CONVEYOR CHAINS, ELEVATOR CHAINS & SPROCKETS

2019

Meritt

Your Material Handling Partner

MERITT TRANSMISSIONS

Established in 1987, Meritt Transmissions, has over the years, emerged as leading manufacturers and exporters of Conveyor Chains, Elevator chains and Sprockets.

Meritt products are engineered for long, trouble-free service, and are available in extensive range of types and sizes, for convenient Material Handling,

Meritt Transmissions has comprehensive design and manufacturing capabilities as well as a dedicated team of professionals, to cater to all aspects of manufacturing, quality-control, product application, and after sales services, and is today, a name to reckon with in the field of power transmission and conveying products. In it's thirty-second year of existence, Meritt Transmissions commitment to quality has led to tremendous success, in domestic and international market, Meritt is exporting its products regularly to various countries in South East Asia, Australia, Africa, Europe, America etc.

MISSION

- "Our product must surpass our customers' expectation, so much so that we receive every new order and referred to new Customers."
- " Customers grievances are the ways of learning."
- Taking it higher !!! "continuous improvement in quality & service each time."

CONVEYOR CHAINS, ELEVATOR CHAINS & SPROCKETS

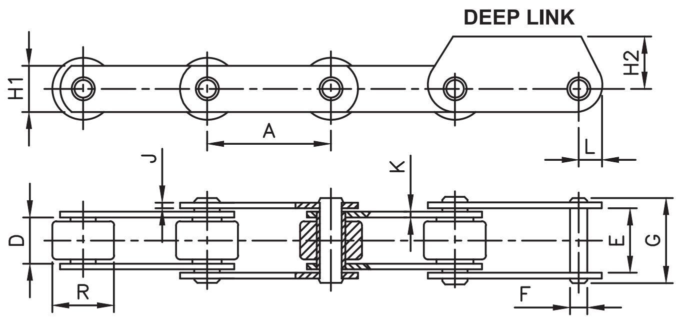
Meritt Transmissions manufacturers wide range of conveyor and elevator chains and sprockets as per BS, ANSI, JIS, Metric and DIN Standards, and many other special chains as per customers requirement for Breweries, Automobiles, Machine tool, Sugar, Cement, Fertiliser and other Industries

Meritt chains and sprockets are well known for its cost effectiveness with reliability of strength, higher bearing pin area, thereby cutting replacement cost and are available within short delivery time.

CONTENTS PAGE NO.

BS CONVEYOR CHAIN - SOLID BEARING PIN CHAIN

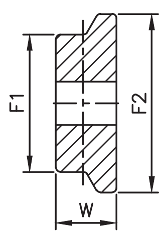
The solid bearing pin chain has the same gearing dimensions i.e pitch, inside width and roller diameter as the equivalent hollow bearing pin chain. It has higher breaking load rating and is more robust and recommended for arduous conditions. Any type of attachment can be fixed as per the requirements. Based on the strength of the chain, minimum and maximum pitches are available. The minimum pitch is governed by the need for adequate wheel tooth strength and the maximum pitch being decided by link and general chain rigidity. Deep Link Chain has side link with a greater depth than the normal chain link. These provide a continuos carrying edge above the roller periphery. These chains has generally solid bearing pins but it can be supplied in hollow version if required. In addition to the standard chain and rollers, these chains are available in stainless stee, zinc plated, flange roller, nylon roller etc. Standard Pitches Chain : 1.5", 2", 2.5", 3", 4", 6" and 8".



ALL DIMENSIONS ARE IN mm

Meritt Chain Series	Breaking Load		Meritt Chain No.	Pitch (Inch)	Pitch (mm)	Roller Dia	Inside Width inner	Width Outer	Pin Dia	Length	Plate Height	Height	Thk. Outer	Thk. Inner	Wt Kg./ mtr.
	lbf	kg		A	A	R max	D min	E min	F max	G max	H1	H2	J	K	
M–3 S	3000	1400	M–3S x 1.5	1.5	38.1	25.4	11.7	16.0	5.7	21.8	18.0	16.0	1.8	1.8	1.05
			M–3S x 2.0	2.0	50.8										0.95
			M–3S x 2.5	2.5	63.5										0.85
			M–3S x 3.0	3.0	76.2										0.80
			M–3S x 4 .0	4.0	101.6										0.75
M–7 S	7500	3500	M–7S x 2 .0	2.0	50.8	31.75	15.0	25.4	14.0	38.0	25.4	26.0	4.0	4.0	3.95
			M–7S x 2.5	2.5	63.5										3.50
			M–7S x 3.0	3.0	76.2										3.20
			M–7S x 4.0	4.0	101.6										2.80
			M–7S x 6.0	6.0	152.4										2.45
M–15 S	15000	6800	M–15S x 3.0	3.0	76.2	47.62	19.0	32.5	19.0	46.0	38.1	32.0	4.0	5.0	7.65
			M–15S x 4.0	4.0	101.6										6.50
			M–15S x 6.0	6.0	152.4										5.30
			M–15S x 8.0	8.0	228.6										4.75
M–30 S	30000	13500	M–30S x 4.0	4.0	101.6	66.70	25.4	43.0	26.9	60.0	50.0	45.0	6.0	8.0	14.9
			M–30S x 6.0	6.0	152.4										11.79
			M–30S x 8.0	8.0	228.6										10.15
			M–30S x 12.0	12.0	304.8										8.55
M–45 S	45000	20500	M–45S x 6.0	6.0	152.4	88.90	38.1	59.0	31.8	82.5	62.0	-	8.0	10.0	25.35
			M–45S x 8.0	8.0	228.6										21.25
			M–45S x 12.0	12.0	304.8										16.95
M–60 S	60000	27200	M–60S x 6.0	6.0	152.4	88.90	38.1	59.0	23.0	80.0	62.0	-	8.0	10.0	24.55
			M–60S x 8.0	8.0	228.6										20.95
			M–60S x 12.0	12.0	304.8										16.85
M–90 S	90000	41000	M–90S x 6.0	6.0	152.4	88.90	38.1	66.3	29.4	94.0	62.0	-	10.0	12.0	30.55
			M–90S x 8.0	8.0	228.6										25.70
			M–90S x 12.0	12.0	304.8										21.50

STANDARD FLANGED ROLLER			
Meritt Chain No.	Tread Dia F1 mm	Flange Dia F2 mm	Roller Width W mm
M–3 S	–	–	–
M–7 S	31.8	41.3	14.0
M–15 S	47.6	60.3	17.8
M–30 S	66.7	85.7	24.0
M–45 S	88.9	114.3	36.8
M–60 S	88.9	114.3	36.8
M–90 S	88.9	114.3	36.8



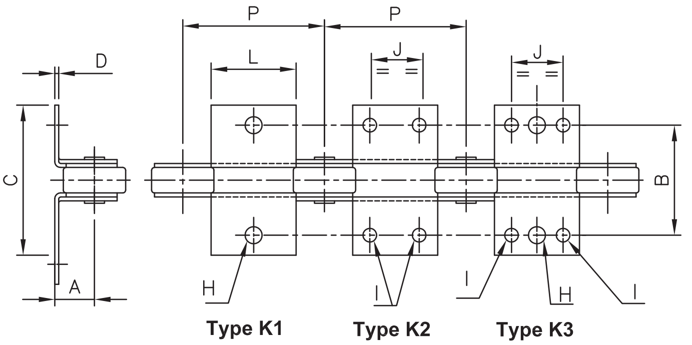
Note:

1. Above chains are available in stainless steel also.
2. Above chains can be supplied with flanged rollers.
3. Intermediate pitches are available.
   It is recommended to select standard pitches for faster delivery and competitive price.
4. Chain with Deep Link plate are available

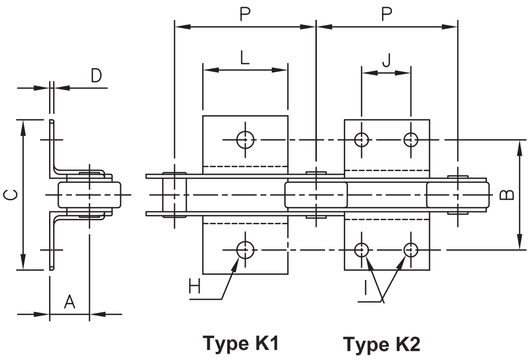
Dimensions subject to change. Certified dimensions furnished upon request.

BS CONVEYOR CHAIN - K ATTACHMENT

An attachment chain is any part fitted to the base chain to adapt it for a particular purpose as a conveying medium. Attachment may form an integral part of the link plate or welded or bolted on one side or both side of link plate. Slats, scrapers, buckets etc. can be fixed on K attachments. Any special attachment can be manufactured but wherever possible standard attachment should be use for competitive price and faster delivery.



I : INTEGRAL ATTACHMENTS



W : WELDED ATTACHMENTS

All Dimensions are in mm

Meritt Chain No.	Att. Type	Breaking Load lbf	Breaking Load Kg	Chain Pitch P	Att. Height A	Att. Length L	Trans-varase pitch B	Width over Attachment Inner C	Width over Attachment Outer C	Att. Thk. D	Att. Type Inner/ Outer	Att. Angle Size	Att. A1/K1 Hole Dia H	Att. A2/K2 Hole Dia I	Att. A3/K3 Hole Dia H	Att. A3/K3 Hole Dia I	Att. Hole Pitch J	Att. Wt. Kg/pc
M-3S	I	3000	1400	38.1	16.5	19.1	44.5	66	70	1.8	K1		9.2	-	-		-	0.01
				50.8		44.5					K2		-	7.4	-	7.4	25.4	0.02
				63.5		44.5					K2		-	7.4	-	7.4	25.4	0.02
				76.2		44.5					K2		-	7.4	-	7.4	25.4	0.03
				101.6		70.0					K2		-	7.4	-	7.4	25.4	0.03
M-6 H/ M-7 S	I	6000/ 7500	2700/ 3500	50.8	19.0	38.0	76.2	106	115	4.0	K1		10.5	-	-	-	-	0.05
				63.5		43.0					K1/K2		10.5	9.2	-	-	22.2	0.05
				76.2		50.0					K3		10.5	9.2	10.5	9.2	22.2	0.05
				101.6		64.0					K3		10.5	9.2	10.5	9.2	31.8	0.08
				152.4		110.0					K3		13.7	-	10.5	9.2	57.2	0.14
M-12 H/ M-15 S	I	12000/ 15000	5500/ 6800	76.2	31.8	60.0	89.0	130	136	5/4	K1		13.7	-	-	-	31.8	0.12
				101.6		60.0					K3		13.7	10.5	13.7	10.5	31.8	0.12
				152.4		110.0					K3		13.7	10.5	13.7	10.5	57.2	0.25
M-12 H/ M-15 S	W	12000/ 15000	5500/ 6800	76.2	31.8	35.0	89.0	125	136	5	K1	50 x 50 x 5	13.7	-	-	-	-	0.12
				101.6		56.0					K2		-	10.5	-	-	31.8	0.16
				127.0		84.0					K2		-	10.5	-	-	57.2	0.20
				203.2		127.0					K2		-	10.5	-	-	88.9	0.40
M-24 H/ M-30S	W	24000/ 30000	11000/ 13500	101.6	38.0	35.0	108.0	145	159	6.0	K1	50 x 50 x 6	15.3	-	-	-	-	0.25
				127.0		56.0					K1/K2		15.3	12.2	-	-	31.8	0.30
				152.4		84.0					K2		-	12.2	-	-	57.2	0.40
				203.2		127.0					K2		-	12.2	-	-	88.9	0.60
M-36 H/ M-45 S/ M-60 S	W	36000/ 45000/ 60000	13500/ 20500/ 27200	152.4	51.0	70.0	146.0	182	200	8.0	K1/K2	63 x 63 x 8	16.9	13.7	-	-	38.1	0.50
				203.2		112.0					K2		-	13.7	-	-	76.2	0.90

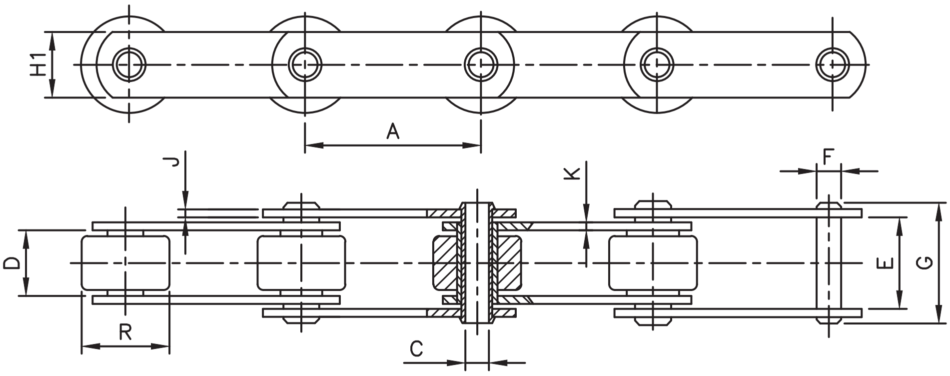
Note:

1. The above attachments are generally used for solid pin chains. If required it can be used with hollow pin chains also.
2. The above attachments can have with flanged roller also.

Dimensions subject to change. Certified dimensions furnished upon request.

BS CONVEYOR CHAIN - HOLLOW BEARING PIN CHAIN

This chain has all the bearing pin hollow. The hollow bearing type chain gives easy facility for fixing attachments to outer links by bolting through the hollow bearing pins. Spigot pins may be assembled through hollow bearing pin and are secured by a nut or spring washer. It is suitable for use in normal conditions. Based on the strength of the chain, minimum and maximum pitches are available. The minimum pitch is governed by the need for adequate wheel tooth strength and the maximum pitch being decided by link and general chain rigidity. In addition to the standard chain and roller, these chains are available in stainless steel, zinc plate, flange roller, nylon roller etc. Standard pitches chain : 1.5", 2", 2.5", 3", 4", 6" and 8".

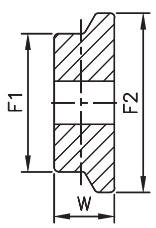


ALL DIMENSIONS ARE IN mm

Meritt Chain Series	Breaking Load		Meritt Chain No.	Pitch (Inch)	Pitch (mm)	Roller Dia	Hollow Bearing Pin Bore Dia	Inside Width inner	Width Outer	Pin Dia	Length	Plate Height	Thk. Outer	Thk. Inner	Wt Kg./ mtr.
	lbf	kg		A	A	R max	c min	D min	E min	F min	G min	H1	J	K	
M–4 H	4500	2000	M–4H x 1.5	1.5	38.1	25.4	6.6	12.7	17.8	9.5	24.6	19.1	1.8	2.3	2.00
			M–4H x 2.0	2.0	50.8										1.65
			M–4H x 2.5	2.5	63.5										1.45
			M–4H x 3.0	3.0	76.2										1.35
M–6 H	6000	2700	M–6H x 2.0	2.0	50.8	31.75	10.1	15.0	25.4	14.0	36.5	25.4	4.0	4.0	3.50
			M–6H x 2.5	2.5	63.5										3.20
			M–6H x 3.0	3.0	76.2										2.95
			M–6H x 4.0	4.0	101.6										2.65
			M–6H x 6.0	6.0	152.4										2.30
M–12 H	12000	5500	M–12H x 3.0	3.0	76.2	47.62	13.2	19.0	32.5	19.0	44.0	38.1	4.0	5.0	7.10
			M–12H x 4.0	4.0	101.6										6.10
			M–12H x 6.0	6.0	152.4										5.08
			M–12H x 8.0	8.0	228.6										4.45
M–24 H	24000	11000	M–24H x 4.0	4.0	101.6	66.70	20.1	25.4	45.0	26.9	61.0	50.0	6.0	8.0	13.3
			M–24H x 6.0	6.0	152.4										11.45
			M–24H x 8.0	8.0	228.6										9.40
			M–24H x 12.0	12.0	304.8										8.05
M–36 H	36000	16500	M–36H x 6.0	6.0	152.4	88.90	23.1	38.1	59.0	31.8	79.5	62.0	8.0	10.0	23.3
			M–36H x 8.0	8.0	228.6										19.65
			M–36H x 12.0	12.0	304.8										15.95

STANDARD FLANGED ROLLER

Meritt Chain No.	Tread Dia F1 mm	Tread Dia F2 mm	Tread Dia W mm
M–6 H	31.8	41.3	14.0
M–12 H	47.6	60.3	17.8
M–24 H	66.7	85.7	24.0
M–36 H	88.9	114.3	36.8

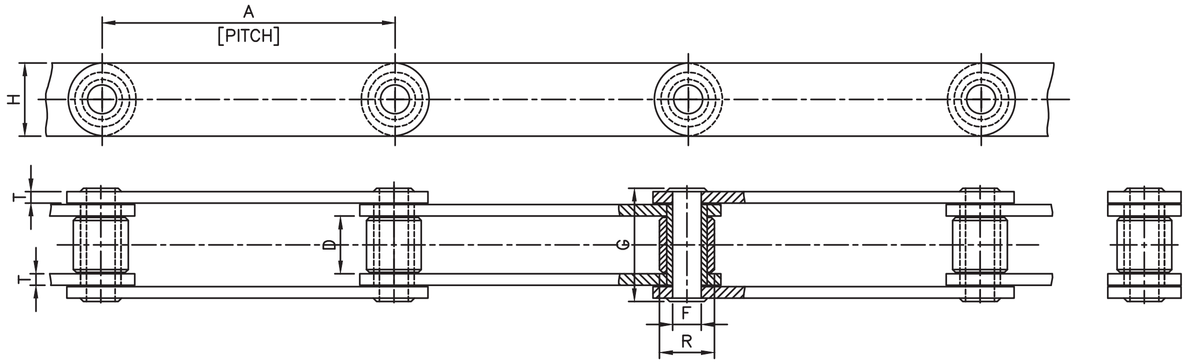


Note:

1. Above chains are available in stainless steel also.
2. Above chains can be supplied with flanged rollers.
3. Intermediate pitches are available.
   It is recommended to select standard pitches for faster delivery and competitive price.

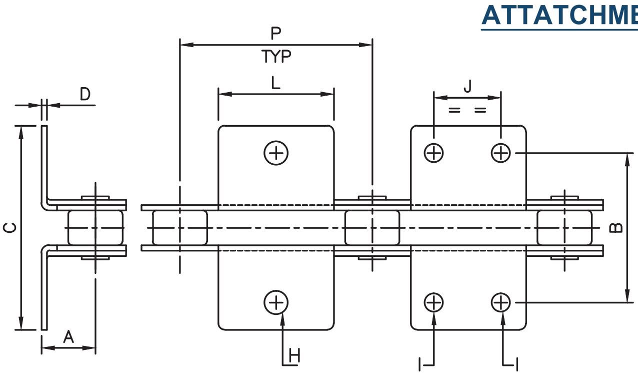
Dimensions subject to change. Certified dimensions furnished upon request.

CONVEYOR CHAIN WTH SMALL ROLLER



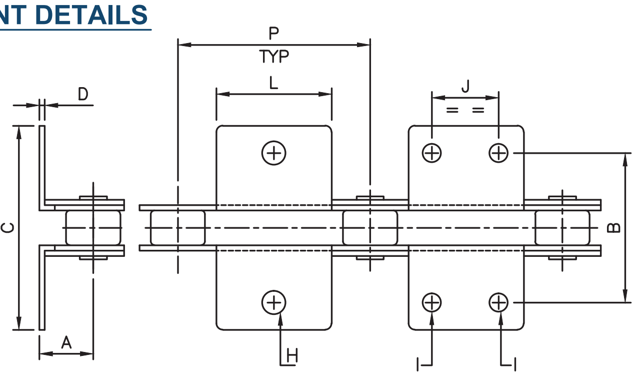
Meritt Chain No.	Breaking Load	Chain Pitch	Roller Dia.	Inner Width	Plate Width	Plate Thk.	Pin Dia.	Overall Width	Att. Type. Available
	kgf	A	R	D	H	T	F	G	–
MSS–04	4000	76.2	19	19	25.4	4	10	42	K–1
		101.6							K–2
		152.4							K–2
MSS–08	8000	76.2	25	25	38	5	15	52	K–1
		101.6							K–2
		152.4							K–2
MSS–15	15000	101.6	35	35	50	8	19	75	K–2
		152.4							K–2
		203.2							K–2
MSS–22	22000	152.4	45	45	60	10	23	95	K–2
		203.2							K–2
		254.0							K–2

ATTATCHMENT DETAILS



TYPE K1 TYPE K2

I : INTERGAL ATTACHMENTS



TYPE K1 TYPE K2

W : WELDED ATTACHMENTS

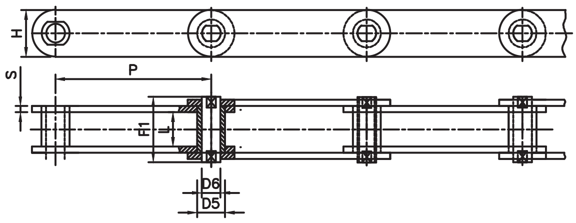
Meritt Chain No.	Att. Type.	Breaking Load	Chain Pitch	Att. Height	Att. Length	Trans-verase pitch	Width over Attachment Inner	Width over Attachment Outer	Att. Thk.	Att. Type. Inner / Outer	Att. Angle Size	Att. A1/K1 Hole Dia.	Att. A1/K1 Hole Dia.	Att. Pitch Hole Dia.
		kgf	P	A	L	B	C		D			H	I	J
MSS–04	I	4000	76.2	19.0	50.0	80	110	119	4.0	K1/K2		10.5	9.2	22.2
			101.6		64.0					K2		–	9.2	31 .8
			152.4		110.0					K2		–	9.2	57.2
MSS-08	W	8000	76.2	31 .8	35.0	95	130	141	5.0	K1	50x50x5	13.7	–	–
			101.6		56.0					K1		–	10.5	31 .8
			152.4		127.0					K1		–	10.5	57.2
MSS-15	W	15000	101.6	38.0	35.0	118	155	169	6.0	K1	50x50x6	15.3	–	–
			152.4		84.0					K2		–	12.2	57.2
			203.2		127.0					K2		–	12.2	88.9
MSS-22	W	22000	152.4	51 .0	70.0	153	189	207	8.0	K2	63x63x8	–	13.7	38.1
										K2		–	13.7	57.2
			203.2		112.0					K2		–	–	88.9

Dimensions subject to change. Certified dimensions furnished upon request.

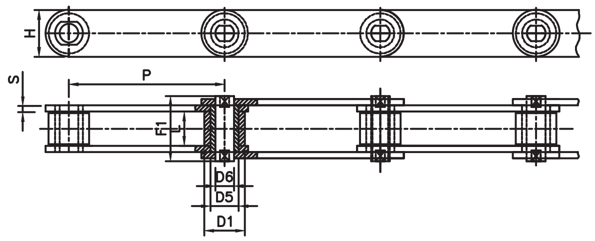
ALL DIMENSIONS ARE IN mm

FV SERIES CONVEYOR CHAIN - SOLID PIN CHAIN

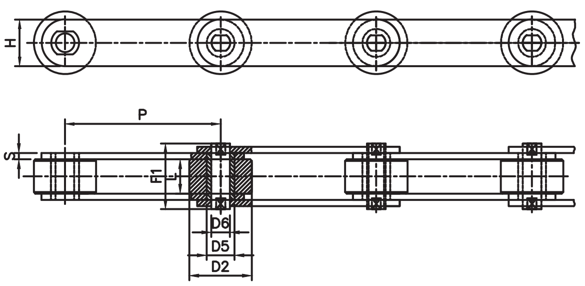
DIN-8165



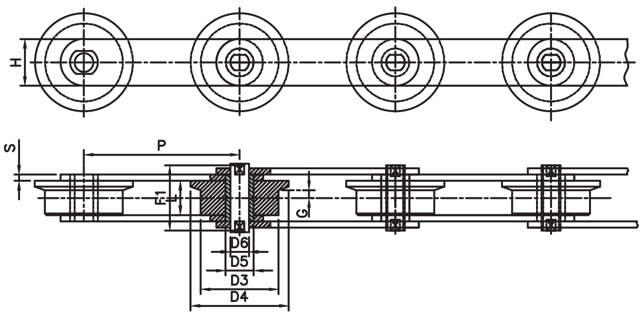
1. CHAIN WITHOUT ROLLER (BUSH TYPE)



2. CHAIN WITH SMALL ROLLER



3. CHAIN WITH LARGE ROLLER



4.CHAIN WITH FLANGE ROLLER

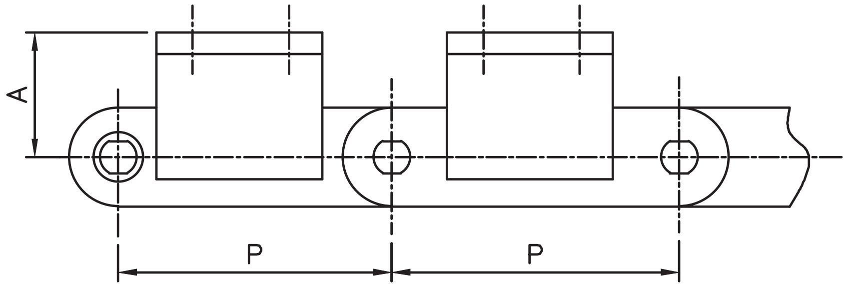
ALL DIMENSIONS ARE IN mm.

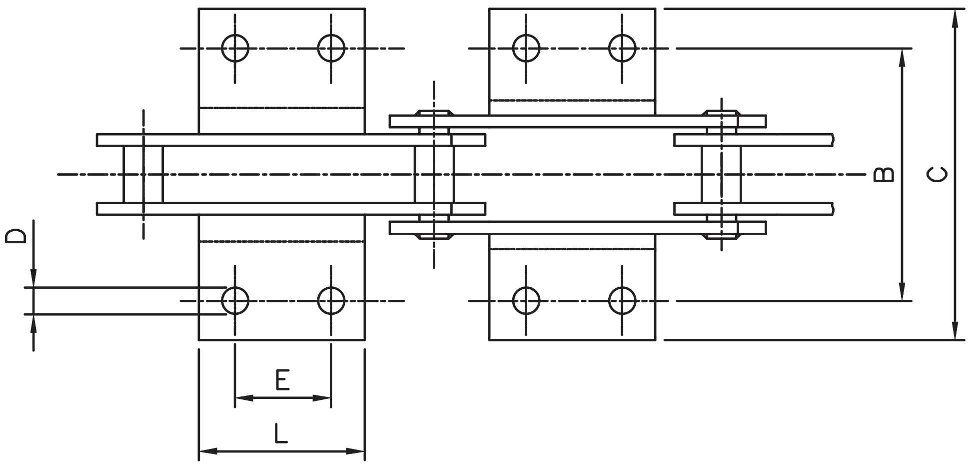
Meritt Chain No.	Breaking Load		Chain Pitch	Inner Width	Link Details		PIN O.D.	Overall Width	Bush O.D.	Rollers Details				Roller Width	Flanged Roller Centre
					Width	THK.				Small	Large	Flanged			
	Newton	kgf	P	L	H	S	D6	F1	D5	D1	D2	D3	D4	W	G
FV40	42000	4200	50 63 80 100 125	18	25	3	10	36	15	20	32	40	50	17	4
FV63	64000	6400	63 80 100 125 160	22	30	4	12	45	18	26	40	50	63	21	5
FV90	100000	10000	63 80 100 125 160 200 250	25	35	5	14	53	20	30	48	63	78	24	6.5
FV112	120000	12000	100 125 160 200 250	30	40	6	16	62	22	32	55	72	90	29	7.5
FV140	145000	14500	100 125 160 200 250	35	45	6	18	67	26	36	60	80	100	34	9
FV180	190000	19000	125 160 200 250 315	45	50	8	20	86	30	42	70	100	125	44	13
FV250	275000	27500	160 200 250 315	55	60	8	26	97	36	50	80	125	155	54	15
FV315	315000	31500	160 200 250 315 400	65	70	10	30	117	42	60	90	140	170	64	18
FV400	400000	40000	160 200 250 315 400	70	70	12	32	131	44	60	100	150	185	69	20

Dimensions subject to change. Certified dimensions furnished upon request.

FV SERIES CONVEYOR CHAIN WITH ATTACHMENT

DIN-8165





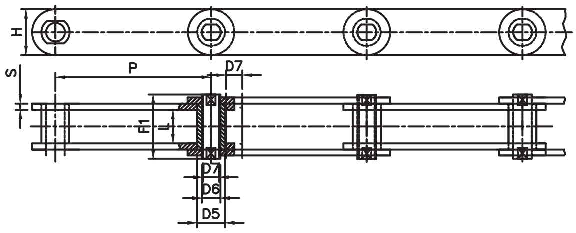
ALL DIMENSIONS ARE IN mm.

Meritt Chain No.	Breaking Load Newton	Breaking Load kgf	Chain Pitch P	Att. Height A	Att. Length L	Att. Type	Att. Hole Dia D	Width Over Attachment Inner C	Width Over Attachment Outer C	Transverse Pitch B	Att. Hole Pitch E	Att. Angle Size
FY 40	42,000	4,200	50	20	45	A1/K1	6.5	121	128	50	–	25 x 3
			63		31	A1/K1					–	
			80		45	A2/K2					25	
			100		50	A2/K2					30	
			125		60	A2/K2					30	
FY 63	64,000	6,400	63	30	40	A1/K1	8.4	91	100	68	–	30 x 4
			80		45	A2/K2					25	
			100		50	A2/K2					30	
			125		60	A1/K1					40	
			160		70	A2/K2					50	
FY 90	1,00,000	10,000	63	35	30	A1/K1	8.4	117	128	80	–	40 x 4
			80		45	A2/K2					25	
			100		50	A2/K2					30	
			125		60	A2/K2					40	
			160		70	A2/K2					50	
			200		80	A2/K2					60	
			250		85	A2/K2					65	
FY 112	1,20,00	12,000	100	40	50	A2/K2	11	127	140	100	30	40 x 6
			125		60	A2/K2					40	
			160		75	A2/K2					50	
			200		90	A2/K2					65	
			250		105	A2/K2					80	
FY 140	1,45,000	14,500	100	45	55	A2/K2	11	149	162	100	30	50 x 6
			125		65	A2/K2					40	
			160		75	A2/K2					50	
			200		90	A2/K2					65	
			250		105	A2/K2					80	
FY 180	1,90,000	19,000	125	45	63	A1/K1	13	165	182	128	35	50 x 7
			160		80	A1/K1					50	
			200		95	A2/K2					65	
			250		110	A2/K2					80	
			315		130	A2/K2					100	
FY 250	2,75,000	27,500	125	55	80	A1/K1	14	195	212	138	50	60 x 8
			160		95	A1/K1					65	
			200		110	A2/K2					80	
			250		130	A2/K2					100	

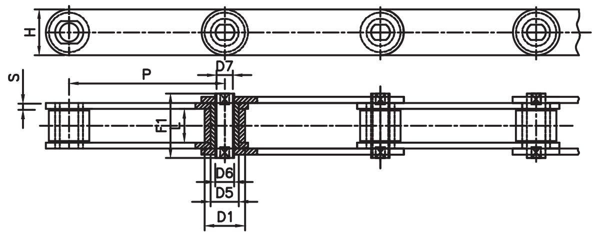
Dimensions subject to change. Certified dimensions furnished upon request.

FV SERIES CONVEYOR CHAIN - HOLLOW PIN CHAIN

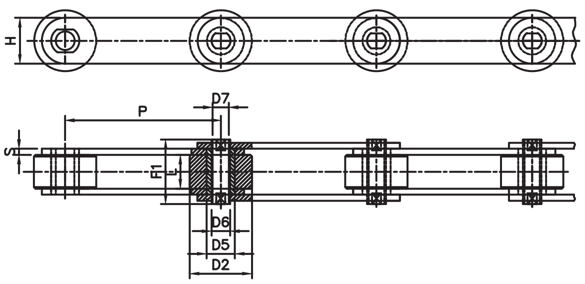
DIN-8165



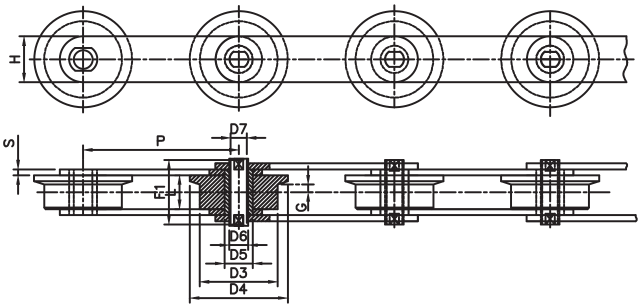
1. CHAIN WITHOUT ROLLER (BUSH TYPE)



2. CHAIN WITH SMALL ROLLER



3. CHAIN WITH LARGE ROLLER



4.CHAIN WITH FLANGE ROLLER

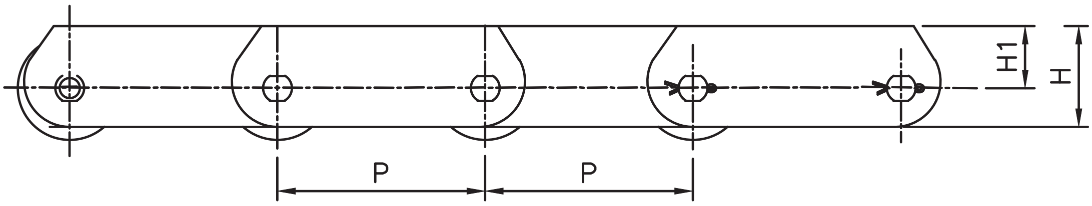
ALL DIMENSIONS ARE IN mm.

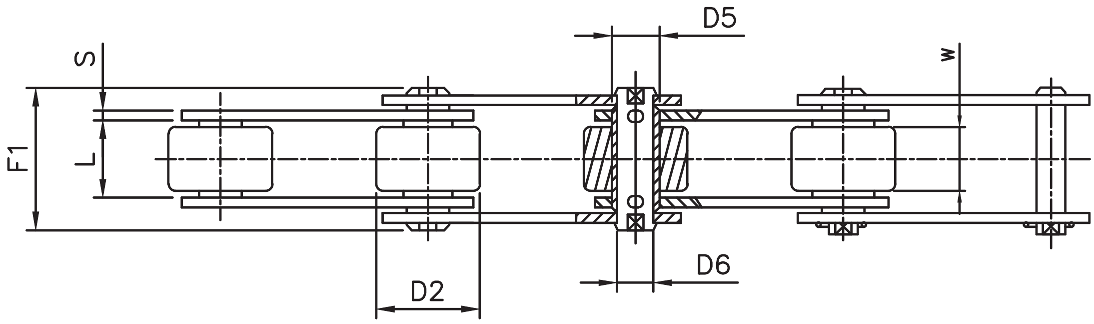
Meritt Chain No	Breaking Load		Chain Pitch	Inner Width	Link Details		PIN Details		Bush O.D.	Rollers Details				Roller Width	Flanged Roller Centre	Overall Width
					Width	THK.	O.D.	Bore		Small	Large	Flanged				
	Newton	kgf	P	L	H	S	D6	D7	D5	D1	D2	D3	D4	W	G	F1
FVC63	46000	4600	63 80 100 125 160	22	30	4	12	8	18	26	40	50	64	21	5	45
FVC90	73000	7300	63 80 100 125 160 200 250	25	35	5	14	10	20	30	48	63	78	24	6.5	53
FVC112	90000	9000	100 125 160 200 250	30	40	6	16	11	22	32	55	72	90	29	7.5	62
FVC140	110000	11000	100 125 160 200 250	35	45	6	18	12	26	36	60	80	100	34	9	67
FVC180	145000	14500	125 160 200 250 315	45	50	8	20	14	30	42	70	100	125	44	13	86
FVC250	215000	21500	160 200 250 315	55	60	8	26	18.2	36	50	80	125	155	54	15	98
FVC315	290000	29000	160 200 250 315 400	65	70	10	30	20.2	42	60	90	140	170	64	18	117
FVC400	333000	33300	160 200 250 315 400	70	70	12	32	22.2	44	60	100	150	180	69	20	131

Dimensions subject to change. Certified dimensions furnished upon request.

FVT SERIES DEEP LINK CHAIN

DIN-8165



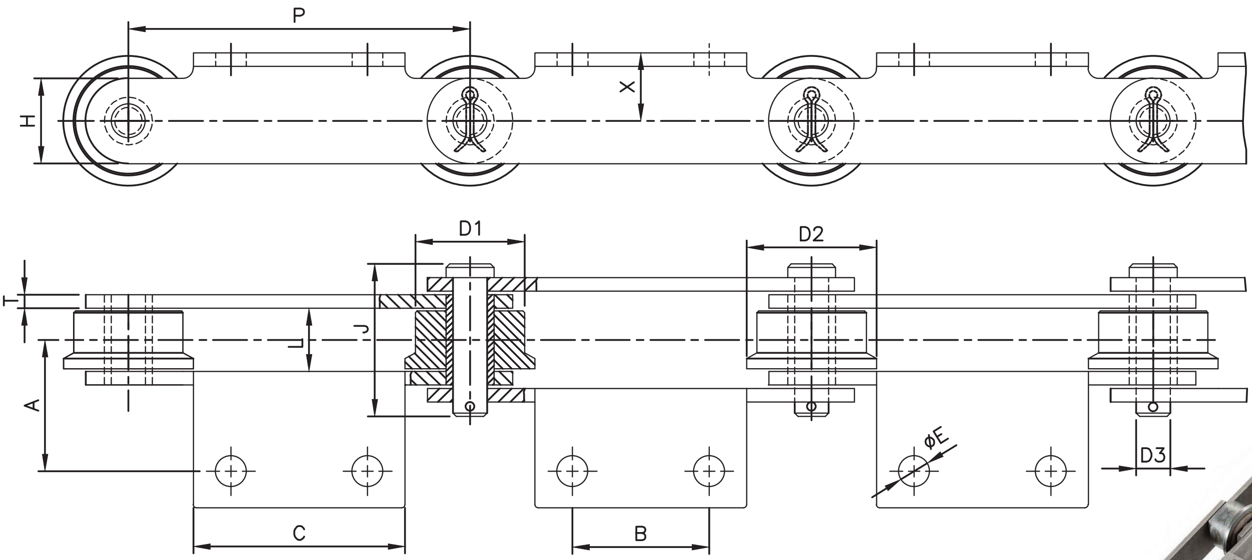


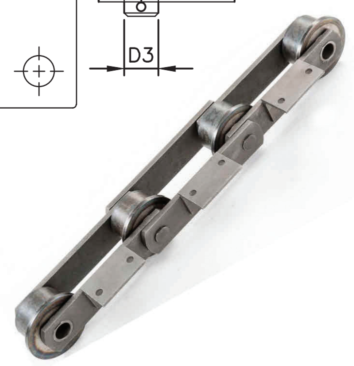
ALL DIMENSIONS ARE IN mm.

Meritt Chain No	Breaking Load		Chain Pitch	Inner Width	Link Details			PIN O.D.	Bush O.D.	Rollers Details		Overall Width
					Width	Height	THK.			O.D.	Width	
	Newton	kgf	P	L	H	H1	S	D6	D5	D2	W	F1
FVT40	42000	4200	50 63 80 100 125	18	35	22	3	10	15	32	17	36
FVT63	64000	6400	63. 80 100 125 160	22	40	25	4	12	18	40	21	45
FVT90	100000	10000	63 80 100 125 160 200 250	25	45	27.5	5	14	20	48	24	53
FVT112	120000	12000	100 125 160 200 250	30	50	30	6	16	22	55	29	62
FVT140	145000	14500	100 125 160 200 250	35	60	37.5	6	18	25	60	34	67
FVT180	190000	19000	125 160 200 250 315	45	70	45	8	20	30	70	44	86
FVT250	275000	27500	160 200 250 315	55	80	50	8	26	36	80	54	97

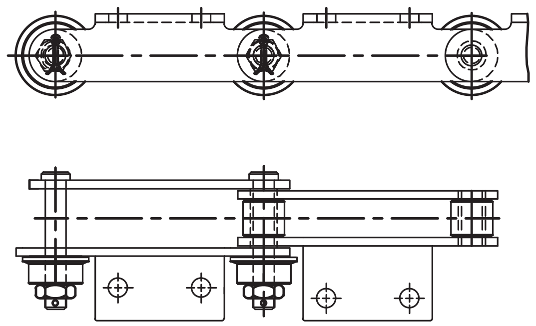
Dimensions subject to change. Certified dimensions furnished upon request.

SLAT CONVEYOR CHAIN WITH FLANGE ROLLER

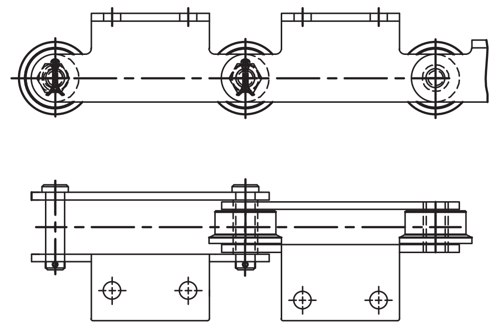




BREAKING LOAD	MERITT CHAIN NO.	PITCH (P)	FLANGED ROLLERS		INNER WIDTH	PIN Ø	PIN LENGTH	PLATE HT.	PLATE THK.	ATTACHMENT DIMENSIONS				
kg		(mm)	D1	D2	L	D3	J	H	T	A	B	C	E	X
3500	M-7SFR X 4	100.0	32.0	38.0	18.5	10.0	47.0	25.4	4.0	33.5	40.0	62.0	9.0	19.8
6800	M-15SFR X 4	101.6	47.5	60.6	29.0	19.0	61.0	38.0	5.0	44.5	38.1	76.2	13.1	32.0
6800	M-15SFR X 6	152.4	47.5	60.6	29.0	19.0	61.0	38.0	5.0	44.5	57.2	110.0	13.1	32.0
13500	M-30SFR X 6	152.4	66.7	85.7	36.0	26.9	80.0	50.0	8.0	64.0	57.2	107.0	15.3	42.0



OBR - TYPE
OUT BOARD ROLLER TYPE

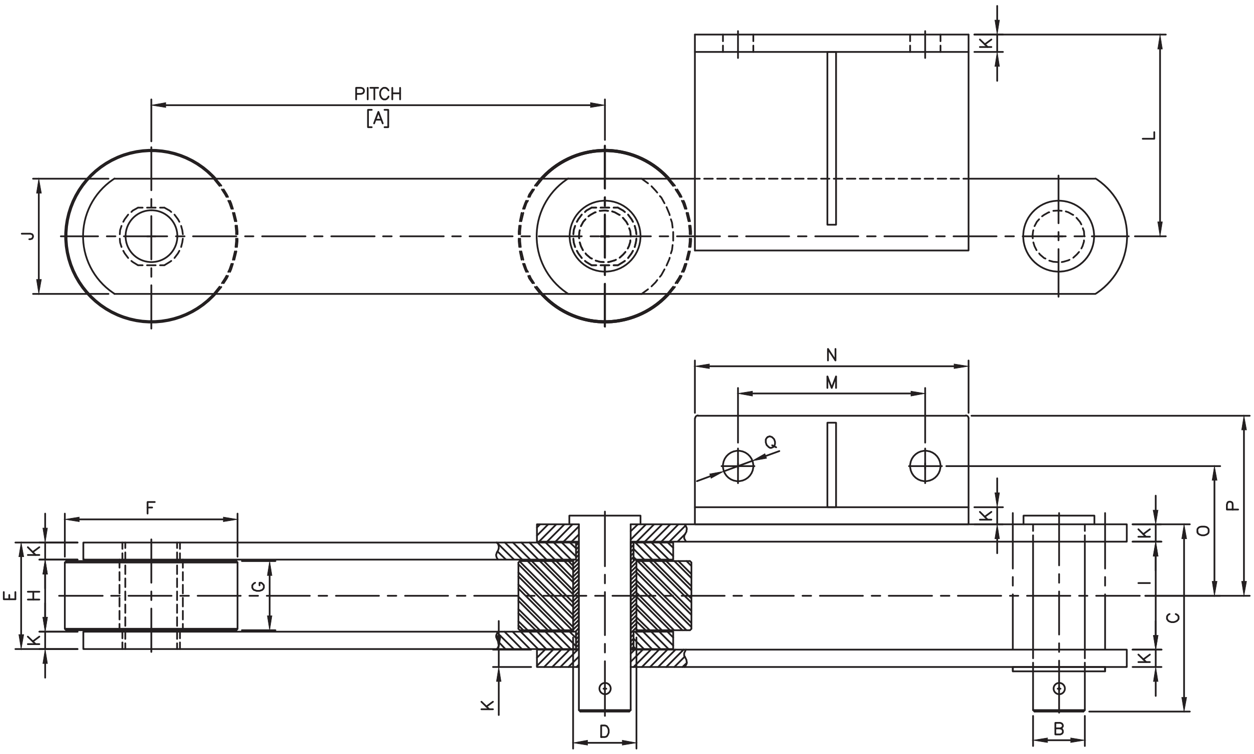


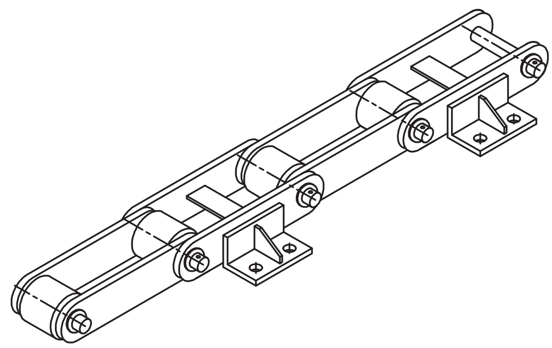
HB - TYPE
HIGH BENDING TYPE

NOTE:
1. M–30SFR x 6 CAN BE SUPPLIED WITH BALL BEARING.

Dimensions subject to change. Certified dimensions furnished upon request.

RECLAIMER CHAIN





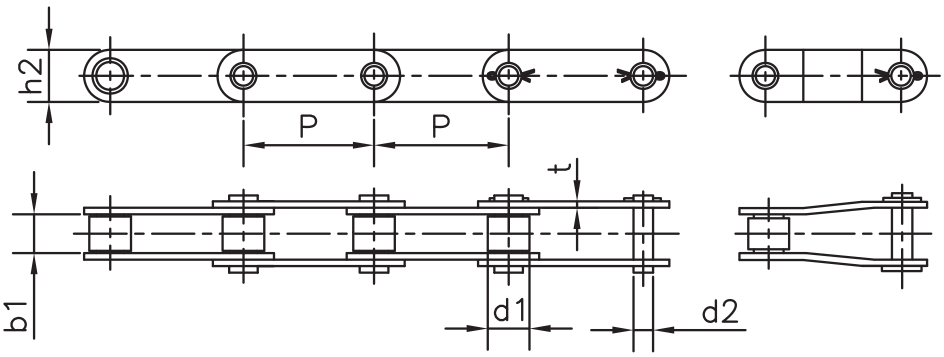
BREAKING LOAD [Kgf.]	MERITT CHAIN NO.	PITCH (A)	LINK		ROLLER		BUSH		PIN		WIDTH OVER ATTACHMENT		ATTACHMENT DIMENSIONS					
			WIDTH	THK.	Ø	LENGTH	Ø	LENGTH	Ø	LENGTH								
		(mm)	J	K	F	G	D	E	B	C	H	I	L	M	N	O	P	Q
60,000	MT315RC	315.0	80.0	12.0	120.0	48.0	44.0	74.0	36.0	130.0	50.0	75.0	140.0	130.0	190.0	90.0	125.0	21.0

Note:
Available in other pitches also

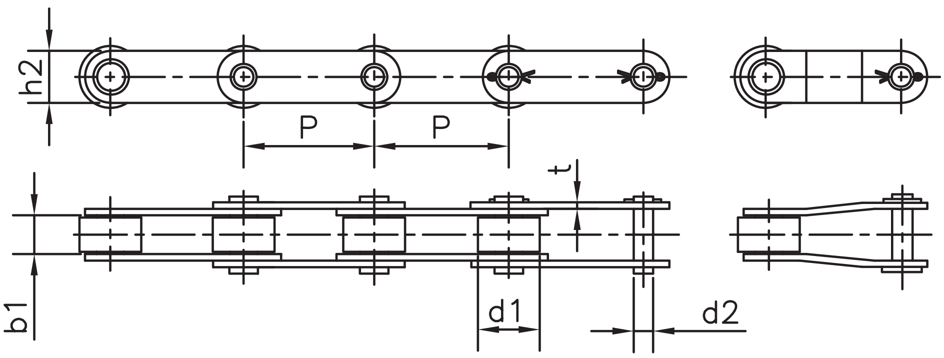
Dimensions subject to change. Certified dimensions furnished upon request.

DOUBLE PITCH ROLLER CONVEYOR CHAINS

STANDARD
ROLLER TYPE



OVERSIZE
ROLLER TYPE

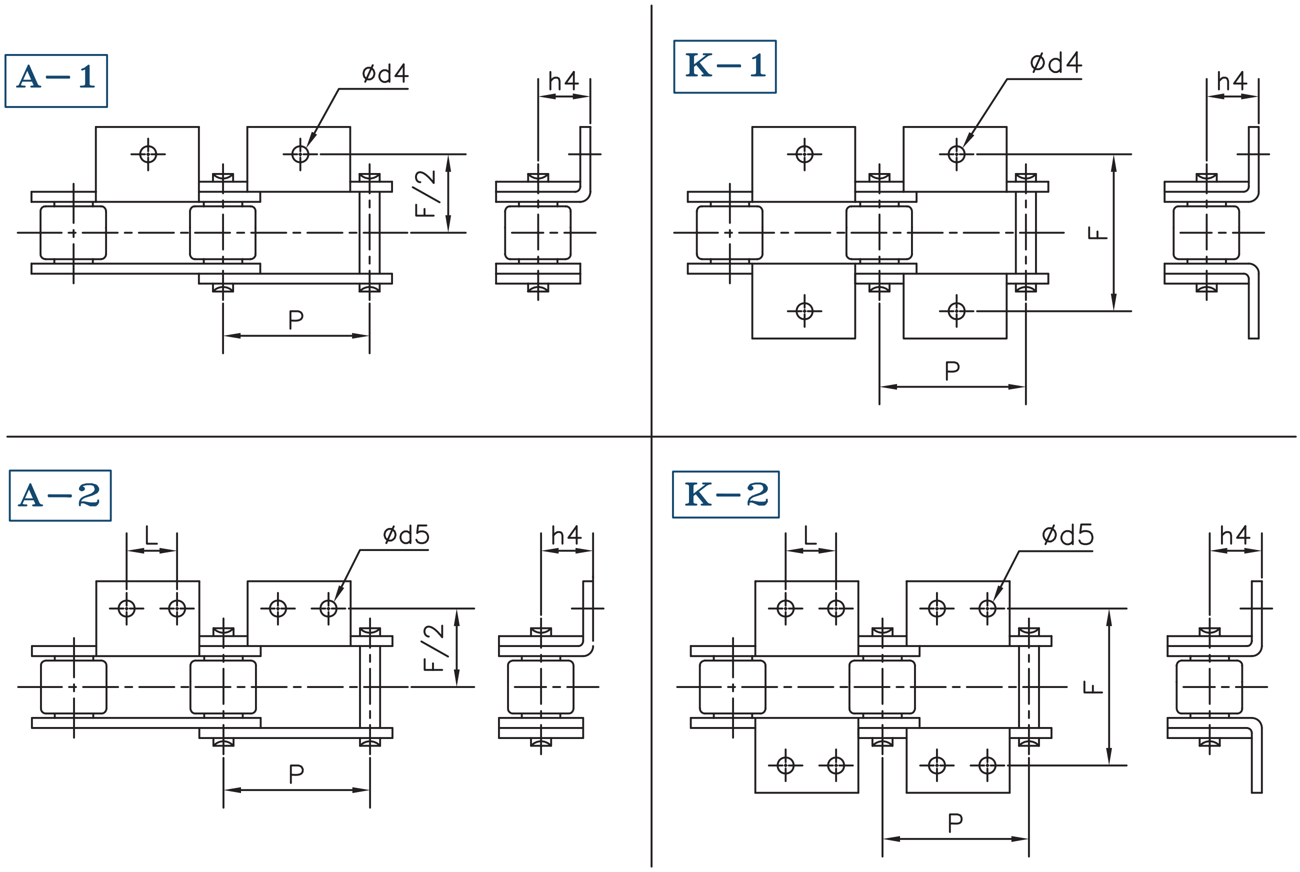


Meritt Chain No.	Pitch	Roller dia	Pin dia	Width between inner plates	Inner Plate depth	Plate Thk.	Breaking load	Max. working load	Weight per meter
	P mm	d1 (Max) mm	d2 mm	b1 (min) mm	h2 mm	t mm	Q (Min) KN	KN	q kg/m
STANDARD ROLLER TYPE									
C2040	25.4	7.92	3.96	7.85	12	1.5	13.8	2.8	0.52
C2050	31.75	10.16	5.08	9.40	15	2.0	21 .8	4.6	0.84
C2060 C2060H	38.1	11.91	5.94	12.57	18	2.4 3.1	31.1	6.4	1 .23 1.52
C2080 C2080H	50.8	15.88	7.92	15.75	23.5	3.1 4.0	55.6	10.7	2.10 2.52
C2120 C2120H	76.2	22.23	11 .10	25.22	35.8	4.8 5.6	124.6	22.0	4.73 5.23
OVERSIZE ROLLER TYPE									
C2042	25.4	15.88	3.96	7.85	12	1.5	13.8	2.8	0.87
C2052	31.75	19.05	5.08	9.40	15	2.0	21.8	4.6	1.31
C2062 C2062H	38.1	22.23	5.94	12.57	18	2.4 3.1	31 .1	6.4	1 .90 2.22
C2082 C2082H	50.8	28.58	7.92	15.75	23.5	3.1 4.0	55.6	10.7	3.21 3.58
C2102 C2102H	63.5	39.67	9.52	18.90	30	4.0 4.8	86.7	15.7	5.33 5.96
C2122 C2122H	76.2	44.45	11.10	25.22	35.8	4.8 5.6	124.6	22.0	7.71 8.24

Note:
Above chains are available in stainless steel also.
These chains are available in Hollow Pin type also.

Dimensions subject to change. Certified dimensions furnished upon request.

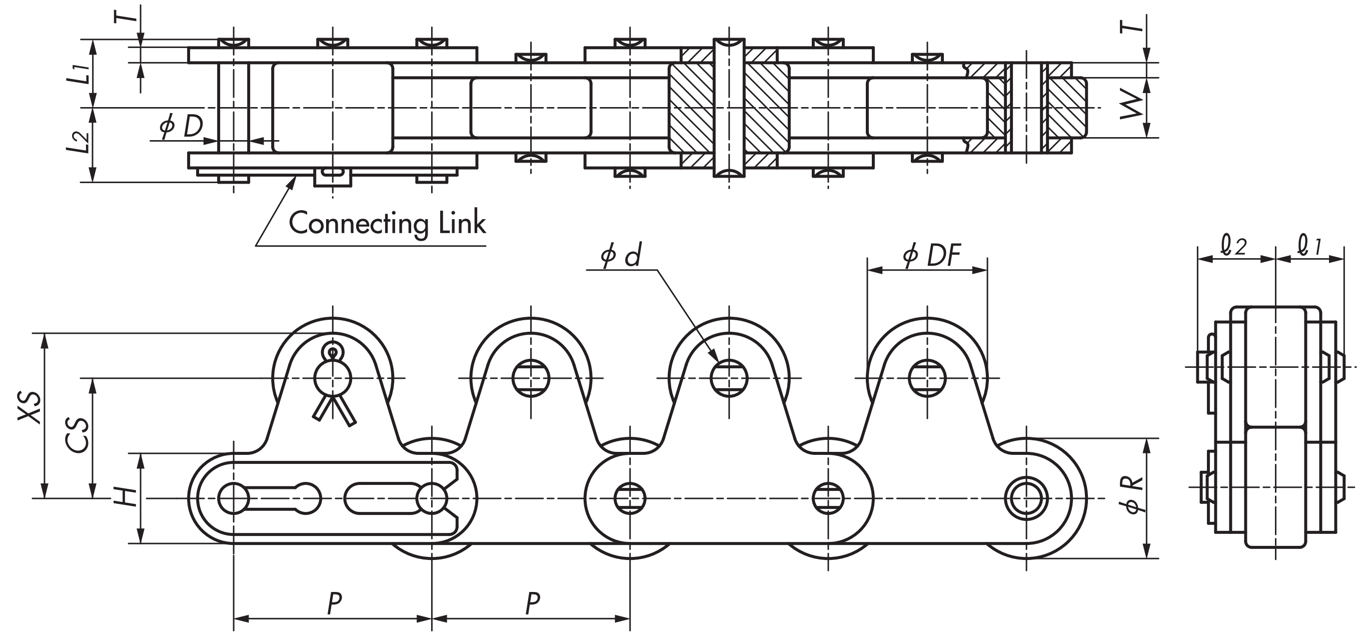
ATTACHMENTS



Meritt Chain No.	P mm	L mm	F mm	h4 mm	d4 mm	d5 mm
C2040 C2042	25.4	9.5	25.4	9.1	3.6	3.6
C2050 C2052	31.75	11.9	31.8	11.1	5.2	5.2
C2060 C2062	38.1	14.3	42.9	14.7	5.2	5.2
C2060H C2062H					5.5	5.5
C2080 C2082 C2080H C2082H	50.8	19.1	55.6	19.1	6.8	6.8
C2100 C2102 C2100H C2102H	63.5	23.8	66.6	23.4	8.8	8.8
C2120 C2122 C2120H C2122H	76.2	28.6	79.3	27.8	11.1	11.1

Dimensions subject to change. Certified dimensions furnished upon request.

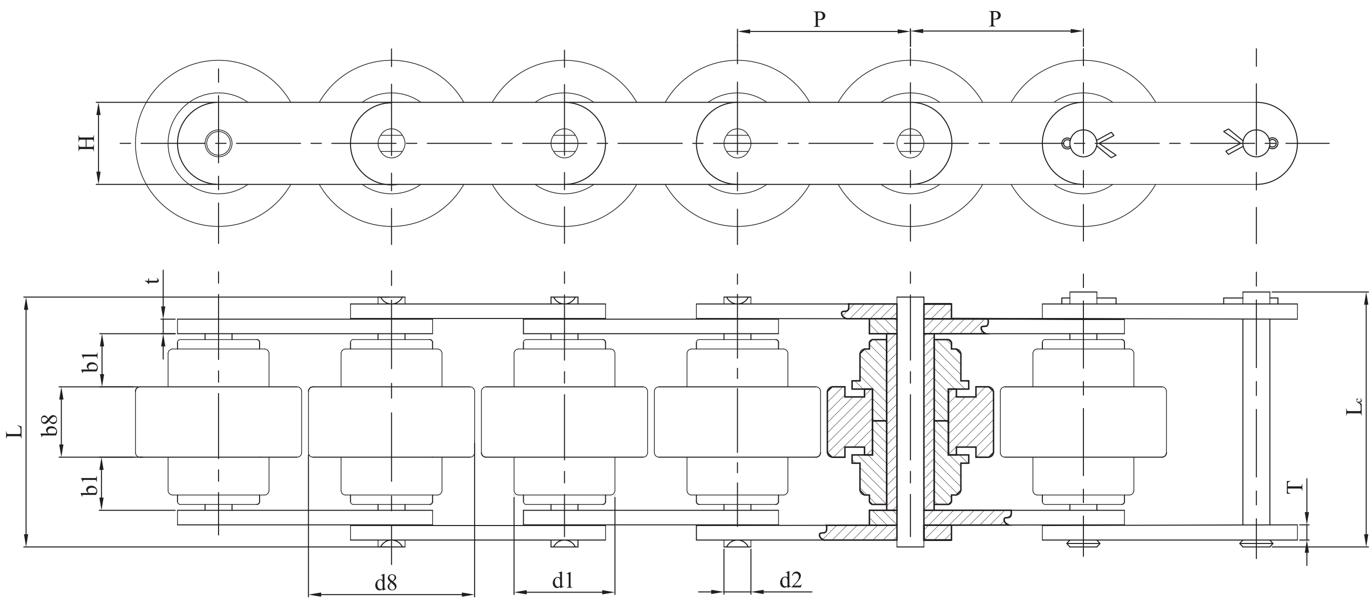
TOP ROLLER CHAIN



Meritt Chain No.	Pitch P	Plate		Roller Dia R	Width Between Inner Link Plates	Pin			Top Roller						Approx. Mass kg/m
		Width H	Thick-ness T	R Roller		Dia D	L_1	L_2	*DF*	*CS*	*XS*	Q_1	Q_2	*d*	R Roller
C2042-TR	25.40	12.0	1.5	15.88	7.95	3.97	8.25	9.95	15.88	15.0	21.0	8.25	9.65	3.97	1.69
C2052-TR	31.75	15.0	2.0	19.05	9.53	5.09	10.3	12.0	19.05	19.0	26.5	10.3	11.9	5.09	2.50
C2062H-TR	38.10	17.2	3.2	22.23	12.70	5.96	14.55	16.55	22.23	23.0	31.6	14.55	16.95	5.96	4.36
C2082H-TR	50.80	23.0	4.0	28.58	15.88	7.94	18.3	20.9	28.58	29.0	40.5	18.5	21.3	11.32	6.76
C2122-TR	63.50	28.6	4.8	39.69	19.05	9.54	21.8	24.5	39.69	35.4	49.7	22.1	27.2	14.52	11.37

Note : • C2042-TR to C2062H-TR connecting links are spring clip type, and those of other models are cotter pin type.
- Steel Top Roller - Standard
- When a top roller is installed on each even-numbered link, the top roller is installed on the inner link unless otherwise specified.

Dimensions subject to change. Certified dimensions furnished upon request.



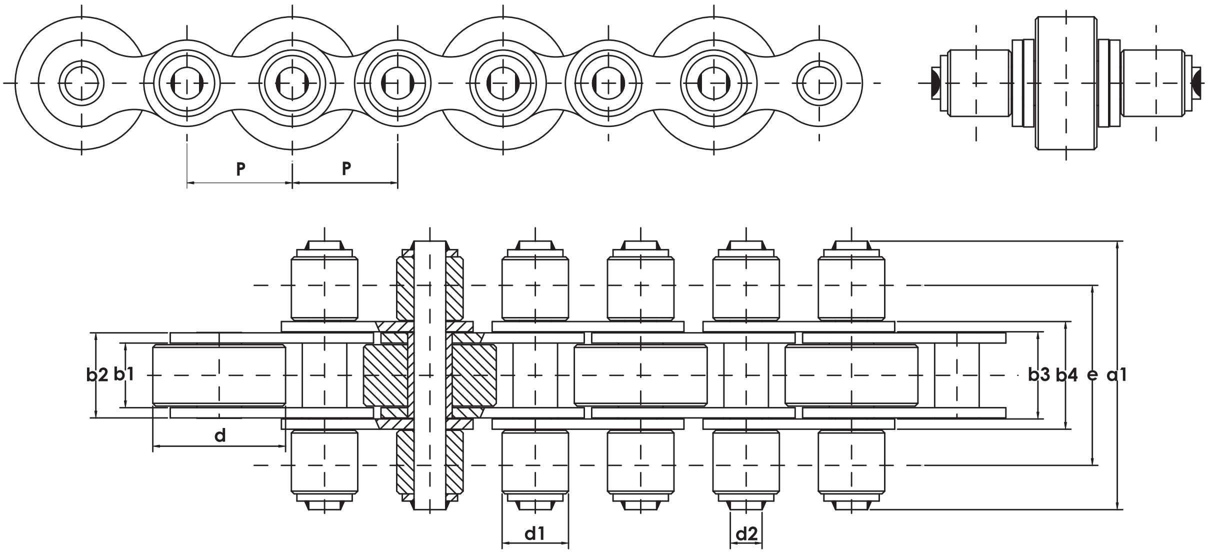
GB/JB Chain No	Meritt Chain No	Pitch	Roller Dimension				Pin Dimension			Plate Dimension		
		P	d1 max	d8 max	b1 max	b8 max	d2 max	L max	Lc max	H max	T max	t max
		mm	mm	mm	mm	mm	mm	mm	mm	kgf	kgf	kgf
BS30-C212A	C2060T	38.10	18.0	37.0	9.57	20.0	5.94	58.10	62.70	15.0	3.20	4.0

Note: The big rollers is plastic material.

Dimensions subject to change. Certified dimensions furnished upon request.

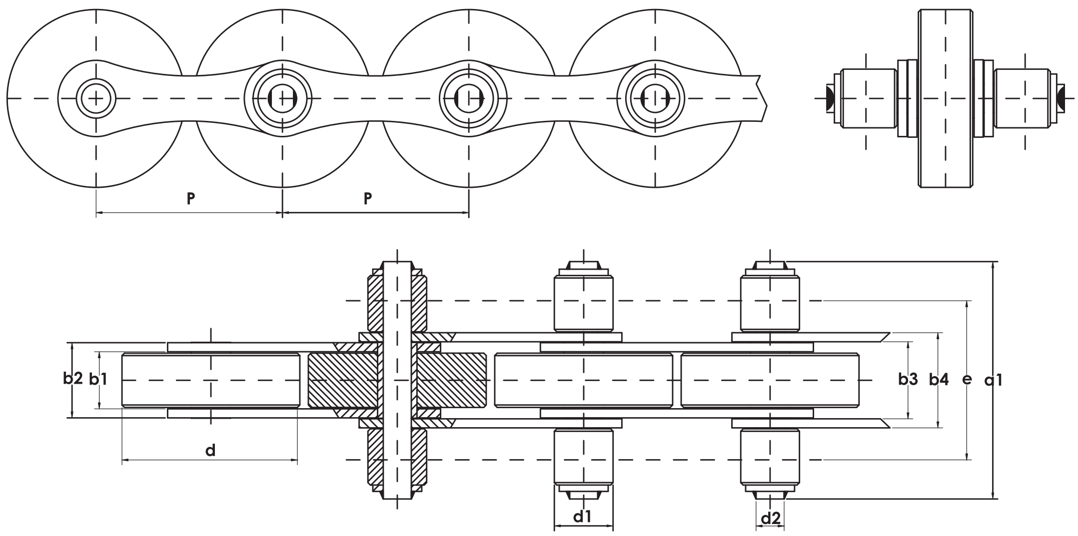
ACCUMULATOR CHAINS

TYPE 1



Chain No.	P mm	b_1 mm	b_2 mm	b_3 mm	b_4 mm	d mm	d_1 mm	d_2 mm	e mm	a_1 mm	Minimum Breaking load Kg.	Weight Kg/Meter
08 SRS/ACC	12.70	7.75	10.8	11.0	14.2	17.0	8.51	4.45	20.2	30.0	1900	1.505
12 SRS/ACC	19.05	11.70	15.6	15.8	19.5	24.0	12.07	5.72	31.5	48.0	3200	3.100
12 BOS/ACC	19.05	11.70	15.6	15.8	19.5	26.0	12.00	5.72	29.5	42.0	3200	2.870
16 SRS/ACC	25.40	17.00	25.4	25.8	32.0	38.5	15.88	8.28	44.9	67.9	6500	7.200

TYPE 2

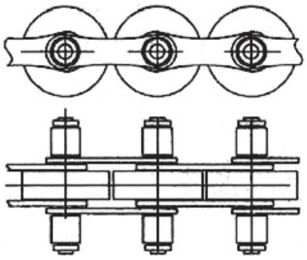


Chain No.	P mm	b_1 mm	b_2 mm	b_3 mm	b_4 mm	d mm	d_1 mm	d_2 mm	e mm	a_1 mm	Minimum Breaking load Kg.	Weight Kg/Meter
24 SRS/ACC	38.10	11.70	15.6	15.8	19.5	24.0	12.00	5.72	31.5	48.0	3200	2.600
32 SRS/ACC	50.80	17.00	25.4	25.8	32.0	50.0	15.88	8.28	44.9	67.9	6500	7.600

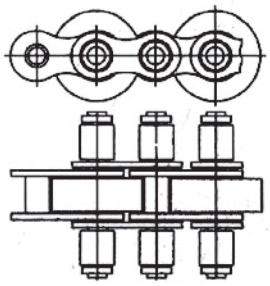
Dimensions subject to change. Certified dimensions furnished upon request.

TYPES OF ACCUMULATOR CHAINS

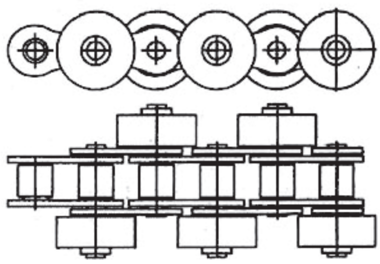
Type L



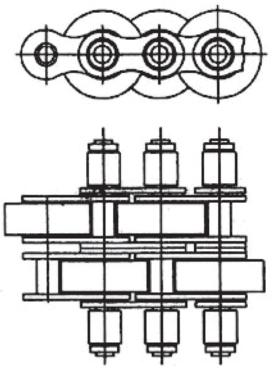
Type E



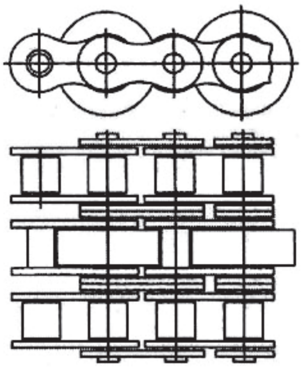
Type SFE 101



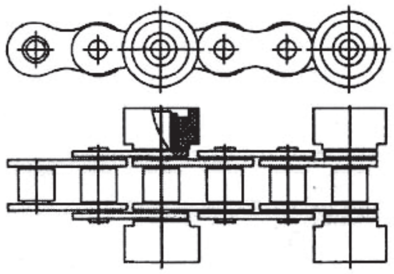
Type D



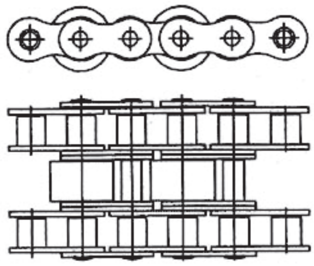
Type T



Type K



Type P



Top Roller Chain

Steel Side Roller Chain

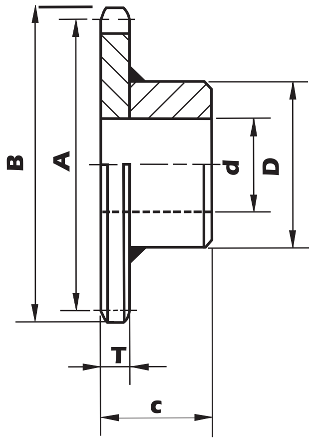
Plastic Side Roller Chain

Double Plus Chain

BS CONVEYOR SPROCKETS

Our standard sprockets are manufactured from steel having one side boss. Sprocket with largest possible diameter should be used in order to reduce strain and to minimize the polygonal effect. For majority of conveyor applications, experience shows that 8 Tooth represents a reasonable minimum size for sprockets. Sprocket below 8 Tooth should be avoided if space is no restriction

Sprockets with both side boss, split type, segmental sprockets etc are available on request. Stainless steel sprockets are also available for use in high temperature or corrosive conditions.



Material : STEEL

Note :

1) Sprocket can be supplied with flame hardened teeth& boss on both sides.

2) Alternate. Material : Cast Iron / Cast Steel / Alloy Steel.

All Dimensions are in mm

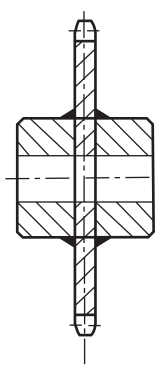
Breaking Load lbs	Chain Pitch	No. of Teeth	P C D	Out Side Dia. (Appr.)	Bore (Max.)	Boss Dia	Tooth Thk.	Total Thk.
			A	B	d	D	T	C
3000 & 4500 (Roller Dia. 25.4mm) (Chain No.. M-3S & M-4H)	1.5"	8	99.57	109	32	57	10	38
		12	147.22	157	38	76		45
		16	195.29	205	50	95		50
		24	291.89	304	70	145		70
	2.0"	8	132.74	149	38	76		45
		12	196.27	213	45	89		51
		16	260.39	277	63	110		65
		24	389.19	415	100	160		70
	3.0"	8	199.11	215	45	89		51
		12	294.41	311	45	89		51
		16	390.58	407	65	125		75
		24	583.79	597	100	200		85
	4.0"	8	265.51	282	45	89		51
		12	392.56	409	50	102		65
		16	520.73	537	70	135		75
		24	778.38	795	150	200		100
6000 & 7500 (Roller Dia. 31.75mm) (Chain No.. M-6H & M-7S)	2.0"	8	132.74	149	38	76	13	50
		12	196.27	213	45	89		50
		16	260.39	277	65	110		65
		24	389.19	406	70	140		75
	3.0"	8	199.11	215	50	100		50
		12	294.41	311	65	114		65
		16	390.58	407	70	135		75
		24	583.79	611	70	140		75
	4.0 "	8	265.51	282	65	114		65
		12	392.56	410	70	135		75
		16	520.77	542	70	135		75
		24	778.38	802	75	150		90
	6.0"	8	398.25	415	70	135		75
		12	588.82	605	70	135		75
		16	781.17	798	75	145		90
		24	1167.58	1190	90	160		115

Dimensions subject to change. Certified dimensions furnished upon request.

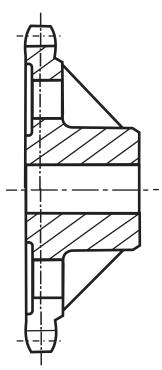
BS CONVEYOR SPROCKETS

Breaking Load lbs	Chain Pitch	No.of Teeth	P C D	Out Side Dia. (Appr.)	Bore (Max.)	Boss Dia	Tooth Thk.	Total Thk.
			A	B	d	D	T	C
12000 & 15000 (Roller Dia. 47.62 mm) (Chain No.. M-12H M- 15S)	3.0."	8	199.11	223	65	120	16.5	65
		12	294.41	319	65	120		65
		16	390.58	414	75	140		75
		24	583.79	613	85	165		100
	4.0"	8	265.51	290	65	120		65
		12	392.56	417	75	140		75
		16	520.77	547	85	160		100
		24	770.76	813	90	160		100
	6.0"	8	398.25	422	75	140		75
		12	588.82	612	85	160		100
		16	781.17	808	85	165		100
		24	1167.58	1201	110	205		130
24000 & 30000 (Roller Dia. 66.7 mm) (Chain No.. M-24H & M-30S)	4.0"	8	265.49	299	75	150	23	85
		12	392.55	426	85	165		90
		16	520.78	555	100	190		100
	6.0"	8	398.24	432	85	165		90
		12	588.82	623	100	190		100
		16	781.17	815	115	215		115
	8.0"	8	530.98	565	100	190		100
		12	785.10	819	115	215		115
		16	1041.57	1075	130	230		130
36000, 45000 60000,90000 (Roller Dia. 88.9 mm) (Chain No.. M-36H, M-45S, M-60S & M-90S)	5.0"	8	331.87	342	90	190	35	100
		12	490.70	516	100	190		100
		16	650.97	668	115	215		115
	6.0"	8	398.24	443	100	190		100
		12	588.82	634	100	190		100
		16	781.17	826	115	215		115
	8.0"	8	530.98	576	100	200		100
		12	785.10	830	115	215		115
		16	1041.57	1087	140	250		140
	12.0"	8	796.48	841	115	215		115
		12	1177.65	1223	140	250		140
		16	1562.35	1607	150	270		150

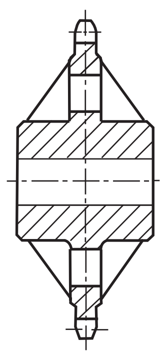
TYPES OF SPROCKETS



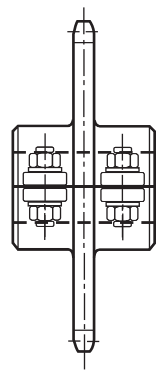
Both Side Welded Boss



Cast sprocket One Side Boss



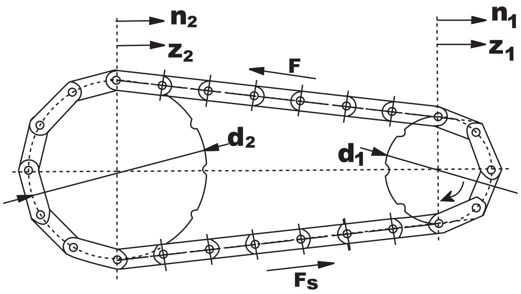
Cast sprocket Both Side Boss



Split Type Both Side Boss

Dimensions subject to change. Certified dimensions furnished upon request.

TECHNICAL DATA



1) Torque $M_2 = \dfrac{F.\ d_2}{2}$ $\quad M_1 = \dfrac{F.\ d_1}{2}$ (N-mtr)

2) Speed $V = \dfrac{\pi d_2 n_2}{60} = \dfrac{\pi d_1 n_1}{60}$ (mtr/sec)

3) Transmitted Power $P = F.V$

$$P \text{ (in Hp)} = \frac{F.\ V.}{750} = \frac{M.\pi.\ n}{22500}$$

$$P \text{ (in kw)} = \frac{F.\ V}{1020} = \frac{M.\pi.\ n}{30600}$$

4) $F = \dfrac{750 \text{ x } P \text{ (in Hp)}}{V}$ OR $F = \dfrac{1020 \text{ x } P \text{ (in kw)}}{V}$

5) Chain breaking load = F x factor of Safety

6) Minimum recommended factor of safety - 8

A) FORMULA

V = Speed (mtr/sec) 1 kgf = 10 N
M = Torque (N-mtr)
d_1 = diameter of driving sprocket (mtr)
n_1 = rpm of driving sprocket
d_2 = diameter of driven sprocket (mtr)
n_2 = rpm of driven sprocket
Z_1 = No. of teeth of driving sprocket
Z_2 = No. of teeth of driven sprocket

Transmission Ratio $= \dfrac{d_2}{d_1} = \dfrac{Z_2}{Z_1} = \dfrac{M_2}{M_1} = \dfrac{n_2}{n_1}$

F = total chain pull (N)
P = Transmitted Power
a = center distance (mtr)

7) Length of Chain (in pitches) $= \dfrac{2.a}{p} + \dfrac{Z_1+Z_2}{2} + \dfrac{K.\ p}{a}$

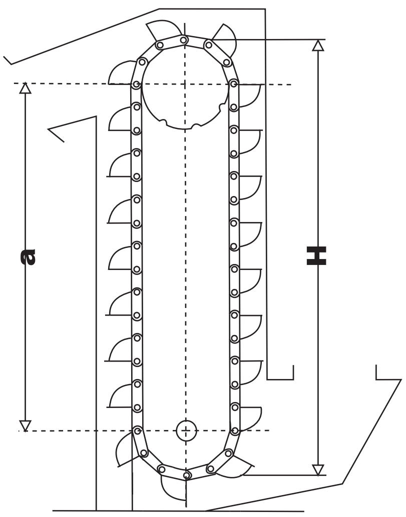
where $K = \left[\dfrac{Z_2 - Z_1}{2\pi}\right]^2$

a = sprocket center dist (mm)

p = chain pitch (mm)

B) VERTICAL CONVEYOR (ELEVATOR)

$F = 1.2H(Q + 1.5\ q)$ [N]



$Q = \dfrac{Di\ .\ d_e . \chi}{K}$ (N/mtr)

OR

$Q = \dfrac{C}{3600 \text{ x } V}$ (Kg/mtr)

Where H = Total height of conveyor (mtr)

Q = Weight of conveyed material /mtr. (N/mtr)

q = weight of chain/mtr. (N/mtr)

d_e = density of material (N/m^3)

χ = filling ratio (0.7 - 0.9)

Di = Contents of bucket (m^3)

K = distance between the bucket (mtr)

C = capacity (kg/ hr)

V = Speed (mtr/sec)

C) CALCULATION OF CHAIN PULL

From the different layout of conveyors given below select the nearest conveyor application under consideration.

l = Chain length under load (mtr)

μ_s= Co-efficient of friction between chain & surface

q = weight of chain per mtr. (N/mtr)

W = total carried load in kilogram (kg)

α = inclination angle of conveyor

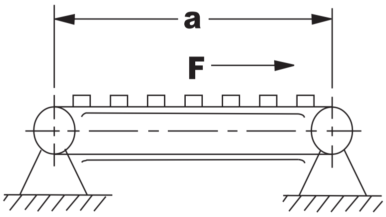
μ_R = Total friction factor- rolling chain 0.09 to 0.2)

Q = weight of conveyed material per mtr (N/mtr)

a = center distance (mtr)

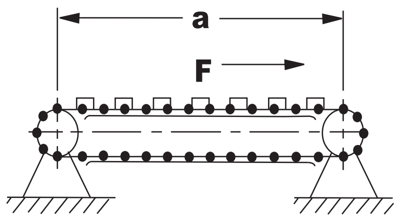
1) Horizontal conveyor with sliding chain

$F = 1.1\ \mu_s\ (2\ a\ q + l\ Q)$ [N]



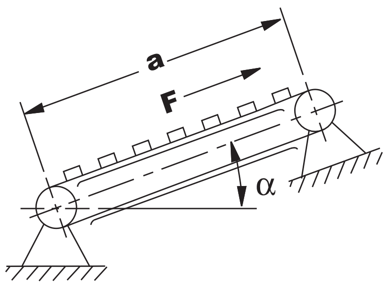
2) Horizontal conveyor with roller chain

$F = 1.1\mu_R[2aq + lQ)$ [N]



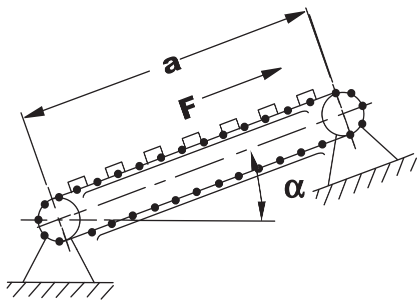
3) Inclined conveyor with sliding chain

$F = 1.1\ [aq\ (2\mu_s \cos\alpha + \sin\alpha) + lQ(\mu_s \cos\alpha + \sin\alpha)]$ [N]



4) Inclined conveyor with roller chain

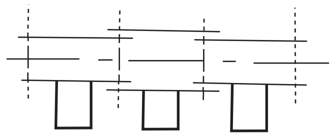
$F = 1.1[aq\ (2\mu_R \cos\alpha + \sin\alpha) + lQ\ (\mu_R \cos\alpha + \sin\alpha)]$ [N]



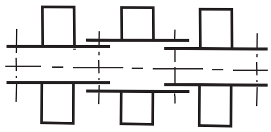
Note :

1) Starting friction co-efficient can be 1.5 to 3 times greater than the dynamic friction co-efficient.
2) The OD of roller should be preferably at least 2.5 times greater than the OD of the bush.
3) The maximum speed for conveyor chain is 60 mtr/min with an ideal speed range of between 0 and 20 mtr/min.
4) Chains made in normal material can operate at temperature up to 160 °C with proper lubrication. For operation at temperature from 200 °C to 450 °C, stainless steel is used. For temperature from 450 °C to 800 °C, heat resisting stainless steel must be used.
5) To ensure maximum efficiency of the conveyor, wheel with largest possible diameter should be used in order to reduce strain on the chain joints and to minimize the polygonal effect. For general purpose conveyor 8-12 teeth sprocket should be used, and for bucket elevator 8 -14 teeth sprocket should be used.
6) For scraper conveyor technical data please consult us.
7) To calculate the actual working force, consideration should be given to loading factor (1 to 1.5) work area factor (1 to 1.4), service factor (1 to 1.8), speed factor (0.8 to 1.4), and uneven load sharing factor when 2 or more chains are used.
8) The working force for each chain (F_1) is the total force (F) divide by the number of chain rows (N) $F_1 = \frac{F}{N}$
9) To obtain optimum performance and higher chain life, regular and effective lubrication of the chain bearing surfaces is essential.

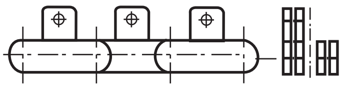
TYPES OF ATTACHMENTS



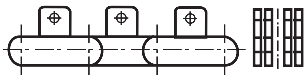
A - Bent attachment
on one side



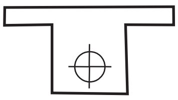
K - Bent attachment
on both side



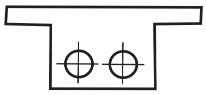
M - Straight attachment
on one side



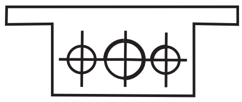
MK - Straight attachment
on both side



Attachment with 1 hole

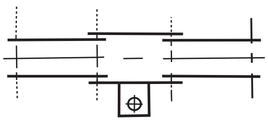


Attachment with 2 holes

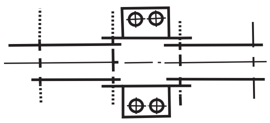


Attachment with 3 holes

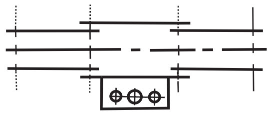
EXAMPLES



A 1- Bent attachment on one
sides with 1 hole



K2 - Bent attachment on both
sides with 2 holes



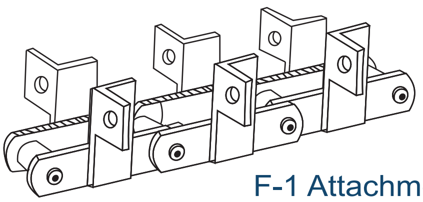
A3 - Bent attachment
on one side with 3 holes

Note :

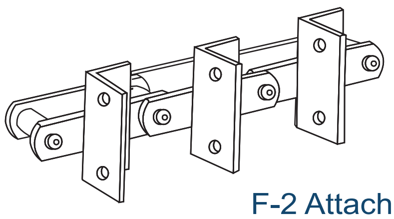
*1) Attachment can be at every pitches, every 2nd pitches, every 3rd pitches etc., as required.
Please specify this at the time of enquiry/ order.*

2) Unless, otherwise specified, the attachments are on outer link and starts from outer link.

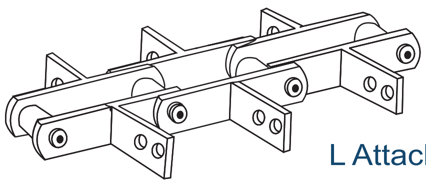
SPECIAL ATTACHMENTS CHAINS



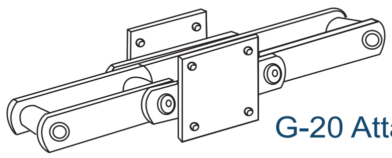
F-1 Attachment



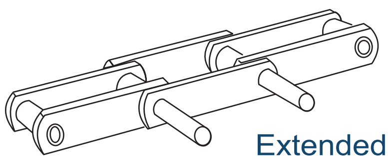
F-2 Attachment



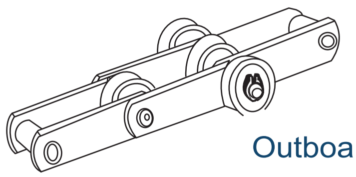
L Attachment



G-20 Attachment



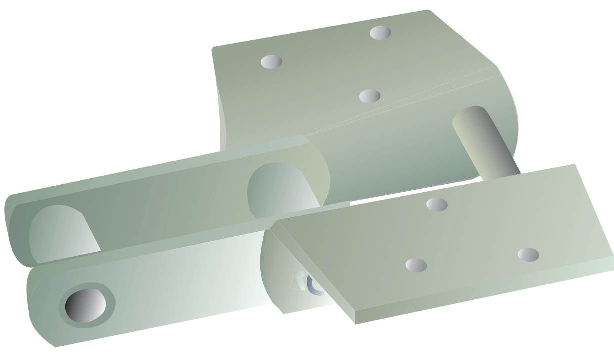
Extended Pin Chain

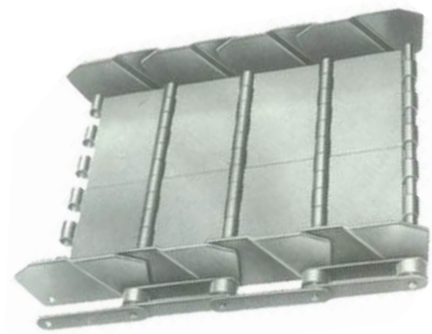


Outboard Roller

OTHER STANDARD CONVEYOR CHAINS

- M - Series Standard Conveyor Chains
- JIS Standard Conveyor Chains
- ASA Standard Conveyor Chains
- Heavy Duty Offset Side Bar Chains
- Hollow Pin Roller Chains





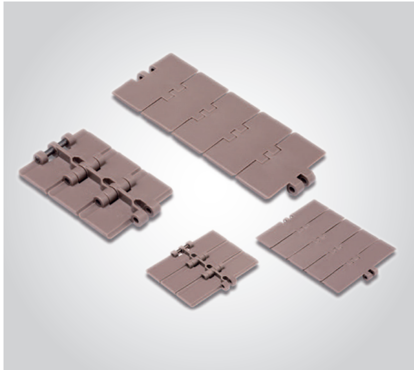
SPECIAL CHAINS FOR :

- Sugar Industry
- Cement Industry
- Breweries Industry
- Agricultural Industry
- Chip Conveyor Chains
- Palm Oil Mills
- Hinged Steel Belt Chain, etc.

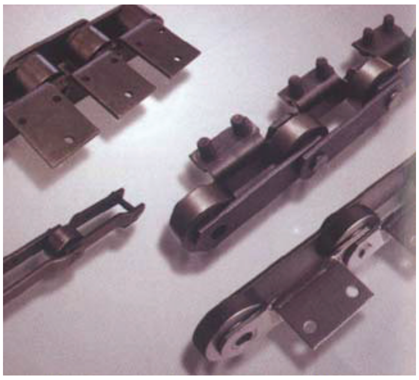
Please write to us for details of above chains...

INDUSTRY CONVEYOR CHAINS

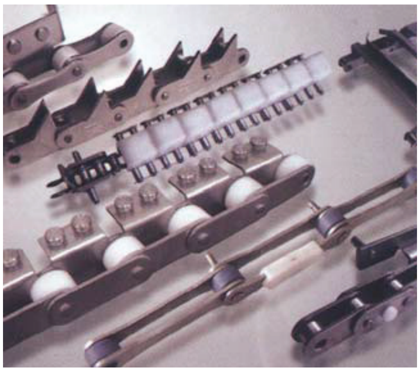
Tobacco Industry Chain



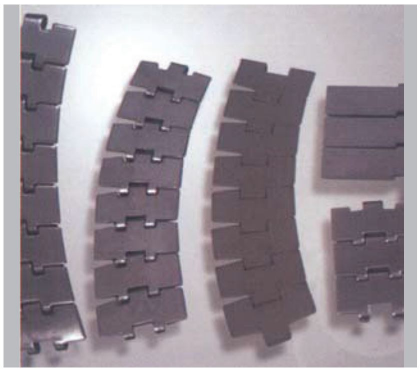
Thermoplastic Slat Chain



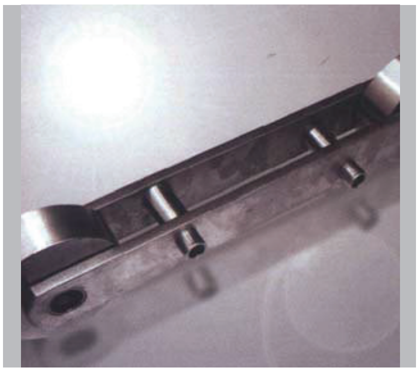
Beer Industry Chain



Cold Drink & Food Industry Chain



Stainless Steel Slat Chain



Water Treatment Industry Chain

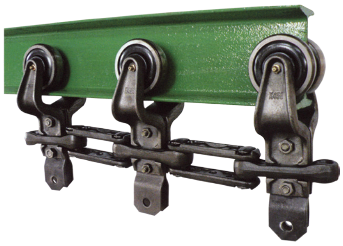
INDUSTRY CONVEYOR CHAINS

Z Elevator Chain

Bucket

Z Elevator Sprocket

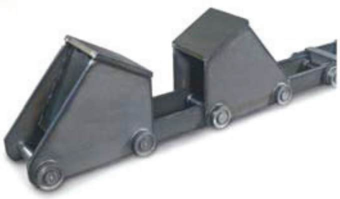
Caterpillar Chain



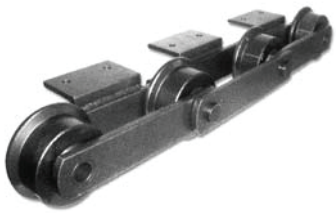
Overhead Chain

Enclosed Track Chain

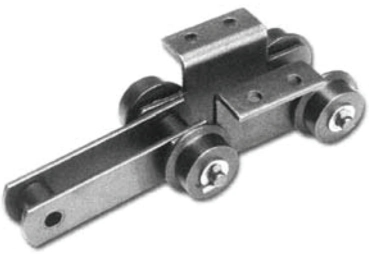
Hollow Pin Chain



Pipe Carrier Chain In
The Cooling Bed



Flange Roller Slat
Conveyor Chain



Side Roller Slat
Conveyor Chain

Sprocket With
Segmented Rim

Completely Mounted
Drive Shaft

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