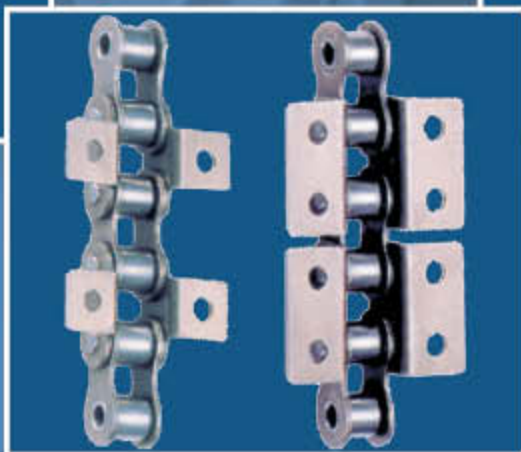


2015



Roller Transmission Chains



Established in 1987, Meritt Transmissions, has over the years emerged as leading manufacturer and exporter of Roller Chains, 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 power transmission and conveying.

Meritt Transmissions offers wide range of Roller Transmission Chains and Sprockets as per BS/DIN and ANSI standard. We carry huge inventory of all standard chains from smallest $\frac{1}{4}$ " pitch to biggest 3" pitch chain in simplex, duplex and triplex and its suitable sprockets. We offer from ready stock Stainless Steel Chains, Hollow Pin Chains, Attachment Chains, etc. We can give any special chains as per clients requirements with shortest delivery time.

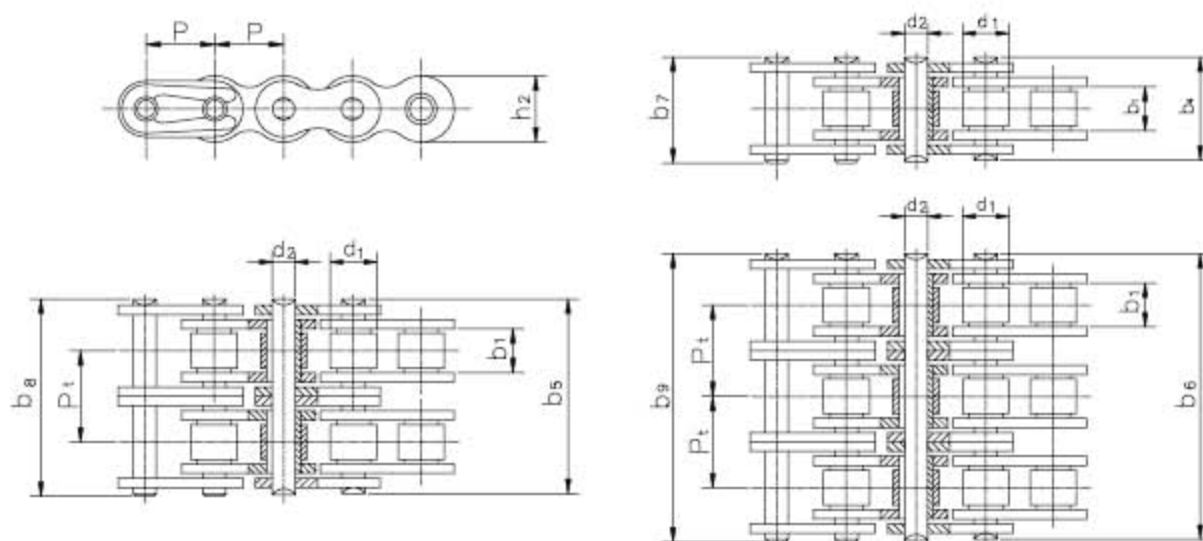
Meritt chains and sprockets are well known for its cost effectiveness with reliability of quality, delivery and service.

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Roller Chain British Standard (BS-228/DIN 8187)

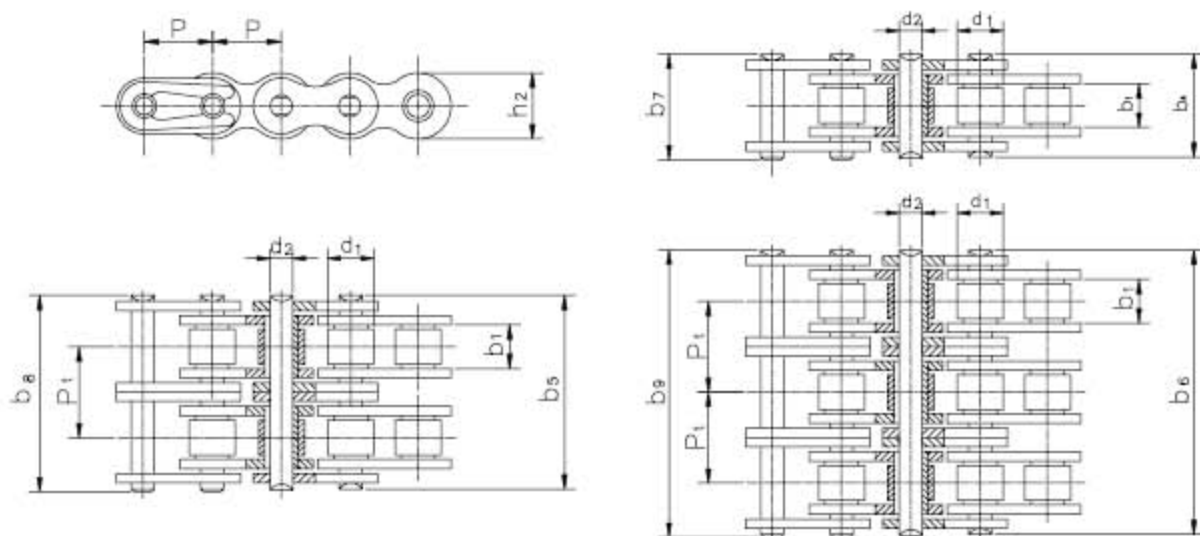
Meritt



	ISO Chain No. / Rainbow 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	p _t 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	▲ 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
DUPLEX	▲ 05B-2	8.00	5.64	5.00	2.31	3.00	14.30	17.80	7.11	7.80	0.68
	▲ 06B-2	9.525	10.24	6.35	3.28	5.72	23.80	27.10	8.26	16.90	0.96
	08B-2	12.70	13.92	8.51	4.45	7.75	31.00	34.90	11.80	31.10	1.42
	10B-2	15.875	16.59	10.16	5.08	9.65	36.20	40.30	14.73	44.50	1.90
	12B-2	19.05	19.46	12.07	5.72	11.68	42.20	46.80	16.13	57.80	2.42
	16B-2	25.40	31.88	15.88	8.28	17.02	68.00	73.40	21.08	106.00	5.40
	20B-2	31.75	36.45	19.05	10.19	19.56	79.70	85.80	26.42	170.00	7.20
	24B-2	38.10	48.36	25.40	14.63	25.40	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
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
TRIPLEX	48B-3	76.2	91.21	48.26	29.24	45.72	281.60	292.10	63.88	1500.00	75.00

▲ THE LINK PLATE WITH STRAIGHT EDGE.

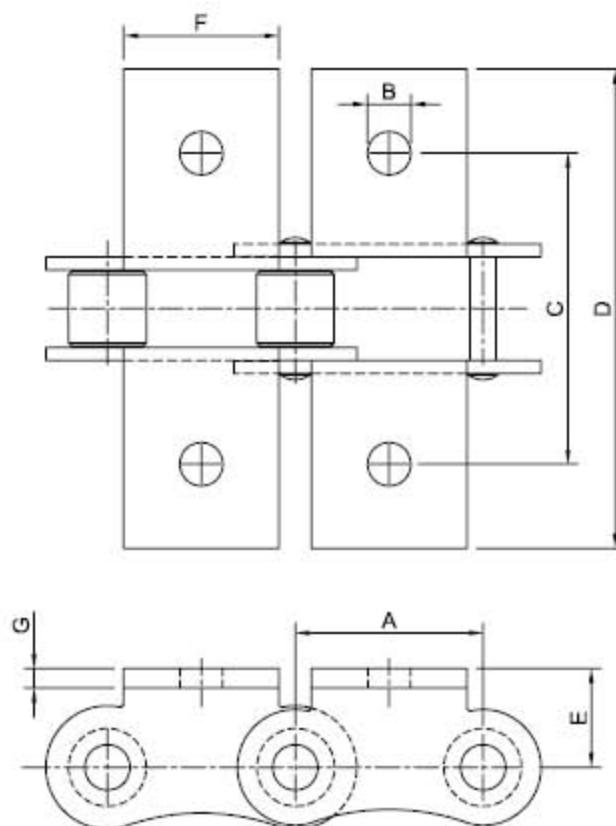
Dimensions subject to change. Certified dimensions furnished upon request.



	ISO Chain No.	ANSI 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
	Rainbow Chain No.	JIS Chain No.	P mm	P _t 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
	48A	240	76.2	--	47.63	23.81	47.35	95.50	106.00	72.39	500.4	22.60
DUPLEX	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	58.55	28.58	14.29	31.55	124.20	132.10	48.26	444.80	19.60
	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	1000.8	44.00
TRIPLEX	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	1501.3	66.00

Dimensions subject to change. Certified dimensions furnished upon request.

Roller Chain (BS Standard) with K-1 Attachment



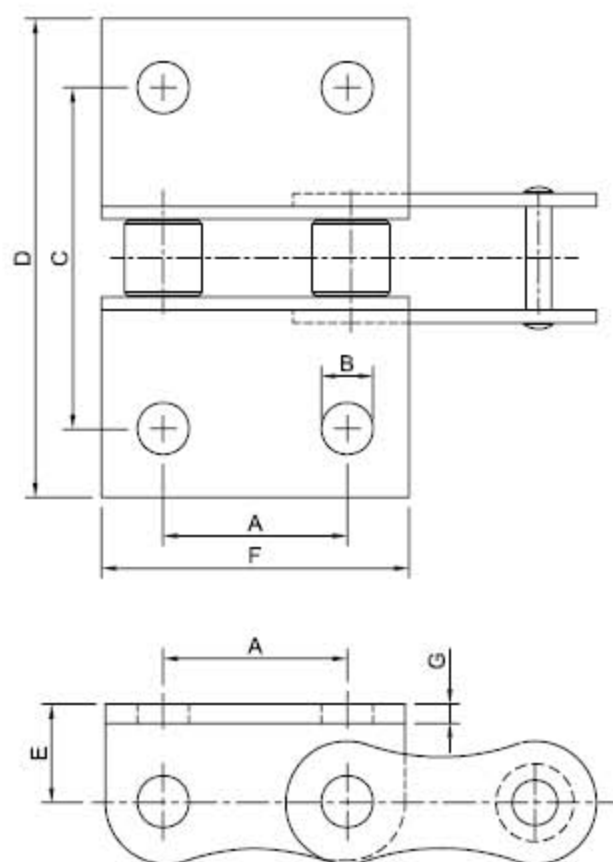
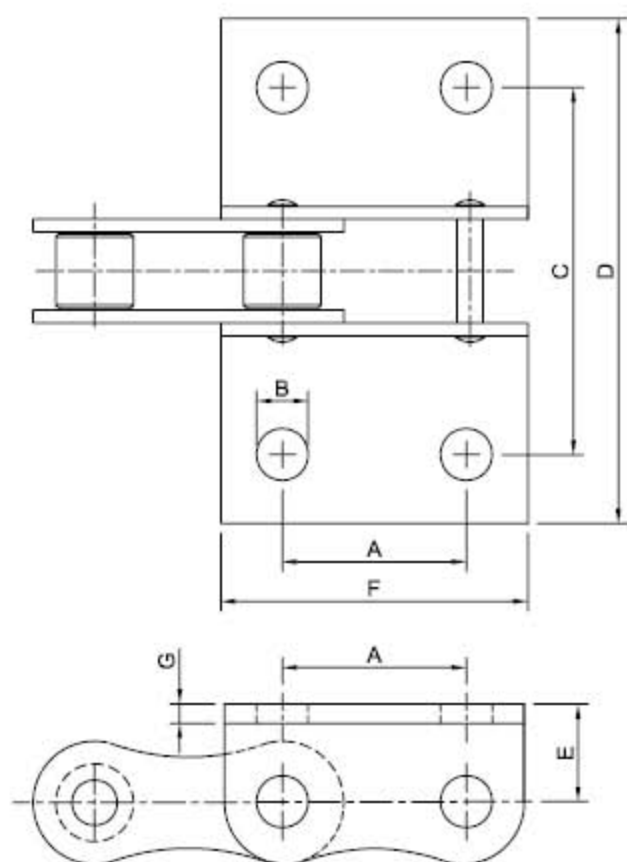
K-1 ATTACHMENTS

OUTER LINK								INNER LINK							
ISO CHAIN NO.	PITCH (A)	HOLE Ø (B)	(C)	(D)	(E)	(F)	(G)	ISO CHAIN NO.	PITCH (A)	HOLE Ø (B)	(C)	(D)	(E)	(F)	(G)
08B -1	12.70	4.5	25.4	37.92	8.89	11.56	1.57	08B -1	12.70	4.5	25.4	34.26	8.89	11.56	1.57
10B -1	15.87	5.0	31.8	44.45	10.16	12.83	1.57	10B -1	15.87	5.0	31.8	40.67	10.16	12.83	1.57
12B -1	19.05	5.7	38.1	59.66	13.49	16.64	1.83	12B -1	19.05	5.7	38.1	55.37	13.49	16.64	1.83
16B -1	25.40	8.2	50.8	74.45	15.24	24.32	3.10	16B -1	25.40	8.2	50.8	68.88	15.24	24.32	4.06
20B -1	31.75	9.0	63.5	93.62	19.84	25.59	3.61	20B -1	31.75	9.0	63.5	86.97	19.84	25.59	4.62
24B -1	38.1	12.0	82.0	115.0	23.0	28.0	5.0	24B -1	38.1	12.0	82.0	115.0	23.0	28.0	6.0
32B -1	50.8	14.0	101.6	148.0	30.25	38.0	6.0	32B -1	50.8	14.0	101.6	148.0	30.25	38.0	7.0

ALL DIMENSIONS ARE IN MM

NOTE:

- 1) The above K-1 attachment can be fit on duplex and triplex chain.
- 2) All the K-1 attachment chain available in stainless steel also.
- 3) Unless otherwise specified, K-1 attachment starts from outer link.
- 4) Please specify the frequency of positioning of attachments while ordering.



K-2 ATTACHMENTS - (OUTER LINK)

K-2 ATTACHMENTS - (INNER LINK)

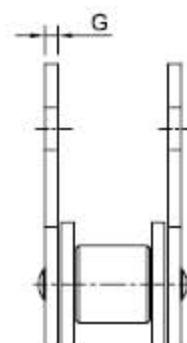
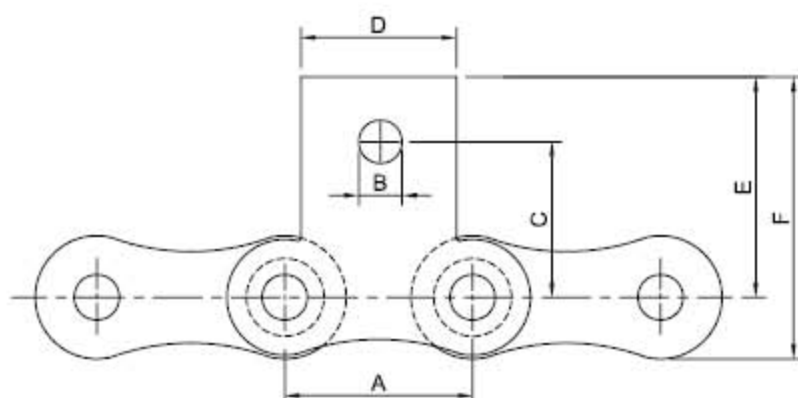
OUTER LINK								INNER LINK							
ISO CHAIN NO.	PITCH (A)	HOLE Ø (B)	(C)	(D)	(E)	(F)	(G)	ISO CHAIN NO.	PITCH (A)	HOLE Ø (B)	(C)	(D)	(E)	(F)	(G)
08B -1	12.70	4.5	25.4	40.46	8.89	24.51	1.57	08B -1	12.70	4.5	25.4	36.80	8.89	24.51	1.57
10B -1	15.87	5.0	31.8	45.57	10.16	30.00	1.57	10B -1	15.87	5.0	31.8	45.75	10.16	29.34	1.57
12B -1	19.05	5.7	38.1	51.13	11.43	34.80	1.83	12B -1	19.05	5.7	38.1	51.41	11.43	35.48	1.83
16B -1	25.40	8.2	50.8	78.26	15.88	45.91	3.10	16B -1	25.40	8.2	50.8	78.03	15.88	45.91	4.06
20B -1	31.75	9.0	63.5	93.62	19.84	58.10	3.61	20B -1	31.75	9.0	63.5	86.97	19.84	58.10	4.62
24B -1	38.1	12.0	82.0	115.0	23.0	72.0	5.0	24B -1	38.1	12.0	82.0	115.0	23.0	72.0	6.0
32B -1	50.8	14.0	101.6	148.0	30.25	97.0	6.0	32B -1	50.8	14.0	101.6	148.0	30.25	97.0	7.0

ALL DIMENSIONS ARE IN MM

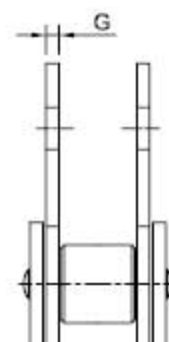
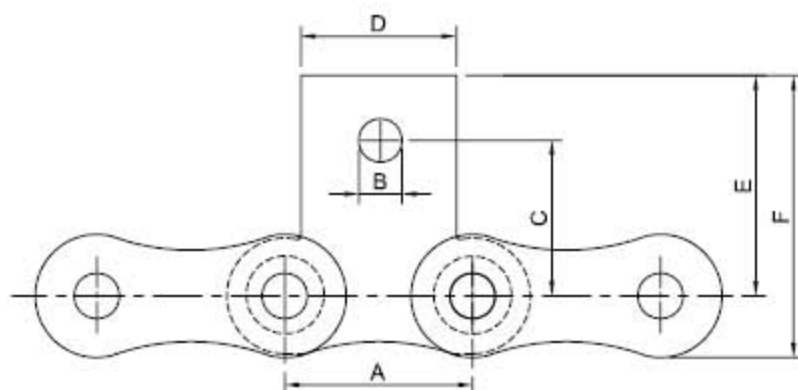
NOTE:

- 1) The above K-2 attachment can be fit on duplex and triplex chain.
- 2) All the K-2 attachment chain available in stainless steel also.
- 3) Please specify the frequency of positioning of attachments while ordering.

Roller Chain (BS Standard) with M-1 Attachment



M-1 ATTACHMENTS (OUTER LINK)



M-1 ATTACHMENTS (INNER LINK)

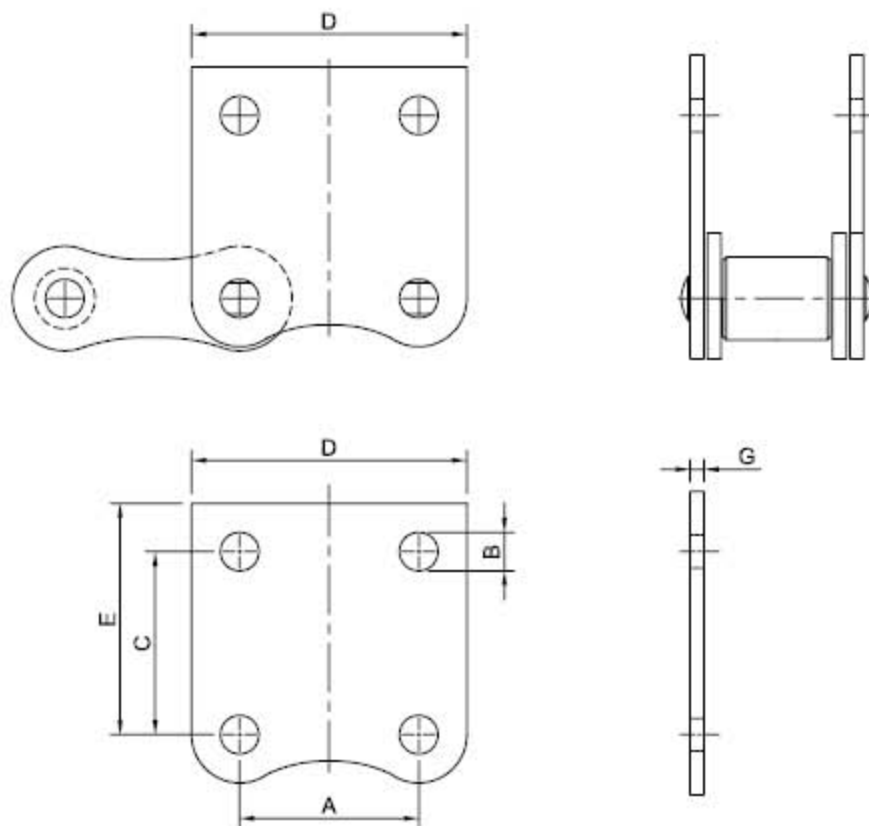
OUTER LINK								INNER LINK							
ISO CHAIN NO.	PITCH (A)	HOLE Ø (B)	(C)	(D)	(E)	(F)	(G)	ISO CHAIN NO.	PITCH (A)	HOLE Ø (B)	(C)	(D)	(E)	(F)	(G)
08B -1	12.70	4.5	13.0	11.56	19.00	24.10	1.57	08B -1	12.70	4.5	13.0	11.56	19.00	24.10	1.57
10B -1	15.87	5.0	16.5	12.83	22.54	29.50	1.57	10B -1	15.87	5.0	16.5	12.83	22.54	29.50	1.57
12B -1	19.05	5.7	15.88	16.64	31.98	40.00	1.83	12B -1	19.05	5.72	15.88	16.64	31.98	40.00	1.83
16B -1	25.40	8.2	18.85	24.32	34.13	44.40	3.10	16B -1	25.40	8.20	18.85	24.32	34.13	44.40	4.06
20B -1	31.75	9.0	30.50	25.59	46.02	58.60	3.61	20B -1	31.75	9.0	30.50	25.59	46.02	58.60	4.63

ALL DIMENSIONS ARE IN MM

NOTE:

- 1) All the M-1 attachment chain available in stainless steel also.
- 2) Unless otherwise specified, M-1 attachment starts from outer link.
- 3) Please specify the frequency of positioning of attachments while ordering.

Dimensions subject to change. Certified dimensions furnished upon request.



M-2 ATTACHMENTS (OUTER LINK)

ISO CHAIN NO.	PITCH (A)	HOLE Ø (B)	(C)	(D)	(E)	(G)
08B -1	12.70	4.5	13.0	24.40	20.80	1.57
10B -1	15.87	5.0	16.5	29.90	24.90	1.57
12B -1	19.05	5.7	15.88	35.40	28.20	1.83
16B -1	25.40	8.2	18.85	46.20	39.70	3.10
20B -1	31.75	9.0	30.50	57.00	47.50	3.61

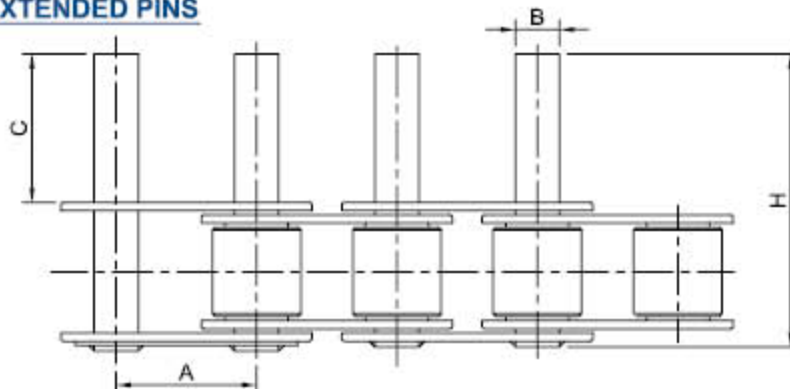
ALL DIMENSIONS ARE IN MM

NOTE:

- 1) All the M-2 attachment chain available in stainless steel also.
- 2) Please specify the frequency of positioning of attachments while ordering.

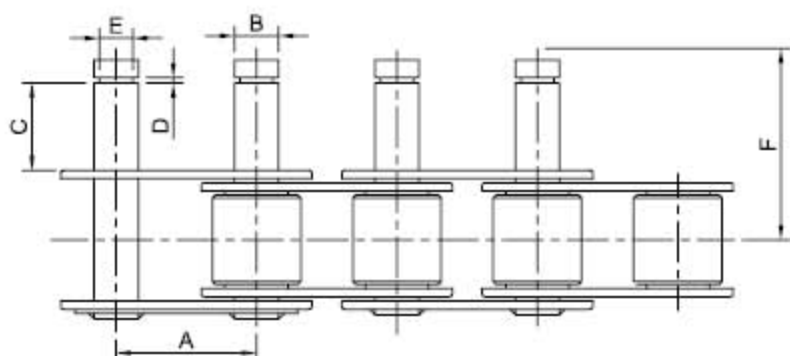
Roller Chain (BS Standard) with Extended Pins

1) STRAIGHT EXTENDED PINS



ISO CHAIN NO.	PITCH (A)	PIN DIA. B (MAX.)	EXTENSION LENGTH C (MAX.)	PIN LENGTH H (MAX.)
06B -1	9.60	3.28	11.30	23.80
08B -1	12.70	4.50	14.80	31.00
10B -1	15.90	5.08	17.60	36.20
12B -1	19.05	5.72	20.70	42.40
16B -1	25.40	8.25	33.30	68.00
20B -1	31.75	10.19	38.30	79.70
24B -1	38.10	14.63	50.30	101.80

2) EXTENDED PINS WITH CIRCLIP GROOVE



ISO CHAIN NO.	PITCH (A)	PIN DIA. B (MAX.)	EXTENSION LENGTH TO CIRCLIP GROOVE C (MAX.)	CIRCLIP GROOVE WIDTH D (MIN)	GROOVE DIA. E (MIN)	CHAIN TRACK FROM CHAIN CENTRE LINE F (MAX.)
08B -1	12.70	4.50	7.19	0.58	3.18	17.78
10B -1	15.90	5.08	9.45	0.71	4.78	21.34
12B -1	19.05	5.72	11.81	0.71	4.78	25.15
16B -1	25.40	8.25	15.75	1.02	6.93	36.58

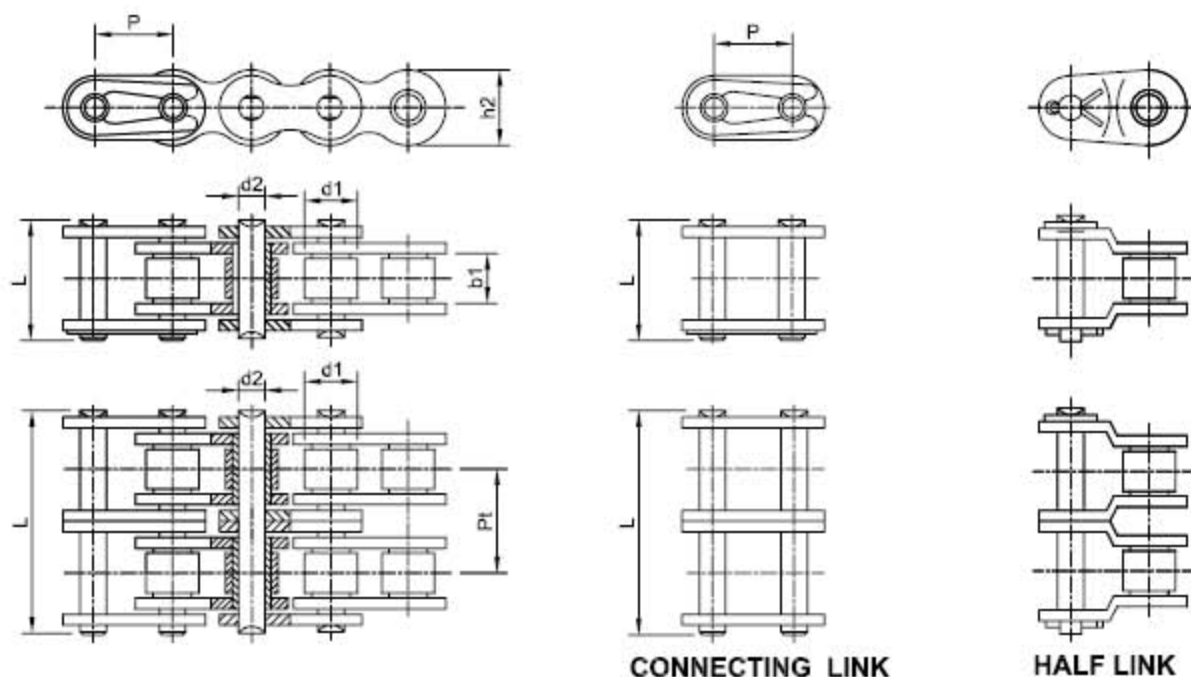
ALL DIMENSIONS ARE IN MM

NOTE:

- 1) Please specify the type of extended pin and frequency of positioning of extended pin while ordering.
- 2) Cotter pin hole instead of circlip groove can be given.

Dimensions subject to change. Certified dimensions furnished upon request.

Stainless Steel Chains are suitable for corrosive conditions involving food, chemicals, pharmaceuticals, etc. and also suitable for high and low temperature conditions.



CHAIN NO	PITCH (P)	ROLLER DIA (d1) [Max]	WIDTH BETWEEN INNER LINK (b1)	PIN DIA. (D2)	PIN LENGTH [L]	INNER PLATE DEPTH (h2)	TRANSVERSE PITCH (Pt)	ULTIMATE TENSILE STRENGTH Kg.	MAX WORKING LOAD Kg.	WT. [Kg./m]
SIMPLEX										
05BSS - 1	8.00	5.00	3.00	2.31	8.5	7.0	-	400	20	0.18
*06BSS - 1	9.525	6.35	5.72	3.28	13.2	8.2	-	620	30	0.41
08BSS - 1	12.70	8.51	7.75	4.45	16.7	11.8	-	1200	50	0.70
10BSS - 1	15.875	10.16	9.65	5.08	19.5	14.6	-	1450	65	0.94
12BSS - 1	19.05	12.07	11.68	5.72	22.5	16.0	-	1850	95	1.16
16BSS - 1	25.40	15.88	17.02	8.28	36.1	20.9	-	4000	170	2.13
20BSS - 1	31.75	19.05	19.56	10.19	41.3	26.0	-	5800	270	3.73
24BSS - 1	38.10	25.40	25.40	14.63	53.4	33.4	-	7500	490	7.80
* Straight Side Plate Chain										
DUPLEX										
06BSS - 2	9.525	6.35	5.72	3.28	23.8	8.2	10.24	1000	50	0.74
08BSS - 2	12.70	8.51	7.75	4.45	31.0	11.8	13.92	2100	105	1.45
10BSS - 2	15.875	10.16	9.65	5.08	36.2	14.6	16.59	2800	140	1.88
12BSS - 2	19.05	12.07	11.68	5.72	42.2	16.0	19.46	3600	180	2.40
16BSS - 2	25.40	15.88	17.02	8.28	68.0	20.9	31.88	7500	370	5.47
20BSS - 2	31.75	19.05	19.56	10.19	79.7	26.0	36.50	9500	475	7.10

ALL DIMENSIONS ARE IN MM

NOTE:
IT IS RECOMMENDED TO SELECT SIMPLEX CHAIN DUE TO EASY AVAILABILITY.
THE CHAINS ARE ALSO AVAILABLE IN SS-316, SS-316L, ETC.

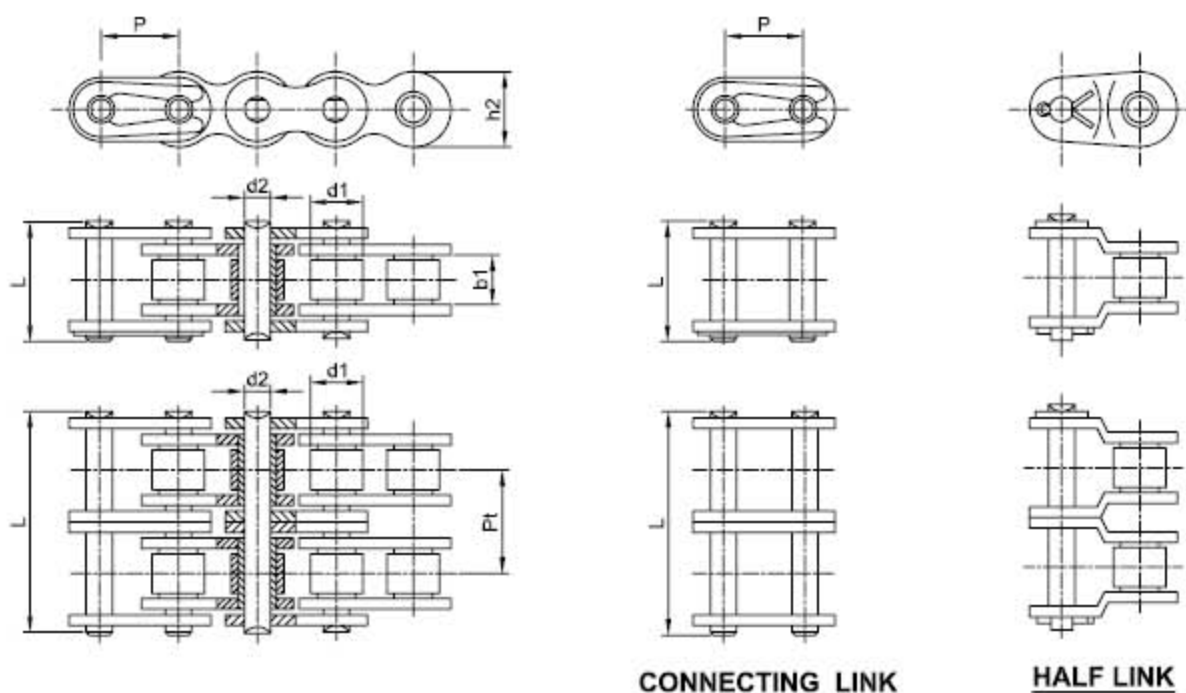
Dimensions subject to change. Certified dimensions furnished upon request.

Stainless Steel Roller Chains

- American Standard



Stainless Steel Chains are suitable for corrosive conditions involving food, chemicals, pharmaceuticals, etc. and also suitable for high and low temperature conditions.

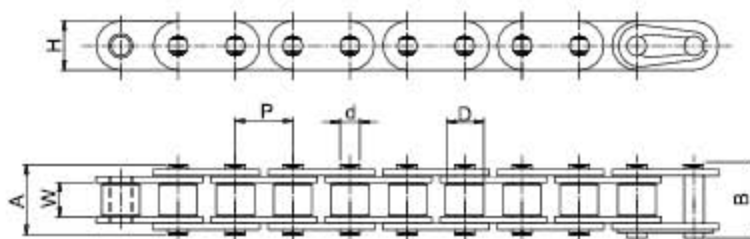


CHAIN NO	PITCH (P)	ROLLER DIA (d1) [Max]	WIDTH BETWEEN INNER LINK (b1)	PIN DIA. (d2)	PIN LENGTH [L]	INNER PLATE DEPTH (h2)	TRANSVERSE PITCH (Pt)	ULTIMATE TENSILE STRENGTH Kg.	MAX WORKING LOAD Kg.	WT. [Kg./m]
SIMPLEX										
* 25SS - 1	6.35	3.30	3.10	2.31	7.8	5.9	-	400	20	0.14
35SS - 1	9.525	5.08	4.68	3.58	12.4	9.0	-	550	25	0.35
40SS - 1	12.70	7.92	7.85	3.96	16.6	12.0	-	970	45	0.65
50SS - 1	15.875	10.16	9.40	5.08	20.7	15.0	-	1530	70	1.04
60SS - 1	19.05	11.91	12.57	5.94	25.9	18.0	-	2180	110	1.55
80SS - 1	25.40	15.88	15.57	7.92	32.7	23.5	-	3700	175	2.63
100SS - 1	31.75	19.05	18.90	9.53	40.4	30.0	-	5800	270	3.94
120SS - 1	38.10	22.23	25.40	11.10	50.8	35.1	-	7000	390	5.58
* Bush Chain										
DUPLEX										
35SS - 2	9.525	5.08	4.68	3.58	24.2	9.0	10.30	1020	50	0.68
40SS - 2	12.70	7.92	7.85	3.96	32.3	12.0	14.38	2090	100	1.30
50SS - 2	15.875	10.16	9.40	5.08	39.9	15.0	18.11	3400	160	2.04
60SS - 2	19.05	11.91	12.57	5.94	49.8	18.0	22.78	4560	220	3.07
80SS - 2	25.40	15.88	15.57	7.92	62.7	23.5	29.29	7200	360	5.24

ALL DIMENSIONS ARE IN MM

NOTE:
IT IS RECOMMENDED TO SELECT SIMPLEX CHAIN DUE TO EASY AVAILABILITY.
THE CHAINS ARE ALSO AVAILABLE IN SS-316, SS-316L, ETC.

Dimensions subject to change. Certified dimensions furnished upon request.



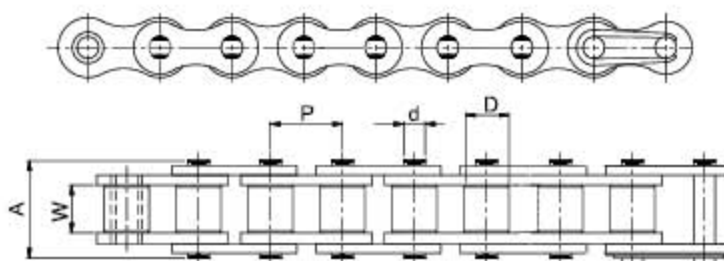
The straight side plate chains are identical to the corresponding British standard roller chain with straight side plates. It has higher fatigue resistance than the standard chains.

It is available in Duplex, Triplex strand & in American series also.

Chain No.	Pitch (P)	Width between Inner Plates (W) (Min)	Roller Dia (D) (Max)	Bearing Pin Dia (d) (Max)	Plate Height (H) (Max)	Width Over Bearing Pin (A) (Max)	Width Over Joint Fasteners (B) (Max)	Avg. Weight Per Metre (Kg)	Tensile Strength (Kgf) (Min)
C08B	12.70	7.75	8.51	4.45	11.80	17.00	20.90	0.75	1840
C10B	15.875	9.65	10.16	5.08	14.70	19.60	23.70	0.98	2290
C12B	19.05	11.68	12.07	5.72	16.10	22.70	27.30	1.24	2960
C16B	25.40	17.02	15.88	8.27	24.10	36.10	41.50	3.30	6120
C16BL	25.40	17.02	15.88	8.27	20.58	36.10	41.50	3.30	6120
C20B	31.75	19.56	19.05	10.19	26.40	43.20	49.30	3.91	9690
C24B	38.10	25.40	25.40	14.63	33.40	53.40	60.00	7.16	16310
C28B	44.45	30.99	27.94	15.90	37.00	65.10	72.50	8.79	20390
C32B	50.80	30.99	29.21	17.81	42.20	67.40	75.30	10.42	25500

ALL DIMENSIONS ARE IN MM

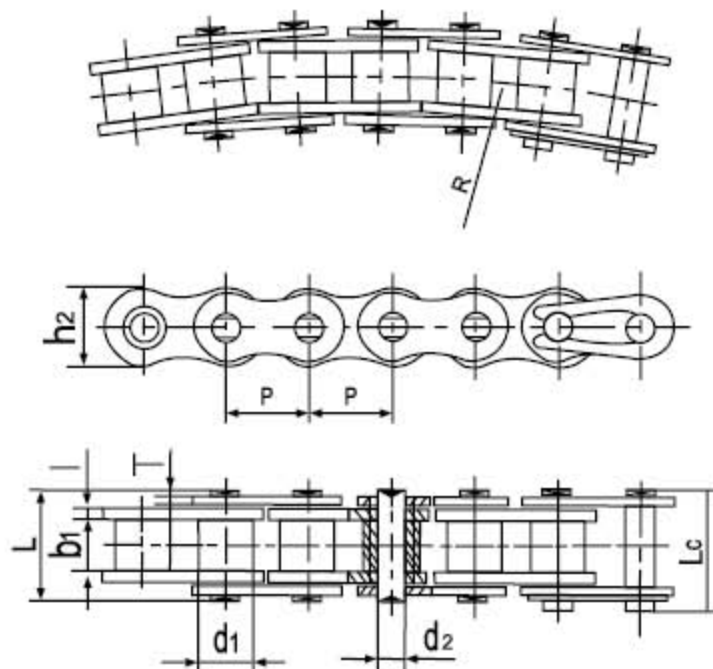
Mini Pitch Chain



Chain No.	Pitch	Roller Dia D	Width between Inner Plate W	Width over Bearing Pin A	Breaking Load Kg
Roller Type					
03B	5	3.2	2.5	7.4	200
04B	6	4	2.8	7.4	310
05B	8	5	3.2	8.7	470
Bush Type					
*10	3.175	1.7	1.3	3.7	100
*15	4.762	2.5	2.4	5.7	220
*25	6.350	3.3	3.2	7.8	480

* Bush Chain : Roller dia in the table indicate external bushing dia.

Dimensions subject to change. Certified dimensions furnished upon request.

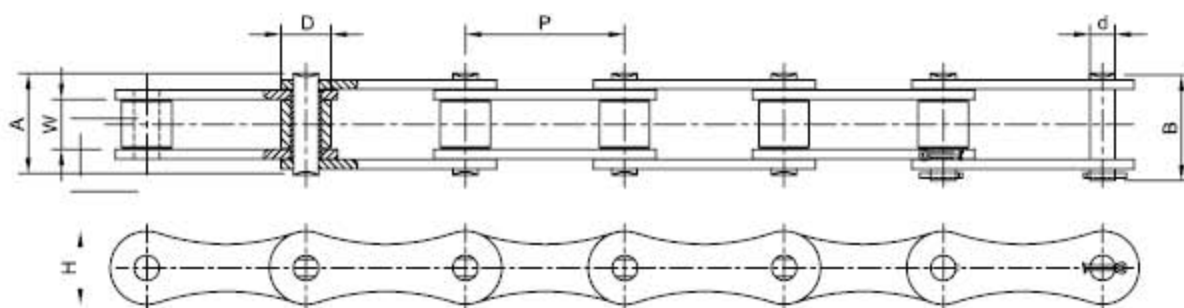


Side Bow Chains has great sideward bending flexibility and is suitable for curved travelling. Sprockets for BS/ASA Standard Roller Chain can be used for this chain. By fixing attachments, this chain can be used for curved transfer with conveyors.

Chain No.	Pitch	Roller diameter	Width between inner plates	Pin diameter	Pin length		Inner plate depth	Plate thickness	side bow radius	Ultimate tensile strength	Average tensile strength	Weight Per meter
	P mm	d ₁ max mm	b ₁ min mm	d ₂ max mm	L max mm	L _c max mm	h ₂ max mm	t/T max mm	R min mm	Q min kN	Q _{av} kN	g kg
08BSB	12.70	8.51	7.75	3.97	17.4	18.7	11.8	1.6	400	14.0	15.4	0.70
10BSB	15.875	10.16	9.65	4.50	20.1	21.5	14.7	1.7	400	15.6	17.2	0.93
12BSB	19.05	12.07	11.68	5.12	23.1	24.8	16.0	1.85	500	20.5	22.6	1.16
40SB	12.70	7.95	7.85	3.96	16.9	18.1	11.7	1.5	350	13.8	15.2	0.80
50SB	15.875	10.16	9.40	4.37	20.7	22.7	15.09	2.03	400	15.7	22.7	1.09
60SB	19.05	11.91	12.57	5.34	26.6	28.4	18.0	2.42	500	14.0	17.3	1.42

NOTE:

Above chains are available in stainless steel also.



AMERICAN SERIES

MERITT CHAIN NO.	PITCH (P)	WIDTH BETWEEN INNER PLATES (W) (min.)	ROLLER DIA. (D) (max.)	PIN DIA. (d) (max.)	PLATE HEIGHT (H) (max.)	WIDTH OVER BEARING PIN (A) (max.)	WIDTH OVER JOINT FASTENERS (B) (max.)	TENSILE STRENGTH (Kgf)	AVG.WT. PER METER (Kg.)
A-2040	25.40	7.85	7.92	3.96	11.65	17.80	21.70	1440	0.41
A-2050	31.75	9.40	10.16	5.08	13.90	21.80	25.90	2270	0.66
A-2060	38.10	12.58	11.91	5.94	18.10	26.90	31.50	3240	1.03
A-2080	50.80	15.75	15.88	7.92	24.10	33.50	38.90	5780	1.70
A-2100	63.50	18.90	19.05	9.53	29.02	41.10	47.20	9030	2.55
A-2120	76.20	25.22	22.23	11.10	34.82	50.80	57.40	12950	4.06

EUROPEAN SERIES

MERITT CHAIN NO.	PITCH (P)	WIDTH BETWEEN INNER PLATES (W) (min.)	ROLLER DIA. (D) (max.)	PIN DIA. (d) (max.)	PLATE HEIGHT (H) (max.)	WIDTH OVER BEARING PIN (A) (max.)	WIDTH OVER JOINT FASTENERS (B) (max.)	TENSILE STRENGTH (Kgf)	AVG.WT. PER METER (Kg.)
208-B	25.40	7.75	8.51	4.45	11.65	17.00	20.90	0.47	1840
210-B	31.75	9.65	10.16	5.08	13.90	19.60	23.70	0.68	2290
212-B	38.10	11.68	12.70	5.72	15.30	22.70	27.30	0.80	2960
216-B	50.80	17.02	15.88	8.27	20.65	36.10	41.50	1.42	6120
220-B	63.50	19.56	19.05	10.19	26.42	43.20	49.30	2.36	9690
224-B	76.20	25.40	25.40	14.63	33.40	53.40	60.00	4.70	16310
228-B	88.90	30.99	27.94	15.90	37.00	65.10	72.50	6.23	20390
232-B	101.60	30.99	29.21	17.81	42.20	67.40	75.30	6.72	25500

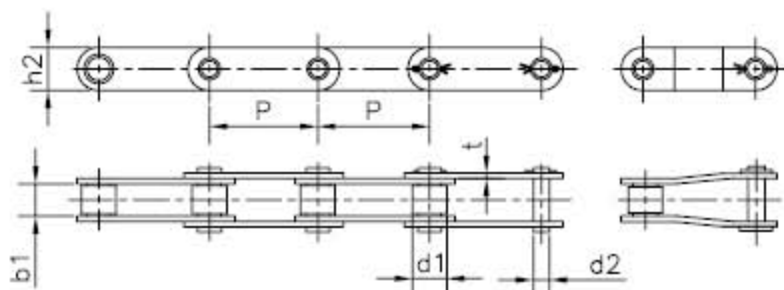
ALL DIMENSIONS ARE IN MM

NOTE:

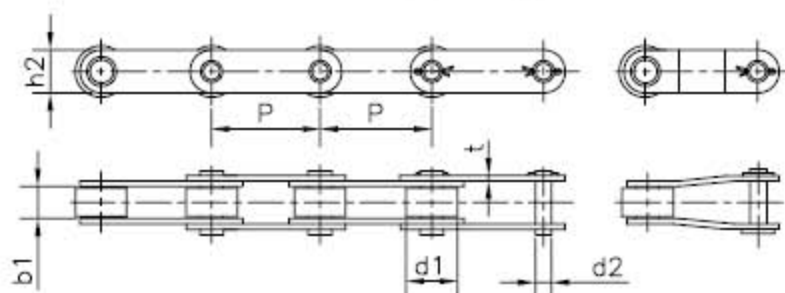
The pitch of the chains is twice of standard roller chains. All other dimensions are same as corresponding roller chain. These chains are economical and used for light load. This chains are available in stainless steel also.

Dimensions subject to change. Certified dimensions furnished upon request.

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	38.1	11.91	5.94	12.57	18	2.4	31.1	6.4	1.23
C2060H						3.1			1.52
C2080	50.8	15.88	7.92	15.75	23.5	3.1	55.6	10.7	2.10
C2080H						4.0			2.52
C2100	63.5	19.05	9.52	18.90	30	4.0	86.7	15.7	3.23
C2100H						4.8			3.81
C2120	76.2	22.23	11.10	25.22	35.8	4.8	124.6	22.0	4.73
C2120H						5.6			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	38.1	22.23	5.94	12.57	18	2.4	31.1	6.4	1.90
C2062H						3.1			2.22
C2082	50.8	28.58	7.92	15.75	23.5	3.1	55.6	10.7	3.21
C2082H						4.0			3.58
C2102	63.5	39.67	9.52	18.90	30	4.0	86.7	15.7	5.33
C2102H						4.8			5.96
C2122	76.2	44.45	11.10	25.22	35.8	4.8	124.6	22.0	7.71
C2122H						5.6			8.24

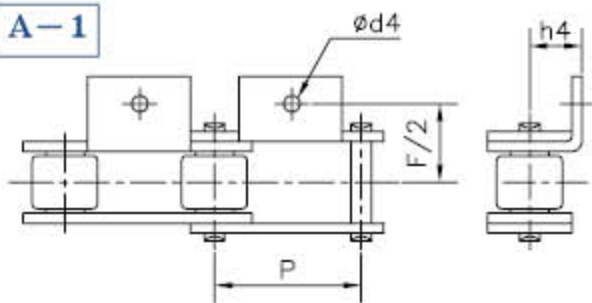
NOTE:

Above chains are available in stainless steel also.

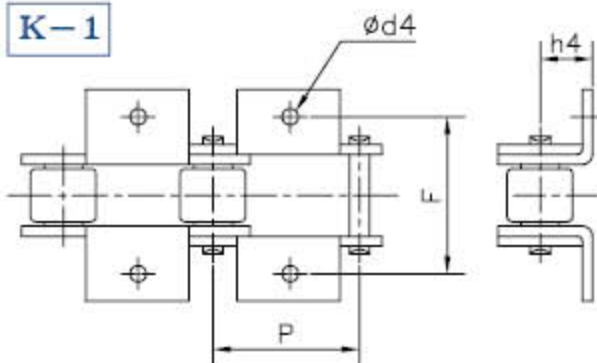
Dimensions subject to change. Certified dimensions furnished upon request.

ATTACHMENTS

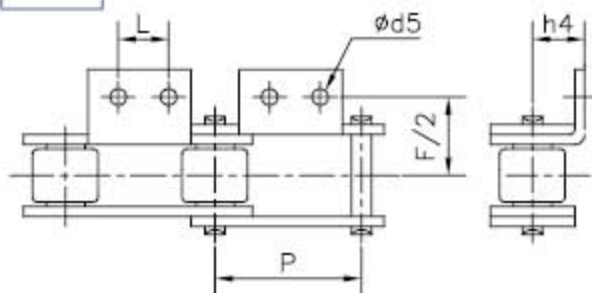
A-1



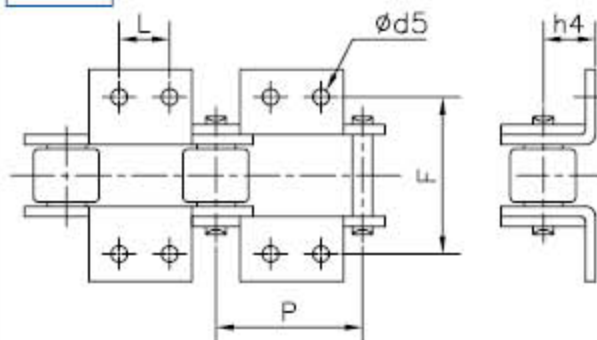
K-1



A-2



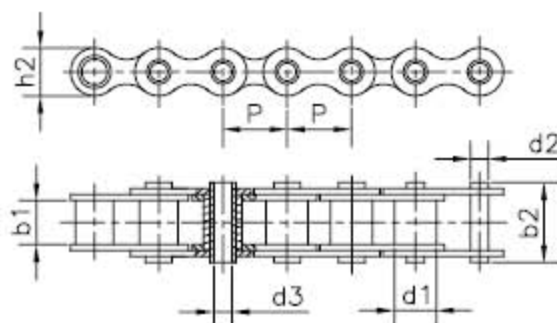
K-2



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.

Type A

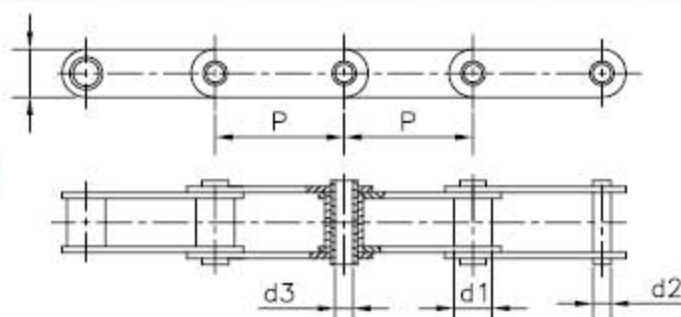


Hollow Pin Chain, attaching attachments and slats, can be used on light type conveyor machinery such as food, tobacco, print and package etc.

Type A - With Roller without bush.

Meritt Chain No.	Pitch P mm	Roller dia d1(Max) mm	Width between inner plates b1(Min) mm	Plate depth h2 mm	Pin outer dia d2 mm	Pin inner dia d3(Min) mm	Pin length b2 mm	Breaking load Q(Min) KN	Type
08BHP	12.7	8.51	7.75	12.1	6.38	4.6	16.5	10.8	Type A
10BHP	15.875	10.16	9.65	14.6	7.03	5.13	19.2	13	
12BHP	19.05	12.07	11.68	15.7	6.5	5.9	21.6	24.5	
16BHP	25.4	15.88	17.02	21.0	11.5	8.4	34.0	32.2	
40HP	12.7	7.92	7.85	12	5.63	4	16.6	8.8	
50HP	15.875	10.16	9.4	15	7.06	5.13	20.5	13.3	
60HP	19.05	11.91	12.57	18	8.33	5.97	25.3	19.6	
80HP	25.4	15.88	15.75	23.5	11.11	8.03	32.7	34.2	
*08BSSHP	12.7	8.51	7.75	12.1	6.38	4.6	16.5	6.0	
*10BSSHP	15.875	10.16	9.65	14.6	7.03	5.13	19.2	8.1	
*12BSSHP	19.05	12.07	11.68	15.7	6.5	5.9	21.6	13.3	
*16BSSHP	25.4	15.88	17.02	21.0	11.5	8.4	34.0	20.4	
*40SSHP	12.7	7.92	7.85	12	5.63	4	16.6	6.8	
*50SSHP	15.875	10.16	9.4	15	7.06	5.13	20.5	10.6	
*60SSHP	19.05	11.91	12.57	18	8.33	5.97	25.3	16.1	
*80SSHP	25.4	15.88	15.75	23.5	11.11	8.03	32.7	26.8	

Type B

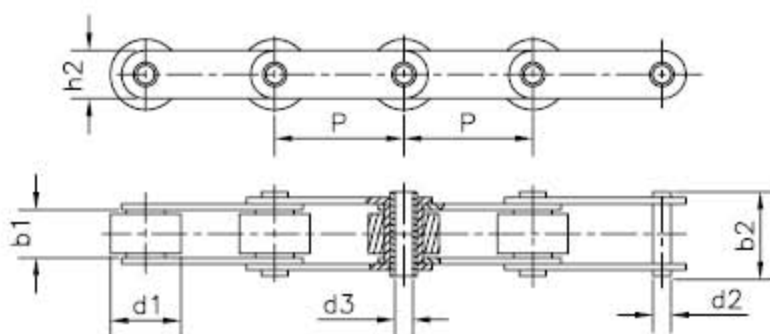


Type B - Without Roller with bush. Bush dia equals to roller dia.

Meritt Chain No.	Pitch P mm	Roller (Bush) dia d1(Max) mm	Width between inner plates b1(Min) mm	Plate depth h2 mm	Pin outer dia d2 mm	Pin inner dia d3(Min) mm	Pin length b2 mm	Breaking load Q(Min) KN	Type
C2040HP	25.4	7.92	7.85	12	5.63	4.0	16.6	8.8	Type B
C2050HP	31.75	10.16	9.4	15	7.06	5.13	20.5	13.3	
C2060HP	38.1	11.91	12.57	18	8.33	5.97	25.3	19.6	
C2080HP	50.8	15.88	15.75	23.6	11.11	8.03	32.7	34.2	

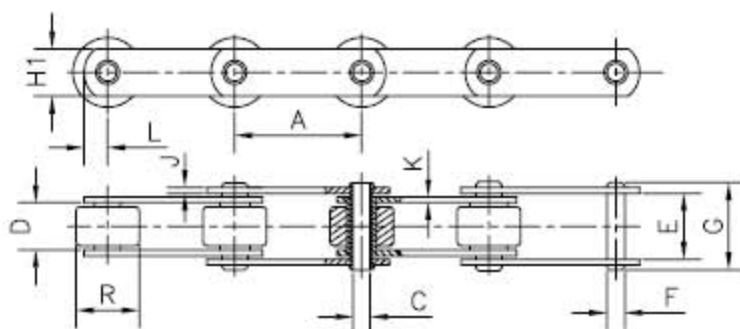
* Stainless Steel Chain

Dimensions subject to change. Certified dimensions furnished upon request.



Meritt Chain No.	Pitch	Roller outer dia	Width between inner plates	Plate depth	Pin outer dia	Pin inner dia	Pin length	Breaking load
	P mm	d1(Max) mm	b1(Min) mm	h2 mm	d2 mm	d3(Min) mm	b2 mm	Q(Min) KN
C2042HP	25.4	15.88	7.85	12	5.63	4	16.6	8.8
C2052HP	31.75	19.05	9.4	15	7.06	5.13	20.5	13.3
C2062HP	38.1	22.23	12.57	18	8.33	5.97	25.3	19.6
C2082HP	50.8	28.58	15.75	23.6	11.11	8.03	32.7	34.2
*C2042HPSS	25.4	15.88	7.85	12	5.63	4	16.6	6.8
*C2052HPSS	31.75	19.05	9.4	15	7.06	5.13	20.5	10.6
*C2062HPSS	38.1	22.23	12.57	18	8.33	5.97	25.3	16.1
*C2082HPSS	50.8	28.58	15.75	23.6	11.11	8.03	32.7	26.8

* Stainless Steel Chain

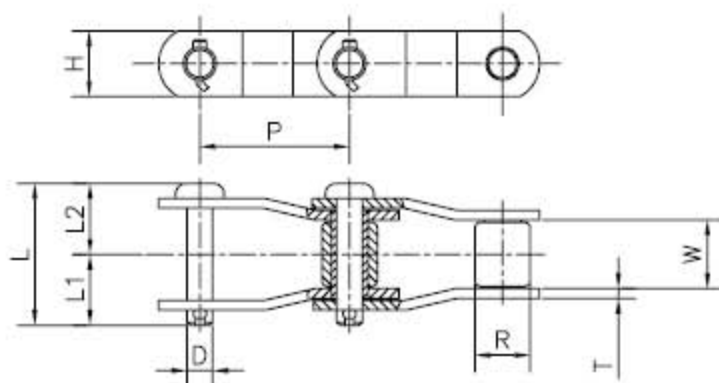


Meritt Chain No.	Breaking lbf	Pitch				Roller dia	Hollow Bearing Pin Bore Dia	Inside Width inner	Width Outer	Pin dia	Length	Plate Height	Width Outer	Width Inner	Head
		Min Inch	Max Inch	Min mm	Max mm										
		A	A	A	A	R max	C min	D min	E min	F max	G max	H1	J	K	L
M-4H	4500	1.5	3.0	38.1	76.2	25.4	6.6	12.7	17.8	9.5	24.6	19.1	1.8	2.3	11.4
M-6H	6000	2.0	6.0	50.8	152.4	31.75	10.1	15.0	25.4	14.0	36.5	25.4	4.0	4.0	15.0
M-12H	12000	3.0	9.0	76.2	228.6	47.62	13.2	19.0	32.5	19.0	44.0	38.1	4.0	5.0	22.1
M-24H	24000	4.0	12.0	101.6	304.8	66.7	20.1	25.4	45.0	26.9	61.0	50.0	6.0	8.0	29.7
M-36H	36000	5.0	18.0	127.0	457.2	88.9	23.1	38.1	59.0	31.8	79.5	62.0	8.0	10.0	34.8

NOTE:
Above chains are available in stainless steel also.

ALL DIMENSIONS ARE IN MM

Dimensions subject to change. Certified dimensions furnished upon request.



CHAIN No.	PITCH		AVERAGE ULTIMATE STRENGTH		ROLLER		PIN			LINK PLATE		APP. WEIGHT kg/mtr	LINK IN APP. 10 FEET	
	P				Roller Dia.	Inner Width	Pin Dia.	Pin Length			Height			Thk.
	Inch	mm	lbs	kgs	R	W	D	L ₁	L ₂	L	H			T
RO 2070	2.00	50.80	70000	31750	28.58	31.5	15.00	36.20	41.80	78.0	43.0	8.0	11.3	60
RO 2511	2.50	63.50	75000	34000	31.75	38.1	15.88	39.25	45.75	85.0	45.0	8.0	13.3	48
RO 25 H	2.50	63.50	87000	39700	31.75	38.1	15.88	43.00	49.50	92.5	42.0	10.0	13.7	48
RO 2585	2.50	63.50	85000	38600	39.70	38.9	19.80	41.40	48.30	89.7	55.0	8.0	16.4	48
RO 3011	3.067	77.90	110000	50000	41.28	40.1	19.05	45.00	52.00	97.0	55.0	10.0	17.7	39
RO 3	3.075	78.11	60000	27700	31.75	38.1	15.08	40.05	46.45	86.5	40.0	8.0	10.72	39
RO 3H	3.075	78.11	87000	39700	31.75	38.1	15.88	43.00	49.50	92.5	42.0	10.0	12.4	39
RO 4	4.063	103.20	140000	63500	44.45	49.2	22.23	56.85	65.35	122.2	55.0	12.7	21.0	30
RO 5	4.063	103.20	140000	63500	44.45	38.6	22.23	51.60	60.10	111.7	55.0	12.7	19.9	30
RO 4H	4.063	103.20	170000	77200	44.45	49.2	22.23	63.60	72.10	135.7	60.0	16.0	23.2	30
RO 1245	4.073	103.45	170000	77200	45.24	49.2	23.80	60.25	69.75	130.0	60.0	14.5	27.2	30
RO 635	4.50	114.30	220000	100000	57.15	52.4	27.90	64.25	71.25	135.5	76.0	14.5	38.3	27
RO 1602A	5.00	127.00	280000	127200	63.50	70.0	31.75	77.05	84.15	161.2	90.0	16.0	52.3	24
RO 6042	6.00	152.40	420000	190000	76.20	76.3	38.10	86.70	97.30	184.0	101.6	19.0	71.3	20

ALL DIMENSIONS ARE IN MM

COMPARISON TABLE

CHAIN No.	PITCH		ANSI OR API	REXNORD	LINK BELT	JEFFREY	UNION	TSUBAKI
	Inch	mm						
RO 2070	2.00	50.80	—	B 3113	RO 3160 S	IS 2065	US 2065	RO 1613 AK
RO 2511	2.50	63.50	2010	—	RO 2010	IS 2570 A	US 2570	—
RO 25 H	2.50	63.50	—	—	—	—	—	RO 25H
RO 2585	2.50	63.50	—	—	RO 3200	1625 A	US 2585	RO 1625
RO 3011	3.067	77.90	2512	AX 1568	RO 2512	JS 3011	US 3011	RO 568
RO 3	3.075	78.11	2510	—	RO 2510	—	—	RO 3
RO 3H	3.075	78.11	API-3P	CHAMP 3	RO 40 (Hyper)	JS 3075	1190 SXX	RO 3 H
RO 4	4.063	103.20	API-4P	R 1248	RO 1242	JS 4014	US 1242	RO 4
RO 5	4.063	103.20	—	—	—	—	—	RO 5
RO 4H	4.063	103.20	—	—	RO 1243 (Hyper)	API 4 DD	—	RO 4 HF
RO 1245	4.073	103.45	3315	RX 1245	RO 3315	JS 1245 A	US 1245	RO 1245
RO 635	4.50	114.30	3618	RO 635	RO 3618	IS 4522	450 SXX	RO 635
RO 1602A	5.00	127.00	4020	RX 1207	RO 4020	JS 5031	US 5028 A	RO 1602 AA
RO 6042	6.00	152.40	4824	RO 1306	RO 4824	JS 6042	US 6040	RO 6042

Dimensions subject to change. Certified dimensions furnished upon request.

The following data should be taken into consideration while selecting roller chain drives:

- Horsepower to be transmitted
- RPM of the driving sprocket
- Load classification
- Space limitations if any.

(1) Service Factor:

DRIVEN MACHINE CHARACTERISTICS		CHARACTERISTICS OF DRIVER		
		SMOOTH RUNNING	LIGHT SHOCKS	MODERATE SHOCKS
		Electric Motors, Steam and Gas Turbines, Internal Combustion Engines & Hydraulic Coupling	Internal Combustion Engines with 6 cyls or more with Mechanical Coupling, Electric Motors with frequent starts	Internal Combustion Engines with less than 6 cyls, with Mechanical Coupling
SMOOTH RUNNING	Centrifugal Pumps and Compressors, Printing Machines, Paper Calanders, Uniformly Loaded Conveyors, Escalators, Liquid Agitators and Mixers, Rotary Driers, Fans	1	1.1	1.3
MODERATE SHOCKS	Pumps and Compressors (3+cyls), Concrete Mixing Machine, Non Uniformly Loaded Conveyors, Solid Agitators and Mixers	1.4	1.5	1.7
HEAVY SHOCKS	Planers, Excavators Roll and Ball Mills, Rubber Processing Machines, Presses and Shears 1 & 2 Cyl Pumps and Compressors, Oil Drilling Rigs	1.8	1.9	2.1

(2) Establish the Design H.P, using above service factor

(3) Pinions for normal steady drives should generally not have less than 19teeth. From the speed (RPM) of the driving sprocket and design H.P, select the suitable chain pitch using graph. (Next Page)

Note: Selection of multi strand chain will become necessary if available space is limited or high-speed call for a chain with lower pitch,

(4) Select the large sprocket (driven sprocket) by using the required shaft speed ratio.

(5) Calculate the chain length in pitches by using following formula:

$$L = \frac{2C}{P} + \left\{ \frac{N+n}{2} \right\} + \left\{ \frac{N-n}{2P} \right\}^2 \frac{P}{C}$$

Where L= chain length in pitches

C= contemplated centre distance in mm and should be generally be between 30-50 pitches

P= chain pitch in mm

N= number of teeth on large sprocket (driven)

n= number of teeth on small sprocket (driving)

The calculated number of pitches should be rounded upto a whole number of even pitches. Odd number of pitches should be avoided because this would involve use of cranked link, which is not recommended.

(6) Calculate exact centre distance

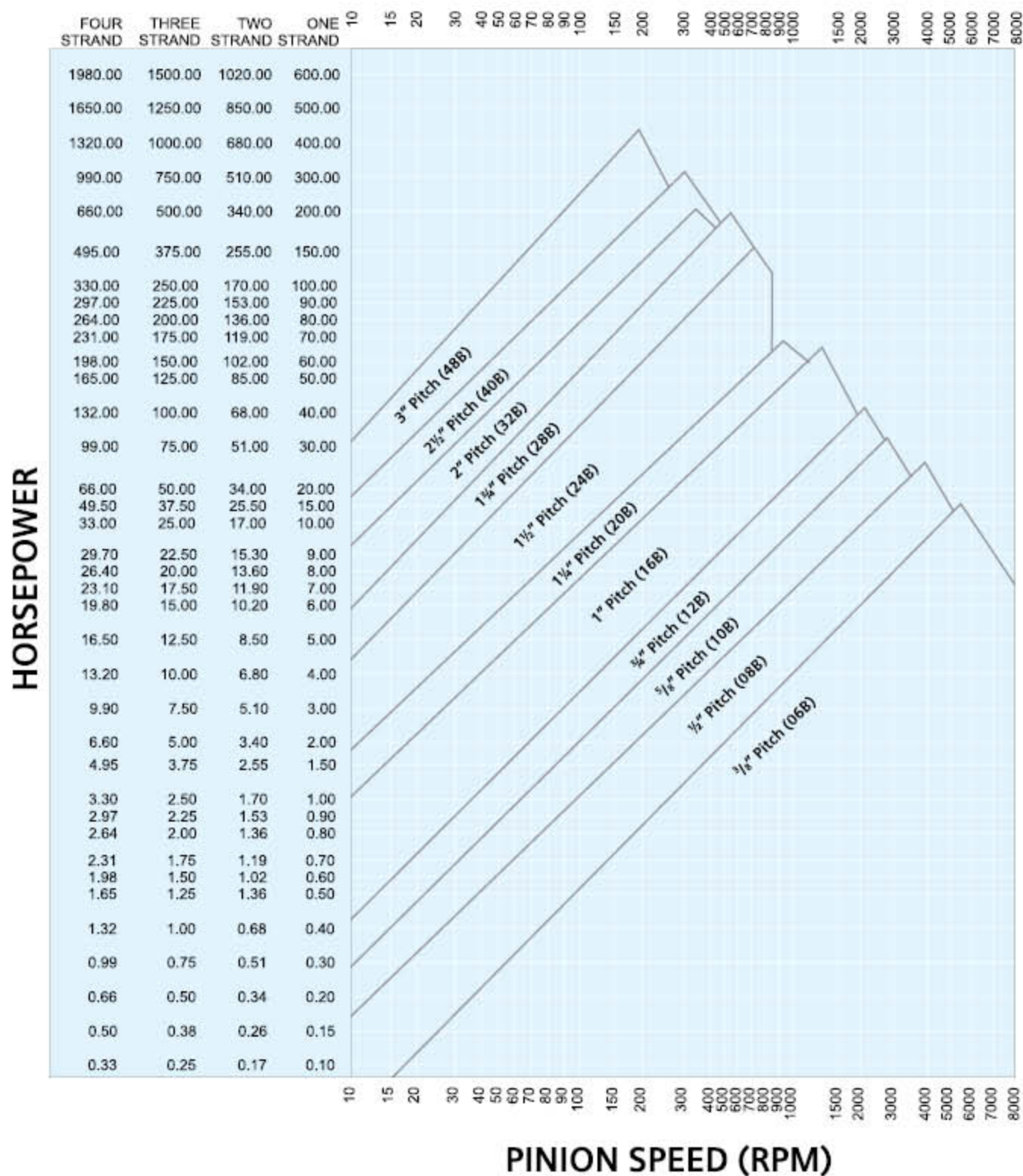
$$C_{ex} = \frac{P}{8} \left\{ 2L - N - n + \frac{(2L - N - n)^2 - (N - n)^2}{3.88} \right\}$$

where C_{ex} = exact centre distance

Horsepower Rating Chart a Tentative Selection



FOR B.S. CHAINS (19 TEETH PINION)



Note : For further technical information contact technical department.

1. American Std Roller Chain with K-1/K-2 attachment.
2. Top Roller Chain
Accumulator Chain
Rubber Top Chain
3. Conveyor Chain
Wide range of conveyor and elevator chains for every application.
Write for detail conveyor chain catalogue.
4. "Magris - Italy" SS & Thermoplastic Slat Chain.
Write for detail Catalogue.
5. Sprockets
6. "DID - Japan" Roller Chain
7. Rainbow Roller Chain
8. Conveyor Components & Accessories, etc.



Solid Pin Conveyor Chain



Hollow Pin Conveyor Chain



Accumulator Chain



Conveyor Chain with K-2 attachment



Bottle Washer Chain



Conveyor Sprocket



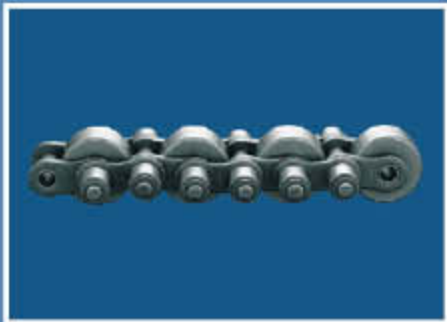
SS Slat Chain - Straight Running



SS Slat Chain - Side Flexing



Thermoplastic Slat Chain



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