

Chains For The Sugar Industry



Meritt

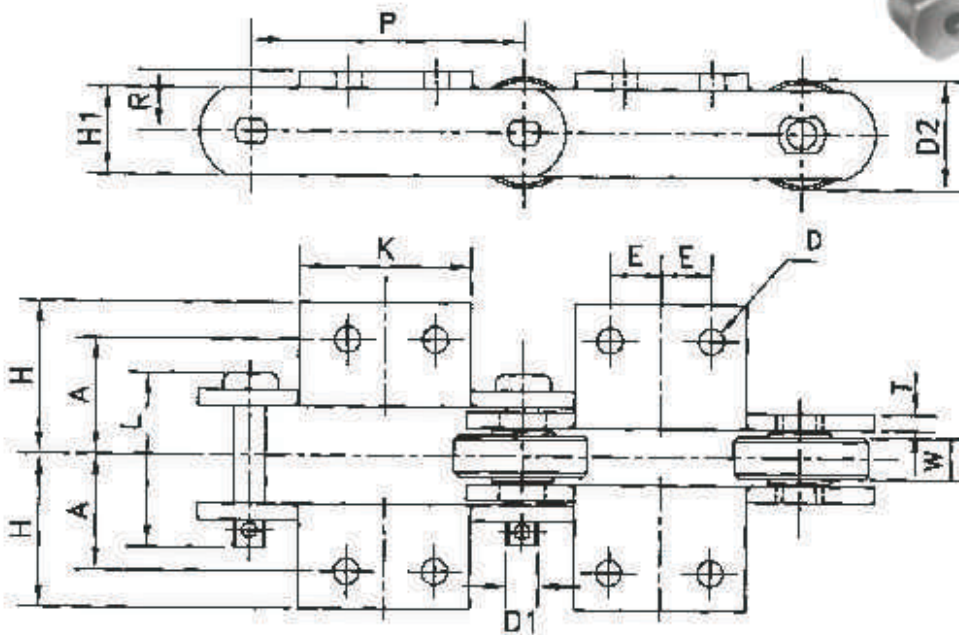


The Symbol of Trust

CANE CARRIER CHAINS



The wide variety of chains are available with tensile strength ranging from 30000kg to 75000kgs. Meritt Cane Carrier Chains are of high quality fabricated steel designed to meet the rugged requirements of cane carrier service in sugar mills. It is manufactured from high quality steel and heat treated to obtain optimum characteristics of strength and wear resistance.



ALL DIMENSION ARE IN MM.

CHAIN Number	AVERAGE ULTIMATE STRENGTH KG.	PITCH P	PIN		ROLLER	
			DIA D1	LENGTH L	DIA D2	WIDTH W
09060	22,000	152.4	19.00	95.30	69.80	36.60
09061	30,000	152.4	19.00	95.30	69.80	36.60
09062	45,000	152.4	22.20	95.30	69.80	36.60
09063	55,000	152.4	23.80	101.60	76.20	36.60
1796	36,000	152.4	22.20	100.10	69.80	36.60
2198	40,000	152.4	22.20	112.80	69.80	36.60

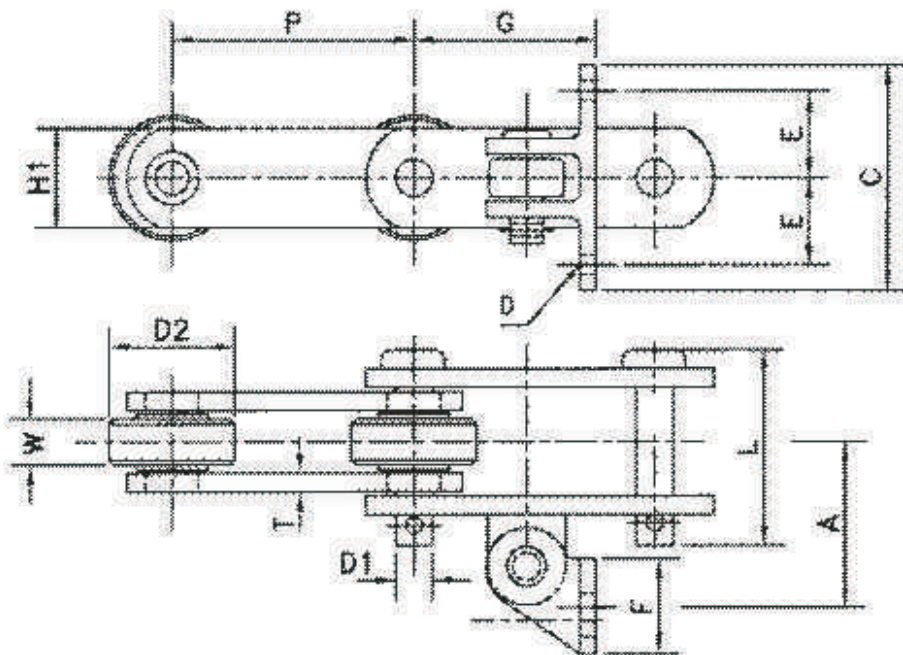
ALL DIMENSION ARE IN MM.

CHAIN Number	SIDE BAR		ATTACHMENT					BOLT DIA D
	WIDTH H1	THK. T	A	E	H	K	R	
09060	50.0	10.0	55.50	38.10	82.50	110.0	41.30	12.7
09061	55.0	10.0	55.50	38.10	82.50	110.0	41.30	12.7
09062	62.0	10.0	55.50	38.10	82.50	110.0	44.40	12.7
09063	62.0	10.0	55.50	38.10	82.50	110.0	44.40	12.7
1796	55.0	10.0	55.60	38.10	82.50	110.0	41.30	12.7
2198	55.0	12.0	55.60	38.10	82.50	110.0	41.30	12.7

BAGASSE CARRIER CHAINS



The wide variety of chains are available with tensile strength ranging from 20000kg to 75000 kgs. Our unique manufacturing processes assures precise dimensions and absolute assembly rigidity. All chains are manufactured from high quality steel and heat treated to obtain optimum characteristic of strength and wear resistance. It is designed to meet the requirements of entire range of bagasse conveyors.



ALL DIMENSION ARE IN MM.

CHAIN NUMBER	PITCH	ALLOWABLE CHAIN PULL kg	BREAKING LOAD kg	PIN		ROLLER	
				DIA D1	LENGTH L	DIA D2	WIDTH W
09060	152.4	2,400	22,000	19.00	95.30	69.80	36.60
2184	152.4	2,600	23,000	22.20	93.70	76.20	33.30
09061	152.4	2,400	30,000	19.00	95.30	69.80	36.60
1796	152.4	3,200	42,000	22.20	100.10	69.80	36.60
09063	152.4	3,600	55,000	23.80	101.60	76.20	36.60

ALL DIMENSION ARE IN MM.

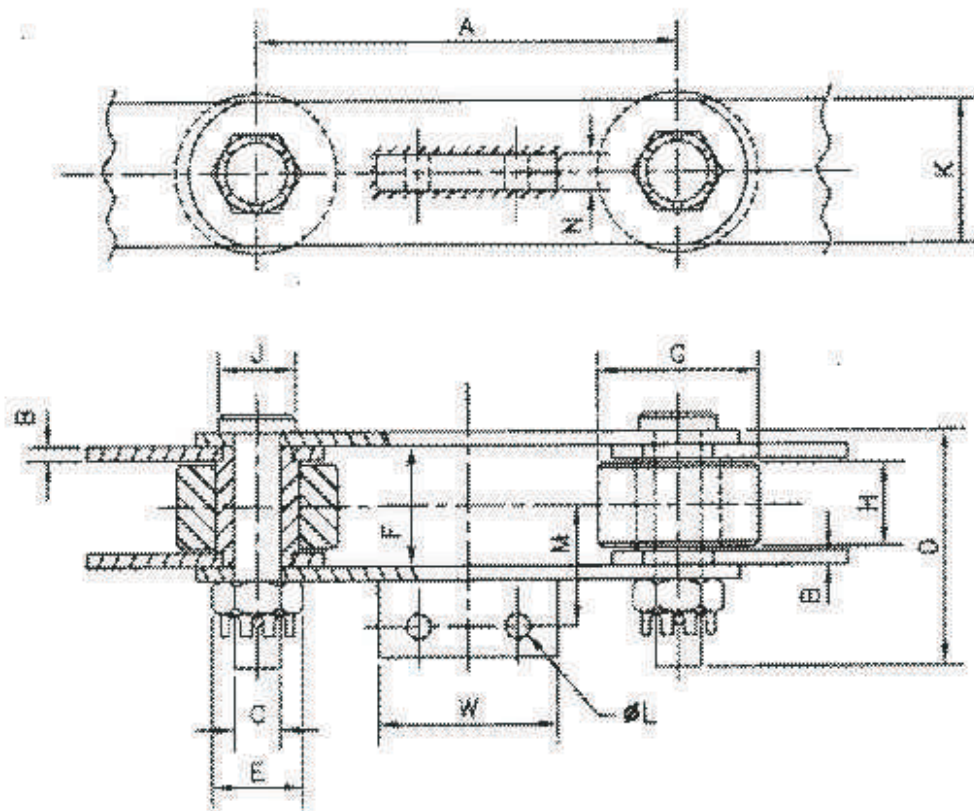
CHAIN Number	SIDE BAR		ATTACHMENT					BOLT DIA D	WEIGHT/FT	
	WIDTH H1	THK. T							PLAIN kg	AS2 kg
			A	C	E	F	G			
09060	50.0	10.0	88.90	114.3	41.40	50.80	111.2	12.7	5.1	7.1
2184	50.0	10.0	92.20	127.0	44.45	50.80	143.0	12.7	5.6	8.1
09061	55.0	10.0	88.90	114.3	41.40	50.80	111.2	12.7	5.5	8.9
1796	55.0	10.0	88.90	114.3	41.40	50.80	111.2	12.7	5.7	7.9
09063	62.0	10.0	100.00	127.0	44.45	50.80	143.0	12.7	6.9	9.5

Note : All the above chains are available in straight link and in crank link design, except 09063 which is available only in straight link.

RAKE CARRIER CHAIN



The Rake Carrier Chains are manufactured with tensile strength ranging from 30000kg to 60000kgs. It is manufactured using carbon steel for links on high precision presses. Shot pinning can be done on links to improve fatigue resistance. Pins and Bushes are made of Alloy Steel, Stainless Steel (Magnetic or Non Magnetic) and precisely machined, heat treated and ground for perfect fitting. Rollers (with stainless steel linear bush if required) are heat treated to improve wear resistance.



ATTACHMENT LINK PITCH - 600/300 MM

ALL DIMENSION ARE IN mm.

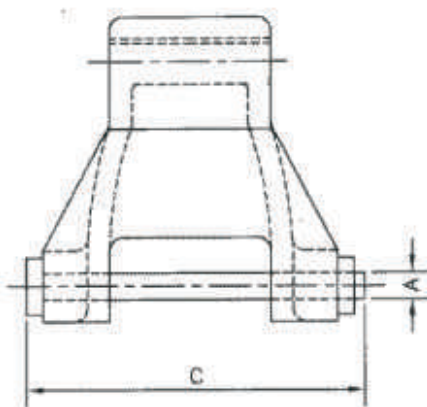
CHAIN Number	PITCH	THK. OF SIDE LINK	THREADED PIN				BUSH		ROLLER		ATTACHMENT LINK					SPLIT PIN	LOAD IN KG		
			DIA	LENGTH	DIA OF HEAD	THREAD SIZE	DIA	LENGTH	DIA	LENGTH								PROOF LOAD	BREAKING LOAD
A	B	C	D	J		E	F	G	H	K	L	M	N	W					
RCC-150	150	10	23	112	28	M-20	33	56	75	35	65	20	68	12	100	6.3	10,000	30,000	
*RCC-150H	150	12	25	116	30	M-20	33	61	75	35	65	20	75	12	100	6.3	13,500	40,000	
*RCC-200	200	16	30	135	36	M-24	36	69	90	35	75	20	83	16	125	10	20,000	60,000	

*Chain Links can be hardened and tempered if tensile strength is required more.
Alternative sizes are available on request.

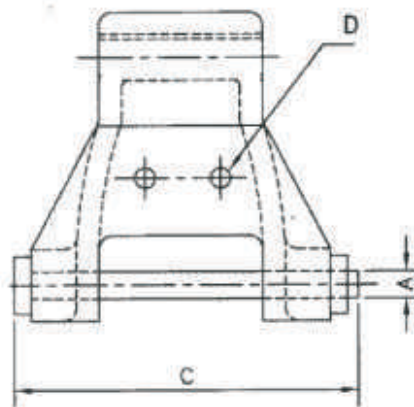
INTERMEDIATE CARRIER CHAINS



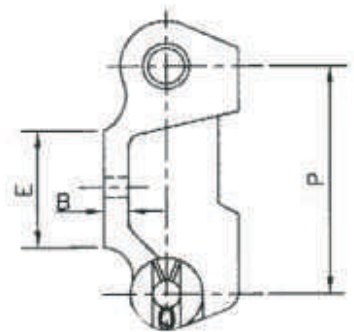
These chains are manufactured from malleable iron casting with hardened steel fabricated pins and bush. It is generally considered the optimum as it offers the best combination of performance and economy for most intermediate carrier applications. For increased corrosion resistance, Stainless Steel pins and bush are also available. When severe conditions are encountered, these chains are available with cast stainless steel link and stainless steel pin and bush. Intermediate Carrier Chains Should be operated with the narrow(closed) end of the link forward for sprockets used and long life.



Style A



Style B



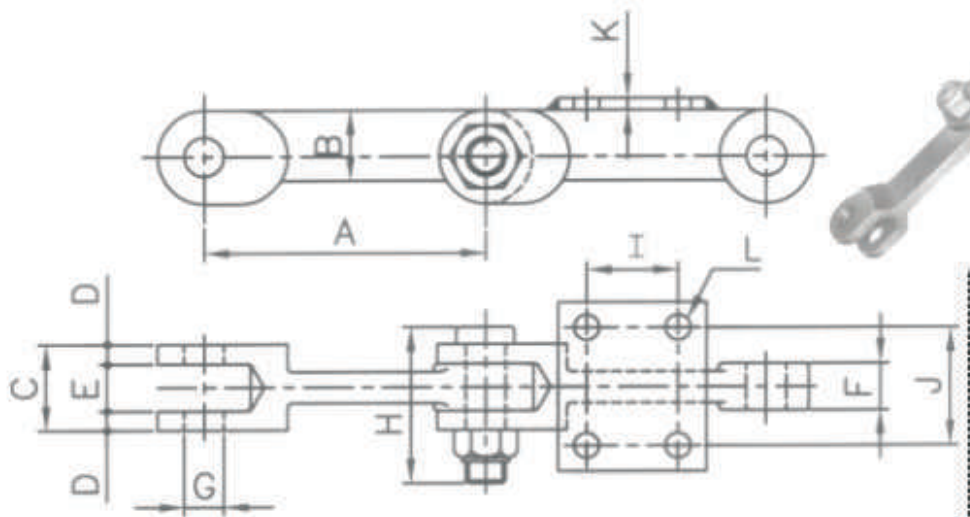
ALL DIMENSION ARE IN mm.

CHAIN NO.	PITCH	STYLE	A	B	C	E	D ø	G	H	Average Ultimate Strength Kg	Links Per 10'-0" Length
2.36" Pitch Chain											
5174 E4	59.90	B	14.5	7.9	139.7	27	9.5	25.40	32.90	9000	51
2.97" Pitch Chain											
902 E41	75.44	A	15.60	9.9	139.7	33.3	16.60	-	35.00	11000	40
902 E42									37.60		
902 E43	75.44	B	15.60	9.9	139.7	33.3	10.50	28.00	35.00	11000	40
902 E44									37.60		
3.149" Pitch Chain"											
901 E41	79.98	A	15.75	9.1	142.75	32.88	16.60	-	35.00	11000	38
901 E42									40.10		
901 E43	79.98	B	15.60	9.9	139.7	33.3	10.50	28.00	35.00	11000	38
901 E44									40.10		
3.17" Pitch Chain											
907 E51	80.52	A	15.6	9.9	139.7	33.3	16.6	-	42.90	11000	38

FORGED RAKE/ INTER CARRIER CHAIN

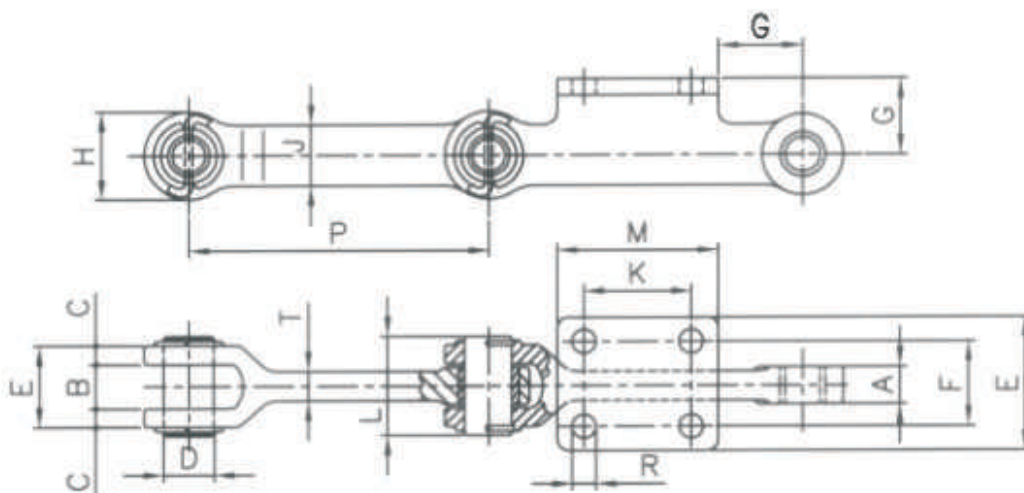


The Forged Rake Carrier Chains are available with tensile strength ranging from 45000 to 80000kgs. Chains are manufactured by using forged steel for links, precision machining to their mating parts with bush and pin. Pins and Bush are manufactured of Alloy Steel duly heat treated for longer life. Pins and Bushes are also available in Stainless Steel (Magnetic or Non Magnetic) and precisely machined, heat treated (non magnetic steel) and then ground for perfect fitting.



ALL DIMENSION ARE IN mm

CHAIN Number	PITCH	LINK						PIN		ATTACHMENT PLATE				NUT	ATTACHMENT PITCH	BREAKING LOAD IN Kg
	A	B	C	D	E	F	G	H	I	J	K	L				
FRC-150	150	50	61	14	33	32	28	110	-	100	12	18	M-24	600	45,000	
FRC-200	200	50	61	14	33	32	30	115	-	100	12	18	M-27	800	50,000	
FRC-229	229	57	68	16	36	35	32	112	100	80	16	18	M-30	687	60,000	
FRC-300	300	60	85	20	45	44	38	142	100	80	18	18	M-30	900	80,000	

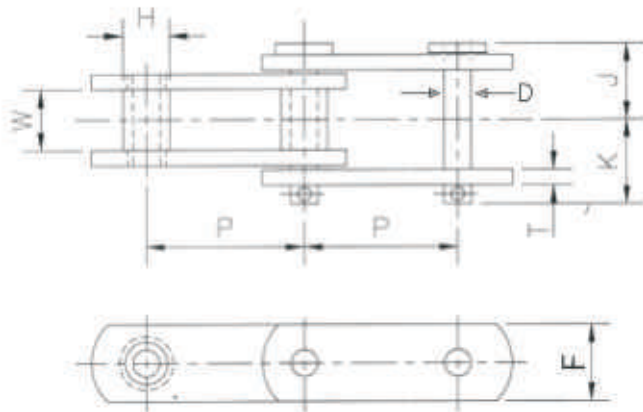


ALL DIMENSION ARE IN mm

CHAIN Number	AVERAGE PITCH	LINK								ATTACHMENT PLATE								AVERAGE ULTIMATE STRENGTH	AVERAGE WEIGHT	
	P	A	B	C	H	J	T	D	L	E	F	G	K	M	R	Kg			PLAIN LINK	ATTCH. LINK
FRC-12	304.8	50.8	54	36.5	100	63.5	38.1	44.5	158	127	82.6	76.2	108	152.4	17.5	88,000	14	17		

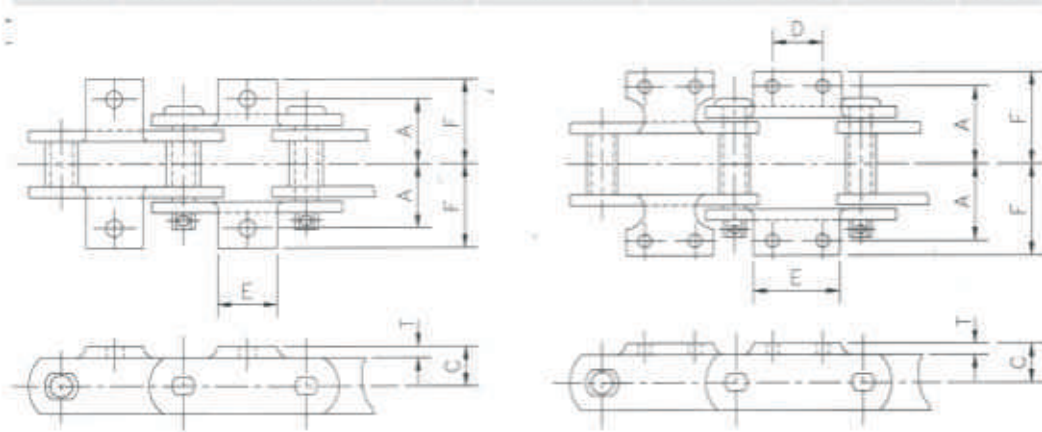
BUSHED CHAINS (AS PER ANSI STANDARD)

Meritt ANSI bushed chains are commonly used for elevators.
It is available with various types of attachments like K-1, K-2, G-20, etc.
It is manufactured with careful selection of material and heat treatment to offer maximum performance and durability. These high strength chains are compatible with sprockets used for cast combination chains.



ALL DIMENSION ARE IN mm

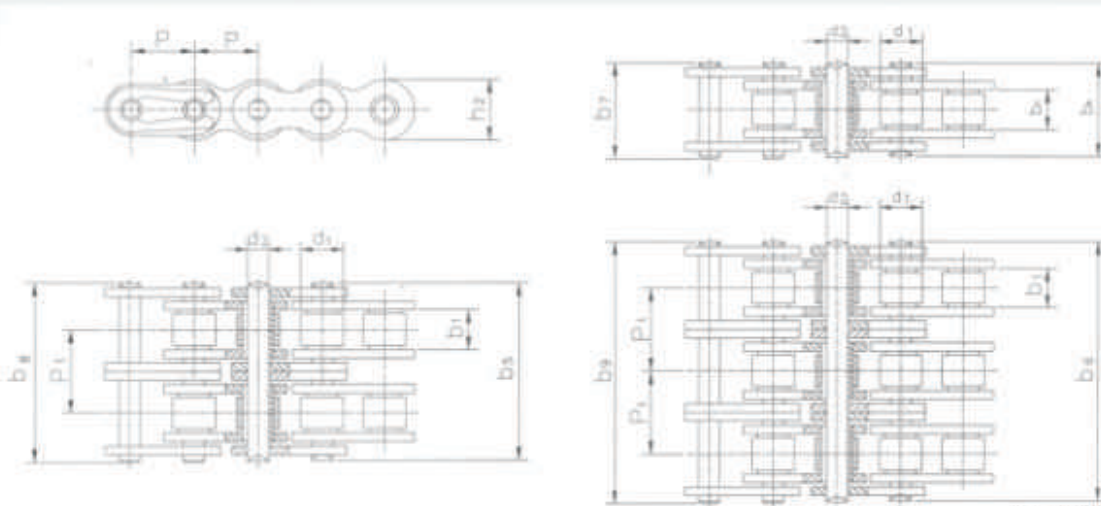
CHAIN NO	PITCH P	AVERAGE TENSILE STRENGTH KG	BUSH DIA. H	WIDTH BETWEEN INNER LINK PLATES W	LINK PLATE		PIN			ATTACHMENT TYPE	APP. WEIGHT KG/M
					HEIGHT F	THK. T	DIA D	LENGTH J	K		
S188	66.27	11400	22.20	27.00	28.6	6.3	12.70	34.00	31.0	K1,K2	5.7
S131	78.11	18200	31.75	31.75	40.0	10.0	15.88	46.00	41.3	K2	12.0
S102B	101.60	18200	25.40	54.00	40.0	10.0	15.88	55.60	52.4	K2	10.5
S111	120.90	22800	36.50	66.70	50.0	10.0	19.05	60.00	59.5	K2	16.5
S110	152.40	18200	31.75	54.00	40.0	10.0	15.88	55.00	52.4	K2	9.7
S150	153.67	45400	44.50	84.70	63.5	12.7	25.40	80.00	77.0	K2	25.0



ALL DIMENSION ARE IN mm

ATT. TYPE	CHAIN Number	ATTACHMENT					
		A	C	D	E	F	T
K2	S188	47.6	20.6	-	54	65	6.35
	S188	53.2	20.6	31.8	54	65	6.35
	S131	52.4	27.0	38.1	64	75	10.0
	S102B	67.5	27.0	44.5	70	86	10.0
	S111	79.4	38.1	58.7	92	95	10.0
	S110	67.5	28.6	44.5	76	86	10.0
	S150	95.3	47.6	69.9	108	116	12.70

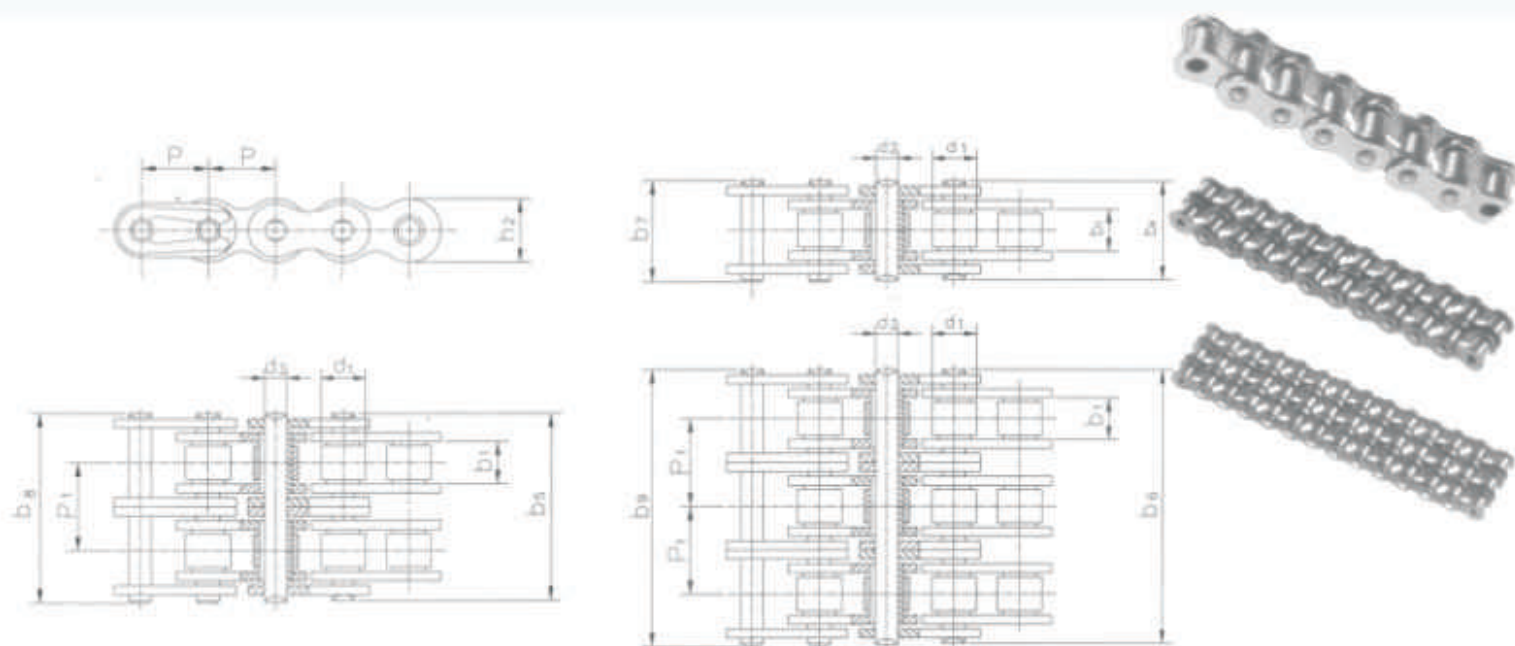
ROLLER CHAIN BRITISH STANDARD (BS-228/DIN 8187)



ALL DIMENSION ARE IN mm

	ISO Chain No / Rainbow Chain No.	Pitch P mm	Transverse pitch Pt mm	Roller diameter d1 mm	Bearing pin body diameter d2 mm	Width between inner plates b1 mm	Width over bearing pins b4, b5, b6 mm	Width over connecting pins b7, b8, b9 mm	Inner plates depth h2 mm	Ultimate tensile strength Q kN	Weight per meter q kg/m
SIMPLEX	05B	8.00	-	5.00	2.31	3.00	8.60	11.70	7.11	4.40	0.34
	06B	9.525	-	6.35	3.28	5.72	13.50	16.80	8.26	8.90	0.43
	08B	12.70	-	8.51	4.45	7.75	17.00	20.90	11.81	17.80	0.71
	10B	15.875	-	10.16	5.08	9.65	19.60	23.70	14.73	22.20	0.95
	12B	19.05	-	12.07	5.72	11.68	22.70	27.30	16.13	28.90	1.21
	16B	25.40	-	15.88	8.28	17.02	36.10	41.50	21.08	60.00	2.70
	20B	31.75	-	19.05	10.19	19.56	43.20	49.30	26.42	95.00	3.60
	24B	38.10	-	25.40	14.63	25.40	53.40	60.00	33.40	160.00	6.70
	28B	44.45	-	27.94	15.90	30.99	65.10	72.50	37.08	200.00	8.30
	32B	50.80	-	29.21	17.81	30.99	67.40	75.30	42.29	250.00	10.50
	40B	63.50	-	39.37	22.89	38.10	82.60	92.80	52.96	355.00	16.00
	48B	76.2	-	48.26	29.24	45.72	99.10	109.60	63.88	560.00	25.00
DUPLEX	05B-2	8.00	5.64	5.00	2.31	5.72	14.30	17.80	7.11	7.80	0.68
	06B-2	9.525	10.24	6.35	3.28	7.75	23.80	27.10	8.26	16.90	0.96
	08B-2	12.70	13.92	8.51	4.45	9.65	31.00	34.90	11.80	31.10	1.42
	10B-2	15.875	16.59	10.16	5.08	11.68	36.20	40.30	14.73	44.50	1.90
	12B-2	19.05	19.46	12.07	5.72	17.02	42.20	46.80	16.13	57.80	2.42
	16B-2	25.40	31.88	15.88	8.28	19.56	68.00	73.40	21.08	106.00	5.40
	20B-2	31.75	36.45	19.05	10.19	25.40	79.70	85.80	26.42	170.00	7.20
	24B-2	38.10	48.36	25.40	14.63	30.99	101.80	108.40	33.40	280.00	13.40
	28B-2	44.45	59.56	27.94	15.90	30.99	124.70	132.10	37.08	360.00	16.60
	32B-2	50.80	58.55	29.21	17.81	30.99	126.00	133.90	42.29	450.00	21.00
	40B-2	63.50	72.29	39.37	22.89	38.10	154.90	165.10	52.96	630.00	32.00
	48B-2	76.2	91.21	48.26	29.24	45.72	190.40	200.90	63.88	1000.00	50.00
TRIPLEX	05B-3	8.00	5.64	5.00	2.31	3.00	19.90	23.00	7.11	11.10	1.02
	06B-3	9.525	10.24	6.35	3.28	5.72	34.00	37.30	8.26	24.90	1.29
	08B-3	12.70	13.92	8.51	4.45	7.75	44.90	48.80	11.81	44.55	2.13
	10B-3	15.875	16.59	10.16	5.08	9.65	52.80	56.90	14.73	66.70	2.85
	12B-3	19.05	19.46	12.07	5.72	11.68	61.70	66.30	16.13	86.70	3.63
	16B-3	25.40	31.88	15.88	8.28	17.02	99.90	105.30	21.08	160.00	8.10
	20B-3	31.75	36.45	19.05	10.19	19.56	116.10	122.20	26.42	250.00	10.80
	24B-3	38.10	48.36	25.40	14.63	25.40	150.20	156.80	33.40	425.00	20.10
	28B-3	44.45	59.56	27.94	15.90	30.99	184.30	191.70	37.08	530.00	24.90
	32B-3	50.80	58.55	29.21	17.81	30.99	184.50	192.40	42.29	670.00	31.50
	40B-3	63.50	72.29	39.37	22.89	38.10	227.20	237.40	52.96	950.00	48.00
	48B-3	76.2	91.21	48.26	29.24	45.72	281.60	292.10	63.88	1500.00	75.00

ROLLER CHAIN AMERICAN STANDARD (ASA B29-1/DIN 8188)



ALL DIMENSION ARE IN mm.

	ISO Chain No. / Rainbow Chain No.	ANSI Chain No. / JIS Chain No.	Pitch	Transverse pitch	Roller diameter	Bearing pin body diameter	Width between inner plates	Width over bearing pins	Width over connecting pins	Inner plates depth	Ultimate tensile strength	Weight per meter
			P mm	Pt mm	d ₁ mm	d ₂ mm	b ₁ mm	b ₄ , b ₅ , b ₆ mm	b ₇ , b ₈ , b ₉ mm	h ₂ mm	Q kN	q Kg/m
SIMPLEX	08A	40	12.70	-	7.92	3.98	7.85	17.80	21.70	12.07	13.80	0.64
	10A	50	15.875	-	10.16	5.09	9.40	21.80	25.90	15.09	21.80	1.06
	12A	60	19.05	-	11.91	5.96	12.57	26.90	31.50	18.08	31.10	1.54
	16A	80	25.40	-	15.88	7.94	15.75	33.50	38.90	24.13	55.60	2.69
	20A	100	31.75	-	19.05	9.54	18.90	41.10	47.20	30.18	86.70	4.15
	24A	120	38.10	-	22.23	11.11	25.22	50.80	57.40	36.20	124.60	5.81
	28A	140	44.45	-	25.40	12.71	25.22	54.90	62.30	42.24	169.00	7.50
	32A	160	50.80	-	28.58	14.29	31.55	65.50	73.40	48.26	222.40	9.80
	40A	200	63.50	-	39.68	19.85	37.85	80.30	90.50	60.23	347.00	16.10
DUPLEX	48A	240	76.2	-	47.63	23.81	47.35	95.50	106.00	72.39	500.40	22.60
	08A-2	40-2	12.70	14.38	7.92	3.98	7.85	32.30	36.20	12.07	27.60	1.28
	10A-2	50-2	15.875	18.11	10.16	5.09	9.40	39.90	44.00	15.09	43.60	2.12
	12A-2	60-2	19.05	22.78	11.91	5.96	12.57	49.80	54.40	18.08	62.30	3.08
	16A-2	80-2	25.40	29.29	15.88	7.94	15.75	62.70	68.10	24.13	111.20	5.38
	20A-2	100-2	31.75	35.76	19.05	9.54	18.90	77.00	83.10	30.18	173.50	8.30
	24A-2	120-2	38.10	45.44	22.23	11.11	25.22	96.30	102.90	36.20	249.10	11.62
	28A-2	140-2	44.45	48.87	25.40	12.71	25.22	103.60	111.00	42.24	338.10	15.00
	32A-2	160-2	50.80	88.55	28.58	14.29	31.55	124.20	132.10	48.26	444.80	19.60
TRIPLEX	40A-2	200-2	63.50	71.55	39.68	19.85	37.85	151.90	162.10	60.33	693.90	32.20
	48A-2	240-2	76.2	87.83	47.63	23.81	47.35	183.40	193.90	72.39	1000.80	44.00
	08A-3	40-3	12.70	14.38	7.92	3.98	7.85	46.70	50.60	12.07	41.40	1.92
	10A-3	50-3	15.875	18.11	10.16	5.09	9.40	57.90	62.00	15.09	65.40	3.18
	12A-3	60-3	19.05	22.78	11.91	5.96	12.57	72.60	77.20	18.08	93.40	4.62
	16A-3	80-3	25.40	29.29	15.88	7.94	15.75	91.90	97.30	24.13	166.80	8.07
	20A-3	100-3	31.75	35.76	19.05	9.54	18.90	113.00	119.00	30.18	260.20	11.62
	24A-3	120-3	38.10	45.44	22.23	11.11	25.22	141.70	148.30	36.20	373.70	17.43
	28A-3	140-3	44.45	48.87	25.40	12.71	25.22	152.40	149.80	42.24	507.10	22.50
	32A-3	160-3	50.80	58.55	28.58	14.29	31.55	182.90	190.80	48.26	667.20	29.40
	40A-3	200-3	63.50	71.55	39.68	19.85	37.85	223.50	233.70	60.33	1040.90	48.30
	48A-3	240-3	76.2	87.83	47.63	23.81	47.35	271.30	281.80	72.39	1501.30	66.00

CANE CARRIER SLATS

Meritt Cane Carrier slats are manufactured under presses having die-formed beads for accurately spaced for free flexing of the chain. Slat overlap prevents cane from dropping through the carrier when it flexes over sprockets having 12 or more teeth. These are made from mild plates and can be furnished in galvanised, colour or light oiling. It is commonly manufactured from 4.8mm and 6.4mm thickness.



STANDARD STYLE AD.



AVERAGE WEIGHT OF STANDARD STYLE AD SLATS IN KGS

Thickness (mm)	Slat Length (mm)											
	762	915	1066	1200	1370	1500	1676	1828	1980	2133	2285	2400
4.8	6.2	7.5	8.9	10.2	11.5	12.9	13.9	15.2	16.6	17.9	19.2	20.5
6.35	8.4	10.3	12.1	13.9	15.7	17.5	19.1	20.9	22.7	24.4	26.3	28.1

DIFFERENT STYLES OF SLAT



INTERMEDIATE CANE CARRIER SLATS

Meritt Intermediate Carrier slats are die-formed with beads shaped for maximum strength and spaced for free flexing of the chain. Slat overlap prevents material from falling through the carrier when it operates over sprocket having 10 or more teeth. All slats will permit operation upto 4feet maximum reflex radius

AVERAGE WEIGHT OF STYLE K SLATS IN KGS

Thickness (mm)	SLAT LENGTH (mm)										
	610	762	915	1066	1220	1370	1525	1676	1800	1950	2100
4.8	2.77	3.45	4.18	4.86	5.54	6.23	6.95	7.64	8.32	9.00	9.54
6.35	3.64	4.55	5.45	6.40	7.36	8.27	9.18	10.10	11.00	11.95	12.86



Style K for 907 chain

ORDERING INFORMATION

- 1) Quantity
- 2) Style
- 3) Length & Thickness
- 4) Chain number



MERITT TRANSMISSIONS

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

Meritt products are designed for long, trouble-free service, and are available in an extensive range of types and sizes, for use in Sugar and various other Industries.

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 fifteenth 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.

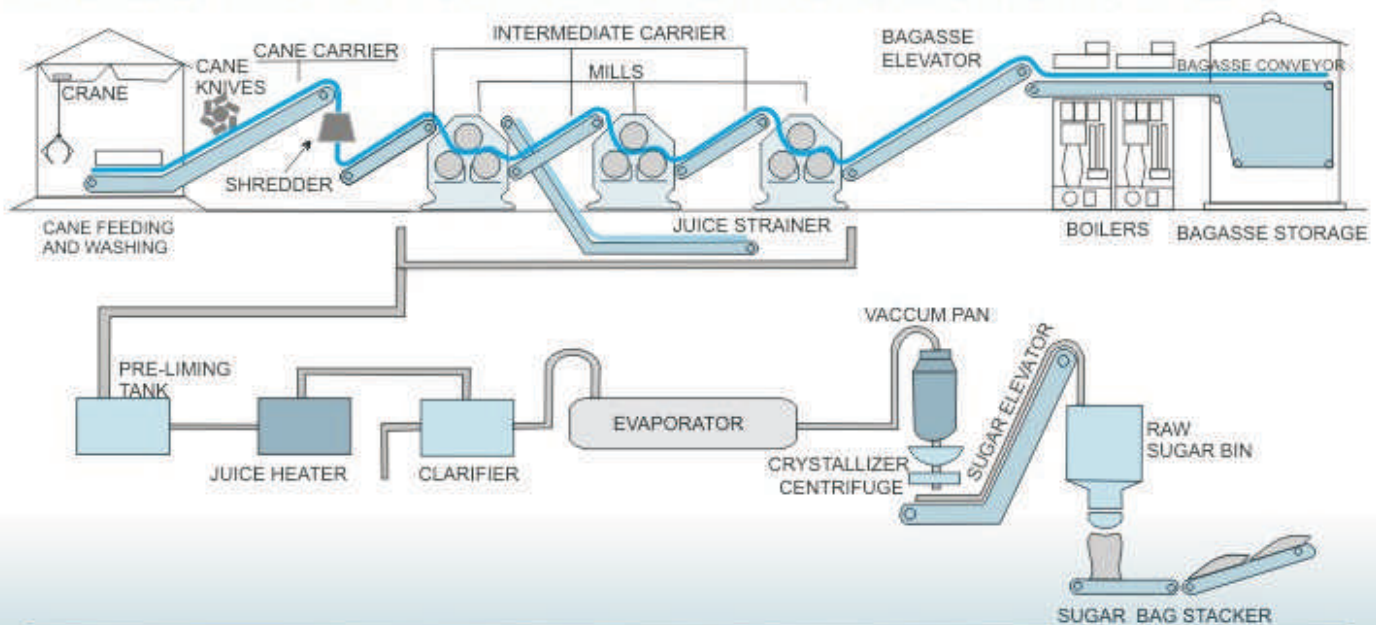
CHAINS FOR SUGAR MILLS

Meritt Transmissions offers complete range of drive and conveyor chains for the sugar industry (sugar cane/beet sugar).Meritt has studied the detailed application engineering of sugar industry and offer wide range of conveyor chains with different material specifications and heat treatment, so as to offer higher fatigue and wear resistance and breaking load. Meritt offers chains in different grades of stainless steel with / without heat treatment. Meritt sugar chains are best known for its cost effectiveness with reliability of strength, cutting replacement cost and are available within short delivery period.

CONTENTS

Cane Carrier Chain	-Pg. 1
Bagasse Carrier Chain	-Pg. 2
Rake Carrier Chain	-Pg. 3
Intermediate Carrier Chain	-Pg. 4
Forged Rake/ Inter carrier Chain	-Pg. 5
Bushed chains	-Pg. 6
Roller chains British Standard	-Pg. 7
Roller chains American Standard	-Pg. 8
Slats .	-Pg. 9

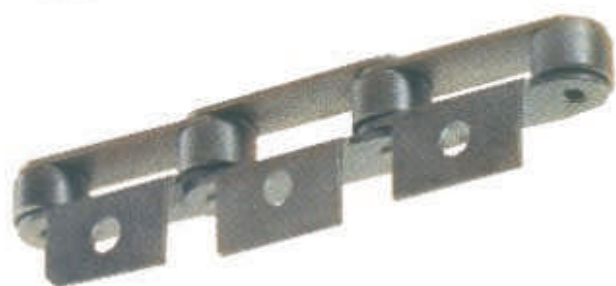
PROCESS LAYOUT FOR CONVENTIONAL SUGAR MILL



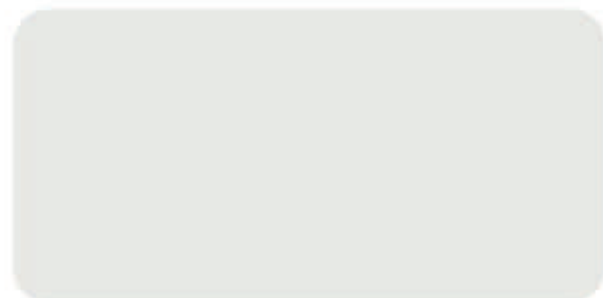


OTHER CHAINS FOR SUGAR MILLS

Feeder table chain
Offset type chain
Out board roller chain
Diffuser chain
Sugar stacker chain
Sprocket, etc.



Distributed by :



In accordance with the quality policy of Meritt Transmissions to constantly improve its products, specifications in this catalogue are subject to change without prior notice

SPROCKETS FOR SUGAR MILL EQUIPMENT :



Meritt

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