

ROL-KÖBO

Chains and Sprockets for **Sugar Mills** (Cane & Beet)



We help the world move



ROLCON
ENGINEERING CO. LTD.



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.

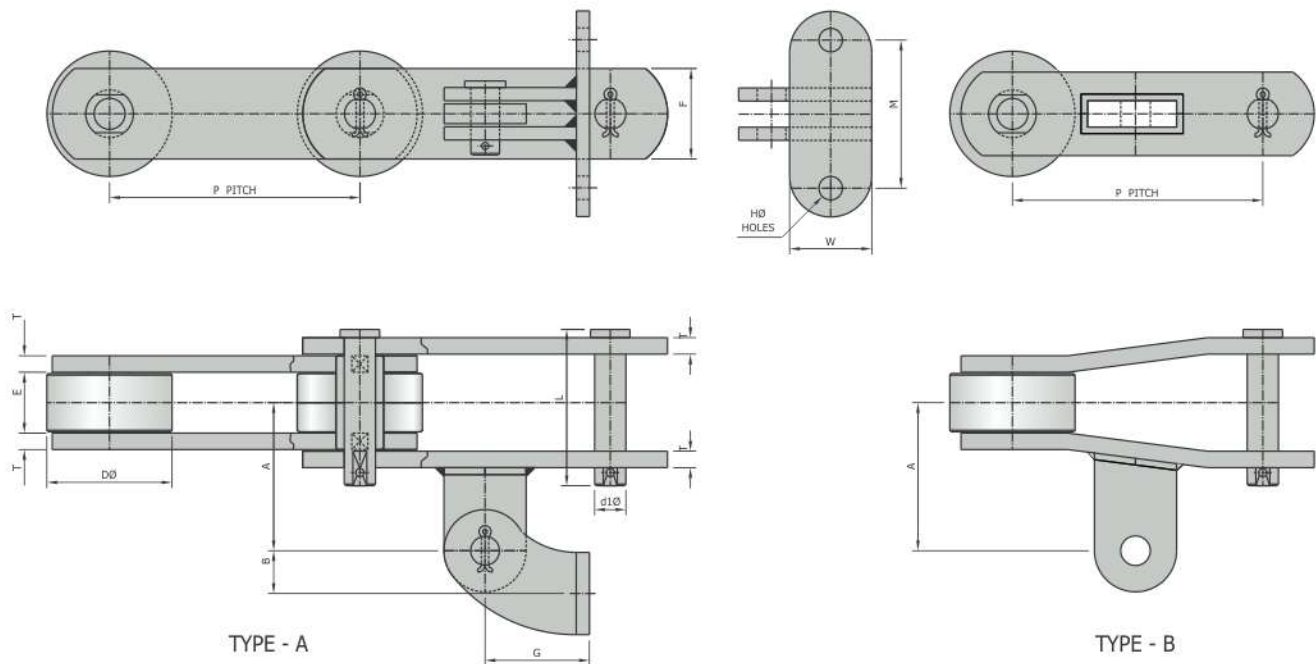
Rolcon is also using higher roller dia., which imparts smoother roller rotation.

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.

BAGGASSE CARRIER CHAINS



Technical Details

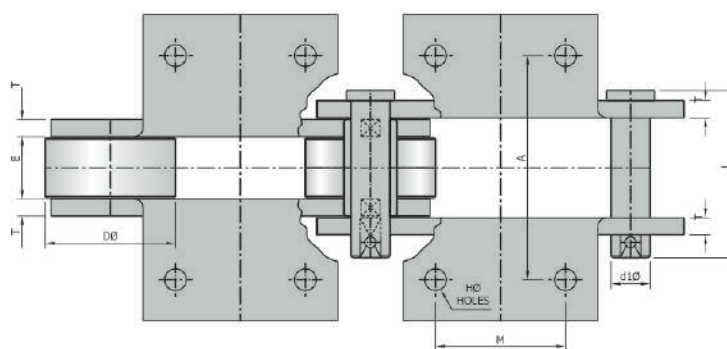
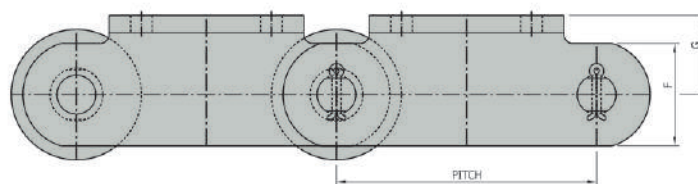


CHAIN NO	CHAIN PITCH	BREAKING LOAD	PIN DIA (d1)	PIN LG. -L	ROLLER DIA (D)	INSIDE WIDTH (E)	FLAT WIDTH (F)	A	M	G	a	W	H Ø	THK (T)
46	152.4 MM	18,182 KGS	19	89	65	35	50	90	90	65	25	50	15	9.5
54	152.4 MM	25,000 KGS	22.22	94	76.2	35	50	66.67	89	60	25.8	50	14.27	10
2377	150 MM	40,000 KGS	22.74	98	75	37	60	80	90	78	35	50	14	10
122	152.4 MM	32,000 KGS	19	95	63.5	37	55	90	90	55.5	26	50	14.28	10
2705	152.4 MM	35,000 KGS	22.74	99	76	38.5	60	90	90	55.5	26	50	14.28	10
3784	152.4 MM	45,400 KGS	22.74	98	76.2	36.5	60	88.5	90	65	25	50	15	10
4731	150 MM	60,000 KGS	25.4	128	75	37	65	76.5	85	41.5	-	50	14	12
4178	152.4 MM	63,500 KGS	23.8	112.5	76.2	39	65	84.5	-	-	-	-	-	12
4834	152.4 MM	70,000 KGS	28	107	76.2	37	65	78.5	-	-	-	-	-	12
4471	152.4 MM	80,000 KGS	32	127	90	40	75	108	-	-	-	-	-	14
3130	200 MM	60,000 KGS	30	130	90	37	75	108	90	50	35	65	17	16

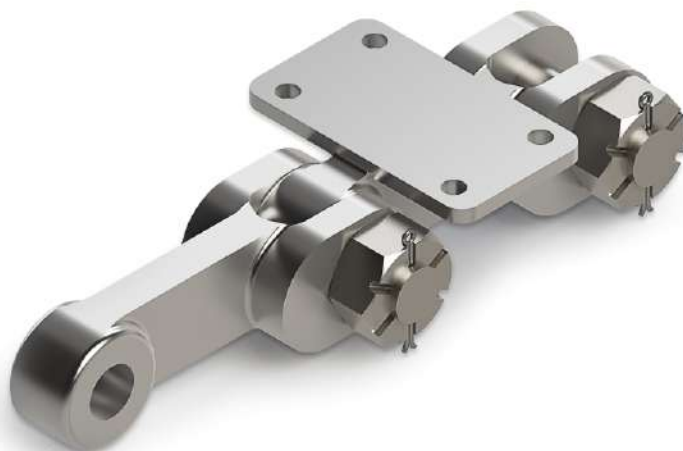
CANE CARRIER CHAINS



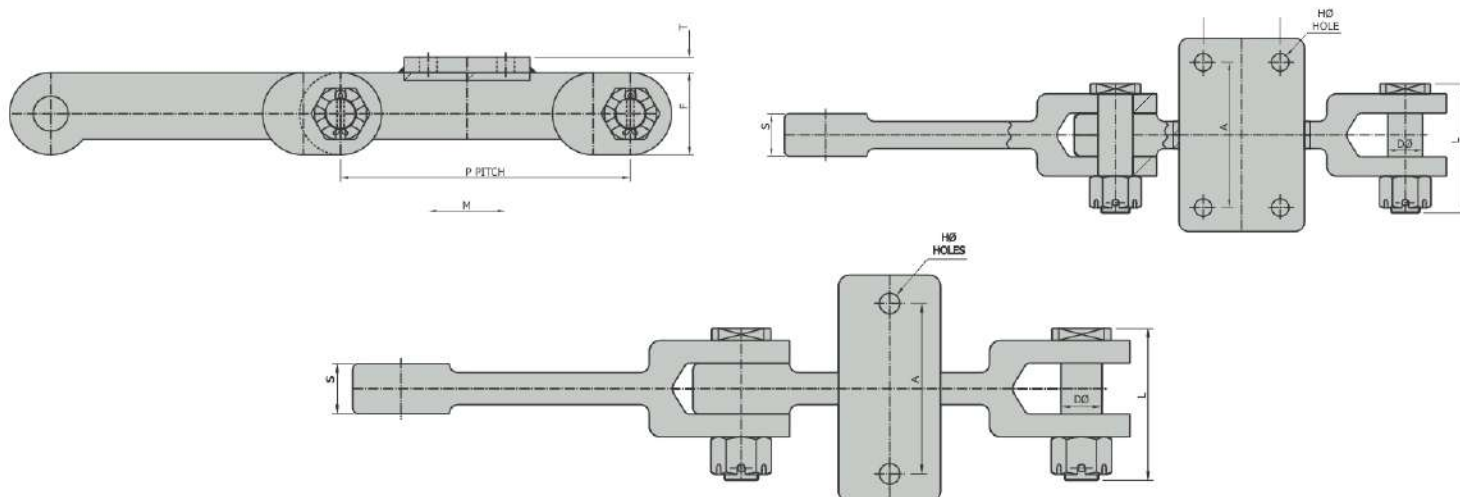
Technical Details

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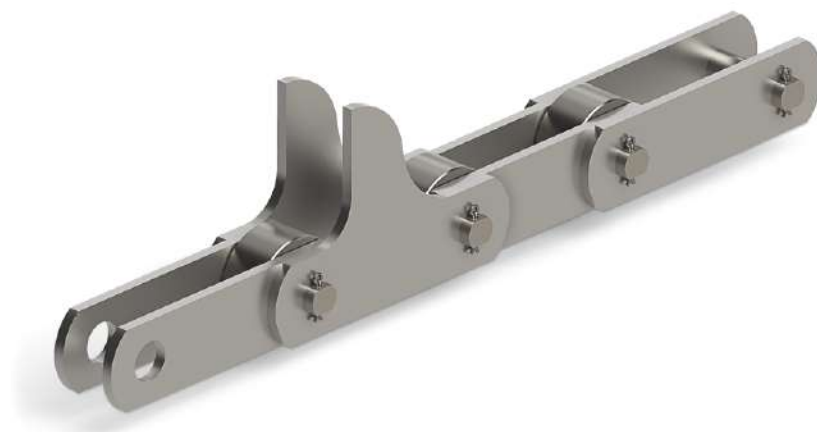
RAKE CARRIER CHAINS



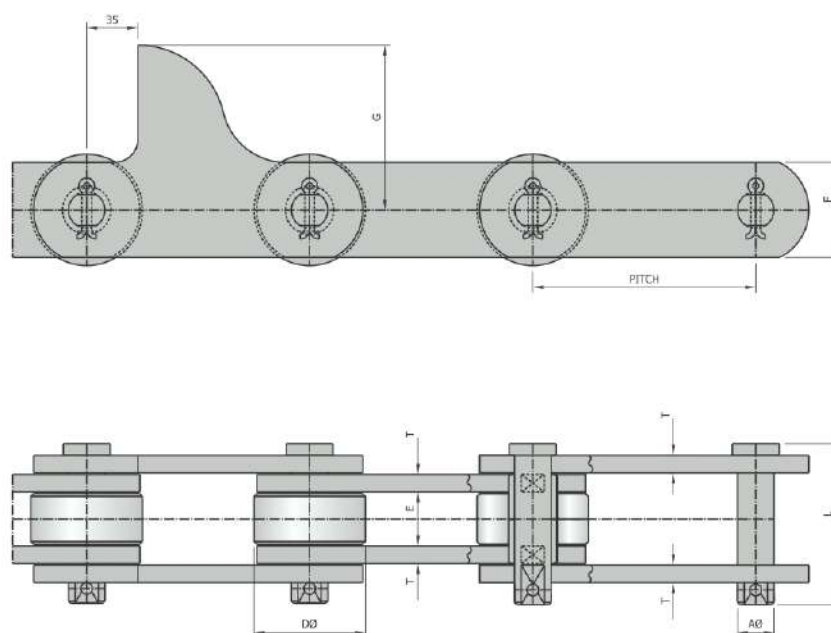
Technical Details

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FEEDER TABLE CHAIN



Technical Details



CHAIN NO	CHAIN PITCH	BREAKING LOAD	PIN DIA (d1)	PIN LG. -L	ROLLER DIA (D)	INSIDE WIDTH (E)	FLAT WIDTH (F)	THK (T)	G
FT20T	150 MM	20,000 KGS	23	82	75	36	60	8	95
FT30T	150 MM	30,000 KGS	23	92	75	36	60	10	101
FT40T	150 MM	40,000 KGS	25	101	80	36	65	12	112.5

CANE DIFFUSER CHAIN



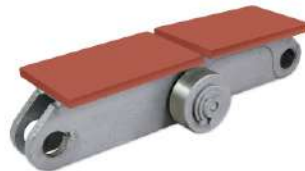
CUSH CUSH CHAIN



RIVET LESS CHAIN



High Performance Chains and Sprockets





Rolcon's modern Chain and Sprocket, manufacturing plants were established in 1967 in technical and financial collaboration with Messrs 'KÖBO' Germany, makers 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. Its 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 ISO 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.



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