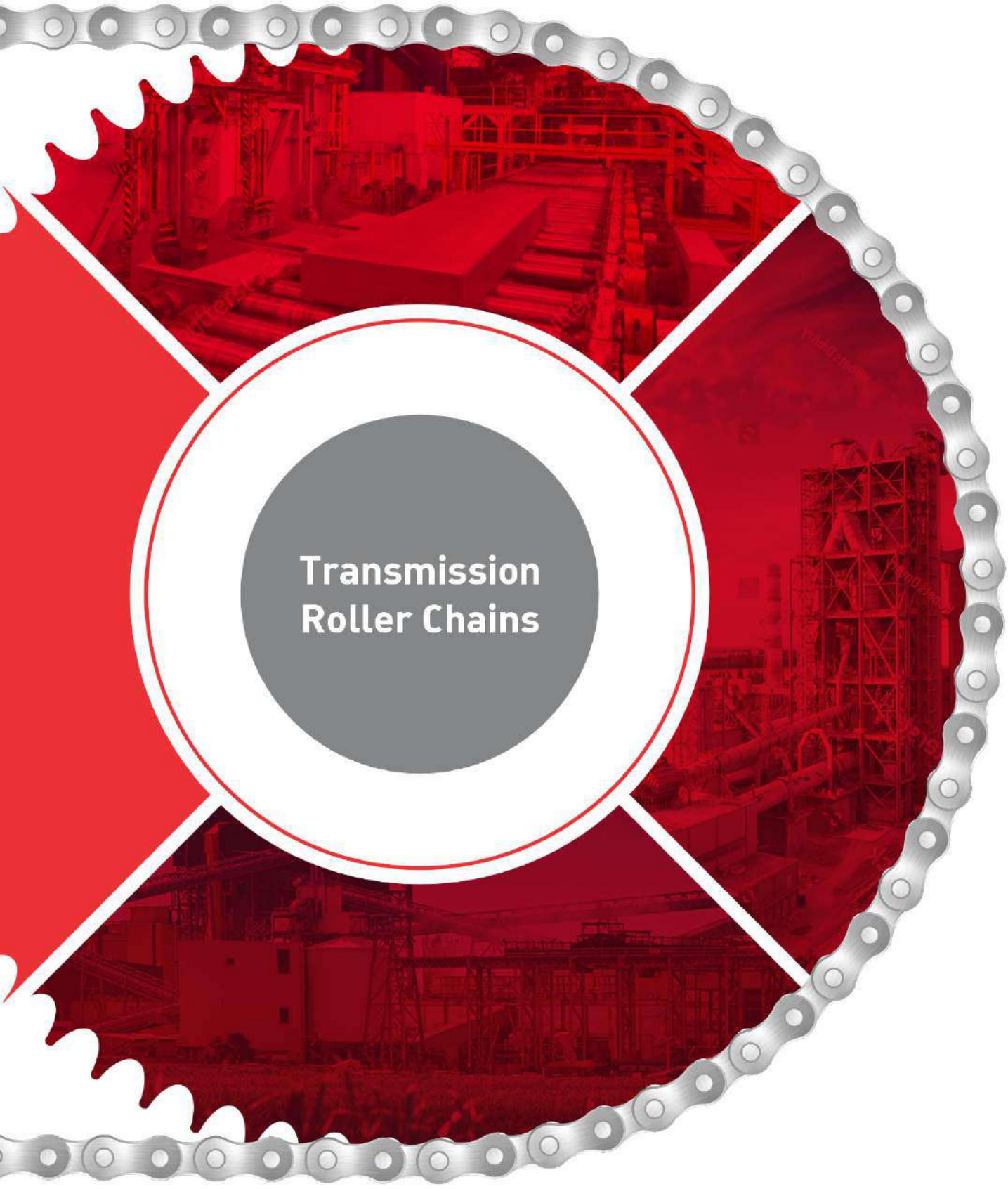
ROL-KÖBO

ROLCON
ENGINEERING CO. LTD.



Transmission Roller Chains

We help the world move

Solid Roller

Wide Waist Link Plates

Factory Preloading

Research & Development

On the contrary to the belief that tensile strength is the only parameter, which decides on the quality and wear life of the chain, it is not correct/non-conclusive, because wear resistance is equally important to prolong the life of the chain during operation. To understand the wear resistance is more complex, as it does not have any measuring terms like KN/KGS/LBS.

BETTER PERFORMANCE:

The elongation is normally measured in percentage, which entirely depends on the wear of the chain components and which is also determining the life of the chain. As per the standard value, normally it is stated that chain should be changed after 2% elongation is achieved, but it is very important to know as to when and in which time period this 2% elongation is achieved, because even after trying to give high figure of elongation in percentage 3 or 4 or 5 or 6, but this percentage is only numerical value, because the time period, in which this percentage is achieved is more important.

As per our concept, we would like to have this at 3%, but the time period taken in our chain is much longer as compared to even higher percentage given by any other manufacturers.

So, the most important factor is therefore, as to how long before a chain reaches its life span of 3% elongation. So, our basic consideration of design is not only tensile strength, but wear resistance as well.

Due to KOBO's consistent R&D and due to OEM co-operation and feed back, Rolcon has achieved the new development in the Palm Oil Mill Chain with superior heat-treatment such as induction hardening of components, which is the best and accurate process of heat-treatment, which Rolcon is implementing. This will achieve longer wear life of the chain.

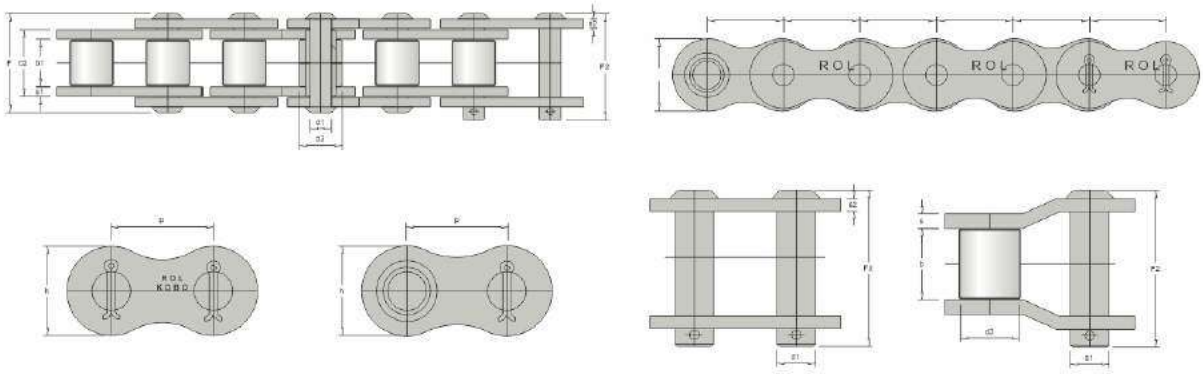
Rolcon's innovation in Palm Oil Mill Chain after years of experience is to use Sintered/Igus/Carbon bushes fitted into the roller to ensure longer life due to low friction coefficients and higher bearing pressure of the bushes.

Rolcon's other important aspect is to ensure higher fatigue life of the chain and components, for which the same subjected to shot-penning process.

Rolcon is also using higher roller dia., which imparts smoother roller rotation.

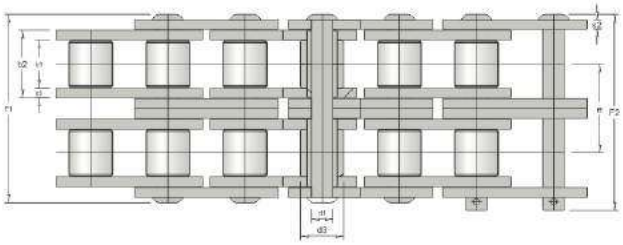
Pre-loading of the chain ensures firm sits of the chain components and hence, establishes the accurate chain length and prevent the initial elongation of the chain during the running in period of the chain. As assembled chain is pre-loaded to 1/3rd of the the ultimate strength, which also ensures no chain component will fail under the working condition, as working load is normally 1/7th or less (As per DIN 8195) of the ultimate strength, which would mean that you have factor of safety of 7/3 before the chain leaves the factory.

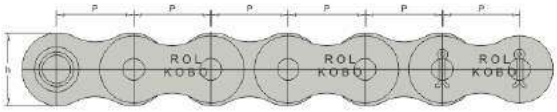
Simplex Roller Chain DIN 8187 / BS 228 / IS 2403 / IS 0606

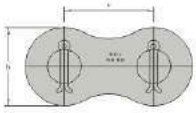


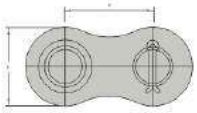
DIN Nr.	P mm	b_1 mm min.	d_1 mm h_9	d_2 mm max.	F_2 mm max.	h mm max.	s_1 mm	s_2 mm	FB N min.	q kg/m
08B-1	12.7	7.75	4.45	8.51	20.9	11.8	1.60	1.60	18000	0.70
10B-1	15.876	9.66	5.08	10.16	23.7	14.7	1.60	1.60	22400	0.95
12B-1	19.05	11.68	5.72	12.06	27.3	16.1	1.80	1.80	29000	1.23
16B-1	25.4	17.02	8.28	15.88	41.5	21.0	4.00	3.00	60000	2.70
20B-1	31.75	19.56	10.19	19.05	49.3	26.4	4.50	3.50	95000	3.60
24B-1	38.1	25.40	14.63	25.40	60.0	33.4	5.50	5.00	160000	6.70
28B-1	44.45	30.99	15.90	27.94	72.5	37.0	7.00	6.00	200000	8.30
32B-1	50.8	30.99	17.81	29.21	75.3	42.2	7.00	6.00	250000	10.5
40B-1	63.5	38.10	22.89	39.37	98.6	52.9	8.00	8.00	355000	16.0
48B-2	76.2	45.72	29.24	48.26	109.1	63.8	12.0	10.0	560000	25.0
56B-1	88.9	53.34	34.32	53.98	125	77.8	13.0	12.0	850000	35.0
64B-1	101.6	60.96	39.40	63.50	143	90.1	14.0	13.0	1120000	60.0
72B-1	114.3	68.50	44.50	72.39	161	103.6	17.0	15.0	1400000	80.0

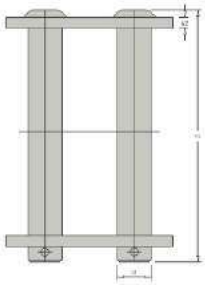
Duplex BSS DIN 8187

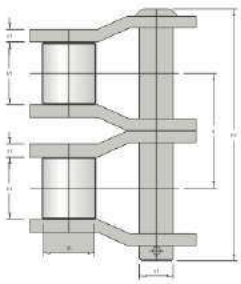






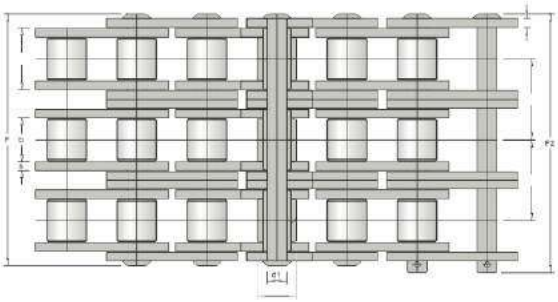


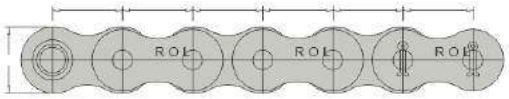


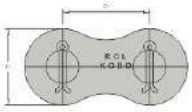


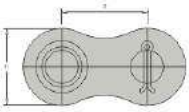
DIN Nr.	P mm	b_1 mm min.	d_1 mm h_3	d_3 mm max.	F_2 mm max.	h mm max.	s_1 mm	s_2 mm	e mm	FB N min.	q kg/m
08B-2	12.7	7.75	4.45	8.51	34.9	11.8	1.60	1.60	13.92	32000	1.35
10B-2	15.875	9.65	5.08	10.16	40.3	14.7	1.60	1.60	16.59	44500	1.85
12B-2	19.05	11.68	5.72	12.06	46.8	16.1	1.80	1.80	19.46	57800	2.50
16B-2	25.4	17.02	8.28	15.88	73.4	21.0	4.00	3.00	31.88	106000	5.40
20B-2	31.75	19.56	10.19	19.05	85.1	26.4	4.50	3.50	36.45	170000	7.20
24B-2	38.1	25.40	14.63	25.40	107.6	33.4	5.50	5.00	48.36	280000	13.5
28B-2	44.45	30.99	15.90	27.94	131.4	37.0	7.00	6.00	59.56	360000	16.6
32B-2	50.8	30.99	17.81	29.21	133.9	42.2	7.00	6.00	58.55	450000	21.0
40B-2	63.5	38.10	22.89	39.37	164	52.9	8.00	8.00	72.29	630000	32.0
48B-2	76.2	45.72	29.24	48.26	200	63.8	12.0	10.0	91.21	1000000	50.0
56B-2	88.9	53.34	34.32	53.98	232	77.8	13.0	12.0	106.60	1600000	70.0
64B-2	101.6	60.96	39.40	63.0	260	90.1	14.0	13.0	119.89	2000000	120
72B-2	114.3	68.58	44.50	72.39	297	103.6	17.0	15.0	136.27	2500000	160

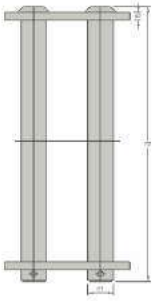
Triplex BSS DIN 8187

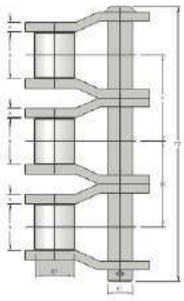






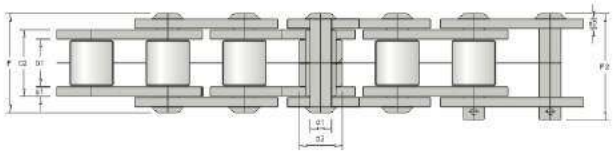


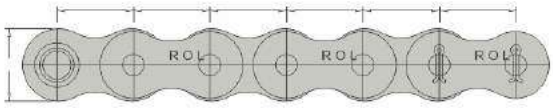


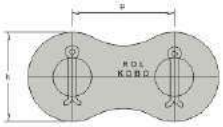


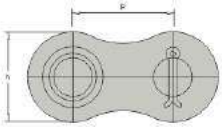
DIN Nr.	P mm	b_1 mm min.	d_1 mm h_3	d_3 mm max.	F_2 mm max.	h mm max.	s_1 mm	s_2 mm	e mm	FB N min.	q kg/m
08B-3	12.7	7.75	4.45	8.51	48.8	11.8	1.60	1.60	13.92	47500	2.0
10B-3	15.875	9.65	5.08	10.16	56.9	14.7	1.60	1.60	16.59	66700	2.8
12B-3	19.05	11.68	5.72	12.06	66.3	16.1	1.80	1.80	19.46	86700	3.8
16B-3	24.4	17.02	8.28	15.88	105.3	21.0	4.00	3.00	31.88	160000	8.0
20B-3	31.75	19.56	10.19	19.05	122.1	26.4	4.50	3.50	36.45	250000	11
24B-3	38.1	25.40	14.63	25.40	156.6	33.4	5.50	5.00	48.36	425000	21
28B-3	44.45	30.99	15.90	27.94	191.4	37.0	7.00	6.00	59.56	530000	25
32B-3	50.8	30.99	17.81	29.21	191.9	42.2	7.00	6.00	58.55	670000	32
40B-3	63.5	38.10	22.89	39.37	237	52.9	8.00	8.00	72.29	950000	48
48B-3	76.2	45.72	29.24	48.26	291	63.8	12.0	10.0	91.21	1500000	75
56B-3	88.9	53.34	34.32	53.98	341	77.8	13.0	12.0	106.60	2240000	105
64B-3	101.6	60.96	39.40	63.50	383	90.1	14.0	13.0	119.89	3000000	180
72B-3	114.3	68.58	44.50	72.39	434	103.6	17.0	15.0	136.27	3750000	240

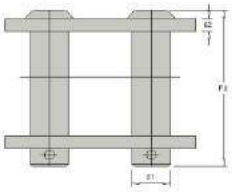
Simplex Roller Chains
DIN 8188 / AIME 1339 / IS 0606

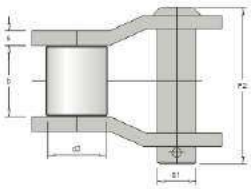






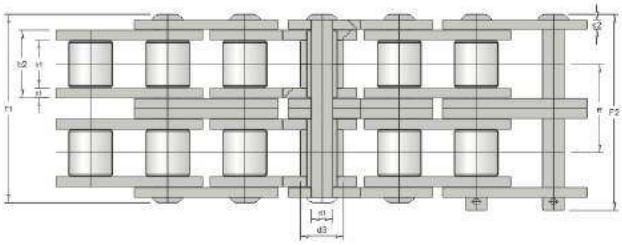


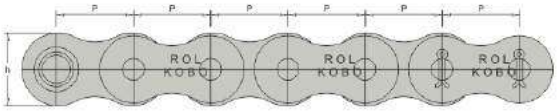


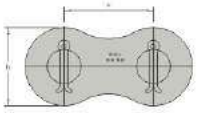


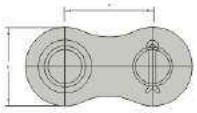
DIN Nr.	Art. Nr Part No. No. d'Art.	P mm	b_1 mm min.	d, mm h_3	d_2 mm max.	F_2 mm max.	h mm max.	S_1/S_2 mm	FB N min.	q kg/m
08A-1	111 040 10	12.7	7.85	3.96	7.95	21.7	12.0	1.6	14100	0.6
10A-1	111 050 10	15.875	9.40	5.08	10.16	25.9	15.0	2.0	22200	1.0
12A-1	111 060 10	19.05	12.57	5.94	11.91	31.5	18.0	2.4	31800	1.5
16A-1	111 080 10	25.4	15.76	7.92	15.38	38.9	24.1	3.2	56700	2.6
20A-1	111 100 10	31.75	18.90	9.53	19.06	47.2	30.1	4.2	88500	3.7
24A-1	111 120 10	38.1	25.22	11.10	22.23	57.4	36.2	5.0	127000	6.5
28A-1	111 140 10	44.45	25.22	12.70	25.40	62.3	42.2	5.6	172400	7.5
32A-1	111 160 10	50.8	31.56	14.27	28.56	73.4	48.2	6.3	226800	9.7
40A-1	111 200 10	63.5	37.85	19.84	39.68	90.3	60.3	8.0	363800	15.3
48A-1	111 240 10	76.2	47.35	23.80	47.63	105.5	72.3	10	510300	22.3

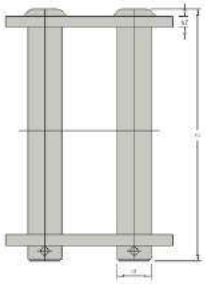
Duplex Roller Chains DIN-8188

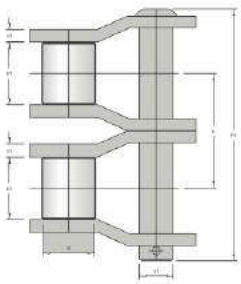






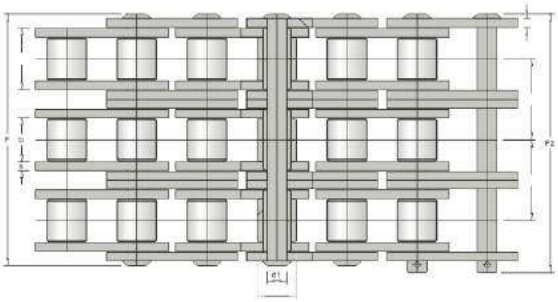


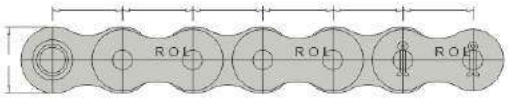


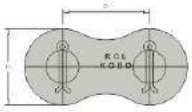


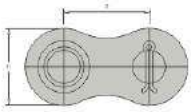
DIN Nr.	Art. Nr Part No. No. d'Art.	P mm	b_1 mm min.	d_1 mm h_9	d_3 mm max.	F_2 mm max.	h mm max.	s_1/s_2 mm	e mm	FB N min.	q kg/m
08A-2	111 040 20	12.7	7.85	3.96	7.95	36.2	12.0	1.6	14.38	28200	1.2
10A-2	111 050 20	15.875	9.40	5.08	10.16	44.0	15.0	2.0	18.11	44400	1.9
12A-2	111 060 20	19.05	12.57	5.94	11.91	54.4	18.0	2.4	22.78	63600	2.9
16A-2	111 080 20	25.4	15.75	7.92	15.88	68.1	24.1	3.2	29.29	113400	5.0
20A-2	111 100 20	31.75	18.90	9.53	19.05	83.1	30.1	4.2	35.76	177000	7.3
24A-2	111 120 20	38.1	25.22	11.10	22.23	102.9	36.2	5.0	45.44	254000	10.9
28A-2	111 140 20	44.45	25.22	12.70	25.40	110.4	42.2	5.5	48.87	344800	14.4
32A-2	111 160 20	50.8	31.55	14.27	28.58	131.9	48.2	6.3	58.55	453600	19.1
40A-2	111 200 20	63.5	37.85	19.84	39.68	161.0	60.3	8.0	71.55	707600	32.0
48A-2	111 240 20	76.2	47.35	23.80	47.63	193.0	72.3	10	87.83	1020600	44.0

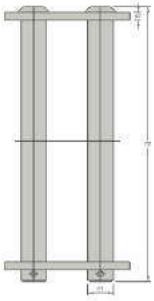
Triplex Roller Chains ASA
DIN -8188

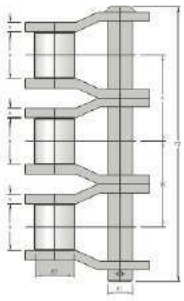










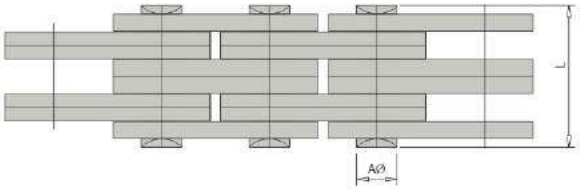


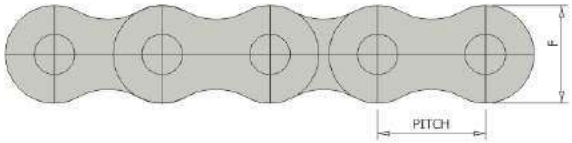
DIN Nr.	P mm	b_1 mm min.	d_1 mm h_3	d_2 mm max.	F_2 mm max.	h mm max.	s_1/s_2 mm	e mm	FB N min.	q kg/m
08A-3	12.7	7.85	3.96	7.95	50.6	12.0	1.6	14.38	42300	1.8
10A-3	15.875	9.40	5.08	10.16	62.0	15.0	2.0	18.11	66600	2.9
12A-3	19.05	12.57	5.94	11.91	77.2	18.0	2.4	22.78	95400	4.3
16A-3	25.4	15.75	7.92	15.88	97.1	24.1	3.2	29.29	170100	7.5
20A-3	31.75	18.90	9.53	19.05	119.1	30.1	4.2	35.76	265500	11.0
24A-3	38.1	25.22	11.10	22.23	147.6	36.2	5.0	45.44	381000	16.5
28A-3	44.45	25.22	12.70	25.40	159.4	42.2	5.5	48.87	517200	21.7
32A-3	50.8	31.55	14.27	28.58	189.9	48.2	6.3	58.55	680400	28.3
40A-3	63.5	37.86	19.84	39.68	233.0	60.3	8.0	71.55	1061400	48.0
48A-3	76.2	47.35	23.80	47.63	281.0	72.3	10	87.83	1530900	68.0

HEAVY SERIES ROLLER CHAINS
AMERICAN STANDARD

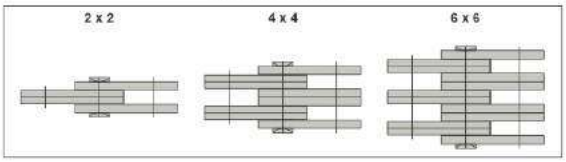
P Pitch mm.	P Pitch inch	ISO/DIN ASA/IS No.	No. of Strand	b1 Inside Width (Minimum) mm.	d1 Roller o (Maximum) mm.	F Outside Width (Maximum) mm.	Min. breaking Load kgs.	Weight per meter kgs.
		60H	01			35.80	3,244	1.87
19.05	3/4"	60H-2	02	12.58	11.91	60.70	6,487	3.71
		60H-3	03			86.80	9,731	5.54
		80H	01			43.40	5,783	3.18
25.4	1"	80H-2	02	15.75	15.87	75.90	11,567	6.29
		80H-3	03			108.70	17,350	9.40
		100H	01			51.50	9,027	4.38
31.75	1 1/4"	100H-2	02	18.90	19.05	90.10	18,054	8.67
		100H-3	03			129.50	27,081	12.96
		120H	01			61.70	12,954	6.61
38.1	1 1/2"	120H-2	02	25.23	22.22	110.40	25,908	13.13
		120H-3	03			159.00	38,862	19.64
		140H	01			67.80	17,585	8.33
44.45	1 3/4"	140H-2	02	25.23	25.40	119.60	35,170	16.52
		140H-3	03			171.70	52,754	24.73
		160H	01			77.90	23,134	10.88
50.8	2"	160H-2	02	31.55	28.57	139.90	46,267	21.32
		160H-3	03			201.60	69,401	31.77
		200H	01			103.30	36,088	20.65
63.5	2 1/2"	200H-2	02	37.85	39.67	180.80	72,175	39.26
		200H-3	03			262.80	1,08,263	60.79
		240H	01			122.0	52,051	28.25
76.2	3"	240H-2	02	47.63	47.63	222.6	1,04,101	55.00
		240H-3	03			322.1	1,56,152	82.50

Leaf Chains - AL Series

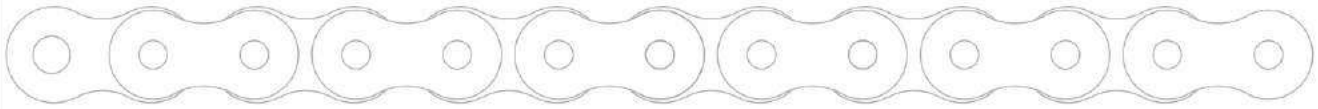




LAYOUT OF LACING



Chain No.	Pitch	Lacing	Min. Tensile Strength	Pin Dia	Pin Overall Length	Link Plate Thickness	Link Plate Height	Approx. Weight
	P		kN (kgf) 16.7 (1700)	D	L	T	H	kg/m
AL-622	19.05	2 x 2	38.2 (3.900)	5.94	12.65	2.40	15.60	0.87
AL-644	19.05	4 x 4	76.5 (7.800)	5..94	22.55	2.40	15.60	1.71
AL-666	19.05	6 x 6	115 (11.700)	5.94	32.45	2.40	15.60	2.54
AL-822	25.40	2 x 2	64.7 (6.600)	7.90	16.35	3.20	20.80	1.51
AL-844	25.40	4 x 4	129 (13.200)	7.90	29.80	3.20	20.80	2.96
AL-866	25.40	6 x 6	194 (19.800)	7.90	43.20	3.20	20.80	4.44
AL-1022	31.75	2 x 2	98.1 (10.000)	9.48	20.05	4.00	26.00	2.69
AL-1044	31.75	4 x 4	196 (20.000)	9.48	36.70	4.00	26.00	5.31
AL-1066	31.75	6 x 6	294 (30.000)	9.48	53.30	4.00	26.00	7.93
AL-1222	38.10	2 x 2	141 (14.400)	11.04	24.20	4.80	31.20	3.57
AL-1244	38.10	4 x 4	282 (28.800)	11.04	44.00	4.80	31.20	7.07
AL-1266	38.10	6 x 6	424 (43.200)	11.04	63.85	4.80	31.20	10.56
AL-1444	44.45	4 x 4	373 (38.000)	12.64	51.30	5.60	36.40	10.34
AL-1466	44.45	6 x 6	559 (57.700)	12.64	74.55	5.60	36.40	15.16
AL-1644	50.80	4 x 4	471 (48.000)	14.21	58.05	6.40	41.60	12.98
AL-1666	50.80	6 x 6	706 (72.000)	14.21	84.45	6.40	41.60	19.41



Leaf Chains - BL Series

Chain No.	Pitch	Lacing	Min. Tensile Strength	Pin Dia	Pin Overall Length	Link Plate Thickness	Link Plate Height	Approx. Weight
	P		kN (kgf) 16.7 (1700)	D	L	T	H	kg/m
BL-622	19.05	2 x 2	63.7 (6.500)	7.90	16.38	3.20	18.10	1.68
BL-623	19.05	2 x 3	63.7 (6500)	7.90	19.75	3.20	18.10	2.04
BL-634	19.05	3 x 4	95.6 (9.750)	7.90	26.45	3.20	18.10	2.83
BL-644	19.05	4 x 4	127 (13.000)	7.90	29.80	3.20	18.10	3.18
BL-646	19.05	4 x 6	127 (13.000)	7.90	36.50	3.20	18.10	4.01
BL-666	19.05	6 x 6	191 (19.500)	7.90	43.20	3.20	18.10	4.73
BL-822	25.40	2 x 2	103 (10.500)	9.48	20.17	4.00	24.10	2.59
BL-823	25.40	2 x 3	103 (10.500)	9.48	24.20	4.00	24.10	3.20
BL-834	25.40	3 x 4	155 (15.800)	9.48	32.55	4.00	24.10	4.44
BL-844	25.40	4 x 4	190 (19.400)	9.48	36.90	4.00	24.10	5.04
BL-846	25.40	4 x 6	206 (21.000)	9.48	45.00	4.00	24.10	6.32
BL-866	25.40	6 x 6	286 (29.200)	9.48	53.30	4.00	24.10	7.54
BL-1022	31.75	2 x 2	141 (14.400)	11.04	23.98	4.80	30.10	3.76
BL-1023	31.75	2 x 3	141 (14.400)	11.04	28.90	4.80	30.10	4.69
BL-1034	31.75	3 x 4	216 (22.000)	11.04	38.85	4.80	30.10	6.55
BL-1044	31.75	4 x 4	282 (28.800)	11.04	43.39	4.80	30.10	7.48
BL-1046	31.75	4 x 6	282 (28.800)	11.04	53.70	4.80	30.10	9.29
BL-1066	31.75	6 x 6	424 (43.200)	11.04	63.85	4.80	30.10	11.16
BL-1222	38.10	2 x 2	186 (19.000)	12.64	28.04	5.60	36.20	4.83
BL-1223	38.10	2 x 3	186 (19.000)	12.64	33.90	5.60	36.20	6.54
BL-1234	38.10	3 x 4	299 (30.500)	12.64	45.50	5.60	36.20	9.10
BL-1244	38.10	4 x 4	373 (38.000)	12.64	51.30	5.60	36.20	10.39
BL-1246	38.10	4 x 6	373 (38.000)	12.64	62.95	5.60	36.20	12.01
BL-1266	38.10	6 x 6	559 (57.000)	12.64	74.57	5.60	36.20	14.58
BL-1422	44.45	2 x 2	235 (24.000)	14.21	31.62	6.40	42.20	7.31
BL-1423	44.45	2 x 3	235 (24.000)	14.21	38.20	6.40	42.20	9.06
BL-1434	44.45	3 x 4	387 (39.500)	14.21	51.40	6.40	42.20	11.32
BL-1444	44.45	4 x 4	471 (48.000)	14.21	58.05	6.40	42.20	12.96
BL-1446	44.45	4 x 6	471 (48.000)	14.21	71.25	6.40	42.20	18.00
BL-1466	44.45	6 x 6	706 (72.000)	14.21	84.46	6.40	42.20	22.51
BL-1622	50.80	2 x 2	353 (36.000)	17.38	35.59	7.20	48.20	9.84
BL-1623	50.80	2 x 3	353 (36.000)	17.38	43.25	7.20	48.20	12.16
BL-1634	50.80	3 x 4	554 (56.500)	17.38	58.40	7.20	48.20	16.95
BL-1644	50.80	4 x 4	706 (72.000)	17.38	65.86	7.20	48.20	18.97
BL-1646	50.80	4 x 6	706 (72.000)	17.38	81.05	7.20	48.20	24.09
BL-1666	50.80	6 x 6	1060 (108.100)	17.38	96.15	7.20	48.20	28.73
BL-1688	50.80	8 x 8	1156 (118.000)	17.38	122.8	7.20	48.20	36.00
BL-2022	63.50	2 x 2	530 (54.000)	23.73	47.94	9.50	60.30	14.43
BL-2023	63.50	2 x 3	531 (54.100)	23.73	57.90	9.50	60.30	17.95
BL-2034	63.50	3 x 4	795 (81.100)	23.73	77.82	9.50	60.30	24.95
BL-2044	63.50	4 x 4	1062 (108.200)	23.73	87.78	9.50	60.30	28.45
BL-2046	63.50	4 x 6	1062 (103.200)	23.73	107.70	9.50	60.30	35.44
BL-2066	63.50	6 x 6	1592 (152.300)	23.73	127.62	9.50	60.30	42.01

Rolcon's modern Chain and Sprocket, manufacturing plants were established in1967 in technical and financial collaboration with Messrs 'KÖBO' Germany, markers of world famous 'KÖBO' chains, having more than 105 years of experience in the field.

Rolcon being ISO 9001: 2008 certified is the largest manufacturer of Chains and Sprockets in the country. It's plant is equipped with most modern CNC machines. Special purpose machinery. New range of heat treatment machinery, and Latest testing facilities.

Rolcon's complete manufacturing range consists of Precision Industrial Transmission Chains conforming to the international standards like IAO 606/DIN 8187/DIN 8188/BS 228/ASME B29. It also manufactures, and exports Conveyor, Elevator, and Special Purpose Chains, and all suitable Sprockets for the above stated Chains.

Rolcon's Chains & Sprockets are mainly utilised in the following industries.

• Cement • Fertilizer • Steel • Sugar • Chemical • Mining • Paper Plants • Plam Oil • Food & many more industries.

Rolcon's strong network of distributors as well as sales outlets throughout India helps its esteemed customers for better communication, quick delivers, and prompt after sales service.

Rolcon's Chains are well known for its * Highest breaking load, * Excellent wear life, and * Increased fatigue strength./ All the above have been achieved by selecting appropriate material, precise heat treatment, rigid quality control and constant
R & D efforts done indigenously as well as from its west German collaborators.

A special marketing team of Rolcon guides, and recommends its esteemed clients for total solution for their specific requirements, and problems of chain and sprocket drives including design.

Backed by 47 years of experience in its field Rolcon has also gained lots of practical experience from its customers who are using Rolcon's chain and sprockets. This experience is continuously fed back to Rolcons production department, which accounts for high quality standard for its products. A team of engineers and technical experts are continuously doing R&D and incorporating latest technical advances to improve the quality of chain and sprockets.

ROL-KÖBO

ROLCON
ENGINEERING CO. LTD.
(ISO 9001 : 2008 Company)

P. B. NO. : 20,
Vitthal Udyognagar - 388 121.
Via Anand, Gujarat, India.
Phone : (02692) 230766, 230866, 236582.
Fax : (02692) 236453, 236480
E-mail : rolcon@rolconengineering.com
Web site : www.rolconengineering.com