	310	16	150	700/157470



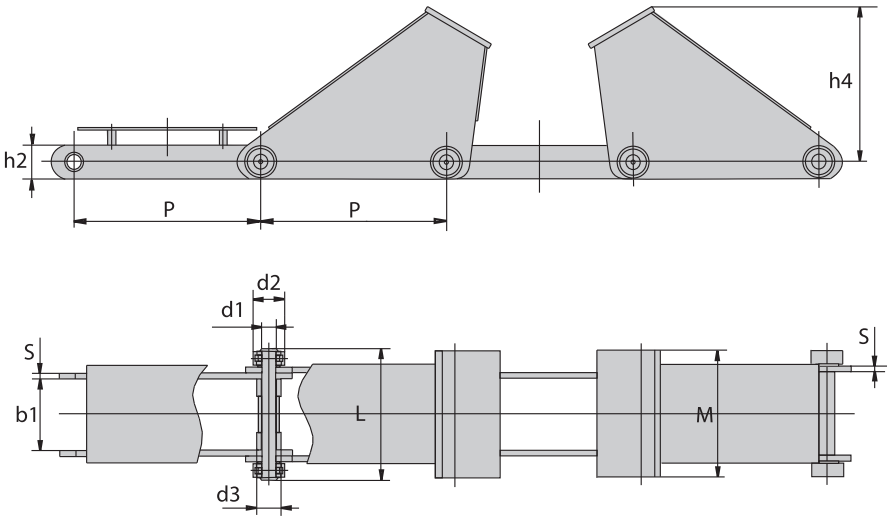
Chain No.	Pitch	Roller diameter	Width between inner plates	Pin diameter	Pin length	Plate depth	Plate thickness	Attachment dimension		Ultimate tensile strength
	P mm	d4 max mm	b1 min mm	d1 max mm	Lc max mm	h2 max mm	s/S max mm	h4 mm	W mm	Qo kN/LB
GSCP600F1	600	150	117	38	187	122	1	105.7	220	1470/330687

Conveyor chains for steel mill



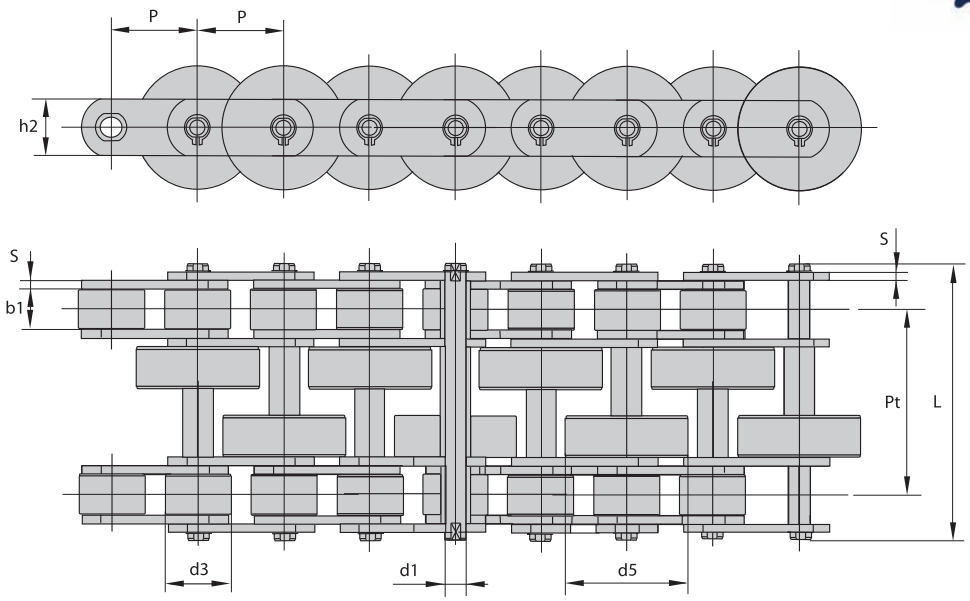


Chain No.	Pitch	Roller diameter		Width between inner plates	Pin diameter	Pin length	Plate thickness	Attachment dimension				Ultimate tensile strength
	P mm	d3 max mm	d5 max mm	b1 mm	d1 max mm	L max mm	S max mm	W mm	M mm	h2 mm	h4 mm	Q min kN/LB
GSCP625	625	107	160	78	62	310	16	227.5	130	200	215	700/157470

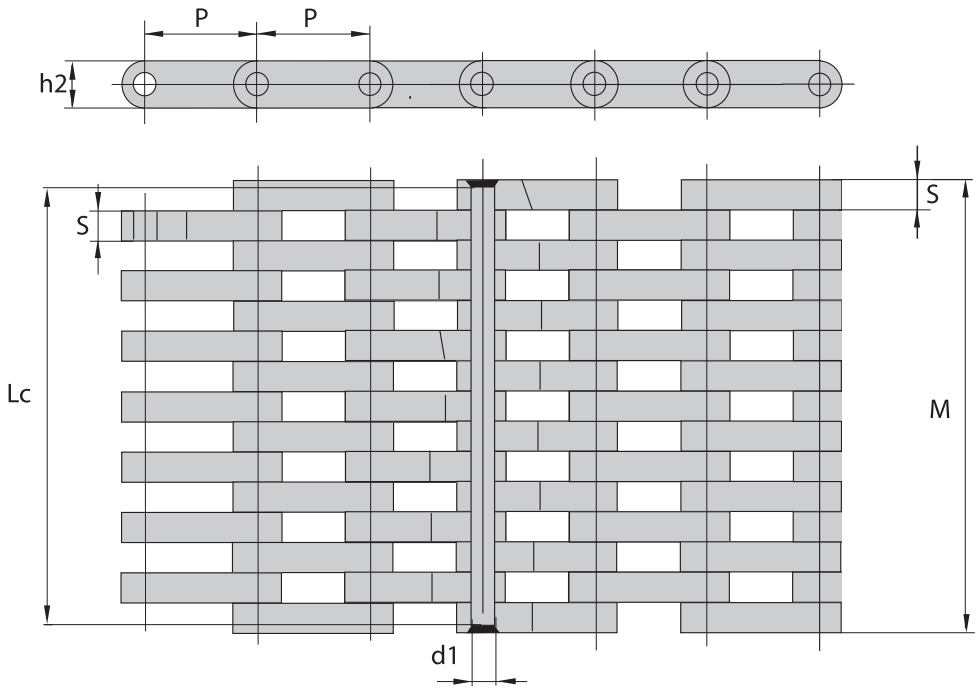


Chain No.	Pitch	Roller diameter		Width between inner plates	Pin diameter	Plate depth	Pin length	Plate thickness	Attachment dimension		Ultimate tensile strength
	P mm	d2 max mm	d3 max mm	b1 min mm	d1 max mm	h2 mm	L max mm	S max mm	h4 mm	M mm	Q min kN/LB
GSCP1000	1.000	170	110	384	80	180	678	30	832	680	1800/404923

Conveyor chains for steel mill

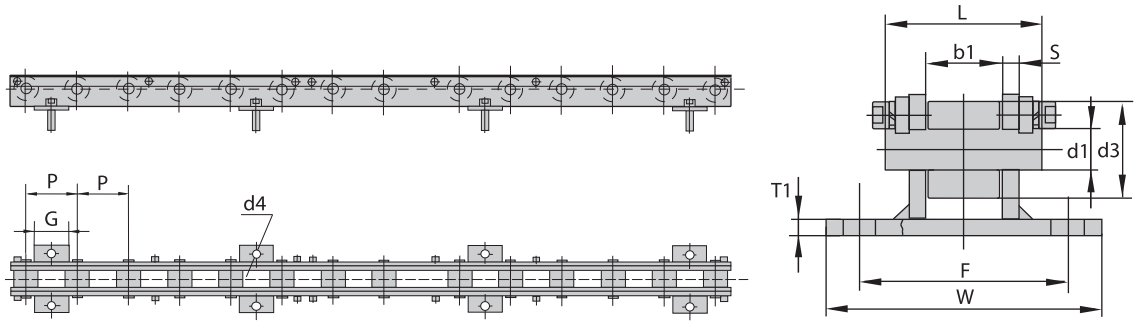


Chain No.	Pitch	Roller diameter		Width between inner plates	Pin diameter	Pin length	Plate thickness	Plate depth	Transverse pitch	Ultimate tensile strength	Weight per meter
	P	d3max	d5 max	b1 min	d1max	L max	S max	h2 max	Pt	Q min	q
	mm	mm	mm	mm	mm	mm	mm	mm	mm	kN/LB	kg/m
GHP63F4	63	48	90	30	15.88	202	6	41	135	200/44991	36.57

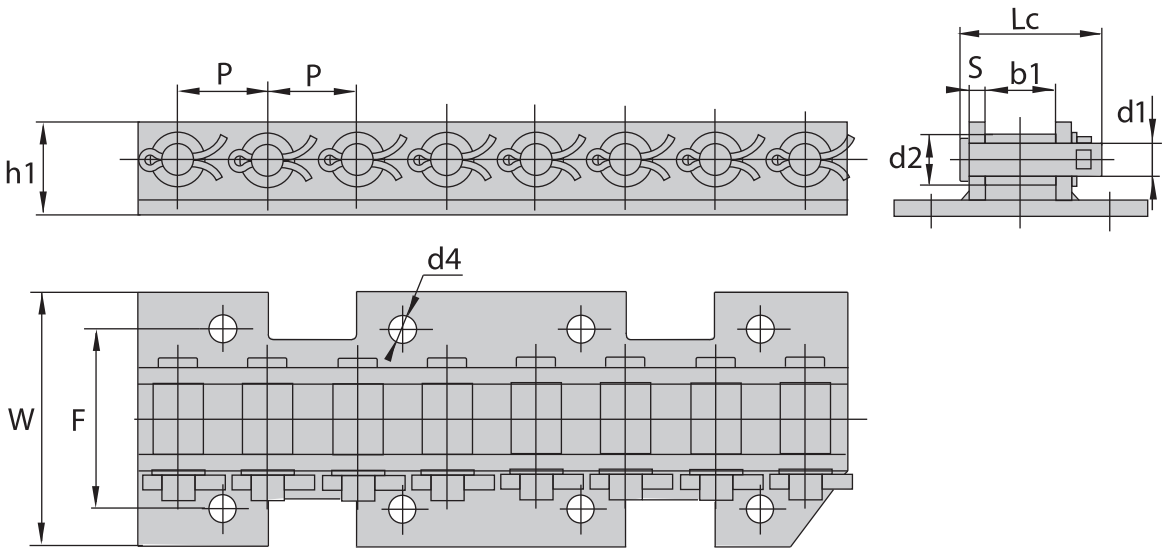


Chain No.	Pitch	Plate lacing	Pin diameter	Pin length	Plate thickness	Plate dimension		Ultimate tensile strength	Average tensile strength	Weight per meter
	P		d1 max	L max	S max	h2	M	Q min	Qo	q
	mm		mm	mm	mm	mm	mm	kN/LB	kN /LB	kg/m
GHLF155	155	7 x 8	31.5	595	40	65	605	3200/71864	3520/791851	202.2

Conveyor chains for steel mill

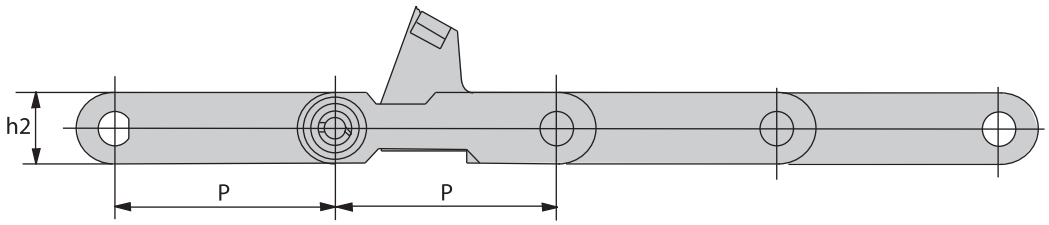


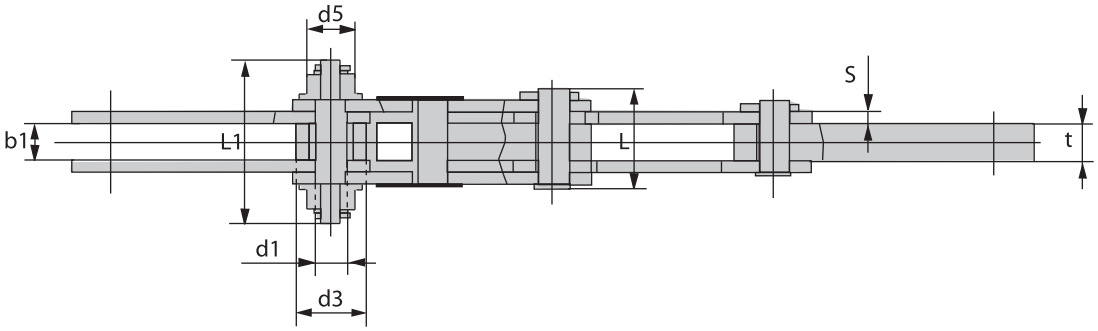
Chain No.	Pitch	Roller diameter	Width between inner plates	Pin diameter	Pin length	Plate thickness	Attachment dimension					Weight per meter
	P	d3	b1	d1	L	Smax	T1	W	F	d4	G	q
	mm	max mm	mm	max mm	max mm	mm	mm	mm	mm	mm	mm	kg/m
GHP75F9	75	35	28	15	56	6	6,0	100,0	76	12	75	22.3



Chain No.	Pitch	Roller diameter	Width between inner plates	Pin diameter	Pin length	Plate thickness	Attachment dimension				Ultimate tensile strength	Weight per meter
	P	d2	b1	d1	L	S	F	W	d4	h1	Q	q
	mm	max mm	min mm	max mm	max mm	max mm	mm	mm	mm	mm	min kN/LB	kg/m
GHP50.8F10	50.8	28.6	40	18.5	80	9	101.6	143.6	15	53	193/43416	11.2

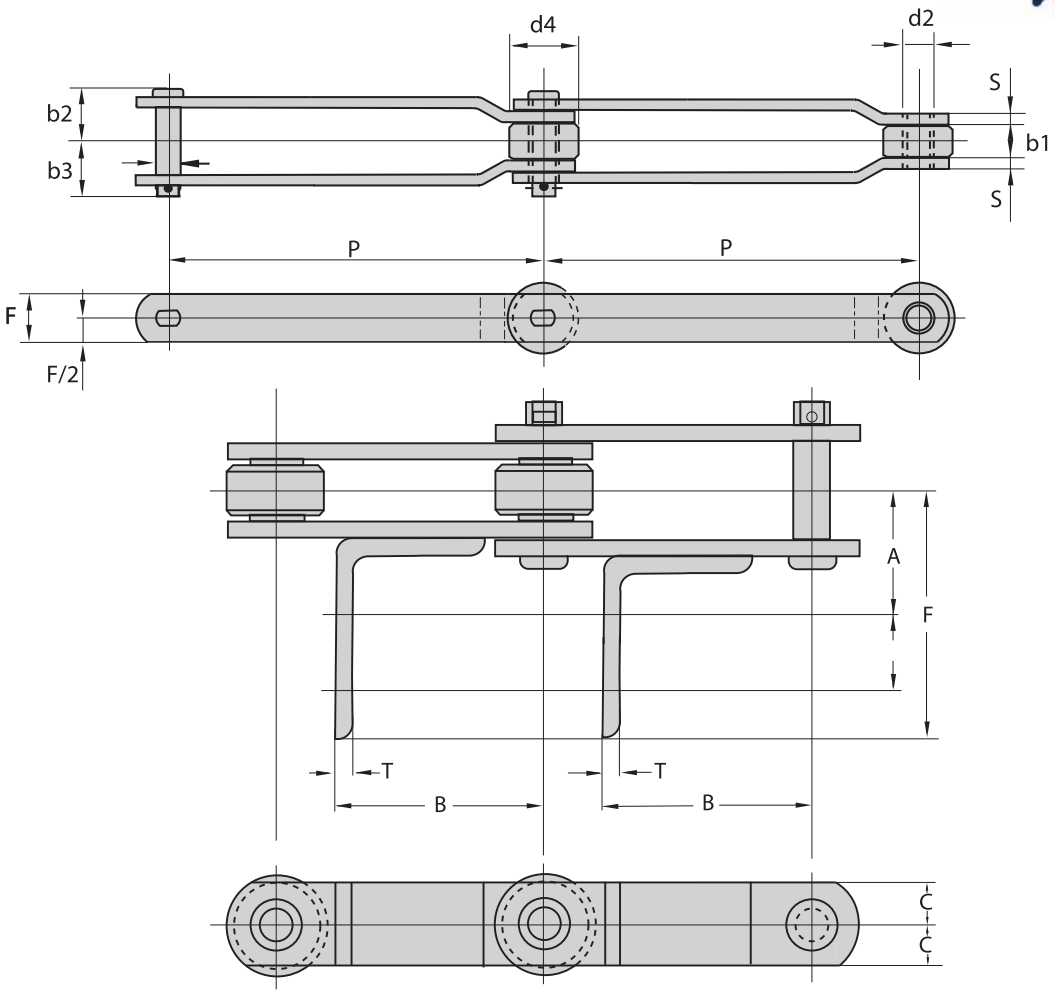
Conveyor chains for steel mill

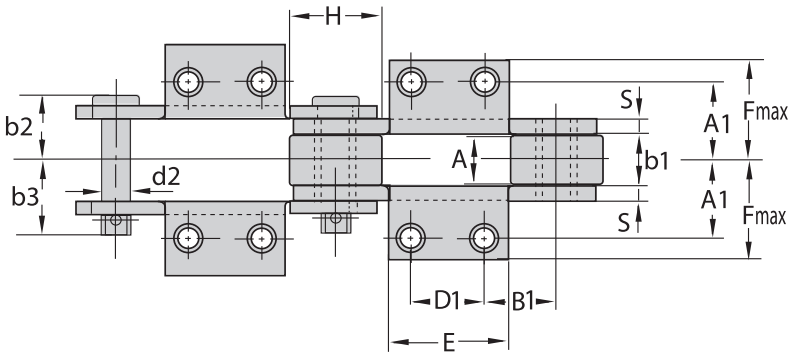


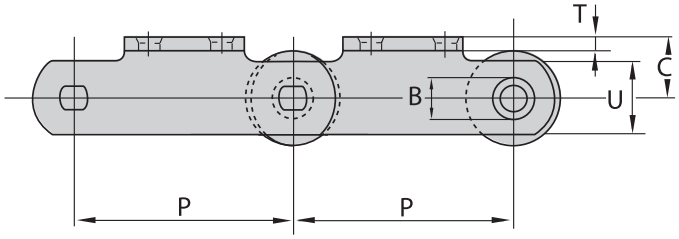


Chain No.	Pitch	Roller diameter		Width between inner plates	Pin diameter	Pin length		Plate thickness	Ultimate tensile strength
	P mm	d3 max mm	d5 max mm	b1 min mm	d1 max mm	L max mm	L1 max mm	S max mm	Q min kN/LB
GHP300F5	300	95	65	50	44	135	222	3	500/112478

Conveyor chains for steel mill



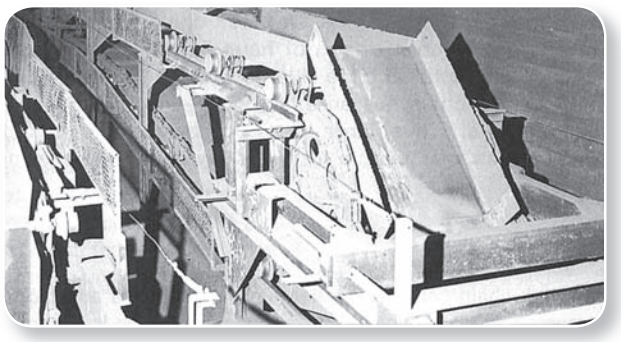


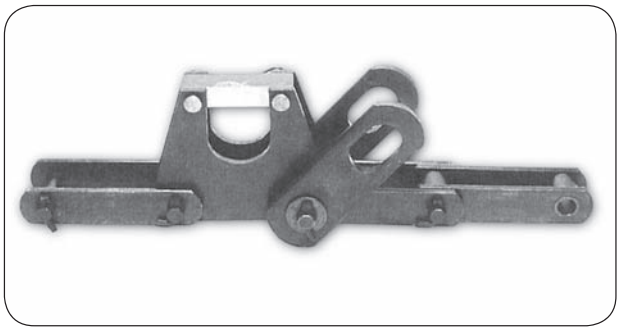


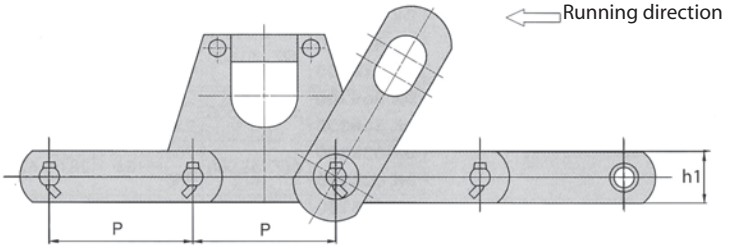
Chain for long pan conveyors

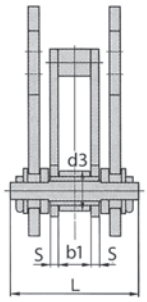
As shown in the photo, this chain is used on a conveyor for carrying bulk, using pans longer than the chain pitch (long pan conveyor). Special attachments are installed to prevent long pans from interfering with the motion of the chain at points of engagement with the sprockets. Furthermore, to keep the entire width of the conveyor, the width of the chain is smaller than a general use chain of the same size, and a smaller pitch is adopted to ensure smooth movement of the conveyor. We manufacture 9 kinds of standard long pan conveyor chains.

A chain for long pan conveyors is suitable for carrying a hard abrasive powder of high temperature, and has attachments for installing pans every four or eight links. Pans are pulled through the pan receiving roller shafts mounted on the attachments. Depending on the installation intervals of attachments, L type (every eight links) and S type (every four links) are available.









L type long pan conveyor chain

Unit (mm)

Chain No.	Ultimate tensile strength kN	Ultimate tensile strength kgf / pc	Pitch P	Roller link width b1	Roller dia. d3	Pin length L	Plate S	Plate h1	Approx. weight (kg /8LX2)
LP160L35	323	33,000	160	36.0	44.5	141.7	9	50	47
LP160L50	490	50,000	160	46.0	50.8	154.1	9	65	63
LP160L75	735	75,000	160	51.4	63.5	187.8	12	80	106
LP160L100	980	100,000	160	55.0	70.0	209.5	16	90	155
LP160L120	1,176	120,000	160	65.0	75.0	221.5	16	100	185

S type long pan conveyor chain

Unit (mm)

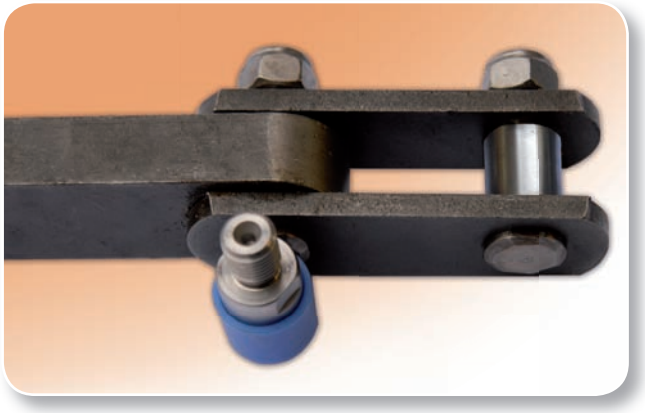
Chain No.	Ultimate tensile strength kN	Ultimate tensile strength kgf / pc	Pitch P	Roller link width b1	Roller dia. d3	Pin length L	Plate S	Plate h1	Approx. weight (kg /8LX2)
LP160S20	205	21,000	160	30.6	28.58	102.5	6	38	17
LP160S35	323	33,000	160	36.0	44.5	141.7	9	50	30
LP160S50	490	50,000	160	46.0	50.8	154.1	9	65	38
LP160S75	735	75,000	160	51.4	63.5	187.8	12	80	62

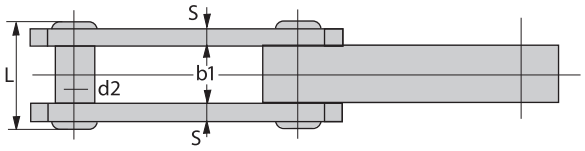
Block chain

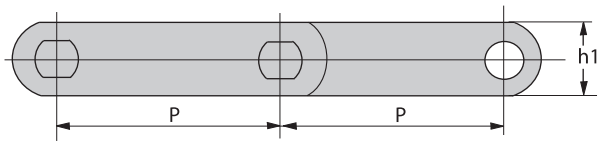
When a certain tensile strength is required for a chain with a standard inner link, a block chain execution is an exellent choise to increase this tensile strength. A block chain is simple and highly rigid since it does not have bushings or rollers. Although the frictional force is large when the chain runs on the flow, the chain has an extended service life because rotating parts.
Thus, large loads can be accommodated. Block chains are suitable for a conveyor accommodating heavy articles with shock loads and conveyors used in severe environments to convey high temperature or corrosion-sensitive objects.
We manufacture 26 kinds of standard block chains in tensile strength ranging form 308 kN (=31.5 topns) to 2,721 kN (=277.5 tons). For enhanced reliability conveyance, block chains with various dogs are designed and manufactured upon request.

(a) Block chain

GEHA Block chain consists of alternate pin-linkplates and blocks connected by pins. This chain is a unique construction and is extremely high in both rigidity and mechanical strength. Also excellent in wear resistance and heat resistance, is suited for dragging as well as for high speed conveyance of materials possibly high in temperature. Usually it is combined with various dogs according to the kind of materials to be conveyed, while it is also possible to load materials directly on the chain or fit the chain with other types of attachments.



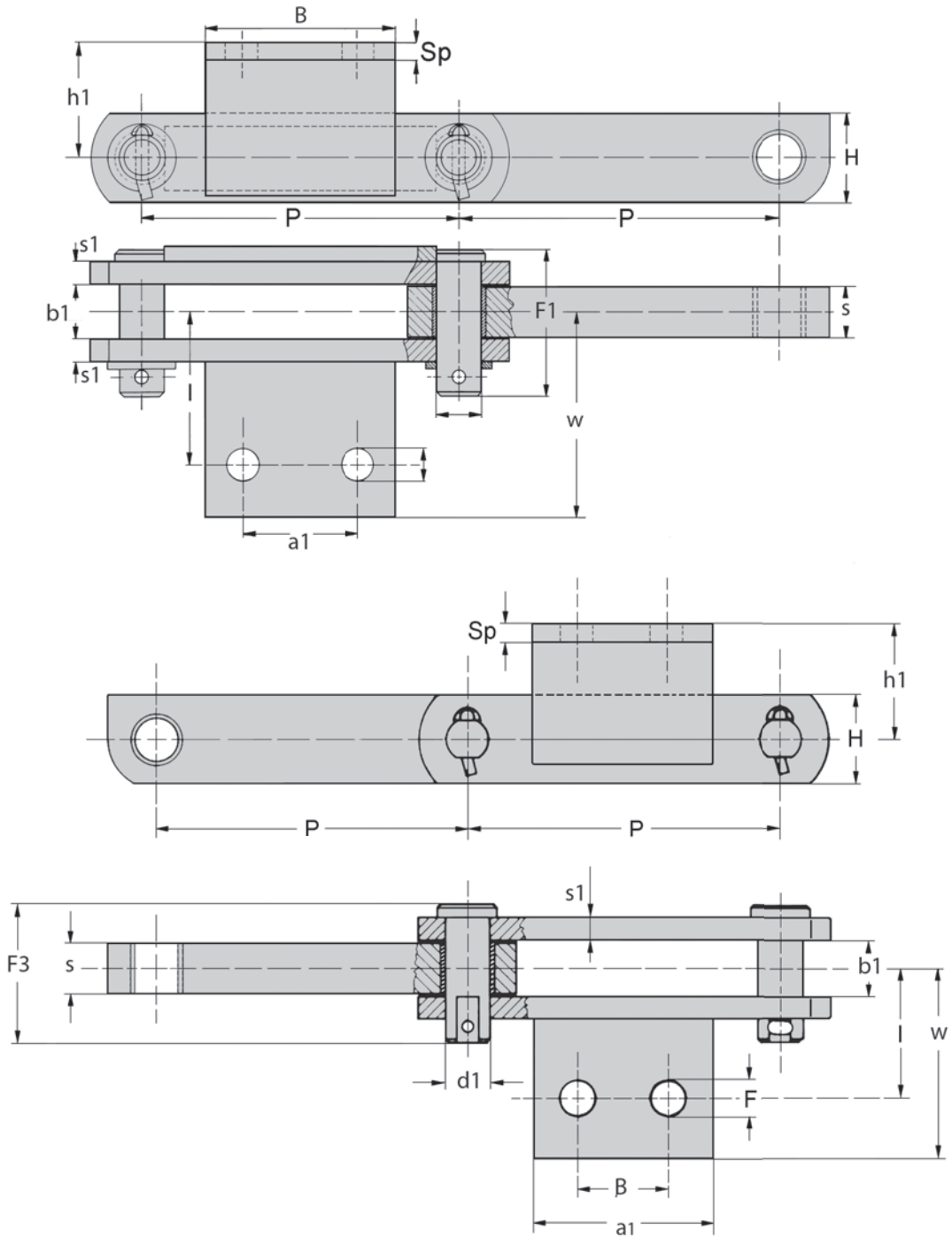




Unit (mm)

Chain No.	Ultimate tensile strength kN	Ultimate tensile strength kgf	Pitch P	Width between inner plates b1	Pin dia.	Pin Length L	Outer plate Thickness S	Outer plate Height h1	Approx. weight (kg /m)
GB15032B	308	31,500	150	24	19.1	48	8	38	7.0
GB20032B			200						6.6
GB15041B	397	40,500	150	27	22.0	52	8	45	9.0
GB20041B			200						8.5
GB20056B	554	56,500	200	30	25.2	58	9	55	12.3
GB25056B			250						12.0
GB20063B	617	63,000	200	34	28.0	62	9	60	13.7
GB25063B			250						13.0
GB25070B	720	73,500	200	34	28.0	62	9	65	16.2
GB25070B			250						16.5
GB20090B	907	92,500	200	40	31.7	75	12	70	21.0
GB25090B			250						20.0
GB250115B	1,117	114,000	250	43	35.0	78	12	75	25.0
GB300115B			300						24.0
GB250140B	1,402	143,000	250	48	38.5	84	12	85	32.0
GB300140B			300						31.0
GB300180B	1,74	177,500	300	53	41.7	96	16	95	39.0
GB350180B			350						37.8
GB300210B	2,152	219,500	300	59	44.5	102	16	110	50.0
GB350210B			350						48.3
GB300250B	2,432	248,000	300	69	50.8	120	19	115	58.8
GB350250B			350						56.7
GB300280B	2,721	277,500	300	74	56.0	125	19	125	66.0
GB350280B			350						62.3

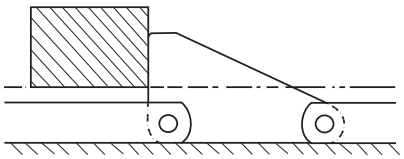
Block chains with attachments



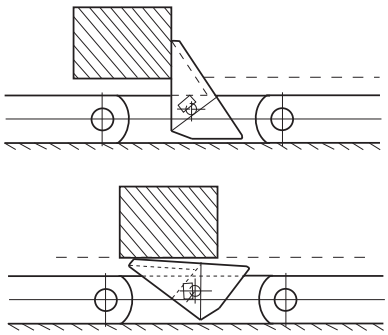
Chain No.	Style	Dimensions														
		pitch	inner width	pin. diam.	height link plate	thickness roller link plate	thickness pin link plate	overall width riveted			hole diam.	thickness attachm.	overall width max			ultimate tensile strength
		P	b1	d1	H	s	s1	F3	B	a1	F	Sp	w	Ha	h1	
		mm	mm	mm	mm	mm	mm	mm	mm	mm	mm					kg
GB250B643	M	250	42	36	70	40	18	110	145	70	25	15	150	55	100	62.000
GB200B644	M	200	22	25	50	20	8	60	110	55	18	10	100	70	53	22.000
GB250B645	V	250	42	36	70	40	20	120	150	70	26	15	165	90	90	64.000
GB250B646	V	200	32	30	60	30	15	95	140	70	26	15	140	85	85	40.000

Types of Dogs

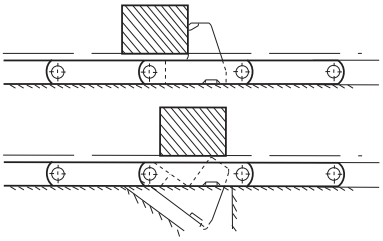
1. Fixed dog
A protrusion is provided on a block or outer plate for conveyance.



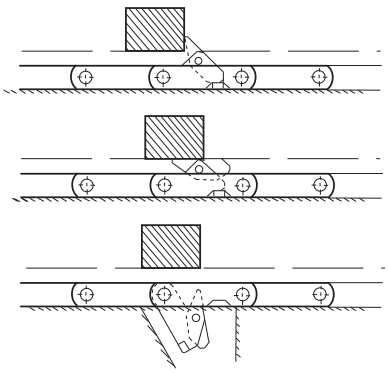
2. Tilt dog
A conveyed article in front of the dog is pushed by a dog, such as a fixed dog. When a conveyed article comes from the rear or when the chain travels reversely, the dog is tilted forward, allowing the article to pass. After the article has passed, the dog automatically returns to its original position.



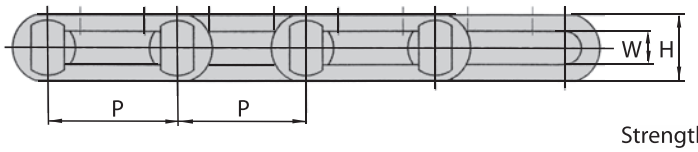
3. Duck dog
A duck dog applies pressure on a conveyed article on a guide rail. At the position where the guide rail ends, the dog ducks leaving the article at that position while passing under it.



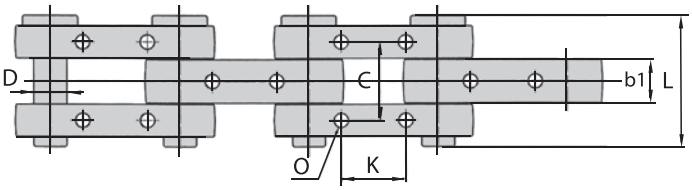
4. Tilt duck dog
A tilt duck dog has both the functions of a tilt dog and a duck dog. As it travels on a guide rail, it maintains pressure on a conveyed article. When a conveyed article comes from the rear, the dog tilts to allow it to pass. At the position where the guide rail ends, it ducks to leave the article at that position, while passing under it.



(b) Special rivetless chain



Strengthened type rivetless chain is also available with the dimensions in the following table.



Unit (mm)

Chain No.	Pitch P	L	D	b1	H	W	K	C	O	Ultimate tensile strength kN	Ultimate tensile strength kgf	Approx. weight (kg/m)
GH100-152	152.4	158	30	45	60	32	64	92	13	980	100,000	28.7

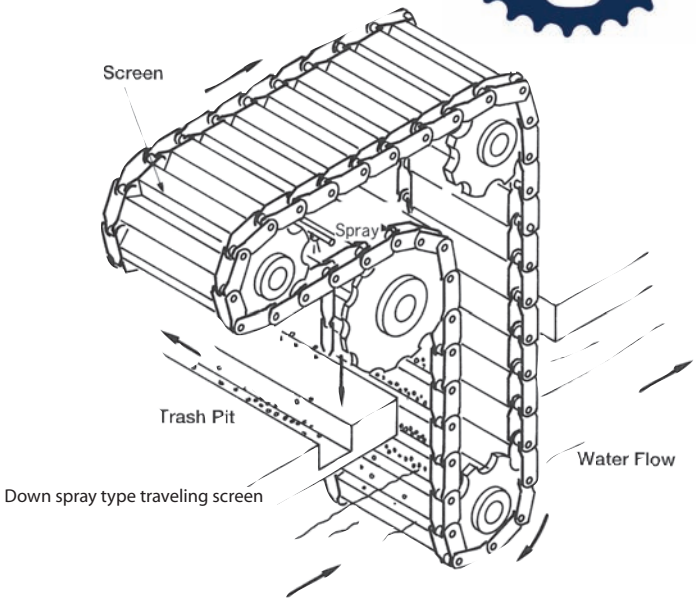
In-water usage conveyor chain

In-Water usage conveyor chains for the following 4 applications are available as standard.

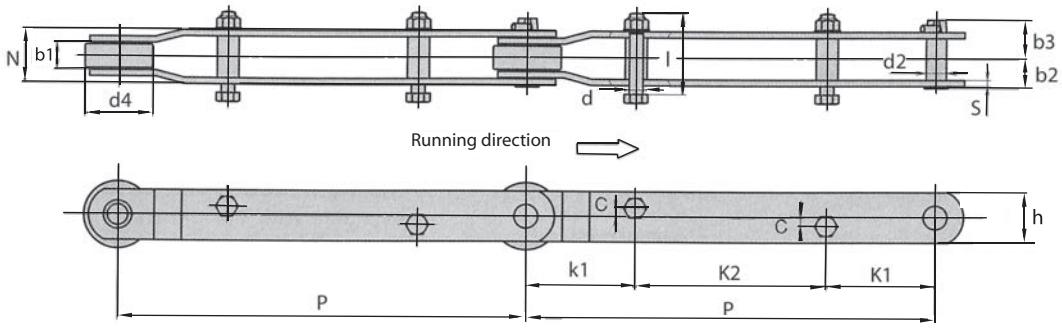
Water purification screen transfer chain

A thermal power plant or nuclear power plant takes in a large quantity of sea water as cooling water. Sea water contains a variety of living organism, such as jelly fish and algae. One of machines used for remove impurities at the intake port is a water purification screen, the frame of which is rotated by a water purification screen transfer chain. Because the chain is used in sea water, resistance to corrosion and brittle fracture are special design considerations.
We have been active in the research and development and manufacture of submersible conveyor chains from the early days of their use.

This is a powerful chain designed to be sufficiently resistant to corrosion, wear and impact so that it can serve the purpose of removing massive trash under severe conditions. It is of the offset type, which can allow lengthening and shortening in units of even a single link.



Chains and sprockets for water purification plants.



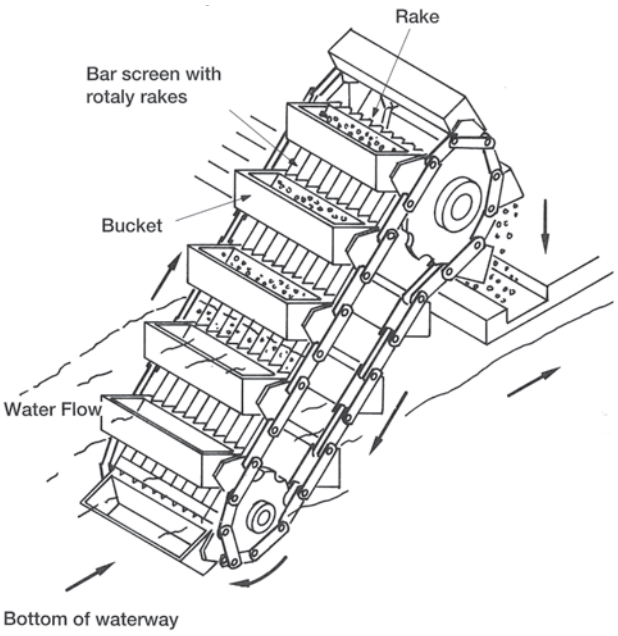
Unit (mm)

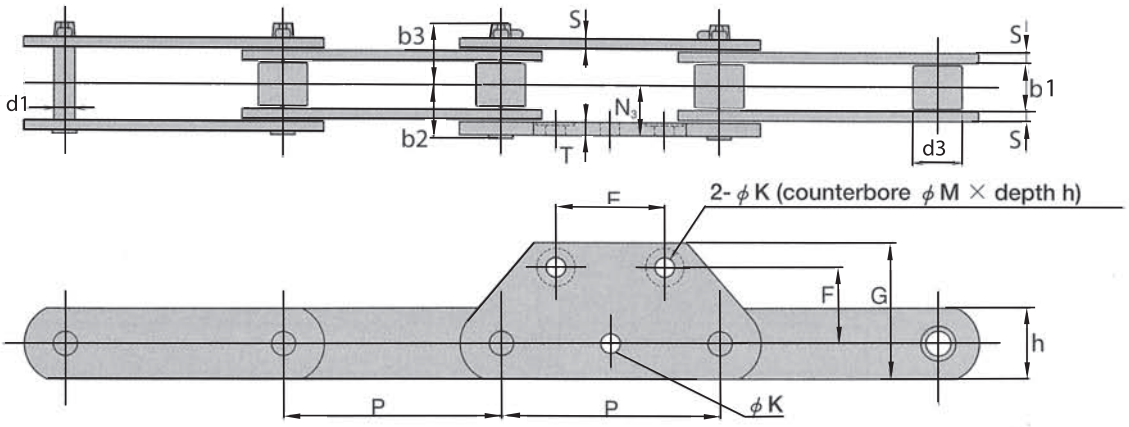
Chain No.	Ultimate tensile strength kN	Ultimate tensile strength kgf	Pitch P	Chain: Inner width b1	Chain: Outer width b2	Roller dia d4	Pin: Dia d1	Pin: Length L1	Pin: Length L2	Plate: Height h	Plate: Thickness s	Bolt: Dia d	Bolt: Length l	Bolt: Position K1	Bolt: Position K2	Bolt: Position C	Weight (kg/L)
WP20545	333	34,000	450	40.3	80	90	20	43	55	65	9	20	116	130	190	13	7.5
WP30560	343	35,000	600	40.3	80	100	30	43	58	75	9	20	116	160	280	13	10.5
WP32560	470	48,000	600	55.2	108	100	32	57	72	80	12	20	144	165	270	13	14.5
WP34560	588	60,000	600	52.6	122	100	34	64	79	80	16	20	158	165	270	13	18.0
WP36560	706	72,000	600	64.6	134	115	36	71	85	95	16	24	175	165	270	13	23.0
WP40560	784	80,000	600	85	166.5	125	40	89	101	100	19	24	215	185	230	13	33.0

Chain for rake use

Another sea water impurity removing machine used for the same purpose as the water purification screen is a bar screen with rotary rakes. The screen is intended to remove impurities more coarse than those removed by the water purification screen. Impurities caught by a fixed bar screen are removed by rakes and deposited into buckets. A chain for rake use moves the rakes and buckets along the bar screen.
As with the water purification screen, resistance to corrosion and brittle fracture are primary design considerations.

This is a rake chain used for bar screen, of which the parts made of stainless steel and the linkplate in particular finished by coating with a special synthetic resin paint to be highly resistant to corrosion as well as wear.





Unit (mm)

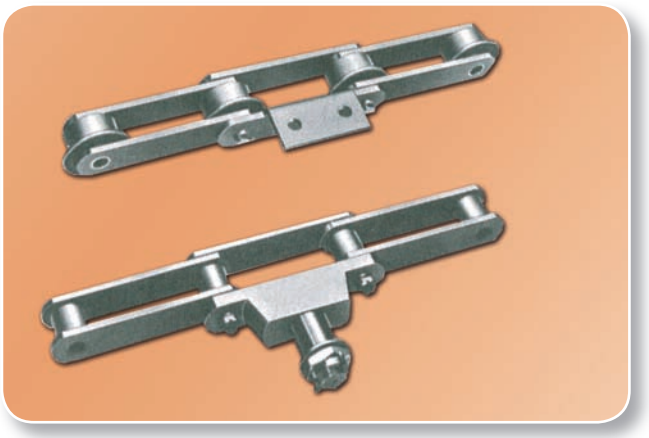
Chain No.	Ultimate tensile strength kN	Ultimate tensile strength kgf	Pitch P	Roller Link width b1	Roller dia. d3	Pin dia d1	Plate Height h	Plate Thickness S	Pin length b2	Pin length b3	Attachment N3	T	E	F	G	K	M	h
SC01920	299	30,500	200	45	45	19	65	9	48	56	45	12	100	70	125	18	35	3
SC02320	392	40,000	200	55	55	23	75	9	53	61	50	12	100	100	165	18	35	3
SC02725	490	50,000	250	55	65	27	80	12	60.5	18.5	57.5	16	180	110	180	22	43	4

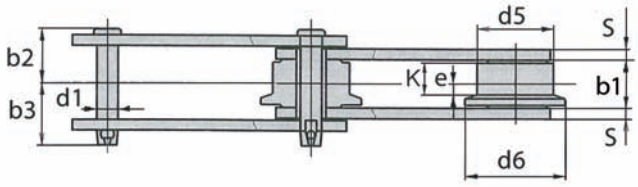
Sewage treatment chain (WS or WAS type chain)

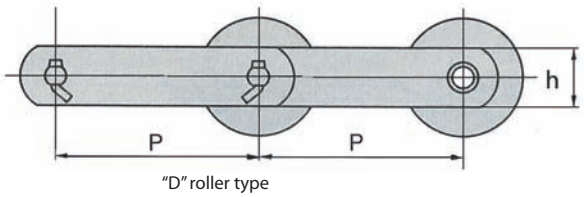
Chains used for collecting deposited sediment in settling basins and sedimentation basins or removing the collected sediment in sewage treatment facilities and other water treatment facilities require especially high resistance to corrosion and wear since they are directly exposed to sewage and sludge. A dirt removing chain is moved vertically at a relatively fast speed on an almost vertically installed rail, though the operation frequency is low.
So, a roller chain such as WS type roller chain is used.
Conversely, a chain for raking up or raking up and out, is driven at a very slow speed and does not require rollers.
So a bushed chain such as WAS type bush chain is used.
Eighteen kinds of WS type and six kinds of WAS type chain are available.

(a) WS type roller chain

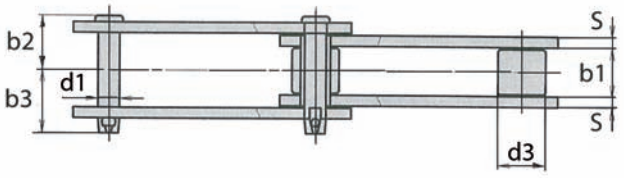
A WS type roller chain is designed to deliver high corrosion resistance and wear resistance for long service in the severe environment of water treatment applications.
Since the operating time of this kind of equipment is relatively short in operation time, pins and bushings of hardened stainless steel and other parts are made of special alloy steel to ensure smooth bending of the chain, and excellent wear and corrosion resistance.

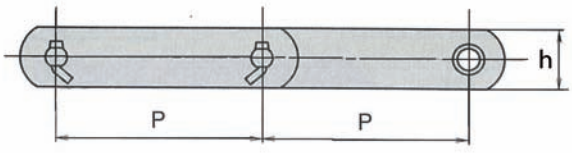






"D" roller type



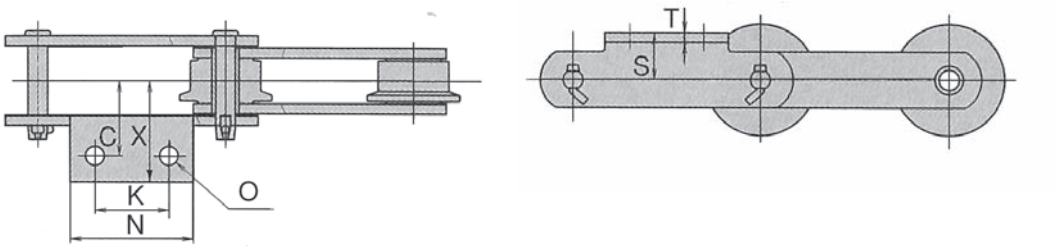


"S" roller type

Unit (mm)

Chain No.	Ultimate tensile strength				Pitch	Roller link width	O Roller dia	D Roller				Pin			Plate		Approx. weight
	Standard type		Anti-corrosion type					Dia	Flange roller dia	Contacting width with rail	Off-center	dia	length		Thick-ness	Height	
	kN	kgf	kN	kgf	P	b1	d3	d5	d6	K	e	d1	b2	b3	S	h	(kg/m)
GF15214 WS	147	15,000	122	12,500	152.4	27.6	-	44.5	60	17	5.5	11.3	31.6	35.0	6	28.6	6
GF15221 WS	215	22,000	176	18,000	152.4	30.6	-	50.8	65	20	6.5	14.5	33.6	38.0	6	38	7.8
GF15228 WS	279	25,500	264	27,000	152.4	36.5	-	65.0	85	24	8.0	15.9	40.4	47.1	8	45	14.8
GF15238WS	382	39,000	323	33,000	152.4	37.5	-	69.9	90	25	8.5	19.1	45.6	52.9	9	50	17.2
GS15214 WS	147	15,000	122	12,500	152.4	27.6	22.2	-	-	-	-	11.3	31.6	35.0	6	28.6	4
GS15221 WS	215	22,000	176	18,000	152.4	30.6	28.8	-	-	-	-	14.5	33.6	38.0	6	38	5.7
GS15228 WS	279	28,500	264	27,000	152.4	36.5	34.9	-	-	-	-	15.9	40.4	47.1	8	45	9.6
GS15238 WS	382	39,000	323	33,000	152.4	37.5	40.1	-	-	-	-	19.1	45.6	52.9	9	50	12.2
GS15251 WS	509	52,000	460	47,000	152.4	57.6	44.5		-	-	-	22.5	56.7	62.8	9	65	18

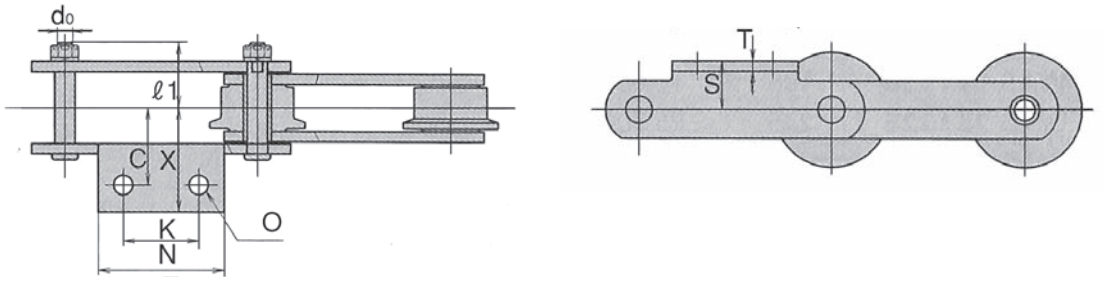
A2 attachment type 1



Unit (mm)

Chain No.	K	N	S	C	O	X	TL	l1	do	Additional weight per 1 unit (kg/ unit)
GF15221WS	60	100	32	55	15	70	8.0	41.5	M10	0.5
GF15228WS	60	100	38	65	19	85	9.0	51.0	M12	0.6
GF15238WS	60	100	45	70	19	90	12.0	58.5	M16	1.0

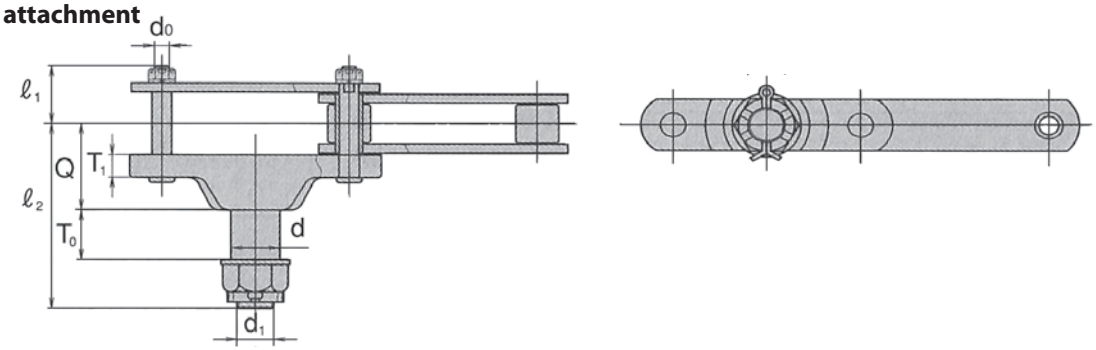
A2 attachment type 2



Unit (mm)

Chain No.	K	N	S	C	O	X	T	Additional weight per 1 unit (kg/unit)
GF15214WS	60	90	28	50	12	79	6	0.26
GF15221WS	60	90	32	50	12	72	6	0.22
GF15228WS	60	100	38	60	15	82	8	0.35
GF15238WS	60	100	45	65	15	101	9	0.53

T attachment



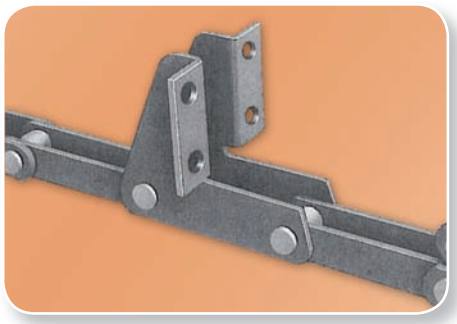
Unit (mm)

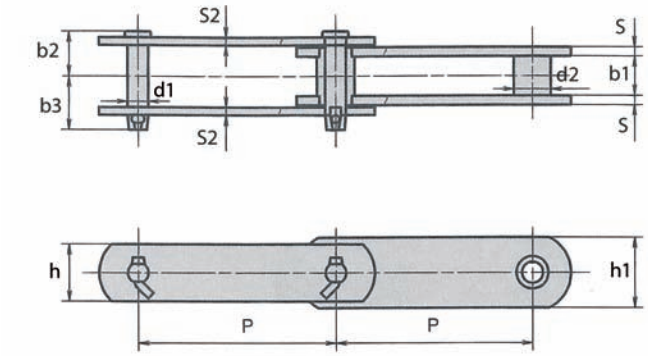
Chain No.	l1	Q	To	l2	T1	d	d1	do	Additional weight per 1 unit (kg/unit)
GS15214WS	38.0	60	30	119.0	16	25	M20	M 8	1.1
GS15221WS	45.5	70	40	148.5	16	35	M27	M10	1.9
GS15228WS	51.0	78	44	164.5	20	40	M30	M12	2.8
GS15238WS	58.5	78	46	173.0	24	45	M36	M16	3.3
GS15251WS	68.5	95	50	204.5	24	50	M45	M16	5.3

Sewage treatment chain (WS or WAS type chain)

(b) WAS-type bush chain

Heat treated stainless steel provides this chain with excellent performance for corrosion resistance and wear resistance, except LA1 attachment.





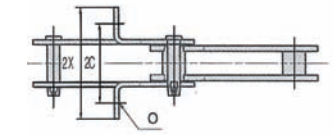
Unit (mm)

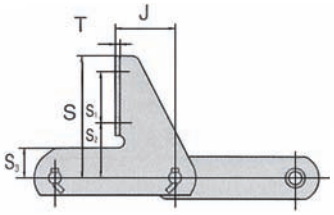
Chain No.	Ultimate tensile strength		Pitch	Roller link width	Bush	Pin			Outer link		Inner link		Approx. weight
						dia.	length		Thick-ness	Height	Thick-ness	Height	
	kN	kgf	P	b1	d2	d1	b2	b3	S2	h1	S	h	(kg/m)
GHB07813WAS	132	13,500	78.11	26	23	12.7	27.9	33.3	5	33	5	36	5.2
GHB10313WAS	132	13,500	103.2	26	23	12.7	27.9	33.3	5	33	5	36	4.6
GHB52151WAS	147	15,000	152.4	26	24	13.5	29.4	34.3	5	36	6	38	4.8
GHB52191WAS	186	19,000	152.4	30	26	14.5	32.6	37.5	6	38	6	44	5.9
GHB52251WAS	245	25,000	152.4	30	29	15.9	34.1	40.9	6	44	7	54	7.9
GHB52351WAS	343	35,000	152.4	38	35	19.1	40.6	49.0	7	54	7	60	10.9

SF4 attachment

Unit (mm)

Chain No.	2C	2X	S	S1	S2	J	S3	O	T	Additional weight per 1 unit (kg/unit)
GHB07813WAS	90	130	110	35	55	38	28	14	5	0.6
GHB10313WAS	90	130	110	35	55	52	28	14	5	0.7
GHB52151WAS	100	140	155	65	70	76	35	14	5	1.2
GHB52191WAS	100	140	155	65	70	76	38	14	6	1.4
GHB52251WAS	100	140	155	65	70	76	38	14	6	1.4
GHB52351WAS	110	150	160	65	75	76	40	14	7	1.6

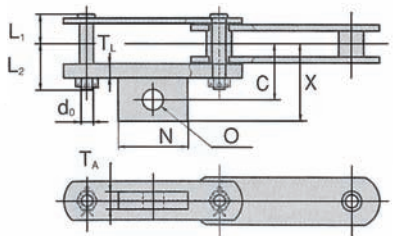




LA1 attachment

Unit (mm)

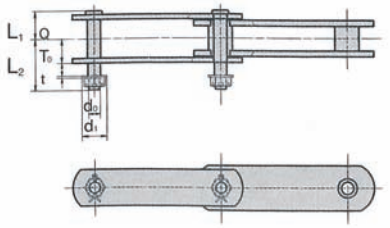
Chain No	do	C	X	L1	L2	N	O	TA	TL	Additional weight per 1 unit (kg/unit)
GHB07813WAS	M10	55	77	28.9	42.9	40	19	16	12	0.4
GHB10313WAS	M10	55	77	28.9	42.9	56	19	16	12	0.6
GHB52151WAS	M12	55	77	30.4	44.0	68	19	16	12	0.8
GHB52191WAS	M12	65	90	33.6	51.4	80	24	20	16	1.2
GHB52251WAS	M14	65	90	35.1	53.9	80	24	20	16	1.4
GHB52351WAS	M16	75	102	42.6	62.5	80	26	24	19	2.0



Extended pin type

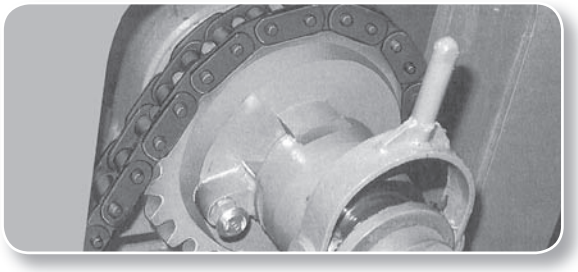
Unit (mm)

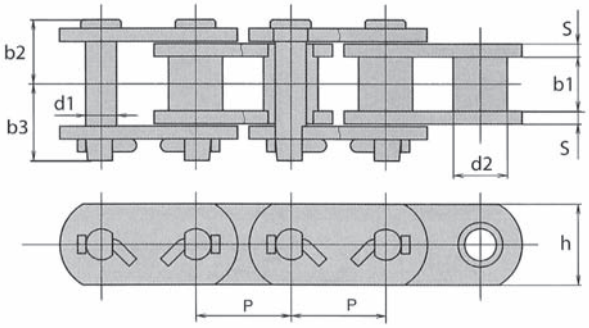
Chain No.	d	TO	Q	L1	L2	do	d1	t	Additional weight per 1 unit (kg/unit)
GHB07813WAS	12	12	24.4	27.9	49.4	M10	22	1.5	0.06
GHB10313WAS	12	12	24.4	27.9	49.4	M10	22	1.5	0.06
GHB52151WAS	13	12	25.4	29.4	51.4	M12	26	2.0	0.10
GHB52191WAS	14	16	28.6	32.6	59.4	M12	26	2.0	0.11
GHB52251WAS	15.5	16	29.6	34.1	62.4	M14	30	2.5	0.14
GHB52351WAS	18.5	19	34.6	40.6	72.0	M16	32	2.5	0.20



BF type bush chain for water treatment drive unit

This chain is used to connect water treatment equipment to a power source. In the past, JIS/ANSI type roller chains were used. For enhanced corrosion resistance, all the components are now made of 13Cr stainless steel. Since the chain is operated at a slow speed, a bushed chain without rollers is used. The sprockets are interchangeable with JIS/ANSI roller chain sprockets. We manufacture seven kinds of BF type bushed chains in a range from GBF012 to GBF024, including heavy-duty type.

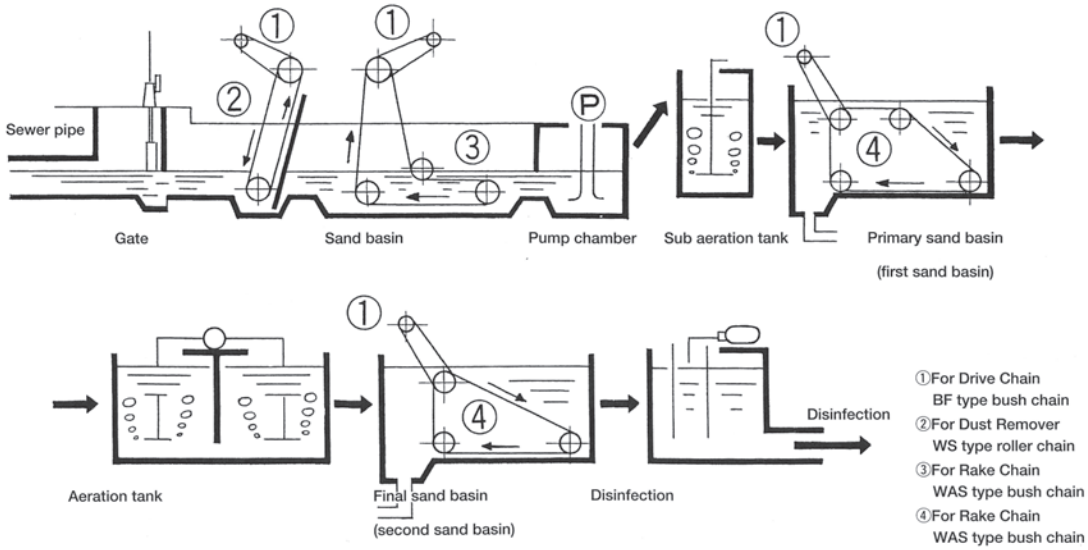




Unit (mm)

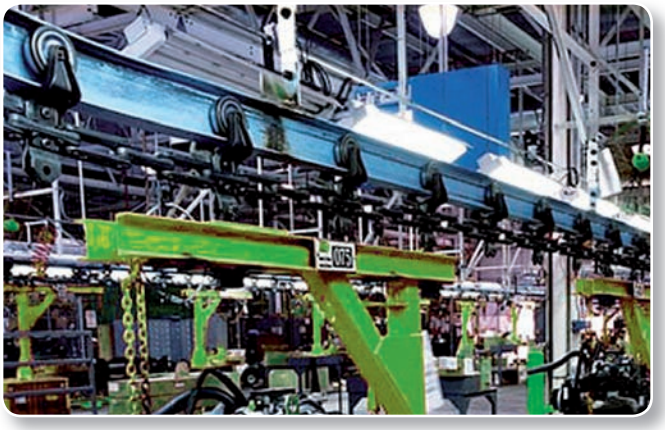
Chain No.	Ultimate tensile strength		Pitch	Roller link width	Bush	Pin			Plate		Approx. weight
						Dia.	Length		Thickness	Height	
	kN	kgf	P	b1	d2	d1	b2	b3	S	h	(kg/m)
GBF012	107	11,000	38.10	25.4	22.23	12.7	27.3	32.3	5	33	6.8
GBF014	137	14,000	44.45	25.4	25.40	14.5	29.8	35.9	6	38	9.5
GBF016	181	18,500	50.80	31.7	28.58	15.9	33.7	40.5	6	44	10.9
GBFH016	240	24,500	50.80	31.7	28.58	15.9	37.7	44.5	8	45	13.7
GBF020	308	31,500	63.50	38.1	39.69	22.2	45.5	51.8	9	54	20.7
GBFH020	353	36,000	63.50	38.1	39.69	22.2	47.5	53.8	10	57	21.0
GBF024	392	40,000	76.20	47.6	47.62	25.4	53.3	58.6	10	63.5	27.8

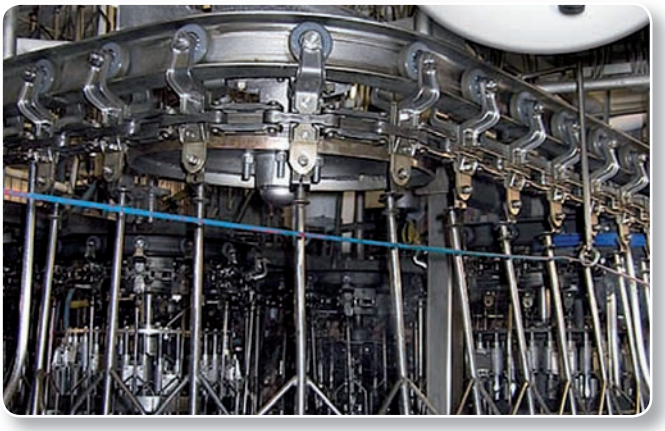
Water treatment systemflow chart



Rivetless chain

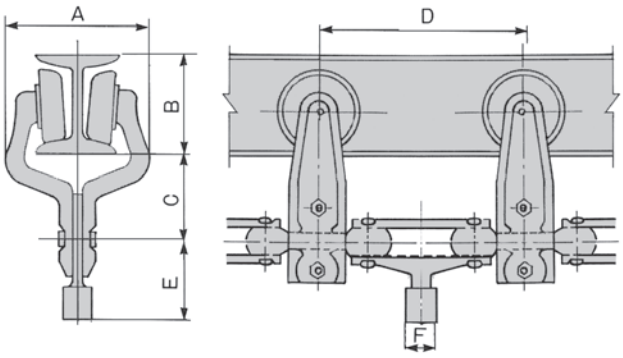
In general, a chain is bent in transverse direction only. However, a three dimensional chain can be structurally bent not only horizontally but also vertically. It is used for a conveyor line which moves vertically and changes in direction

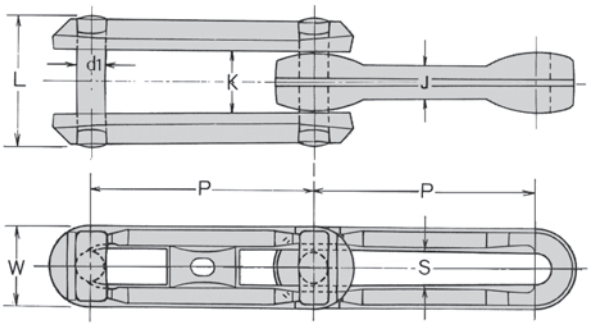




X type chains for trolley, and power & free conveyors

X chains are used for trolley, and power & free conveyors. They are drop-forged rivetless chains featuring high strength, lightweight and easy mounting dismount of components.
A power & free conveyor generally has a so-called stop and go function to connect and disconnect conveyed materials with and from the chain, so that the conveyed materials can be temporarily stopped, mixed and stored.
Three kinds of X chains different in strength are available.





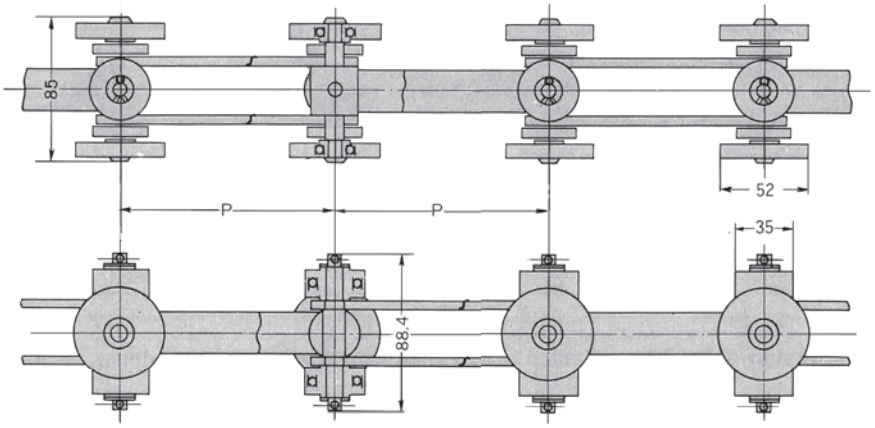
Unit (mm)

Chain No.	Ultimate tensile strength kN	Ultimate tensile strength kgf	Pitch P	L	W	d1	J	K	S	Weight (kg/L)	Power trolley No.	A	B	C	D	Dimension of Dog E	Dimension of Dog F
X348	107	11,000	76.2	45	27	12.7	12.7	20.8	14	3.5	TL-33	118	75	65	152.4	75	28.2
X458	215	22,000	101.6	56	35.5	16.2	15.9	27.5	17	5.0 9,0	TL-44 TL-46	140 142	100 100	82 86	203.2 304.8	71 85.5	31.8 35
X678	382	39,000	152.4	77	50.8	22.5	20.7	35.9	24.7	9.0	TL-66	182	150	101.6	304.8	85.5	35

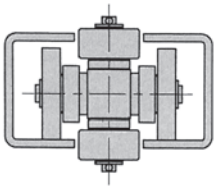
FH type chain for conveyors (biplanar chains)

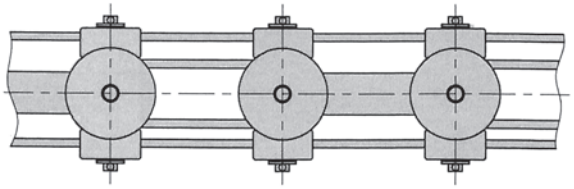
AN FH chain is used for the same purpose as an X chain and Z chain. An X chain is designed for large loads, a Z chain for light loads, and an FH chain for intermediate loads. While an X chain and Z chain can be bent vertically only over a small range, an FH chain can be bent both vertically and horizontally, which make it suitable for a conveyor line moving vertically. We manufacture three kinds of FH chains different in pitch.

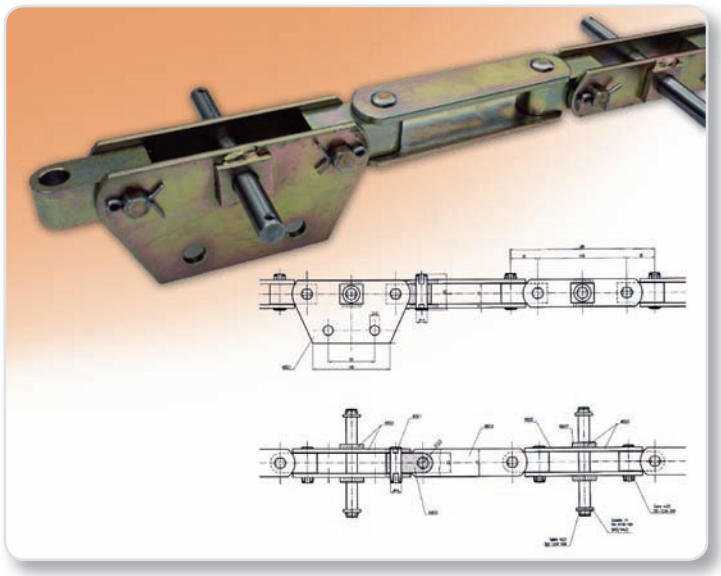
Chain No.	Pitch (mm)	Max. allowable load	
		kN	kgf
BP-GH-100	100	6.86	700
BP-GH-125	125	6.86	700
BP-GH-150	150	6.86	700



For instance, a condition where an FH chain travals on two rails made of C lightweight section steel.

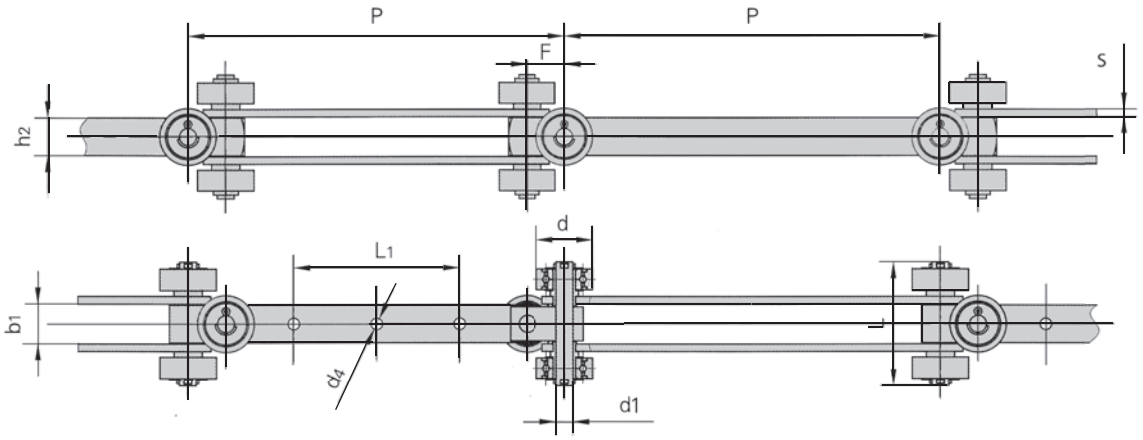




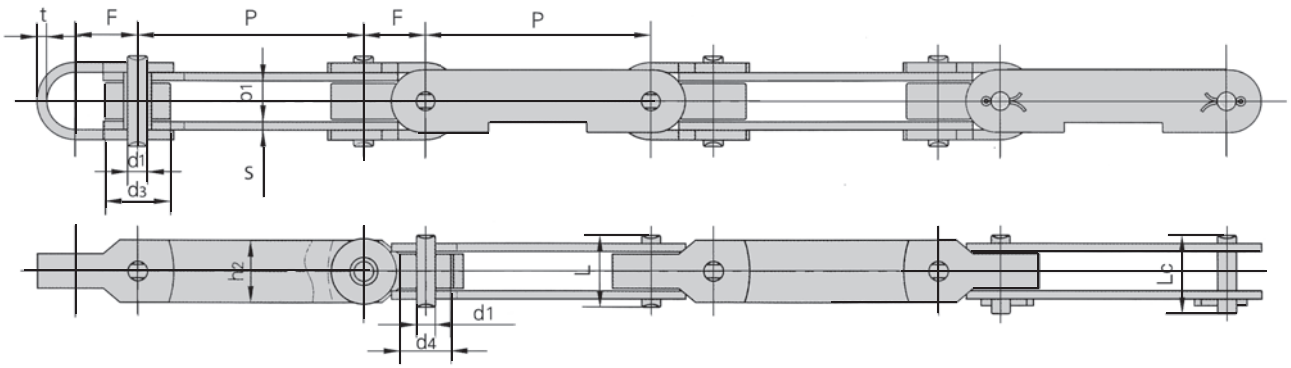


Overhead conveyor biplanar chain pitch 150 mm zinc plated.

Universal movement conveyor chains

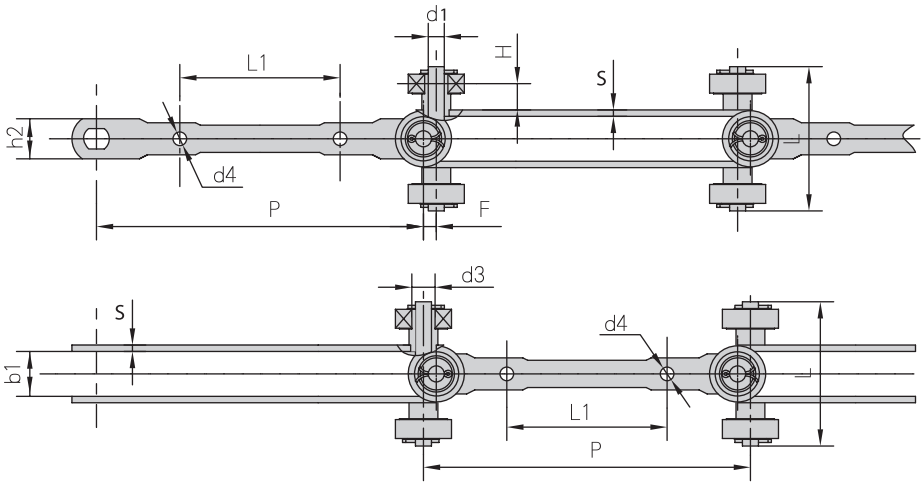


Chain No.	Pitch	Roller diameter	Width between inner plates	Pin diameter	Pin length	Plate dimension		Attachment dimension			Ultimate tensile strength
	P	d max	b1 min	d1 max	L max	h2 max	L max	L1	d4	F	Q kN/LB
	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	
BP-SJ400-40	200.0	30.0	20.0	9.0	65.0	20.0	3.0	88.0	6.44	20.0	15.0/3374
BP-SJ400-60	200.0	35.0	21.0	10.0	64.5	20.0	4.0	88.0	6.50	20.0	60.0/13497
BP-SJ400-100	200.0	40.0	26.0	14.0	75.0	30.0	4.0	88.0	10.00	25.0	100.0/22495
BP-SJ405S-60	203.2	47.0	30.0	14.0	95.0	30.0	4.0	76.2	8.40	16.5	50.0/11247

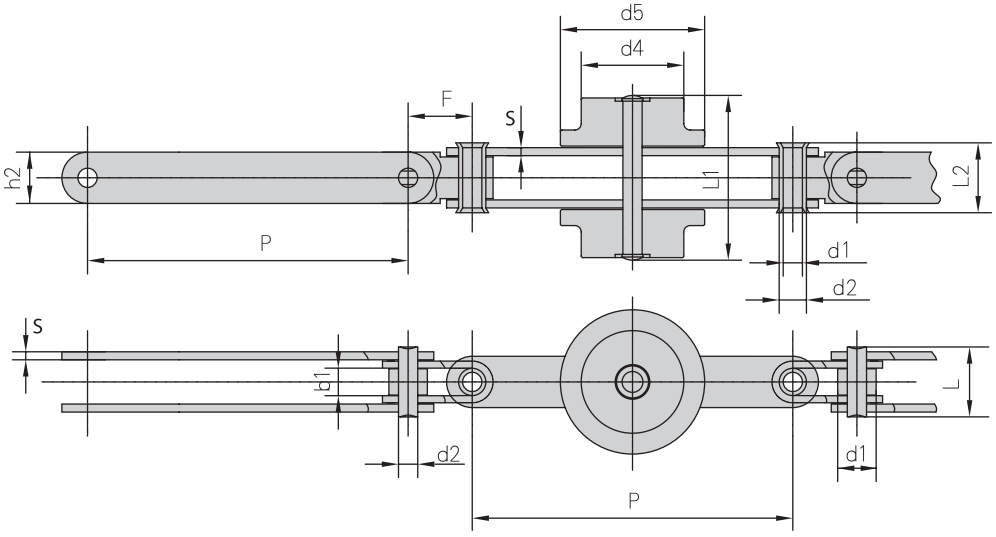


Chain No.	Pitch	Roller diameter		Width between inner plates	Pin diameter		Pin length		Plate dimension		Attachment dimension		Ultimate tensile strength
	P	d3 max	d4 max	b1 min	d2	d1	L max	Lc max	h2 max	S max	F	t	Q min
	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	kN/LB
BP-P69F2	69.0	20.0	15.9	8.6	6.0	5.72	22.0	24.0	19.0	2.5	19.0	3.0	20.0/4545

Universal movement conveyor chains



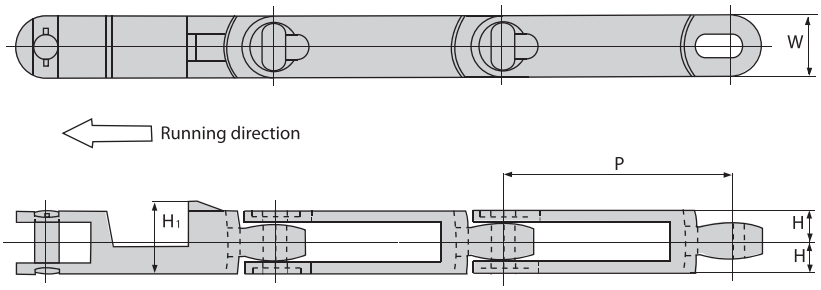
Chain No.	Pitch	Roller diameter	Width between inner plates	Pin diameter	Pin length	Plate dimension		Attachment dimension			Ultimate tensile strength
	P	d max	b1 min	d1 max	L max	h2 max	L max	L1	d4	F	Q kN/LB
	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	
BP-P210	200.0	35.0	27.5	10.0	90.0	25.0	4.0	100.0	8.5	8.0	50.0/11364
BP-SJ406-50	203.2	35.0	27.5	10.0	90.0	25.0	4.0	100.0	8.5	11.0	50.0/11364

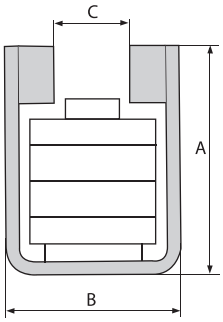


Chain No.	Pitch	Roller diameter		Width between inner plates	Pin diameter		Pin length			Plate dimension		Attachment dimension	Ultimate tensile strength
	P	d max	d4 max	b1 min	d1	d2	L max	L1 max	L2 max	h2 max	S max	F	Q min
	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	kN/LB
BP-P100F11	100.0	12.0	32.0	8.6	6.0	8.5	22.0	53.0	22.0	16.0	2.5	20.0	20.0/4545

Towline low-selec-tow chain

A towline conveyor has a mechanism to convey dollies caught by a chain located beneath the floor. The chain is designated "LST chain" (low-selec-tow chain).
An LST chain can be bent horizontally and can also move on a slight incline. It is made by forging, and a recess for hooking a dog is formed at the center of each link.



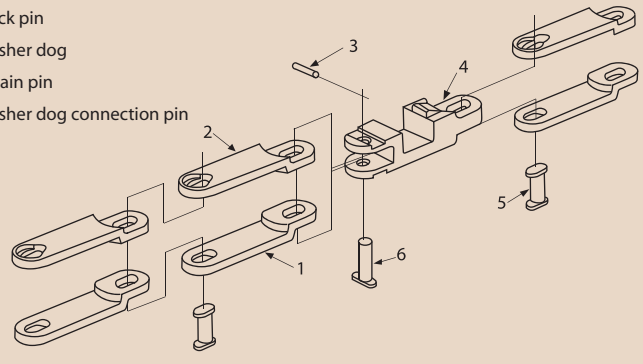


Cross section of track

Unit (mm)

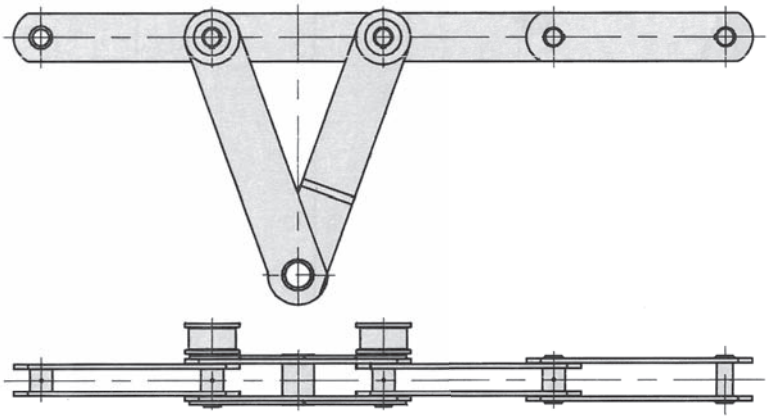
Chain No.	Pitch P	W	H	H1	Ultimate tensile strength		Approx. weight (kg/m)	Cross section of truck		
					kN	kgf		A	B	C
GHL.S.T 6"	152.4	40.9	21	48.4	211	21,600	7.5	76.2	58.0	25.0

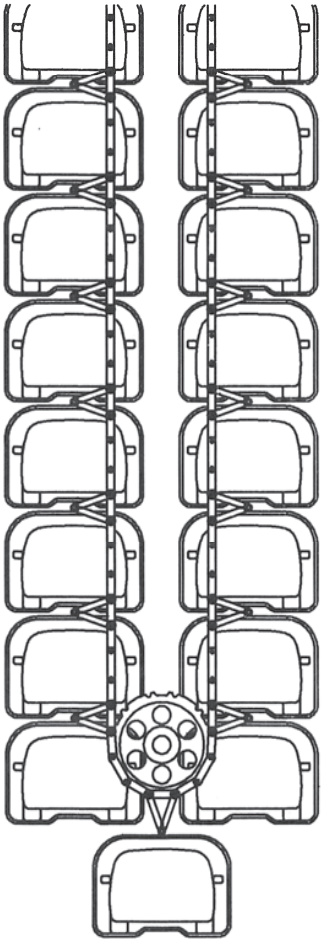
1. Lower chain link
2. Top chain link
3. Lock pin
4. Pusher dog
5. Chain pin
6. Pusher dog connection pin



Others - chain for solid parking system

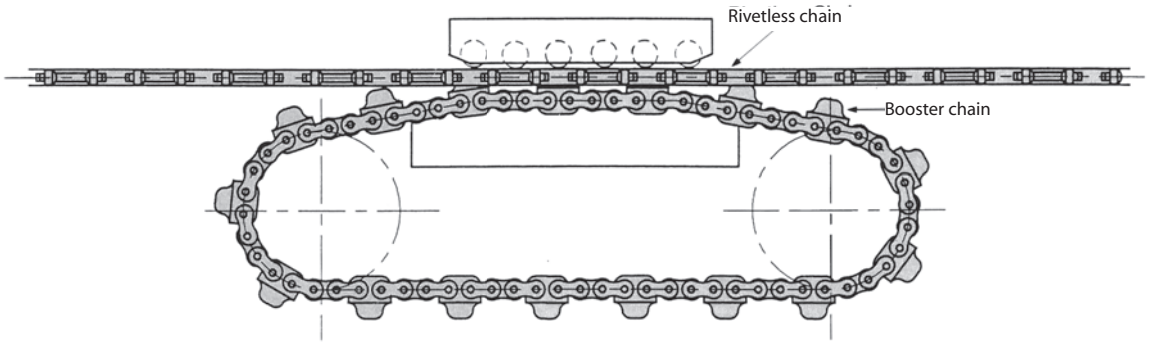
A GEHA chain for solid parking system is a high quality chain based on the heavy-duty Z type chain, which has gained wide acceptance through extensive research and development.
Chains are designed in a variety of shapes and dimensions to suit respective conditions.

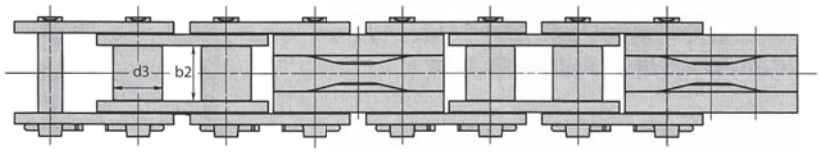


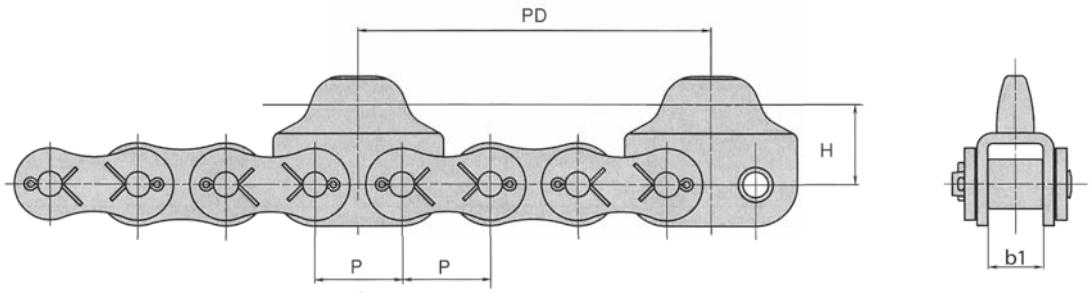


Booster chain for rivetless chain

A booster chain for rivetless chain is used for driving a rivetless chain by catching the rivetless chain by the dogs on the booster chain. Rivetless chain is the general name of the X chain for trolley conveyor or power & free conveyor.



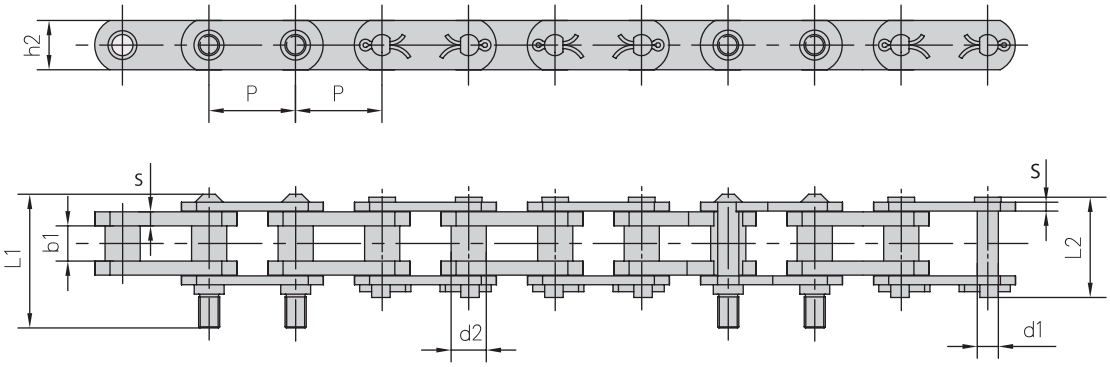




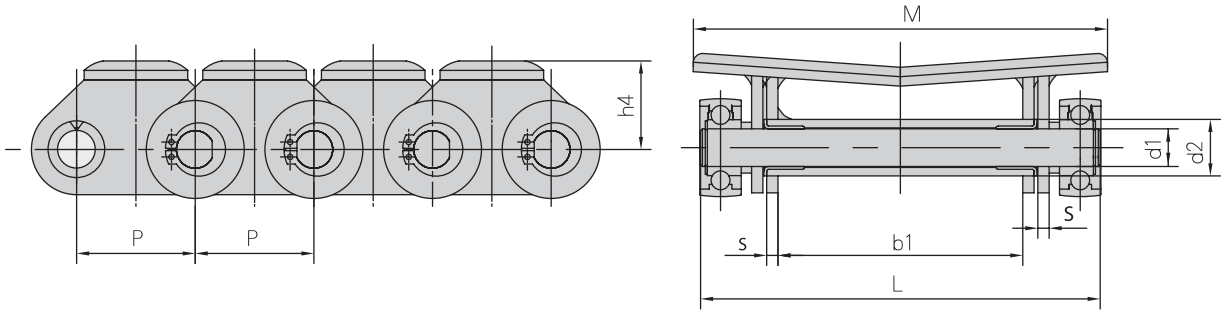
Unit (mm)

Chain No.	Rivetless chain to be used No.	Pitch P	Inner width b1	Roller dia. d3	Dog pitch P	Chain clearance H
CC-BC X348	X348	38.1	25.4	22.23	152.4	40
CC-BC X458	X458	50.8	31.75	28.58	203.2	46
CC-BC X678	X678	76.2	38.1	39.68	304.8	63.4

Dig chains - universal movement conveyor chains

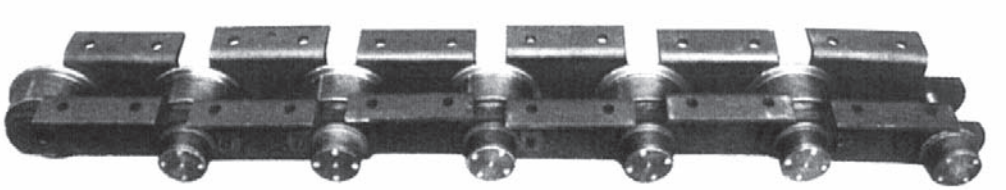


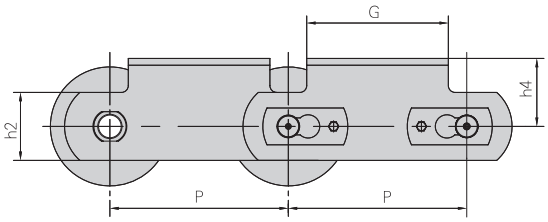
Chain No.	Pitch	Bush diameter	Width between inner plates	Pin diameter	Pin length		Plate depth	Plate thickness	Ultimate tensile strength	Average tensile strength	Weight per meter
	P	d2 max	b1 min	d1 max	L1 max	L2 max	h2 max	s/S max	Q min	Qo min	q
	mm	mm	mm	mm	mm	mm	mm	mm	kN/LB	kN	kg/m
GD78PF1	78.1	31.75	31.75	19.05	122.0	90.5	44.5	12.7/8.0	140.0/31818	166.88	14.22

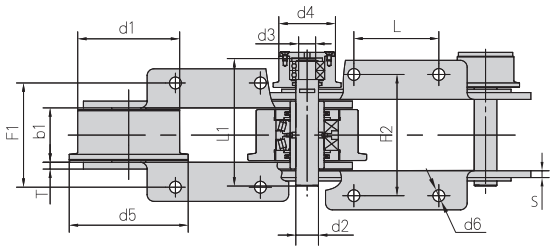


Chain No.	Pitch	Bush diameter	Width between inner plates	Pin diameter	Pin length	Plate thickness	Attachment dimension		Ultimate tensile strength	Average tensile strength
	P	d2 max	b1 min	d1 max	L max	S max	M	h4	Q min	Qo min
	mm	mm	mm	mm	mm	mm	mm	mm	kN/LB	kN
GP63PF2	63.0	30.0	130.0	20.0	213.2	6.0	220.0	50.0	160.0/36364	176.0

Conveyor chain with attachments
P315 conveyor chain

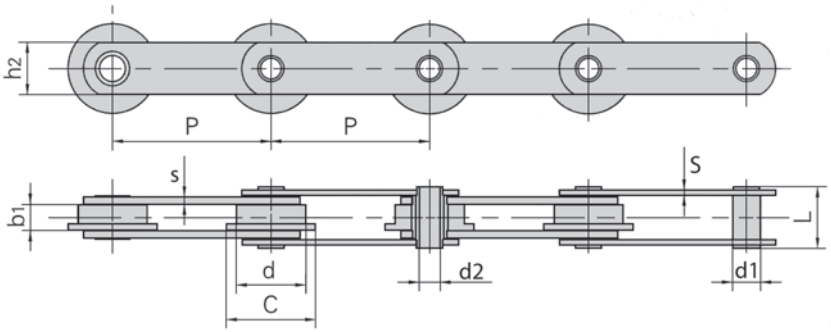






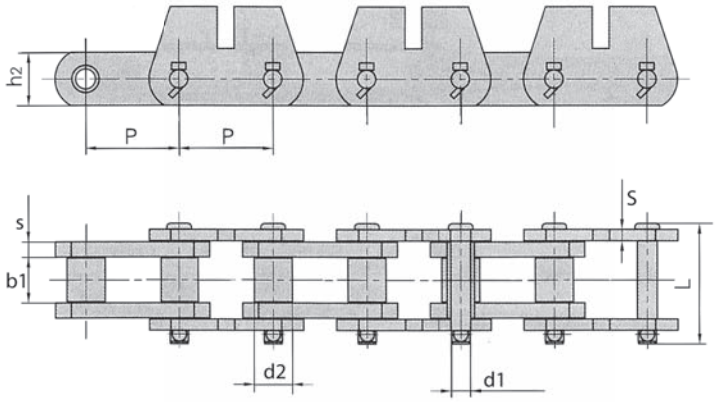
Chain No.	P	L	G	F1	F2	h4	h2	d6	S
	mm	mm	mm	mm	mm	mm	mm	mm	mm
GHP315	315	150.0	250.0	180.0	206.0	120.0	120.0	21.0	12.0

Chain No.	Pitch	Roller diameter			Width between inner plates	Pin diameter		Pin length	Ultimate tensile strength	Average tensile strength
	P	d1 max	d4 max	d5 max	b1 min	d2 max	d3 max	L1 max	Q min	Qo
	mm	mm	mm	mm	mm	mm	mm	mm	kN/LB	kN
GHP315	315,0	180.0	100.0	210.0	90.0	40.0	30.	217.0	100.0/22727	110.0

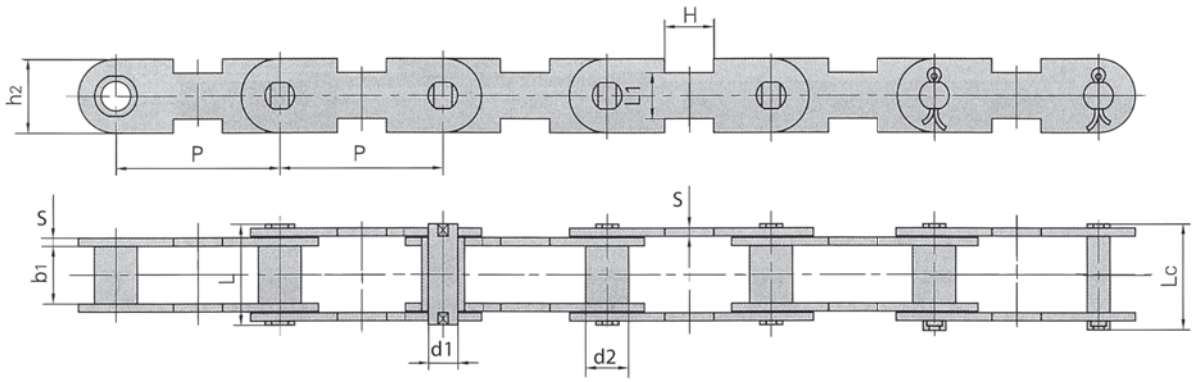


Chain No.	Pitch	Width between inner plates	Roller diameter		Pin diameter		Pin length	Pin depth	Plate thickness		Ultimate tensile strength	Average tensile strength	Weight per meter
	P	b1 min	d max	C max	d1 max	d2 min	L1 max	h2 max	S max	s max	Q min	Qo	q
	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	kN/LB	kN	kg/m
GHW152	152.4	25.40	66.7	85.7	27.1	20.0	58.8	50.0	5.0	7.0	110.0/25000	122.1	10.78

Chain for special applications

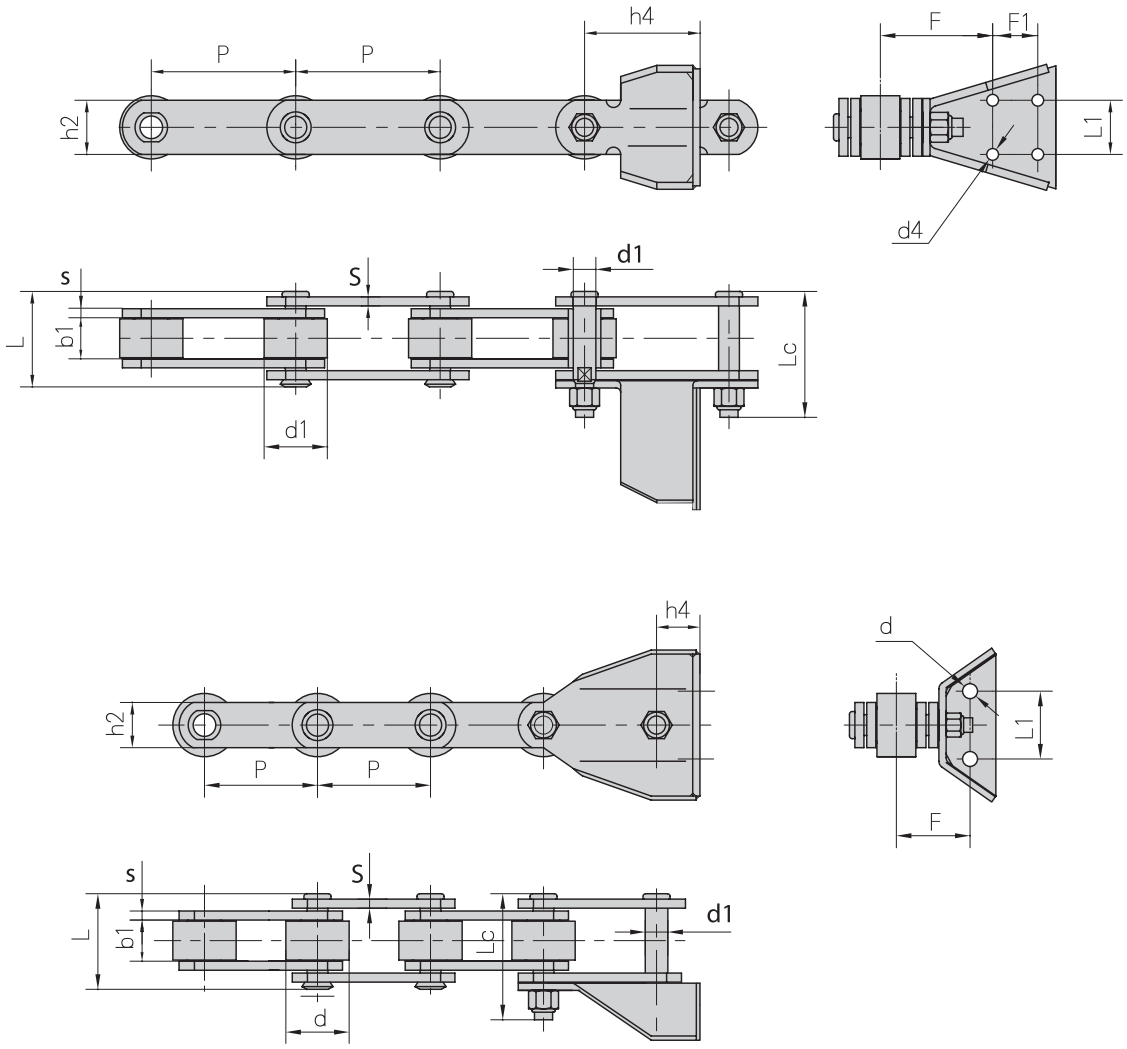


Chain No.	Pitch	Roller diameter	Width between inner plates	Pin diameter	Pin length	Inner plate depth	Plate thickness	Ultimate tensile strength	Average tensile strength	Weight per meter
	P	d2 max	b1 min	d1 max	L max	h2 max	s/S max	Q min	Qo	q
	mm	mm	mm	mm	mm	mm	mm	kN/LB	kN	kg/m
GS-P78.11F10	78.105	31.75	38.1	16.46	102.0	44.45	12.7/9.5	333.4/75000	350.0	16.73
GS-P101.6F28	101.600	38.10	50.8	17.48	122.0	44.45	12.7	266.7/60000	293.3	21.66
GS-P152F18	152.400	69.85	76.2	25.40	152.0	63.50	12.7	500.0/112480	650.0	43.23
GS-P152F24	152.400	69.85	76.2	25.40	152.0	63.50	12.7	565.0/127100	650.0	38.38



Chain No.	Pitch	Bush diameter	Width between inner plates	Pin diameter	Pin length		Inner plate depth	Plate thickness	Attachment dimension		Ultimate tensile strength	Weight per meter
	P	d2 max	b1 min	d1 max	L max	Lo max	h2 max	S max	H	L1	Q min	q
	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	kN/LB	kg/m
GS-P100F49	100.0	20.0	25.0	14.0	51.5	55.0	35.0	5.0	30.0	28.0	90.0/20250	4.02
GS-P100F54	100.0	26.0	35.0	18.0	65.5	71.0	45.0	6.0	30.0	28.0	100.0/22500	6.90

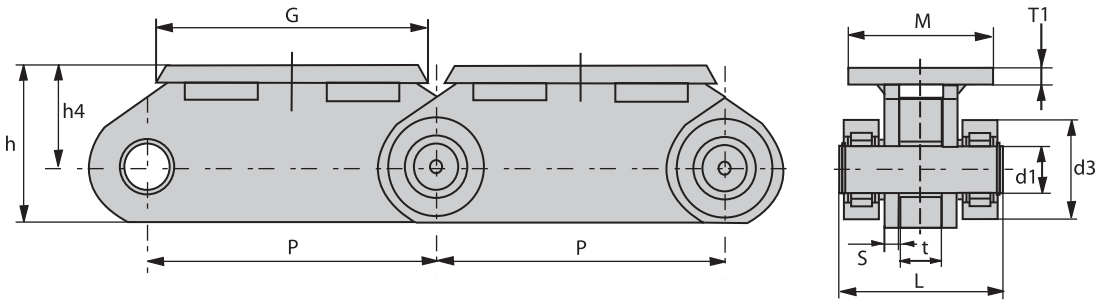
Conveyor chains for specific applications



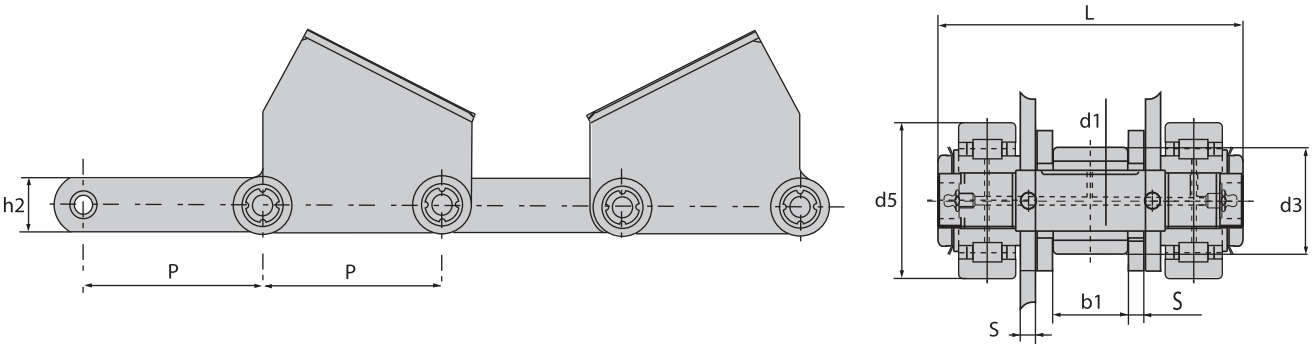
Chain No.	P mm	L1 mm	F mm	d mm	h4 mm	F1 mm
GS-P125F6	125.0	75.0	77.5	16.5	44.0	
GS-P160F7	160.0	60.0	119.5	13.0	130.0	50.0

Chain No.	Pitch	Roller diameter	Width between inner plates	Pin diameter	Pin length		Plate depth	Plate thickness	Ultimate tensile strength
	P mm	d max mm	b1 min mm	d1 max mm	L max mm	Lc max mm	s/S max mm	S max mm	Q min kN/LB
GS-P125F6	125.0	70.0	45.0	20.0	90.0	122.0	50.0	8.0	250/56818
GS-P160F7	160.0	70.0	45.0	20.0	99.0	136.0	60.0	10.0	400/90908

Conveyor chains for steel mill

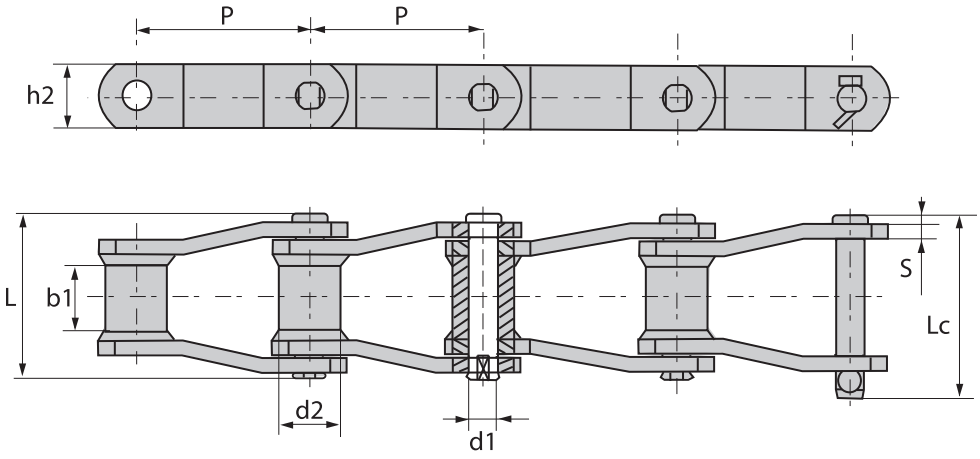


Chain No.	Pitch	Roller diameter	Pin diameter	Pin length	Plate thickness	Attachment dimension					Ultimate tensile strength
	P	d3 max	d1 max	L max	S max	G	M	h4	h	T1	Q min
	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	kN/LB
GSCP500	500	170	80,0	281,0	50/25	470	250	175	269	30	1900/427419



Chain No.	Pitch	Roller diameter		Width between inner plates	Pin diameter	Pin-length	Plate thickness	Plate depth	Ultimate tensile strength
	P	d3 max	d5 max	b1 min	d1 max	L max	S max	h2	Q min
	mm	mm	mm	mm	mm	mm	mm	mm	kN/LB
GSCP500F1	500	107	160	78	62	325	20	150	800/179966

Welded steel chains

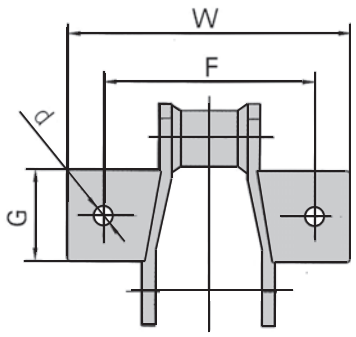


Chain No.	Pitch P mm	Bush diameter d2 max mm	Inside width for sprocket contact b1 min mm	Pin diameter d1 max mm	Pin length L max mm	Pin diameter Lc max mm	Plate depth h2 max mm	Plate thickness S max mm	Ultimate tensile strength Q min kN/LB	Average tensile strength Qo kN	Weight per meter q kg/m
GHWR78	66.27	22.9	28.4	12.78	73.0	79.3	28.4	6.4	93.4/21227	102.7	6.20
GHWH78									106.8/24273	117.5	
GHWR82	78.10	31.5	31.8	14.35	80.0	88.0	31.8	6.4	100.1/22750	110.1	7.98
GHWH82									131.2/29818	144.3	
GHWR106	152.40	37.1	41.2	19.13	103.0	111.0	38.1	9.7	169.0/38409	185.9	10.56
GHWH106									224.6/51045	247.0	
GHWR110	152.40	32,00	46.7	19.13	107.7	115.5	38.1	9.7	169.0/38409	185.9	10.40
GHWH110									224.6/51045	247.0	
GHWR111	120.90	37.1	57.2	19.13	116.8	124.5	38.1	9.7	169.0/38409	186.9	12.72
GHWH111									224.6/51045	247.0	
GHWR124	101.60	37.1	41.2	19.13	103.0	110.0	38.1	9.7	169.0/38409	185.9	12.38
GHWH124									224.6/51045	247.0	
GHWR124H	103.20	41.7	41.2	22.30	131.6	133.0	50.8	12.7	275.8/62682	303.3	19.68
GHWH124H									355.9/80886	391.4	
GHWR132	153.67	44.7	76.2	25.48	151.0	162.2	50.8	12.7	275.8/62682	303.3	20.00
GHWH132									378.1/85932	415.9	
GHWR150	153.67	44.45	73.0	25.40	151.0	162.2	63.5	12.7	620/140907	682	7.74
GHWH150											
GHWR155	153.67	44.45	73.0	28.57	164.0	176,0	63.5	12.7	820/186361	902	9.00
GHWH155											
GHWR187	153.67	44.45	76.2	28.57	164.0	176,0	63.5	15.9	820/186361	902	9.10
GHWH157											

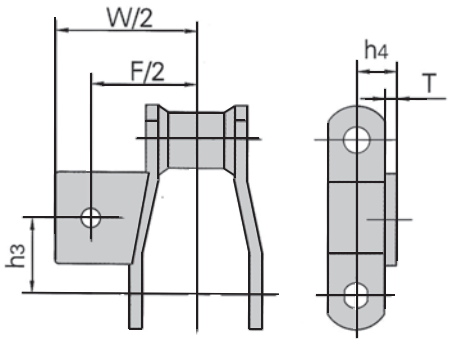
Note:
GHWR - Welded steel chain c/w heat treated pins & bushings
GHWH - Welded steel chain - fully heat treated

Welded steel chain with attachments

With K1 attachments

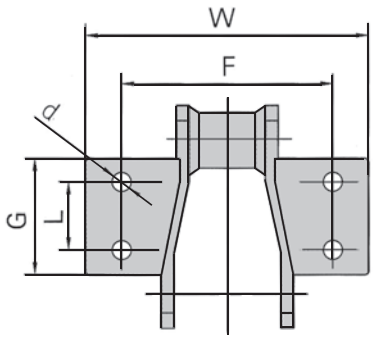


With A1 attachments

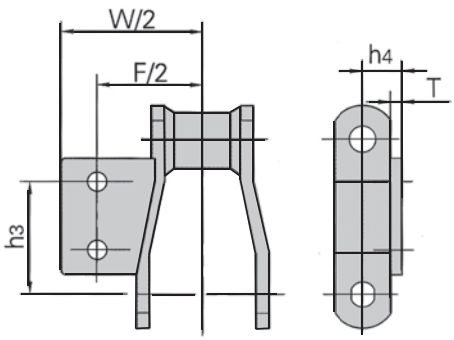


ChainNo.	h3 mm	G mm mm	F mm mm	W mm	h4 mm mm	d mm	T mm mm
GHWR78	31,8	36,6	101,6	130.0	22,4	9,7	6,4
GHWH78							
GHWR82	38,1	46.0	106,7	142,7	23,9	9,7	6,4
GHWH82							

With K1 attachments



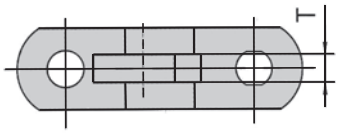
With A1 attachments

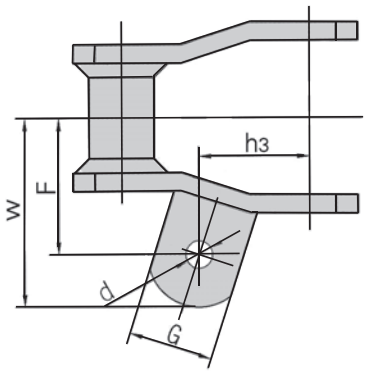


Chain No.	L mm mm	G mm mm	h3 mm	F mm	W mm mm	h4 mm mm	d mm	T mm mm
GHWR78	28.4	52.3	36.9	101.6	130.0	22.4	9.7	6.4
GHWH78								
GHWR82	33.3	62.0	52.3	108.2	142.7	23.9	9.7	6.4
GHWH82								
GHWR110	44.4	84.1	98.6	135.1	168.1	30.0	9.7	9.7
GHWH110								
GHWR111	58.7	90.4	89.9	159.0	193.5	30.0	12.7	9.7
GHWH111								
GHWR124	49.3	77.7	71.4	133.6	180.8	30.0	9.7	9.7
GHWH124								
GHWR124H	49.3	80.8	73.2	133.6	165.6	39.6	12.7	12.7
GHWH124H								
GHWR132	69.8	80.8	106.2	190.5	234.7	39.6	12.7	12.7
GHWH132								

Welded steel chain with attachments

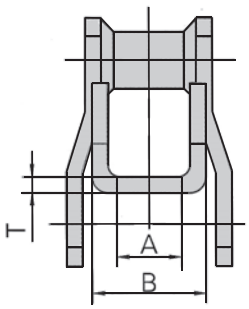
With A22 attachments

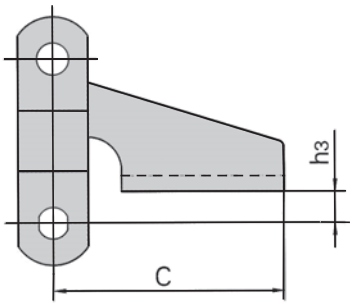




Chain No.	h3 mm	G mm mm	F mm mm	W mm mm	d mm mm	T mm
GHWR78 GHWH78	33.3	30	78.8	65	9.7	9.7

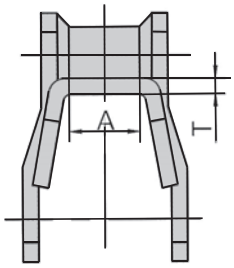
With H1 attachments

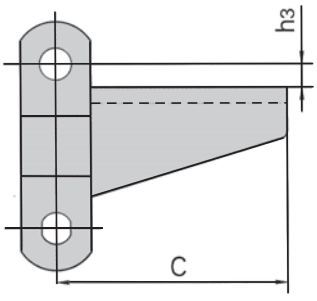




Chain No.	h3 mm	A mm mm	B mm mm	C mm mm	T mm
GHWR78 GHWH78	12.7	22.4	50.8	93.5	6.4
GHWR82 GHWH82	15.7	28.4	57.2	93.5	6.4

With H2 attachments

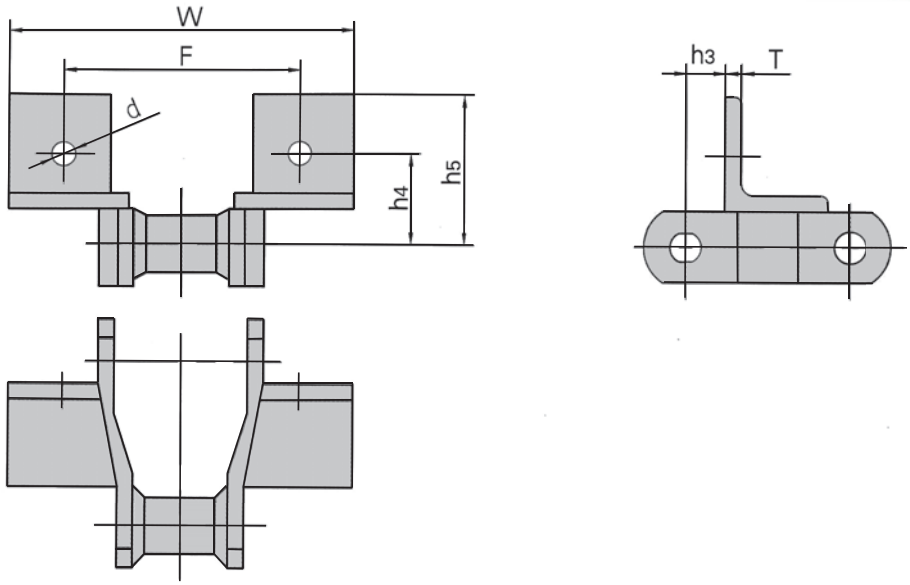




Chain No.	h3 mm	A mm mm	C mm mm	T mm
GHWR78 GHWH78	7.9	20.8	93.5	6.4
GHWR82 GHWH82	7.9	26.4	96.8	6.4

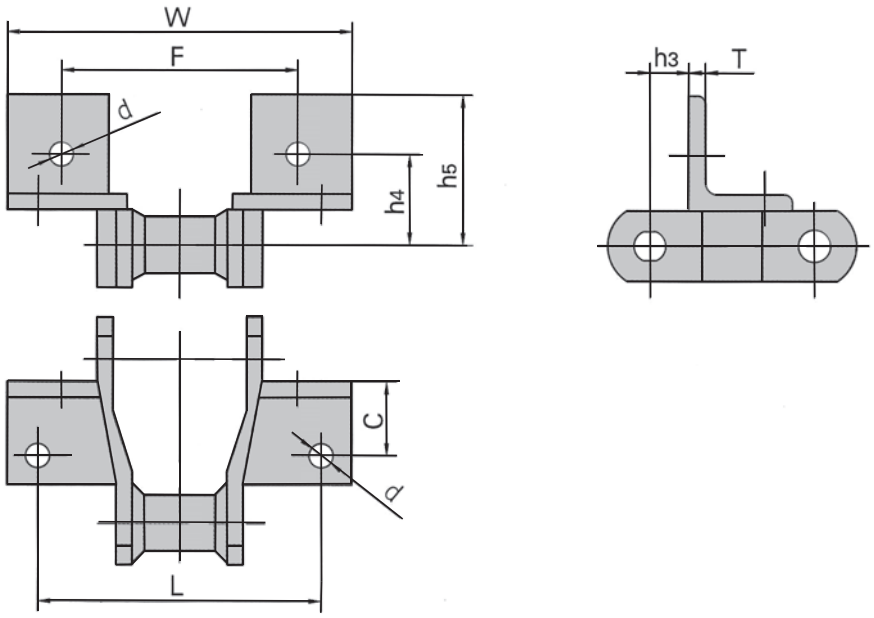
Welded steel chain with attachments

With F2 attachments



Chain No.	h3 mm	h4 mm	h5 mm	F mm mm	W mm	d mm mm	T mm
GHWR78							
GHWH78	15.7	36.6	60.5	95.5	138.2	9.7	6.4

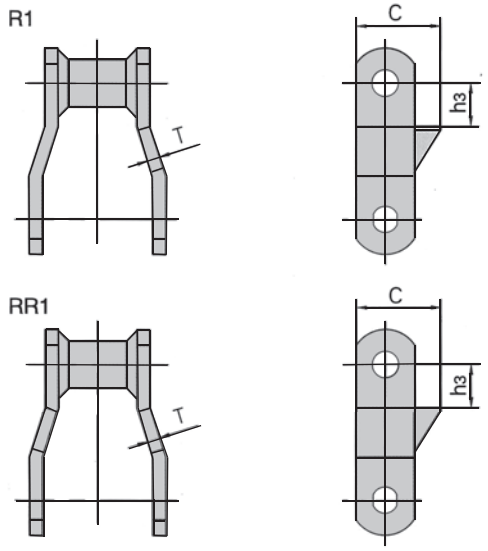
With F4 attachments



Chain No.	h3 mm	h4 mm	h5 mm	L mm mm	C mm	F mm mm	W mm	d mm mm	T mm
GHWR78									
GHWH78	17.3	44.4	60.5	114.3	31.8	95.2	141.2	9.7	6.4
GHWR82									
GHWH82	20.6	43.2	62.0	127.0	28.4	104.6	150.9	9.7	6.4
GHWR124									
GHWH124	22.4	52.3	73.2	133.6	36.6	111.3	157.0	9.7	9.7

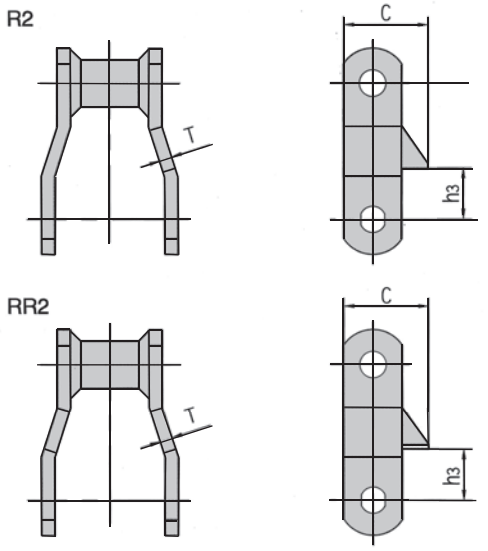
Welded steel chain with attachments

With R1 & RR1 attachments



Chain No.	h3 mm	C mm	T mm
GHWR78	17.3	41.1	6.4
GHWH78			
GHWR82	22.4	49.3	6.4
GHWH82			
GHWR124	31.8	49.3	9.7
GHWH124			

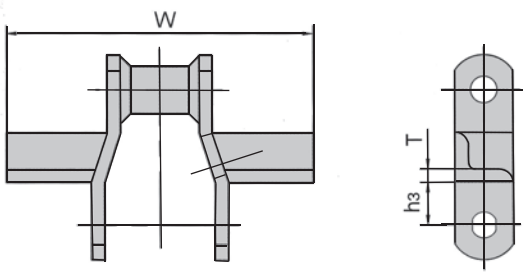
With R2 & RR2 attachments



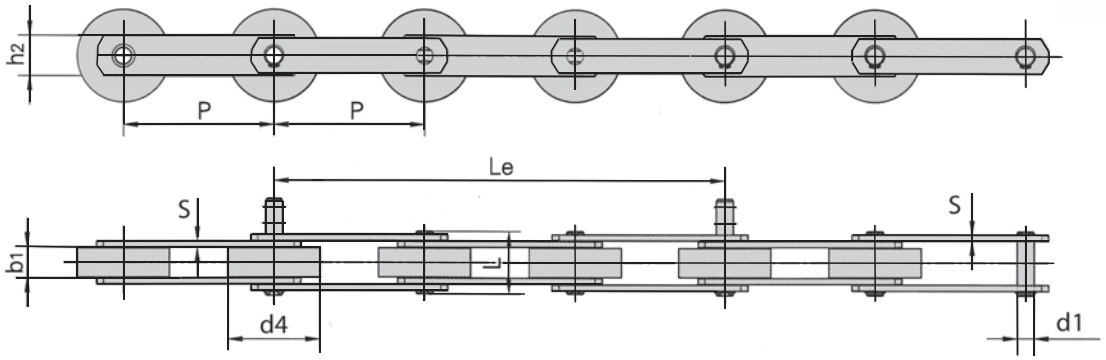
Chain No.	h3 mm	C mm	T mm
GHWR78	17.3	41.1	6.4
GHWH78			
GHWR82	22.4	49.3	6.4
GHWH82			
GHWR124	31.8	49.3	9.7
GHWH124			

Chain No.	h3 mm	W mm	T mm
GHWR78	19.1	163.9	6.4
GHWH78			
GHWR82	23.9	166.6	6.4
GHWH82			
GHWR124	30.0	217.4	6.4
GHWH124			
GHWR124H	35.1	217.4	9.7
GHWH124H			
GHWR132	38.1	316.0	9.7
GHWH132			

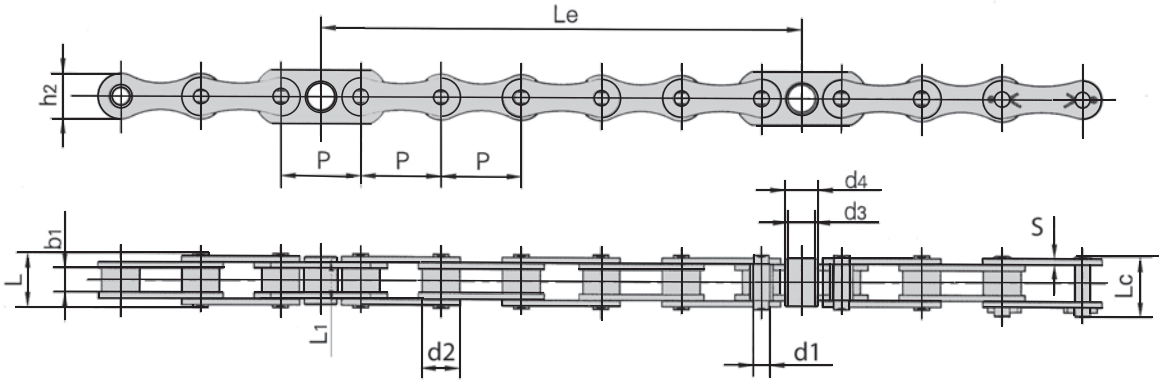
With W1 attachments



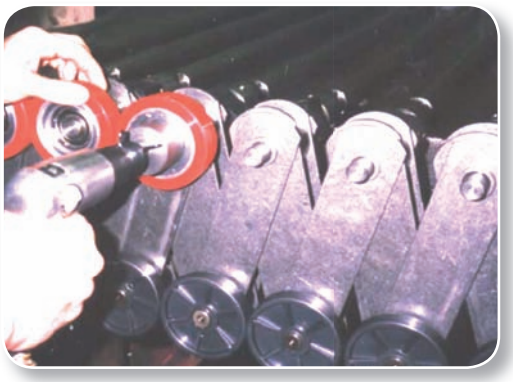
Escalator step - chains



Chain No.	Pitch P mm	Roller diameter d4 max mm	Width between inner plates b1 min mm	Pin diameter d1 max mm	Pin length L max mm	Inner plate depth h2 max mm	Plate thickness S max mm	Distance between steps (three pitches) Le mm	Ultimate tensile strength Q min kN/LB	Average tensile strength Qo kN	Weight per meter q kg/m
GHRST131	131.33	80.00	27.00	24.00	54.5	50.0	5.0	394	180.0/40909	198.0	3.70
GHRT131	131.33	80.00	27.00	14.63	55.0	40.0	5.0	394	180.0/40909	198.0	2.48
GHRJJT131	131.33	80.00	27.00	14.63	54.5	35.0	5.0	394	123.0/27954	150.0	2.31
GHRST133	133.33	70.00	27.00	14.63	55.0	40.0	5.0	400	180.0/40909	198.0	2.45
GHRST133F1	133.33	80.00	27.00	24.00	54.5	50.0	5.0	400	180.0/40909	198.0	3.53

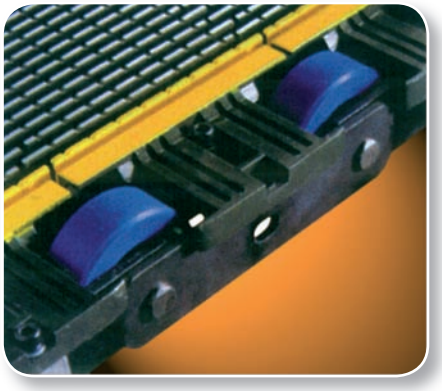


Chain No.	Pitch P mm	Roller dia-meter d2 max mm	Width between inner plates b1 min mm	Pin dia-meter d1 max mm	Pin length L max mm	Pin length Lc max mm	Bush diameter d3 mm	Bush diameter d4 mm	Bush length L1 max mm	Plate dimension h2 max mm	Plate dimension S max mm	Distance between steps (three pitches) Le mm	Ultimate tensile strength Q min kN/LB	Average tensile strength Qo kN	Weight per meter q kg/m
GHRC-13T	68.40	32.0	20.6	14.29	44.9	50.75	23.5	28.5	40.85	38.5	4.8	410.4	127.4/28665	140.0	2.30
GHRP67-FD	67.73	28.5	27.0	14.29	52.3	57.00	23.0	27.0	36.85	38.0	4.8	406.4	130.0/29250	140.0	2.19

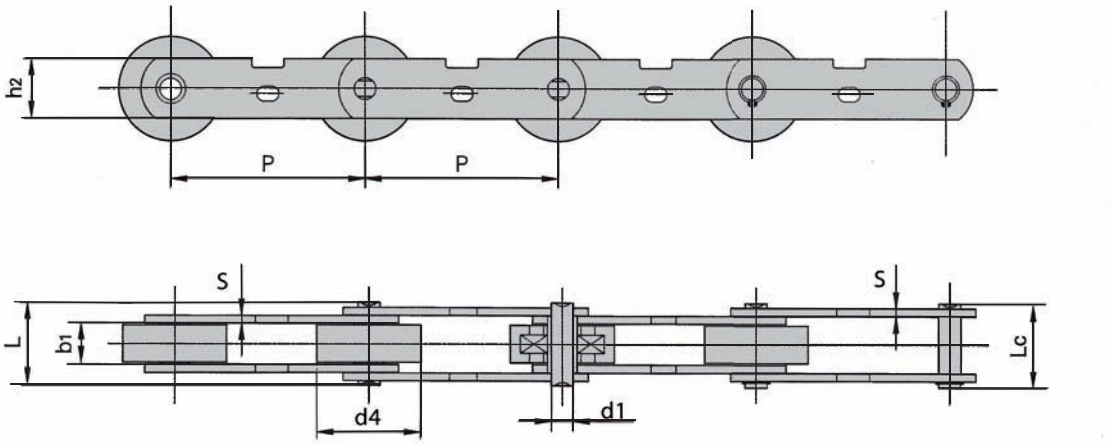


Passenger Escalator chains pitch 203.20mm 506 kN tensile strength.

Escalator step - chains



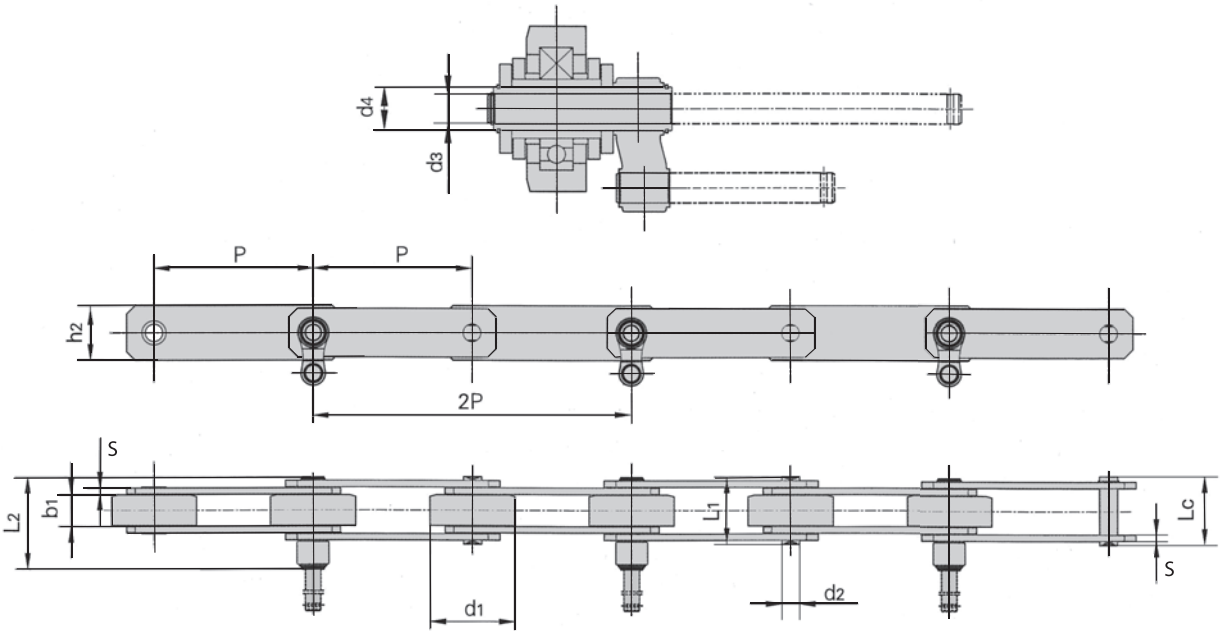
Passenger conveyor chain



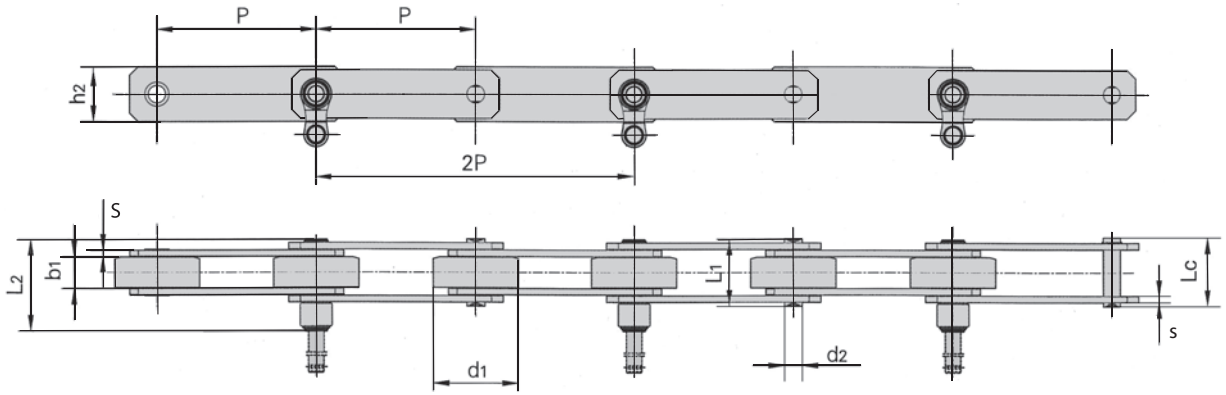
Chain No.	Pitch	Roller diameter	Width between inner plates	Pin diameter	Pin length		Inner plate depth	Plate thickness	Ultimate tensile strength	Average tensile strength	Weight per meter
	P mm	d4 max mm	b1 min mm	d1 max mm	L max mm	Lc max mm	h2 max mm	S max mm	Q min kN/LB	Qo kN	q kg/m
GHRPT131	131.33	70.00	27.00	14.63	55.0	56.0	40.0	5.0	180.0/40909	198.0	5.97
GHRPT133	131.33	70.00	27.00	14.63	55.0	56.0	40.0	5.0	180.0/40909	198.0	5.75

Escalator step - chains

Pedaled conveyor chain

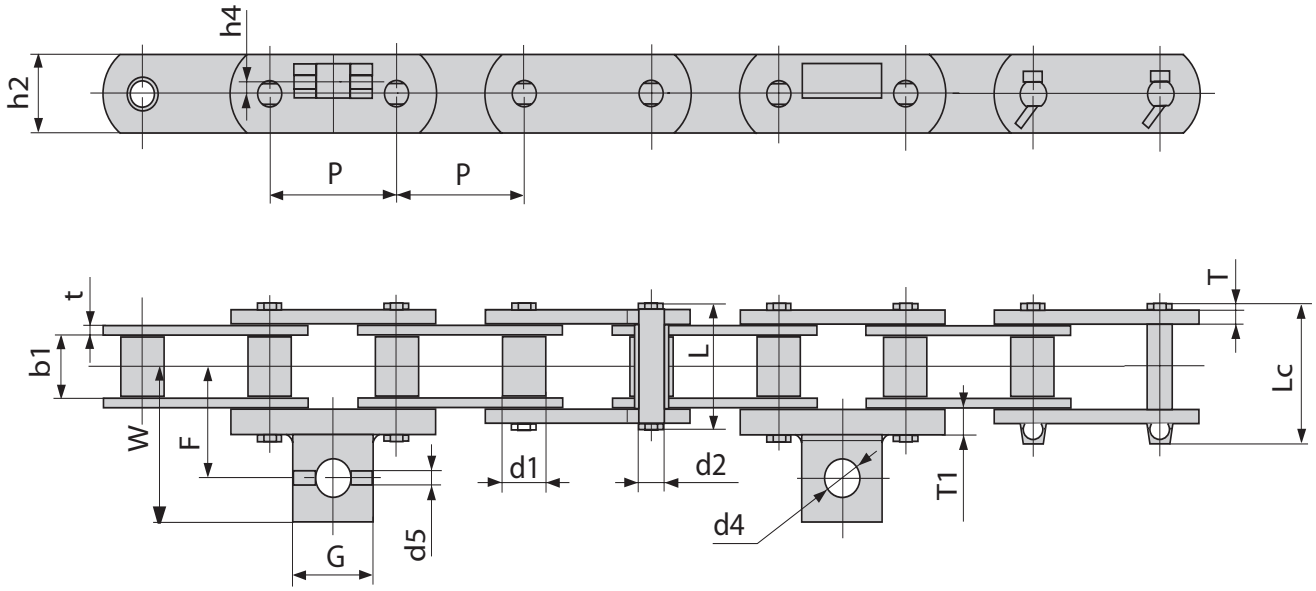


Chain No.	Pitch	Roller diameter	Width between inner plates	Pin diameter	(Hollow) Pin diameter		Pin length			Plate dimension		Ultimate tensile strength	Average tensile strength	Weight per meter
	P mm	d1 max mm	b1 min mm	d2 max mm	d3 max mm	d4 max mm	L1 max mm	L2 max mm	Lc max mm	h2 max mm	S max mm	Q min kN/LB	Qo kN	q kg/m
GHRPT131HP	131.33	70.00	27.00	14.63	12.7	18.26	55.0	75.3	56.0	40.0	5.0	150.0/34089	165.0	7.53



Chain No.	Pitch	Roller diameter	Width between inner plates	Pin diameter	(Hollow) Pin diameter		Pin length		Plate dimension		Ultimate tensile strength	Average tensile strength	Weight per meter
	P mm	d1 max mm	b1 min mm	d2 max mm	d3 max mm	d4 max mm	L max mm	Lc max mm	h2 mm	s / S max mm	Q min kN/LB	Qo kN	q kg/m
GHRPT135HP	135.46	45.0	23.0	25.0	20.0	28.0	47.1	55.1	70.0	5.0 / 6.0	250.0/56818	275.0	11.26

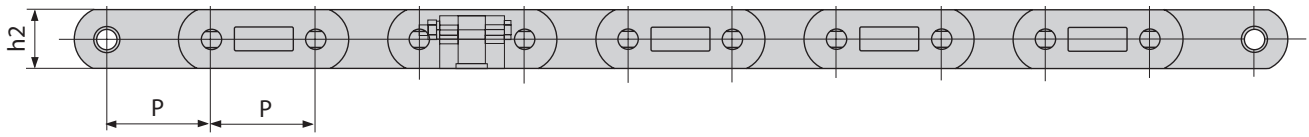
Conveyor chains for crawler asphalt

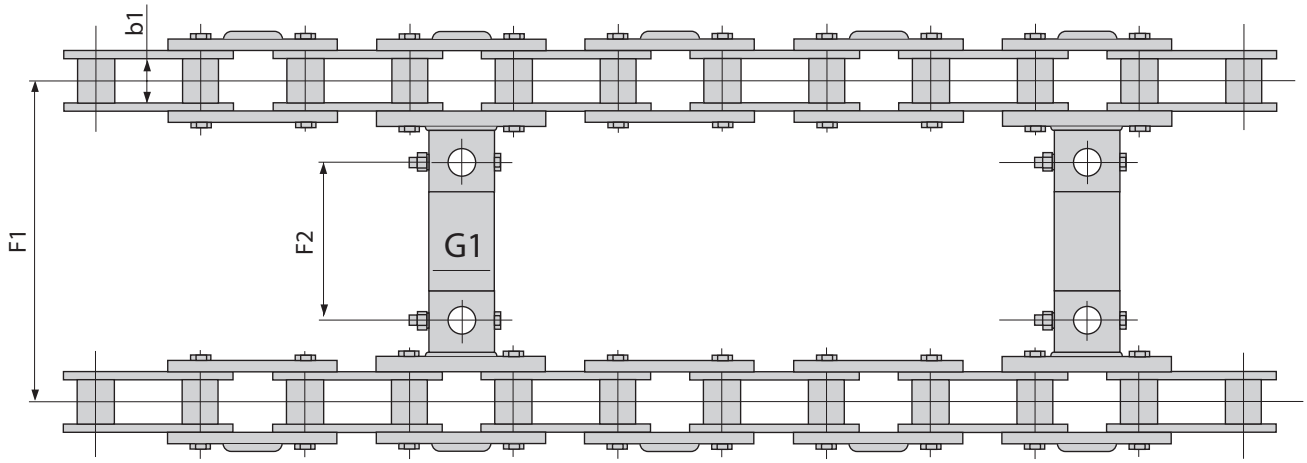


ANSI Chain No.	Pitch P mm	Bush diameter d1 max mm	Width between inner plates b1 min mm	Pin diameter d2max mm	Pin length L max mm	Pin length Lc max mm	Plate depht h2 max mm	Plate thickness t/T max mm	Ultimate tensile strength Q min kN/LB	Weight per meter q kg/m
P80F7	80.0	35.76	35.3	18.00	72.0	76.7	46.00	7.0/6.2	95.0/21370	11.91
P80F8	80.0	27.94	35.8	15.90	68.4	76.0	44.45	6.0/8.0	190.0/42741	10.80
P80F17	80.0	36.00	35.3	18.00	81.0	81.5	45.00	6.0/5.0	195.0/43866	12.90
P80F19	80.0	27.94	35.8	15.90	68.4	75.8	45.00	6.0/8.0	190.0/42741	11.20
P80F21	80.0	27.94	34.0	15.90	78.4	-	45.00	6.0/8.0	190.0/42741	10.70

ANSI Chain No.	P mm	F mm	W mm	G mm	h4 mm	d4 mm	d5 mm	T1 mm
P80F7	80.0	56.4	81.4	50.5	5.0	21.0	8.2	6.2
P80F8	80.0	63.0	88.0	50.0	2.0	22.0	10.2	14.2
P80F17	80.0	66.3	91.3	50.0	7.5	24.0	-	15.0
P80F19	80.0	56.5	81.5	50.0	2.8	22.0	8.0	20.0
P80F21	80.0	57.0	82.0	50.0	7.0	21.5	-	15.0

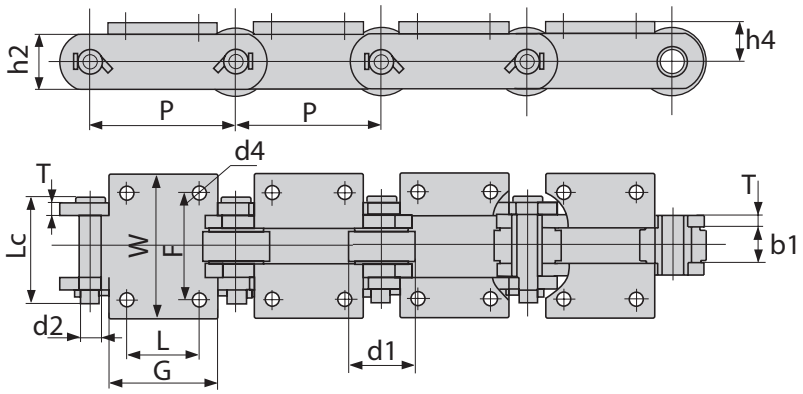
Engineering bush chains with attachments





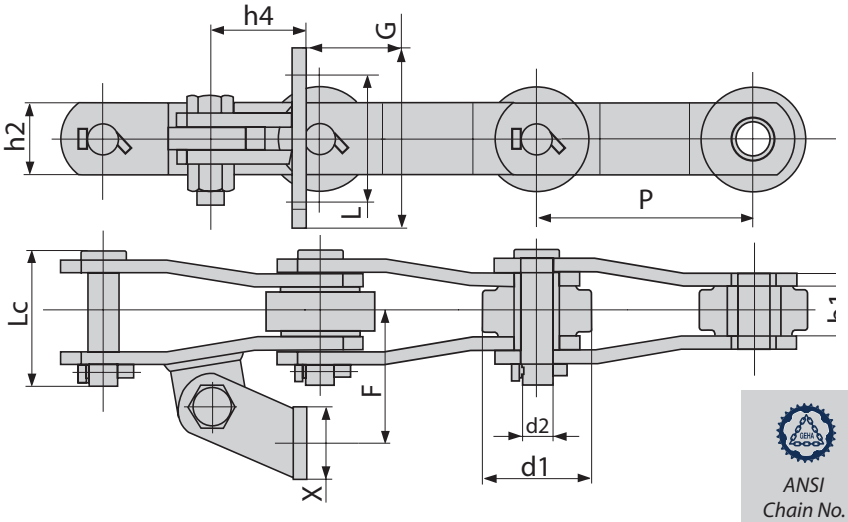
ANSI Chain No.	P mm	b1 mm	h2 mm	F1 mm	F2 mm	G1 mm
P80F8	80.0	33.8	45.0	575.0	449.0	50.0
P80F17	80.0	35.3	45.	575.0	442.2	50.0

Sugar chains



ANSI Chain No.	P mm	G mm	L mm	F mm	W mm	h4 mm	d4 mm
GH9063	152.4	114.3	76.2	111.13	165.86	47.8	14.3
GH2198	152.4	114.3	76.2	111.25	152.40	47.8	14.3

ANSI Chain No.	Pitch P mm	Bush diameter d1 max mm	Width between inner plates b1 min mm	Pin diameter d2 max mm	Pin length Lc max mm	Plate depht h2 max mm	Plate thickness T max mm	Ultimate tensile strength Q min kN/LB	Average tensile strength Qo kN	Weight per meter q kg/m
DH9063	152.4	76.20	38.1	23.83	103.2	61.00	10.3	445.0/100000	489.0	27.5
DH2198	152.4	69.85	38.1	22.23	111.2	57.15	12.7	404.5/91000	445.0	27.9

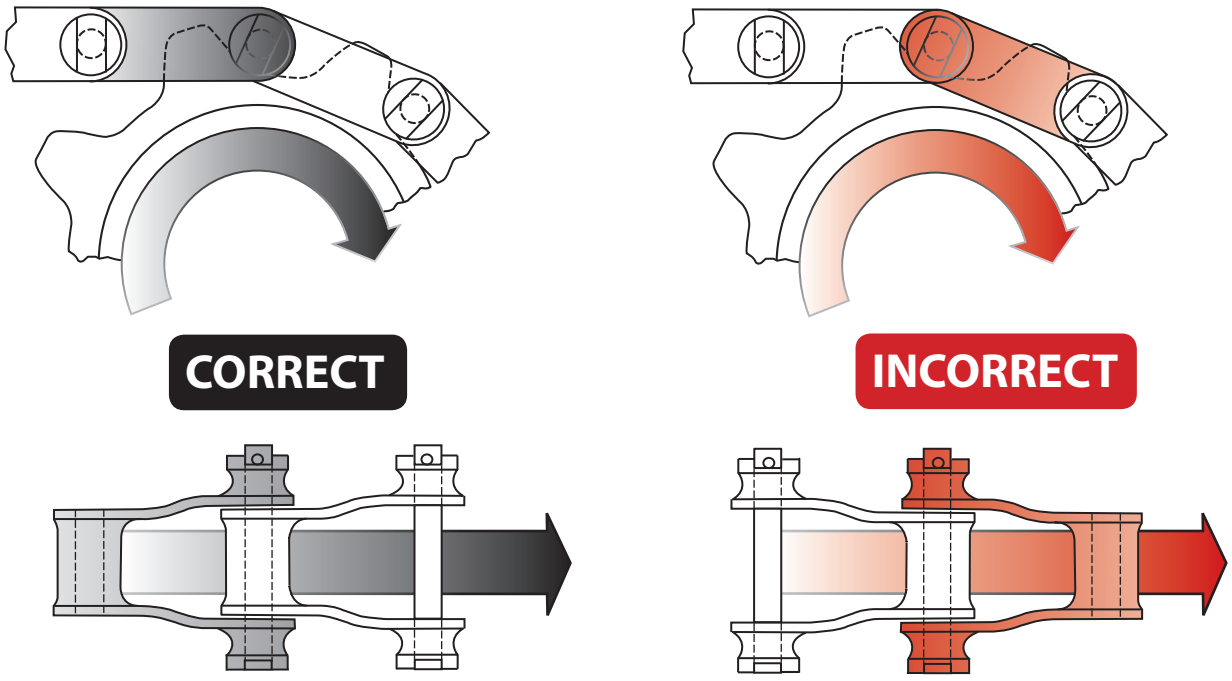


ANSI Chain No.	P mm	G mm	L mm	F mm	X mm	h4 mm
GH09060	152.4	114.3	82.6	88.9	50.8	111.25
GH1796	152.4	114.3	82.6	88.9	50.8	111.25

ANSI Chain No.	Pitch P mm	Bush diameter d1 max mm	Width between inner plates b1 min mm	Pin diameter d2 max mm	Pin length Lc max mm	Plate depht h2 max mm	Plate thickness T max mm	Ultimate tensile strength Q min kN/LB	Average tensile strength Qo kN
DH09060	152.4	69.85	38.1	19.05	96.6	61.00	9.65	270/60740	297.0
DH1796	152.4	69.85	38.1	22.35	100.0	57.15	9.65	445/100100	489.5

Travel direction for conveyor chains type CC - H - 400 Class

IMPORTANT !

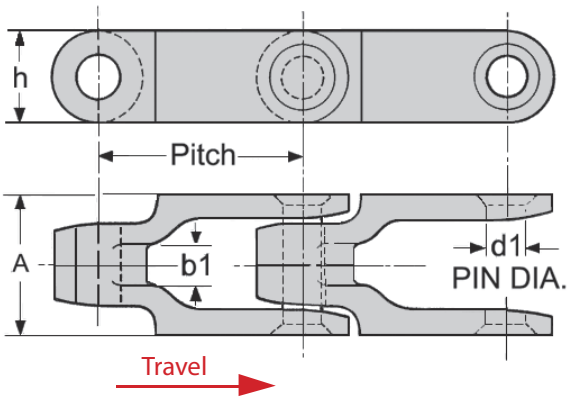


It is important to check that for conveyor and elevator work the open end of the link leads, thus obviating any frictional wear which could take place between the link and the driving wheel teeth.

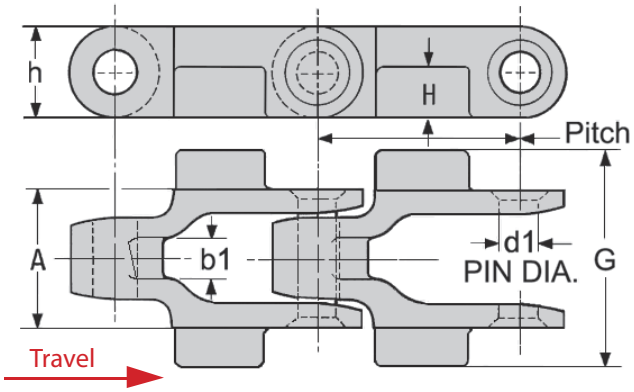
From the pictures it can be seen that if the closed end of the link leads, then the link itself rotates on the driving tooth as the wheel articulates, whereas, if in the correct position, with the open end of the link leading the following link to the one actually being driven merely articulates on its pin as the sprocket wheel revolves.

These remarks also apply to chain drives where the driver is smaller than the driven wheel, but when both are of equal size the direction of travel is immaterial.

Case carrier chain type CC



Standard Type



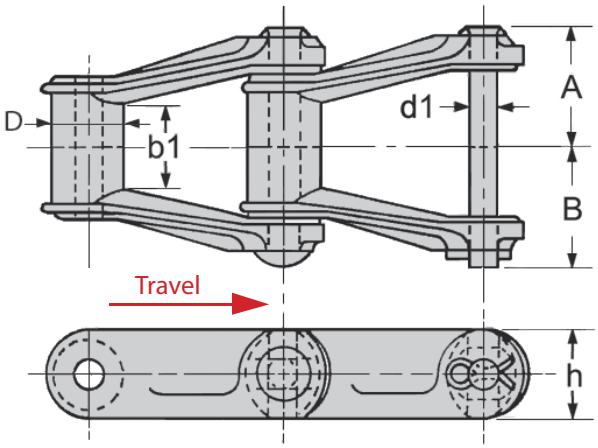
D Type

British pattern

Chain code	*Pitch mm*	*A mm*	*d1 mm*	*b1 mm*	*h mm*	*G mm*	*H mm*	*average ult. strength (Kg)*	*min. radius * mm*
CC175	44,5	33	8	6	21	-	-	2730	356
CC600	63,5	44,5	11,1	13	29,2	-	16,5	7257	483
CC600D	63,5	44,5	11,1	13	29,2	54	16,5	7257	483
CC1300	83	52	14	10	38	-	-	6800	1016
CC1300D	83	52	14	10	38	68	24	6800	1016
UD1	59	32	13	16	32	-	-	4525	792

* designed for flex in both directions
Request certified drawings for exact dimensions.

H-type mill chain - British standard



CONVEYOR CHAINS

H-type mill chains

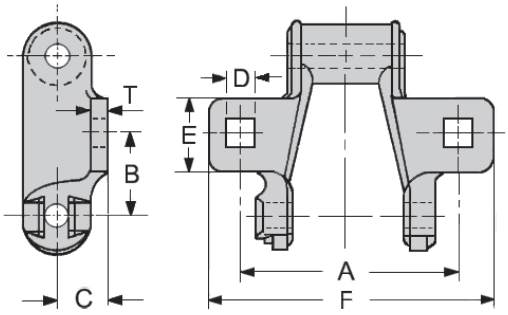
Chain code	*Pitch (inch)*	*Allowable chain pull (pounds)*	*Ultimate strength (inch) (pounds)*	*d1 inch*	*B inch*	*A inch*	*D inch*	*b1 inch*	*h inch*	*Attachments available*
H62	1,654	1030	7000	0,313	1,28	1,11	0,81	0,88	0,75	
H60	2,307	1170	7000	0,313	1,48	1,28	0,75	0,75	0,75	K1
H75	2,609	1170	7000	0,313	1,50	1,38	0,72	1,00	0,75	K1
H74	2,609	1580	10000	0,375	1,56	1,44	0,88	1,00	1,00	K1
H78	2,609	2380	16000	0,500	1,87	1,63	0,88	1,06	1,13	K1, (K2)
H79	2,609	2380	18000	0,500	2,87	1,63	0,88	1,06	1,13	K1
H82	3,075	3080	20000	0,563	2,06	1,91	1,19	1,25	1,25	K2
H124	4,000	5000	30000	0,750	2,67	2,36	1,44	1,63	1,56	K2
H131*	4,000	3840	23000	4,00	0,625	3,44	1,25	1,63	2,25	

(*) only available in riveted construction

K1-attachments

Chain Code	*A inch*	*C height*	*D inch*	*E inch*	*F inch*	*G inch*
H60	3	¾	5/16	1 1/8	4	
H74	2" 7/8	1 ¼	11/16	5/16	3 7/8	-
H75	2" 13/16	5/8	5/16	1" 7/16	3 13/16	-
H78	4	13/16	3/8	1" 3/8	5	-
H82	4" 3/16	15/16	3/8	1" ¾	5"5/16	-

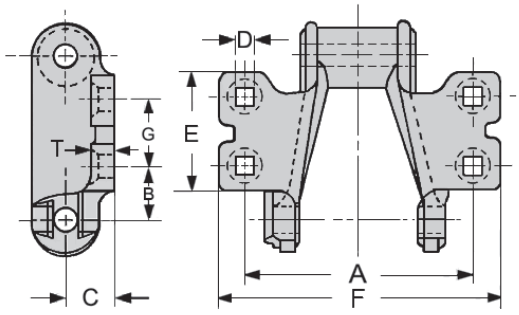
K1



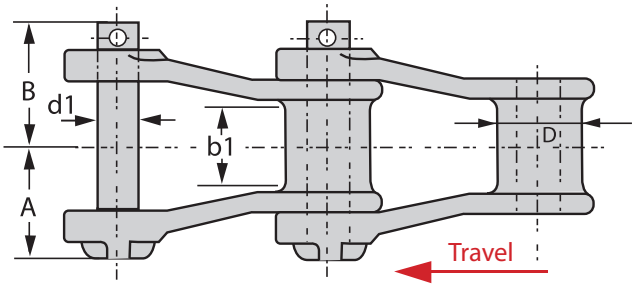
K2-attachments

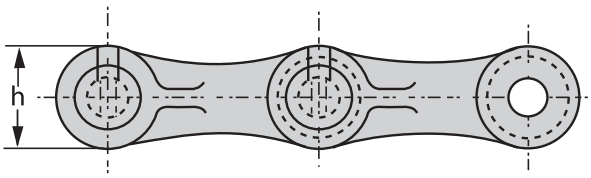
H87	4	13/16	3/8	2" 1/8	5	1" 1/8
H82	4" ½	7/8	3/8	2" 3/16	5" ½	1" 5/16
H124	5" ¼	1" 3/16	3/8	2" 7/8	6" 3/8	1" 15/16

K2



Conveying 400 class pintle chain - British standard

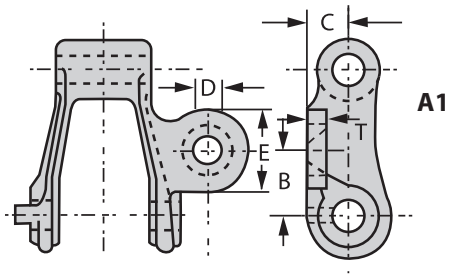




Chain code	Pitch	A	B	d1	b1	h	D	Average ult. strength (pounds)
	inch	inch	inch	inch	inch	inch	inch	
442	1,375	27/32	1" 5/32	5/16	5/8	¾	0,56	6000
445	1,630	15/16	1" 1/16	5/16	11/16	¾	0,63	6000
452	1,506	1" 1/32	1" 5/32	3/8	5/8	27/32	0,69	7000
455	1,630	1" 1/32	1" 5/32	3/8	11/16	27/32	0,63	7300
462	1,634	1" 3/16	1" 5/16	7/16	7/8	15/16	0,72	9000
477	2,308	1" 1/8	1" ¼	7/16	11/16	1	0,72	9600
488	2,609	1" 3/8	1" ½	7/16	15/16	15/16	0,91	11000
4103	3,075	1" 5/8	1" 7/8	¾	1"1/8	1" ½	1,25	22000

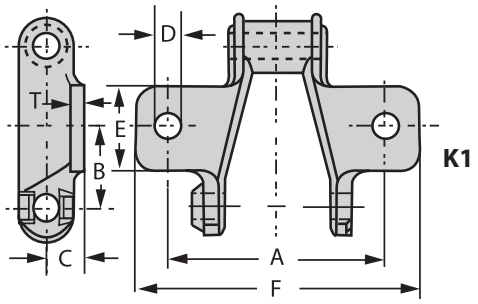
Attachment A1

Chain Code	A	B	C	D	E	F	G	T
	inch	inch	inch	inch	inch	inch	inch	inch
445	1" 5/32	¾	3/8	¼	7/8	7/16	-	3/16



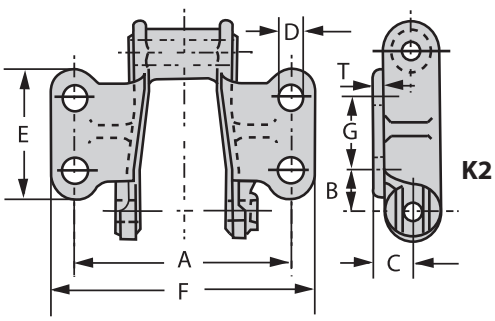
Attachment K1

442	2	11/16	7/16	3/16	¾	2" ¾	-	1/8
452	2" 1/16	¾	7/16	3/16	23/32	2" ¾	-	5/32
455	2	13/16	7/16	½	13/16	2" 7/8	-	5/32
462	2" 3/8	13/16	½	¼	15/16	3" ¼	-	5/32
477	3	1" 5/32	21/32	¼	1" 3/8	3" 15/16	-	3/16
488	3" 13/16	1" 5/16	21/32	5/16	1" 3/8	4" ¾	-	3/16
4103	4" 3/16	1" ½	13/16	3/8	1" 23/32	5" 7/16	-	7/32



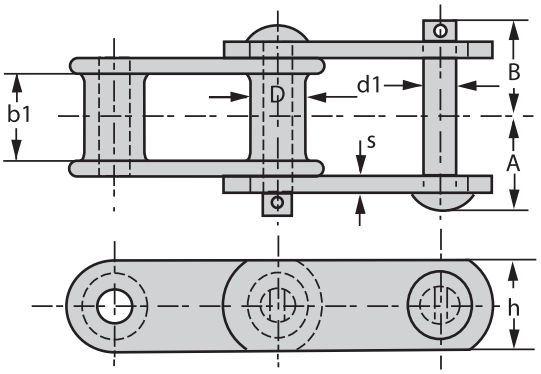
Attachment K2

488	3" 5/8	21/32	31/32	5/16	2" 1/8	4" ½	1 ¼	3/16
4103	4 1/8	25/32	27/32	½	23 5/8	53 ½	13 ½	5/16

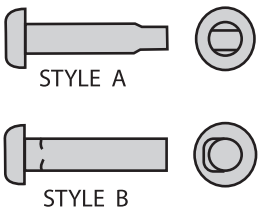


Combination chain type C - steel and malleable

Plain chain



Pin styles

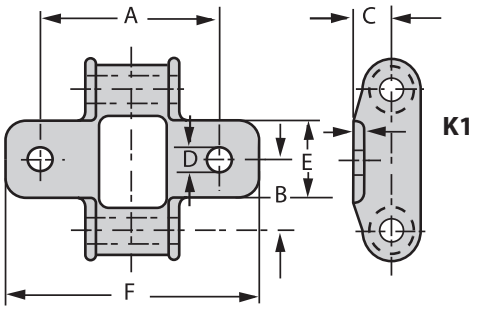


American pattern chain

Chain code	Pitch	A	B	d1	b1	h	s	D	Pin style	Average ult. strength (pounds)
	inch	inch	inch	inch	inch	inch	inch	inch		
C55	1,631	31/32	1" 3/32	3/8	11/16	¾	3/16	0,72	B	9000
C77	2,308	31/32	1" 3/16	7/16	11/16	7/8	3/16	0,72	B	11000
C102	4,00	2" 3/32	2" 15/32	5/8	2	1" ½	3/8	*	A	18000
C102B	4,00	2" 3/32	2" 15/32	5/8	2	1" ½	3/8	0,98	A	24000
C102 ½	4,040	2" 5/32	2" 21/32	¾	2	1" ¾	3/8	1,38	A	36000
C110	6,00	2" 3/32	2" 15/32	5/8	1" 15/16	1" ½	3/8	1,26	A	24000
C111	4,760	2" 3/8	2" 7/8	¾	2" 3/8	1" ¾	3/8	1,42	A	36000
C131	3,075	1" 5/8	2	5/8	1" 1/8	1" ½	3/8	1,24	B	24000
C132	6,050	3" 1/32	3" 19/32	1	3" 1/8	2	½	1,73	A	50000
C188	2,609	1" ¼	1" 5/8	½	15/16	1" 1/8	¼	0,88	B	14000

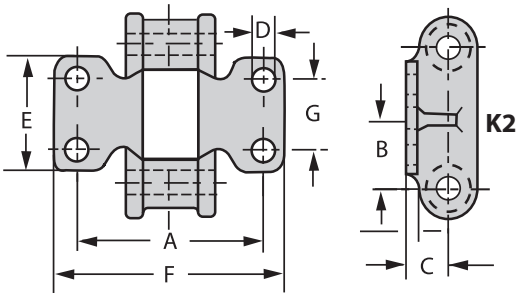
Attachment K1

Chain code	A	B	C	D	E	F	G	T
	inch	inch	inch	inch	inch	inch	inch	inch
C131	4" 1/8	1" ½	1	3/8	1" ½	5" ½	-	5/16
C188	3" ¾	1" 5/16	13/16	3/8	1" 3/16	4" 12/16	-	7/32



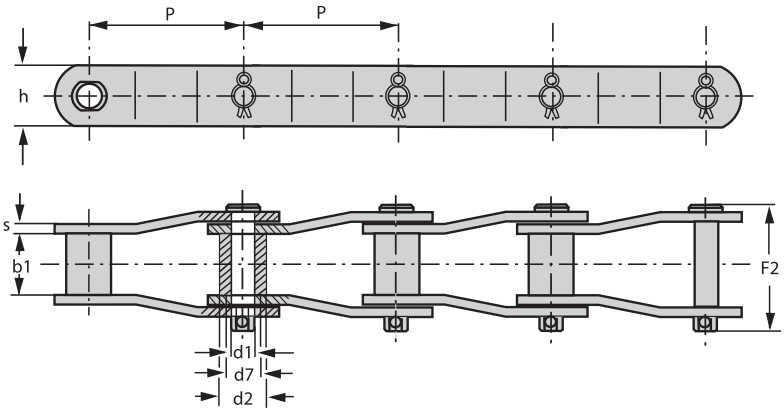
Attachment K2

Chain code	A	B	C	D	E	F	G	T
	inch	inch	inch	inch	inch	inch	inch	inch
C102	5" 5/16	2	1	3/8	2" 13/16	6" ½	1" ¾	7/32
C102B	5" 5/16	2	1	3/8	2" 13/16	6" ½	1" ¾	7/32
C102 ½	5" 5/16	2	1	3/8	2" 13/16	6" ½	1" ¾	5/16
C110	5" 5/16	3	1	3/8	2" 7/8	6" 11/16	1" ¾	¼
C111	6" ¼	2" 3/8	1" 1/8	3/8	3" ½	7" ½	2" 5/16	5/16
C131	4" 1/8	1" 17/32	1	½	2" 5/8	5" ¼	1" ½	5/16
C132	7" ½	3" 1/32	1" ¼	½	4	9	2" ¾	½



Cranked link conveyor chains - DIN 654
European standard - Malleable replacement series

Chain

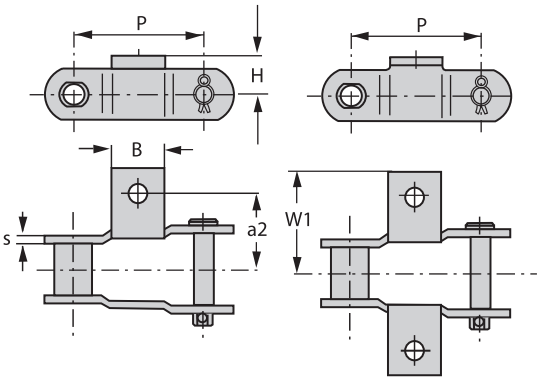


Chain code	P	b1	d1	d2	d7	h	s	F2	f	Fb-N	q
	mm	mm	mm	mm	mm	mm	mm	mm	mm	min	Kg/m
GH10210	38,7	18	7	14	10	20	3	39	1,68	25000	2,5
GH10250	41,5	20	8	17	13	25	4	47	2,24	41000	3,8
GH10270	42	25	9	19	15	26	4	53	2,97	48000	4,5
GH10340	59,5	28	9	21	17	30	5	62	3,42	56000	4,4
GH10360	63	29,5	10	21	17	30	5	63	3,95	65000	4,4
GH10390	65,5	33	12	25	18	30	6	72	5,40	78000	6,5
GH10500	87	48	17	35	28	45	6	88	10,2	90000	11,5
GH10530 (*)	100	31	12	23	18	35	5	65	4,92	73000	4,2
GH10530H (*)	100	29	13	27	19	35	8	68	5,33	98000	5,3
GH10530HH (*)	100	41	15	30	22	40	6	82	7,95	127000	8,5
GH10690	150	48	17	32	26	50	8	96	10,88	155000	10,5

FFb : breaking load (N) f : bearing area q : weight (Kg per meter) (*) dimension b1 to specify

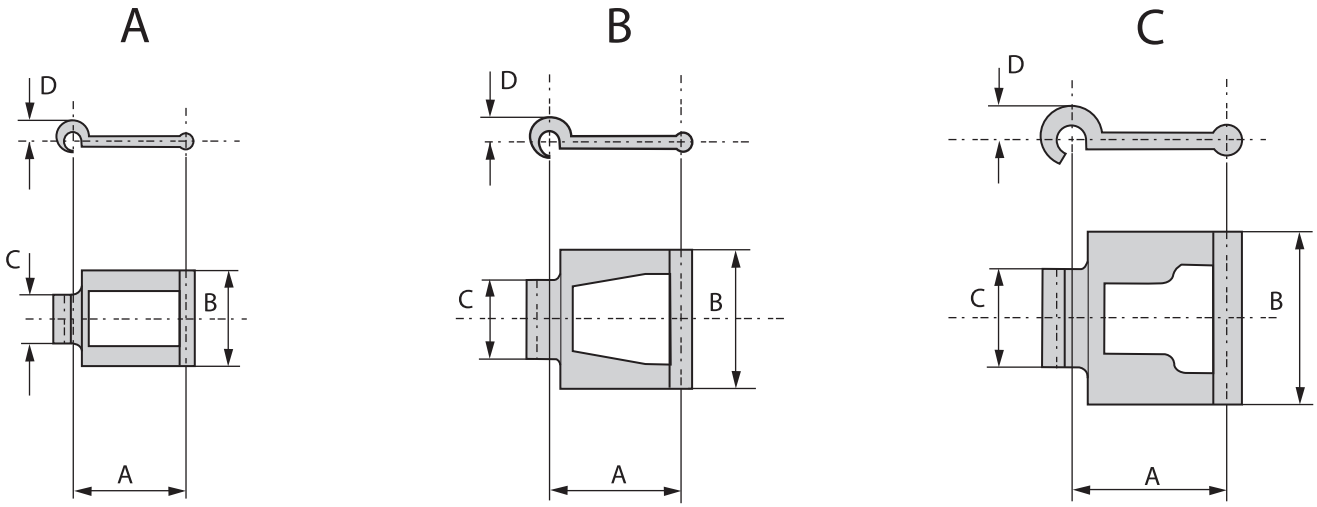
Attachments

Chain code	a2	B	H	W1-max.
	mm	mm	mm	mm
GH10210	30	23	15	42,5
GH10250	30	25	18	40
GH10270	30	25	16	42,5
GH10340	37,5	25	22	52,5
GH10360	40	25	22	52,5
GH10390	40	32	22	55
GH10500	55	45	30	70
GH10530	55	60	28	70
GH10530H	55	60	28	70
GH10530HH	60	60	30	80
GH10690	60	70	36	75



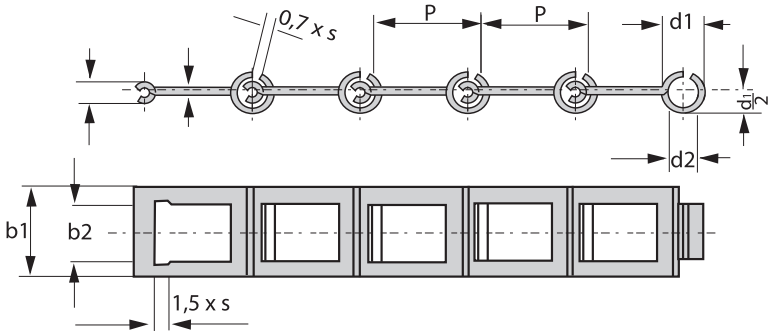
- specify attachment every ….. pitch
- specify attachments at 1 side or at both sides.

Detachable link chain



Chain Nr.	Chain (*) style	A	B	C	D	Working load N	Breaking load N	Weight Kg/m
		mm	mm	mm	mm			
KB55	A	41,7	36,5	16,5	10,5	5000	25000	1,35
KB57	A	59,0	48	24	10,5	7000	34000	1,55
KB74	A	60,6	65	28	15,7	13500	65000	3,80
KB78	B	67,1	70	28	12,5	12000	50000	3,15
KB103	C	78,5	87	32	17,7	19000	75000	5,75

* above chains also available with attachments.



Chain Nr.	pitch p	d1 mm	d2 mm	d3 mm	d1/2 mm	b1 mm	b2 mm	s mm	Breaking load N	Weight Kg per 100 links
KE25	23	9	5,2	3,8	4,5	21	12	1,9	4300	0,84
KE32	29,5	12	7	5,7	6	26	14,5	2,5	7500	1,65
KE33	35	13	7,3	5,8	6,5	29	15	2,85	8000	2,60
KE42	35	14	8,3	6	7	33	20	2,85	10500	3,00
KE52	38,5	16	9,3	8	8	37	21,5	3,35	12200	4,49
KE55	41,3	16	9,3	8	8	35,5	20	3,35	12600	4,50
KE62	42	18	10	7,8	9	42	25,5	4	20000	6,65
KE67	58,5	24	14,3	10	12	52	28	4,85	23000	13,74