

#### Research & Development

On the contrary to the belief that tensile strength is the only parameter deciding the quality and wear life of the chain. wear resistance also prolongs the life of the chain during operation. Understanding the wear resistance is more complex. as it does not have any measuring terms like KN/KGS/LBS.

#### **BETTER PERFORMANCE:**

The elongation measured in percentages depends on the wearing of the chain components. Thus, determining the life of the chain. The norm states that the chain shall be changed be replaced after 2% elongation happens. Thus it becomes an important aspect to know when and at what time this 2% elongation will happen. Even if the assumption of elongation ranges in a high percentage from 3 to 6, it's an indication only of a numeric value, but the time in which it happens also becomes an important consideration.

As per our experience, we would like elongation to be at 3%, but the time taken in our chain is much longer as compared to an 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.

We believe that design is not the only consideration of tensile strength, and factors related to wear resistance are also important. Due to KOBO's consistent R&D. OEM co-operation, and feedback, it has achieved new development in the Cement chain industry. Its superior heat treatment like induction hardening of components is best in business and ensures an accurate process of heat treatment.

This will achieve a longer wear life of the chain. Rolcon's innovation in the Cement chain industry after years of experience is suitable for toughest working cording Rolcon's other important aspect is to ensure higher fatigue life of the chain and components. for which the same subject to shot-penning process.

Rolcon uses a higher roller dia. which imparts smoother roller rotation. Pre-loading of the chain ensures firm sits of the chain components. Hence, it establishes a precise chain length and prevents the initial elongation of the chain during the running-in period of the chain.

An assembled chain is pre-loaded to 1/3rd of the ultimate strength. which ensures no chain component will fail under the working condition. as the working load is normally 1/7th or less. (As per DIN 8195) of the ultimate strength. which would mean that you have the factor of safety of 7/3 before the chain leaves the factory.

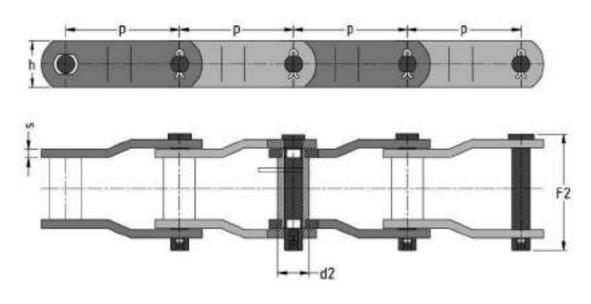
Our experienced technical engineer can provide hands-on solutions with matter & design can deliver high performance and increase relays strength of the chain. We are state-of-the-art sprocket manufacturer facilities that ensure proper fitment with the chain.

A new sprocket with a new chain must obtain maximum life from the Rolcon chain. On the contrary to the belief that tensile strength is the only parameter deciding the quality and wear life of the chain. wear resistance also prolongs the life of the chain during operation. Understanding the wear resistance is more complex. as it does not have any measuring terms like KN/KGS/LBS.



### CRANK LINK



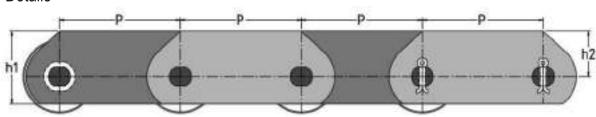


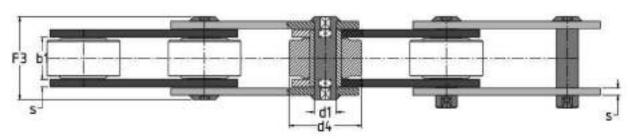
P mm	F₂ mm	H mm	S mm	F <sub>B</sub> (MIN.) KP
59.5	62	30	5	5600
63.0	63	30	5	6500
65.5	72	30	6	7800
85.0	70	40	5	8700
87.0	88	45	6	9000
100.0	65	35	5	7300
100.0	68	35	6	9800
100.0	82	40	6	12700
134.5	68	35	5	7500
135.0	80	35	8	12600
136.5	80	50	8	15000
150.0	96	50	8	15500



#### DEEP LINK CONVEYOR CHAIN







P <sub>1</sub> mm	b <sub>1</sub> mm min.	b <sub>2</sub> mm min.	d₁ mm	d <sub>2</sub> mm O	d₃ mm A	d₄ mm B	d41/d5 mm D	d <sub>6</sub> mm min.	e <sub>1</sub> mm	F <sub>1</sub> mm	F <sub>2</sub> mm	F <sub>3</sub> mm	h mm	s mm	h <sub>1</sub> mm	h <sub>2</sub> mm	f cm²	kgs. min.
40	18	24.5	10	15	20	32	-	-	4.0	36.0	-	43.0	26	3	35	22.0	2.50	4200
50							-											
63							40/48											
80																		
100																		
63	22	30.5	12	18	26	40	-	8	5.0	44.0	44.0	54.0	30	4	40	25.0	3.72	6400
80							50/60											
100																		
125																		
160																		
63	25	35.5	14	20	30	48	-	10	6.5	52.0	51.2	61.0	35	5	45	27.5	5.04	10000
100							63/73											
125																		
160																		
200																		
250																		
100	30	42.5	16	22	32	55		11	7.5	61.0	60.2	70.0	40	6	50	30.0	6.88	12000
125							72/85											
160																		
200																		
250	0.5	47.5	40					40	0.0	00.0	05.0	70.0	45			27.5	0.04	4.4500
100	35	47.5	18	26	36	60	- 00/05	12	9.0	66.0	65.3	79.0	45	6	60	37.5	8.64	14500
125							80/95											
160																		
200																		
250	45	G1 F	20	30	42	70		1.1	13	85.5	84.8	99.0	50	8	70	45.0	12.60	19000
125 160	40	61.5	20	30	42	70	100/120	14	13	00.0	04.0	99.0	50	0	70	45.0	12.00	19000
200							100/120											
250																		
315																		
313																		

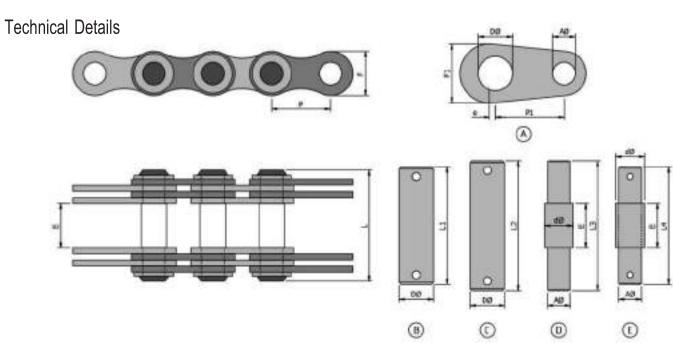


P <sub>1</sub> mm	b <sub>1</sub> mm min.	b <sub>2</sub> mm min.	d₁ mm	d <sub>2</sub> mm O	d₃ mm A	d₄ mm B	d41/d5 mm D	d <sub>6</sub> mm min.	e <sub>1</sub> mm	F <sub>1</sub> mm	F <sub>2</sub> mm	F <sub>3</sub> mm	h mm	s mm	h <sub>1</sub> mm	h <sub>2</sub> mm	f cm²	kgs. min.
405			00						15	97.5	95.3	113	60	8	80	50.0	18.98	27500
125 160	55	72	26	36	50	80	125/145	18	15	97.5	95.3	113	60	0	80	50.0	10.90	27500
200							125/145											
250																		
315																		
160¤	65	86	30	42	60	90		20	18	117	113.3	130	70	10	90	55	26.10	37000
200¤	- 00	- 00	- 00	72	- 00	- 30	140/170	20	- 10		110.0	100	10	- 10	- 00	- 00	20.10	01000
250¤							110/110											
315¤																		
400¤																		
160¤	70	96	32	44	60	100	-	22	20	130	127.3	148	70	12	90	55	30.72	41000
200¤							150/185*											
250¤																		
315¤																		
400¤																		
160¤	80	106	36	50	70	110	-	26	21	140	138.3	160	80	12	100	60	38.16	54000
200¤							160/195*											
250¤																		
315¤																		
400¤	00	446	40		00	400		00		450	4.40.0	400	400	40	400	70	40.70	00000
200¤	90	116	42	56	80	120	-	30	22	152	149.3	196	100	12	120	70	48.72	63000
250¤							170/210*											
315¤																		
400¤																		
500¤																		



## DIN 8150 - STUD CHAIN (GALL CHAIN)



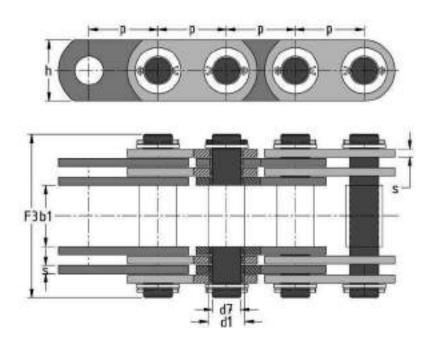


PITCH mm	P1	E	dΦ	ΑФ	DΦ	L4	F	F1	L2	L1	BREAKING LOAD(KGS)
30	40	20	11	9	14	43	80	20	30.0	48	3 825
30	40	20	11	9	14	51	88	20	30.0	60	4 080
35	45	22	12	10	16	53	93	26	35.0	62	6 120
40	50	25	14	12	18	58	102	30	40.0	70	8 160
45	55	30	17	14	22	63	108	35	45.0	75	10 200
50	60	35	22	18	26	90	141	38	50.0	108	15 300
55	65	40	24	21	32	108	163	40	55.0	132	20 400
60	70	45	26	23	36	114	171	45	60.0	139	25 500
70	85	50	32	28	40	148	213	55	70.0	169	38 250
80	100	60	36	32	50	159	233	60	85.0	189	51 000
90	120	70	40	36	60	184	266	70	100.0	214	76 500
100	140	80	45	40	70	224	309	80	120.0	256	1 02 000
110	160	90	50	45	80	236	327	90	140.0	279	1 27 500
120	180	100	55	50	90	262	357	100	160.0	306	1 53 000



## DIN 8156 - DRAW BENCH



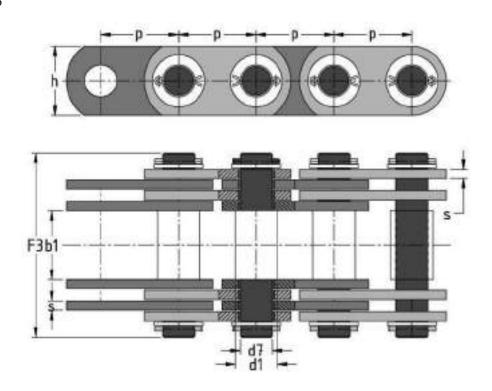


P mm	b1 mm min.	d1 mm	d7 mm	F3 mm max.	h mm max.	s mm
70	45	28	25	143	60	8
90	60	36	32	183	70	10
110	70	45	40	211	90	12
120	80	50	45	248	90	15
160	100	60	55	320	110	20
180	120	80	70	385	140	25
240	140	90	80	456	180	30
280	160	110	100	481	220	30



### DIN 8157 - DRAW BENCH



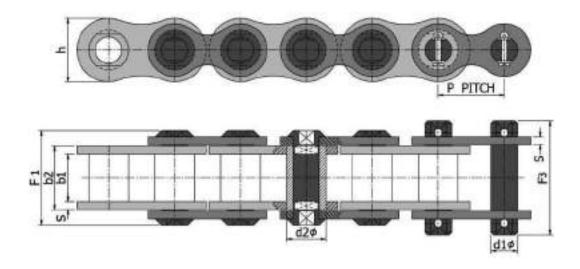


P mm	b1 mm min.	d1 mm	F3 mm max.	h mm max.	s mm	FB Kgs.
70	45	28	143	60	8	3800
90	60	36	183	70	10	6000
110	70	45	211	90	12	9600
120	80	50	248	90	15	12000
160	100	60	320	110	20	19000
180	120	80	385	140	25	30000
240	140	90	456	180	30	48000
280	160	110	481	220	30	60000



#### DIN 8164 - BUSH CHAIN



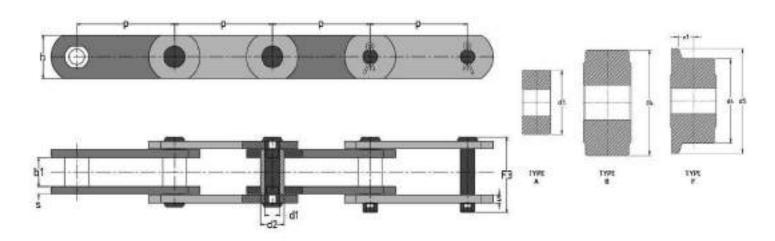


P mm	b <sub>1</sub> mm min.	d <sub>1</sub> mm max.	F₃ mm	h mm max.	s mm	FB kgs.
15	14	6	30.0	14	2	1250
20	16	8	38.2	19	3	2500
25	18	10	43.2	24	3	3150
30	20	11	50.2	28	4	4000
35	22	12	54.0	30	4	5000
40	25	14	61.0	35	5	6300
45	30	16	70.0	40	6	8000
50	35	18	79.0	44	6	10000
55	45	20	99.0	49	8	12500
60	50	22	104	55	8	16000
65	55	26	113	61	8	20000
70	65	30	130	67	10	25000
80	70	32	148	75	12	31500
90	80	36	160	85	12	40000
100	90	42	169	95	12	50000



### DIN 8167 - CONVEYOR CHAIN





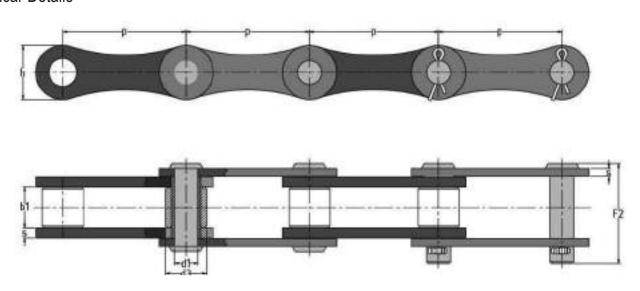


P mm	b <sub>1</sub> mm min.	b <sub>2</sub> mm min.	d₁ mm	d <sub>2</sub> mm O	d₃ mm A	d₄ mm B	d₄/d₅ mm D	e <sub>1</sub> mm	F₁ mm	F <sub>3</sub> mm	h mm	s mm	kgs. min.
40	16	22	6	9	12.5	25	25/30	4	31.2	36.2	18	2.5	2000
50 63													
80													
100 125													
160													
50 63	18	25	7	10	15	30	30/36	4.5	35.2	40.2	20	3	2800
80													
100 125													
160													
200 63	20	28	8.5	12.5	18	36	36/42	4.5	40.2	47.2	25	3.5	4000
80		20	0.0	12.0	10	- 00	00/12		10.2			0.0	
100 125													
160													
200 250													
63	24	33	10	15	21	42	42/50	6	47.2	56.2	30	4	5600
80													
100 125													
160													
200 250													
80	28	39	12	18	25	50	50/60	7	55.2	64.2	35	5	8000
100 125													
160													
200 250													
315													
80 100	32	45	15	21	30	60	60/70	7.5	64.2	75.2	40	6	11200
125													
160 200													
250													
315 400													
100	37	52	18	25	36	70	70/85	8.5	73.3	88.3	50	7	16000
125 160													
200													
250 315													
400¤													
500¤	40	60	04	20	40	0.F	05/400	10	06.0	00.2	60	0	22400
125 160	43	60	21	30	42	85	85/100	10	86.3	99.3	60	8	22400
200													
250 315													
400¤													
500¤ 630¤													
160	48	70	25	36	50	100	100/120	10.5	100.3	120.3	70	10	31500
200 250													
315													
400¤ 500¤													
630¤													
200¤ 250¤	56	82	30	42	60	120	120/140*	11.5	117.3	141.3	80	12	45000
315¤													
400¤ 500¤													
630¤													
800¤	66	96	26	EO	70	140	140/170*	115	126.2	150.2	100	14	62000
250¤ 315¤	00	30	36	50	70	140	140/170"	14.5	136.3	159.3	100	14	63000
400¤													
500¤ 630¤													
800¤													
1000¤ 250¤	78	112	44	60	85	170	170/210*	17	157.3	179.5	120	16	90000
315¤								.,	.07.0	., 0.0	120		55500
400¤													
500¤ 630¤ 800¤													



#### DIN 8189 - EXTENDED PITCH



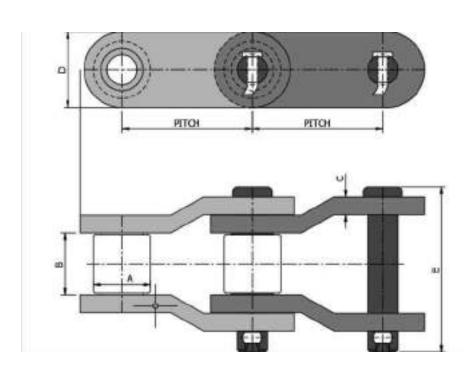


P mm	b1 mm	d2 mm	h mm	s mm	Breaking load(Kgs)
40	25	20	35.0	5	7200
45	30	22	38.0	6	10000
50	35	26	43.0	6	12500
55	45	30	48.7	8	16000
60	50	32	54.7	8	18000
65	55	36	61.0	8	20000
70	65	42	66.5	10	27000
80	70	44	75.0	12	31600
90	80	50	85.8	12	40000
100	90	56	95.5	12	50000



### **HEAVY DUTY**



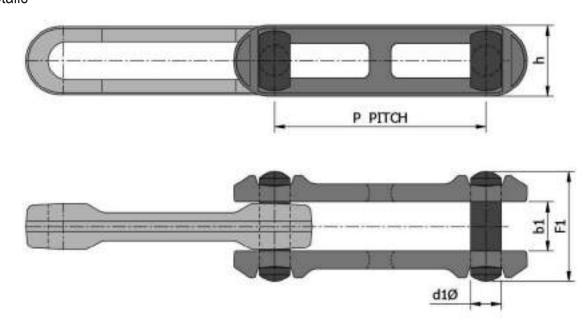


Pitch	Roller Dia. A	Inside Width B	Side Bar Thickness C	Height of Side Bar D	Overall Pin Length E	Breaking Load
5.00"	2-1/2"	2.5/16"	9/16"	3"	5-3/4"	2,20,000 lbs.
3.906"	2-1/4"	1-1/2"	9/16"	3-1/4"	4-3/4"	2.20.000 lbs.
4.50"	2-1/4"	2"	9/16"	3"	5-1/4"	2.20.000 lbs.
4.09"	2"	2"	9/16"	2-3/4"	5-1/6"	2.00.000 lbs.
4.073"	1-25/32"	1-15/16"	9/16"	2-3/8"	5-1/4"	1.70.000 lbs.
3.067"	1-5/8"	1-17/32"	3/8"	2-1/4"	3-13/16"	1.10.000 lbs.
3.075"	1-1/4"	1-1/2"	3/8"	1-3/4"	3-3/4"	75.000 lbs.
4.090"	1-7/8"	1-15/16"	9/16"	2-3/4"	5-1/16"	2.16.000 lbs.



### **RIVETLESS CHAIN**



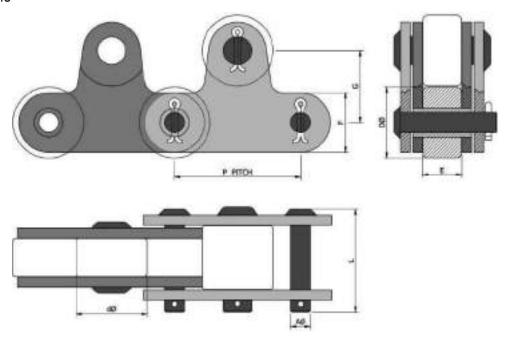


P mm	b1	d1	F1	h	Breaking Load (Kgs.)
65.00	15.0	10.00	35	30.0	8.700
76.20	21.0	12.70	45	28.0	15.700
100.00	25.0	16.00	60	36.0	21.900
101.60	25.0	16.00	60	36.0	21.900
152.40	34.0	23.00	79	51.0	38.500
153.18	40.5	28.57	96	65.9	45.454
153.18	33.0	22.22	80	50.8	27.272
229.38	51.6	34.92	124	77.8	1.00.000



### TOP ROLLER CHAIN



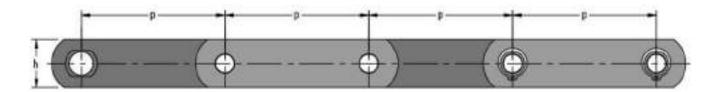


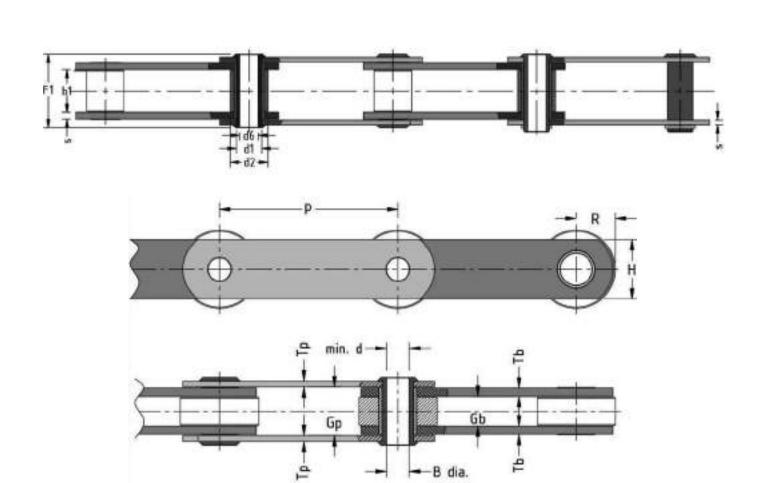
Pitch P	AØ	L	DØ	E	dØ	F	G	Breaking Load (kgs.)
50.8 mm	7.94	41.00	28.58	15.75	28.58	24.00	29.00	5670
63.5 mm	10.00	55.00	39.69	19.05	39.69	28.60	35.40	11000
38.1 mm	5.96	34.00	11.91	12.70	22.23	18.00	23.00	3180
152.4 mm	16.00	85.00	57.20	37.50	57.20	45.00	50.00	19000



#### HOLLOW BEARING PIN



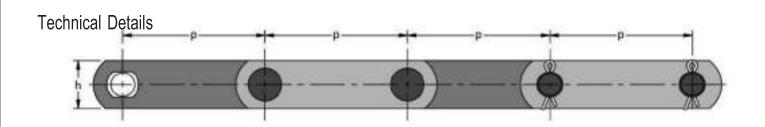


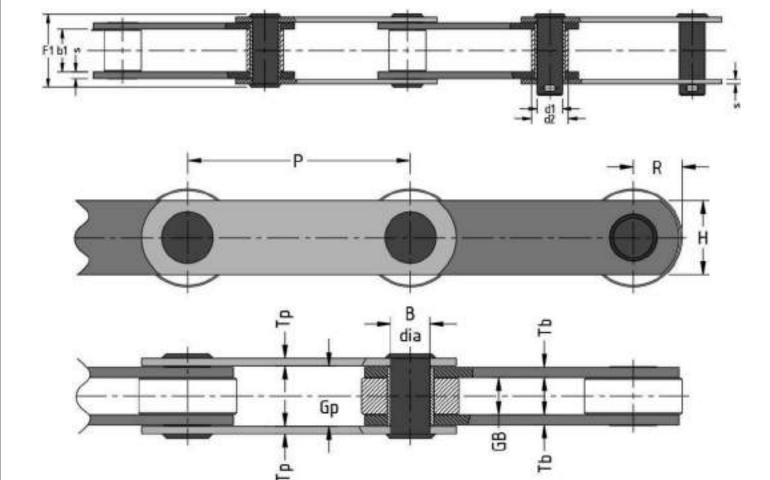




### SOLID BEARING PIN









#### **EXTENSIVELY USED BY**

- STEEL PLANTS
- CEMENT PLANTS
- ► FERTILIZER PLANTS
- ► SUGAR INDUSTRY
- ► CHEMICAL PLANTS
- ► MINING INDUSTRY
- TIMBER INDUSTRY
- ► AUTOMOBILE INDUSTRY



Simple Sprocket



Round Link Chain Sprocket



Reseller Chain Sprocket Rim



Sprocket For Bucket Elevator Chain



Drive Sprocket For Conveyor



Drive / Driven For Bucket Elevator



Teeth Bucket Elevator



Split Sprocket



Tail Sprocket





Drive Sprocket - Spited Rim for Forged Link



Drive Sprocket for Block Link



Drive Sprocket for Conveyor



Segmental Tooth Rim Split in to 5 Segments



Drive Sprocket for Roller Chain



Drive Sprocket for Forged Link



Sprocket for Special Purpose Chain Having Centre Shaft



Segmental Tooth Sprocket Rim





Rolcon's modern Chain and Sprocket manufacturing plants started in 1967 in technical and financial collaboration with Messrs. KOBO GmbH &Co. KG. Germany. markers of world-famous 'KOBO' chains. having vast experience in the field.

Rolcon certified (ISO 9001: 2015) is the largest manufacturer of Chains and Sprockets in the country. Its plant consists of the most modern CNC machines. Special purpose machinery. a new range of heat treatment machinery, and the latest testing facilities.

Rolcon's complete manufacturing range consists of Precision Industrial Transmission Chains conforming to international standards like IA0 606/DIN 8187/DIN 8188/BS 228/ASME B29. It also manufactures and exports Conveyor. Elevator. Special Purpose Chains. and all suitable Sprockets for the above-stated Chains.

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

• Cement • Fertilizer • Steel • Sugar • Chemical • Mining • Paper Plants • Palm 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 their \* Highest breaking load. \* Excellent wear life. and \* Increased fatigue strength.

We select appropriate material. precise heat treatment. rigid quality control. and constant R & D e orts from the indigenous and west German collaborators.

A special marketing team of Rolcon guides, and recommends its esteemed clients for the total solution for their specific requirements, and problems of chain and sprocket drives including design. Backed by vast experience in its field since 1967. Rolcon has also gained lots of practical experience from its customers. Their experience is continuous feedback to Rolcon's production department, which accounts for a high-quality standard for its products. A team of engineers and technical experts are continuously doing R&D and incorporating the latest technological advances to improve the quality of chains and sprockets.



Vallabh Vidhyanagar - 388 120. Via Anand. Gujarat. India.

Phone: (02692) 230766. 230866. 236582.

E-mail: rolcon@rolconengineering.com Web site: www.rolconengineering.com