



Palm Oil Mill Conveyor Chain



BS EN REG NO. 16885

*Quality Assured & Certified Under
BSEN ISO 9001 : 2008*

ABOUT US

Experience Sales and Support

Master Links helps our clients keep track on their conveyor servicing timeline and foresee the clients need.

Customer Driven Solution

We committed in helping clients to increase their ROI by utilizing the chain in a most efficient way.

Research and Development

Ours products change and develop in according to the need of market to always stay ahead in the industries.

Strict Quality Control

We emphasize on quality product so our customer can rest assured while using our products

Strategically located around Malaysia provide great convenience to customer locally and abroad.

Integrated Manufacturing Facilities

Master Links manufacturing constantly find ways to improvise efficiency and enhance product quality to position themselves competitive in the market.

Quality Statement

Remain unchanged as this is affiliated to ISO policy set by the management.

Vision

1. Be the leading conveyor chain solution provider for palm oil mills worldwide.
2. Deliver high-quality products and services that optimize clients' operations and profitability.

Mission

- Design, manufacture, and supply the best conveyor chain solutions for palm oil mills.
- Continuously innovate and improve products and services to exceed clients' expectations.
- Provide excellent customer service and build long-term partnerships.
- Contribute to the sustainable growth of the palm oil industry.



ABOUT PRODUCT

Material : Alloy Steel

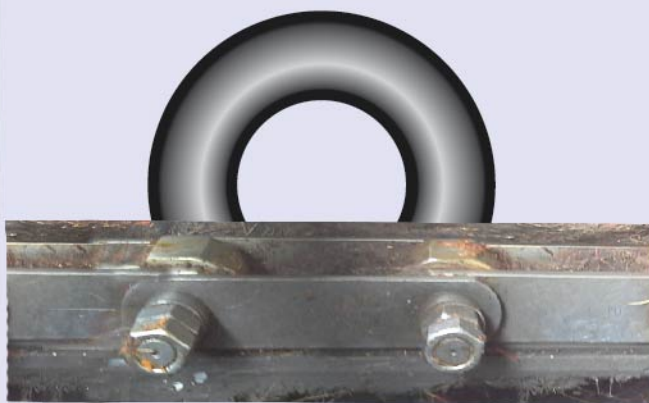
Precision Machining and Consistent hardening process with higher wear resistance and fatigue endurable material demonstrate the high-quality and durability

The induction through hardening process provides excellent wear resistance on the surface of the roller, pin and bush for longest life span

Improved material specification resulting a further significant increase in chain tensile strength and minimum elongation

Material and Treatment Specification

Case Harden



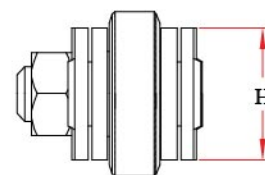
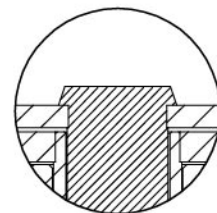
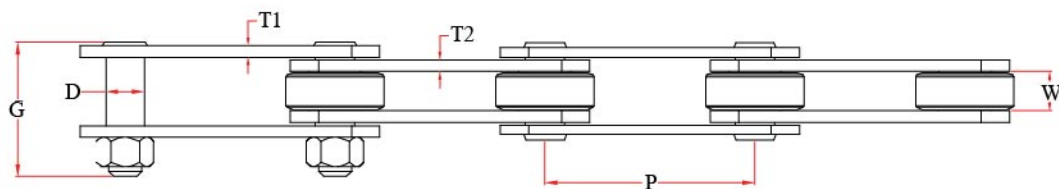
Solid Harden



Prevent corrosion and prolong wear & tear



SOLID RIVETED TYPE

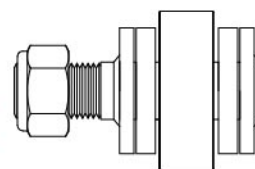
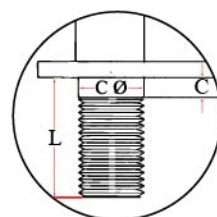
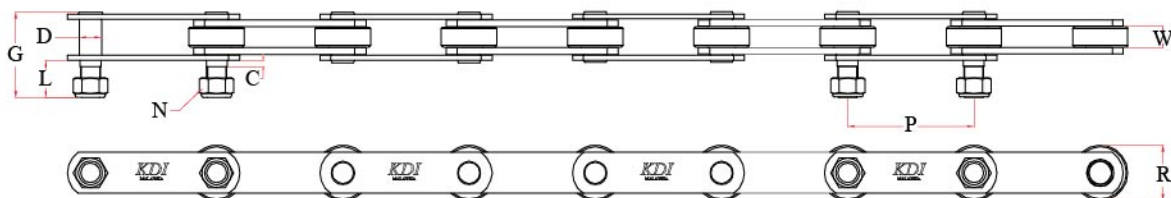


Chain No.	Pitch	Roller	Pin	Inner Width	Total Width	Plate			Breaking Load	Weight	Length per Conveyor
						Height	Thickness				
	P	R	D	W	G	H	T1	T2	Lbf	kg/f	ft
KD44	101.6	47.6	19.0	20.2	63.3	38.1	4.5	5.5	44,000	2.06	10
KD46-WR	101.6	66.7	26.9	25.4	57.0	52.8	6.0	6.0	64,000	4.00	10
KD66-WR	152.4	66.7	26.9	25.4	80.0	52.8	6.0	6.0	64,900	3.42	10
KD66-EX-WR	152.4	66.7	26.9	25.4	84.0	52.8	6.0	8.0	80,000	3.78	10
KD66-XX-WR	152.4	66.7	26.9	25.4	89.2	52.8	8.0	8.0	83,000	4.06	10
KD66-XY	152.4	66.7	26.9	25.4	94.0	52.8	8.0	9.0	100,000	4.23	10
KD64	152.4	47.6	19.0	19.0	45.0	38.1	4.5	5.5	38,000	2.00	10
KD68-WR	152.4	88.9	30.0	38.1	78.0	61.0	8.0	8.0	75,000	6.70	10

*mm



SOLID EXTENDED TYPE

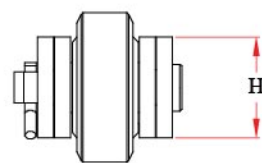
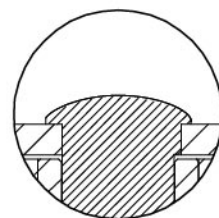
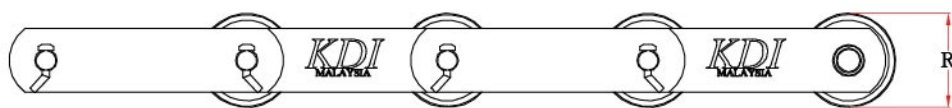
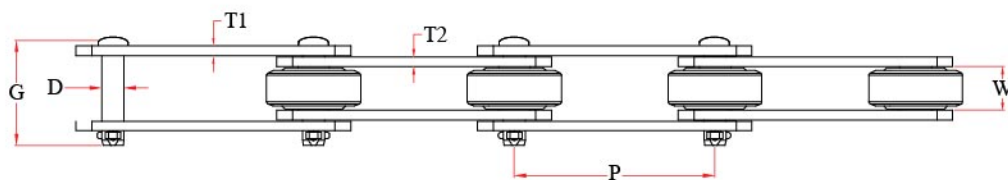
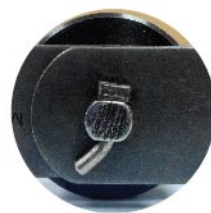


Chain No.	Pitch	Roller	Pin	Inner Width	Total Width	Pin Length	Step	Dia.	Nut	Extended Pin	Weight	Length per Conveyor
	P	R	D	W	G	L	C	cØ	N		kg/f	ft
KD44-4EP	101.6	47.6	19.0	20.2	71.2	27.0	5.0	18.0	M16	4 links	2.14	8
KD44-6EP	101.6	47.6	19.0	20.2	71.2	27.0	5.0	18.0	M16	6 links	2.12	10
KD66-4EP-WR	152.4	66.7	26.9	25.4	100.6	45.0	7.5	25.0	M24	4 links	3.60	10
KD66-6EP-WR	152.4	66.7	26.9	25.4	100.6	45.0	7.5	25.0	M24	6 links	3.53	9
KD66-EX-4EP-WR	152.4	66.7	26.9	25.4	104.4	45.0	7.5	25.0	M24	4 links	3.76	10
KD66-EX-6EP-WR	152.4	66.7	26.9	25.4	104.4	45.0	7.5	25.0	M24	6 links	3.70	9
KD66-EX-8EP-WR	152.4	66.7	26.9	25.4	104.4	45.0	7.5	25.0	M24	8 links	3.80	4
KD66-XY-4EP-WR	152.4	66.7	26.9	26.5	118.0	50.0	4.5	25.0	M24	4 links	4.43	10
KD66-XY-6EP-WR	152.4	66.7	26.9	26.5	118.0	50.0	4.5	25.0	M24	6 links	4.40	9
KD66-XY-8EP-WR	152.4	66.7	26.9	26.5	118.0	50.0	4.5	25.0	M24	8 links	4.30	4
KD5289-EP-WR	152.4	66.7	22.1	25.4	96.0	40.0	8.0	20.0	M20	every	3.72	10
KD5289-EX-EP45-WR	152.4	66.7	22.1	25.4	108.1	45.0	9.0	20.0	M20	every	4.24	10

*mm



SOLID T PIN TYPE

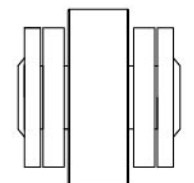
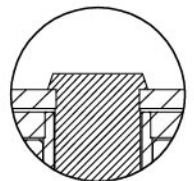
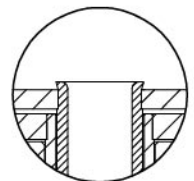
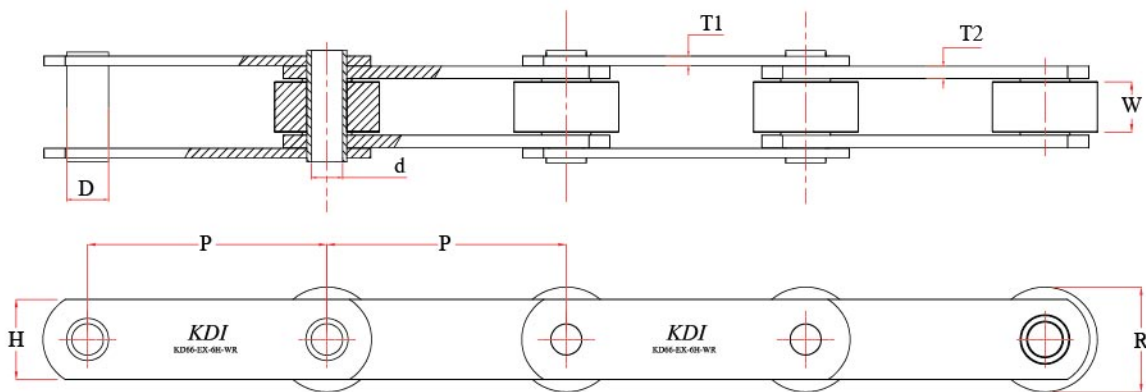
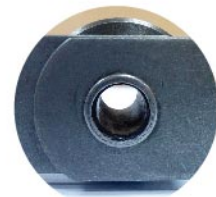


Chain No.	Pitch	Roller	Pin	Inner Width	Total Width	Plate			Breaking Load	Weight	Conveyor Length
						Height	Thickness				
	P	R	D	W	G	H	T1	T2	Lbf	kg/f	ft
KD9503	76.7	29.0	14.5	30.0	68.5	38.1	6.5	6.5	52,200	2.60	10
KD90	101.6	47.6	11.3	21.4	53.0	32.0	5.0	5.0	29,900	1.82	10
KD94-WR	101.6	50.8	14.5	30.0	68.5	38.1	6.5	6.5	48,800	3.00	10
KD604-WR	152.4	50.8	14.5	30.0	68.5	38.1	6.5	6.5	50,000	2.38	10
KD5289-WR	152.4	66.7	22.1	25.4	72.0	50.8	6.4	6.4	70,000	3.30	10
KD5289-EX-WR	152.4	66.7	22.1	25.4	72.0	55.0	6.4	8.0	92,300	3.90	10
KD9060-WR	152.4	69.8	19.0	38.1	96.0	50.8	9.5	9.5	110,000	5.30	10
KD5305-WR	160.0	69.8	17.5	38.1	82.0	50.8	6.4	6.4	90,000	4.50	10

*mm



SOLID HOLLOW PIN TYPE

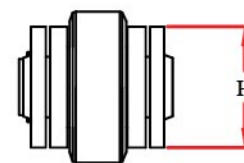
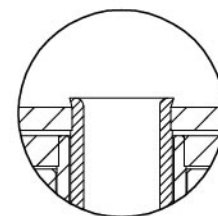
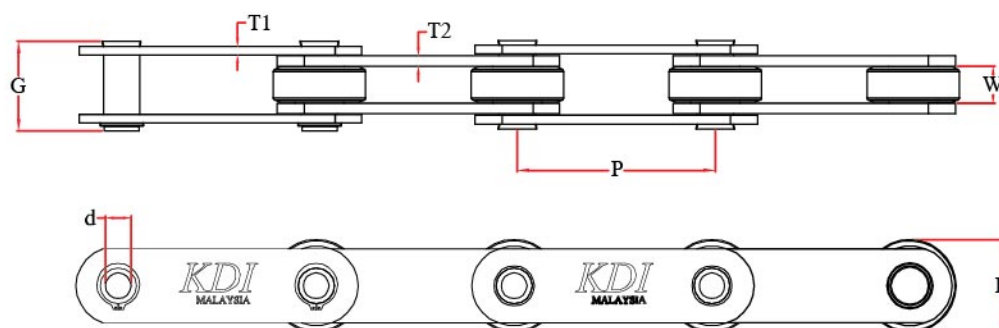


Chain No.	Pitch	Roller	Pin		Inner Width	Total Width	Plate			Hollow Pin	Weight	Length per Conveyor
			External	Internal			Height	Thickness				
	P	R	D	d	W	G	H	T1	T2	kg/f	ft	
KD44-4H	101.6	47.6	19.0	13.2	20.2	45.0	38.1	4.5	5.5	4 Links	1.99	10
KD44-6H	101.6	47.6	19.0	13.2	20.2	45.0	38.1	4.5	5.5	6 Links	2.00	10
KD66-EX-6H-WR	152.4	66.7	26.9	20.1	26.4	59.4	52.8	6.0	8.0	6 Links	3.6	9
KD66-XY-8H-WR	152.4	66.7	26.9	20.1	26.4	62.4	52.8	8.0	9.0	8 Links	4.2	4

*mm



HOLLOW TYPE CHAIN

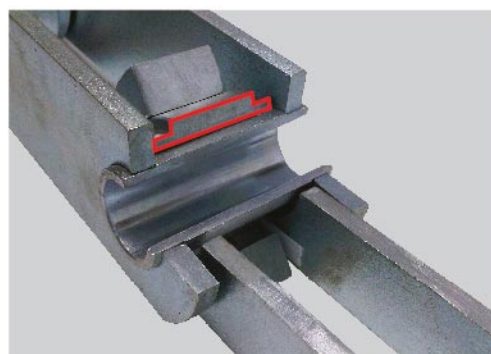
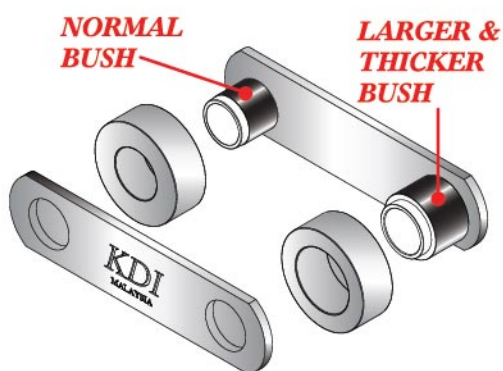
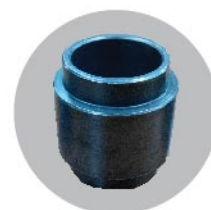


Chain No.	Pitch	Roller	Pin	Inner Width	Total Width	Plate			Breaking Load	Weight	Length per Conveyor
						Height	Thickness				
	P	R	D	W	G	H	T1	T2	Lbf	kg/f	ft
KD44H	101.6	47.6	13.2	20.2	45.0	38.1	4.5	5.5	39,000	1.90	10
KD46H-WR	101.6	66.7	20.1	25.4	57.0	52.8	6.0	6.0	40,000	3.70	10
KD66H-WR	152.4	66.7	20.1	26.4	55.5	52.8	6.0	6.0	60,000	3.16	10
KD66H-EX-WR	152.4	66.7	20.1	26.4	59.5	52.8	6.0	8.0	68,200	3.52	10
KD64H	152.4	47.6	13.2	19.0	45.0	38.1	4.5	5.5	28,000	1.80	10
KD68H-WR	152.4	88.9	23.1	38.1	78.0	61.0	8.0	8.0	65,000	6.10	10

*mm



Hollow Premier Type (Larger & Thicker Bush)

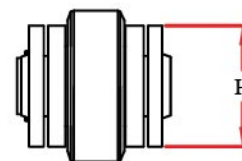
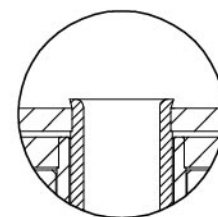
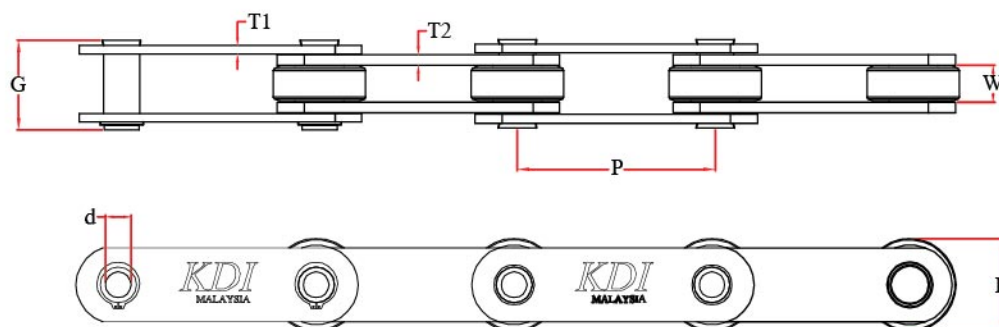


Chain No.	Pitch	Roller	Pin	Inner Width	Total Width	Plate			Breaking Load	Weight
						Height	Thickness			
	P	R	d	W	G	H	T1	T2	Lbs	kg/f
KDP66H-WR	152.4	66.7	20.1	25.4	57.0	52.8	6.0	6.0	60,000	3.1
KDP66H-EX-WR	152.4	66.7	20.1	25.4	61.0	52.8	6.0	8.0	68,200	3.3

*mm



STAINLESS STEEL TYPE FOR WET CONDITION

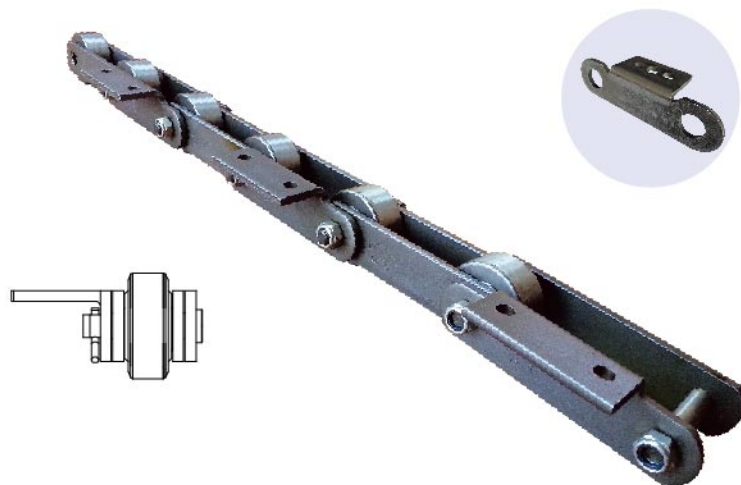
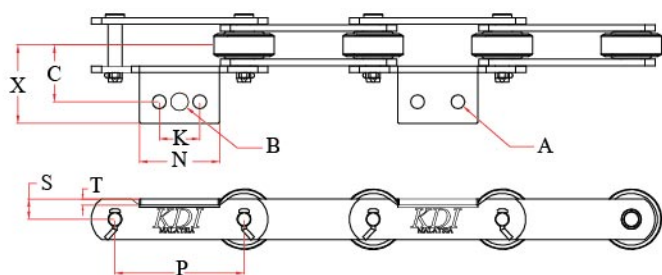


Chain No.	Pitch	Roller	Pin	Inner Width	Total Width	Plate			Breaking Load	Weight	Conveyor Length
						Height	Thickness				
	P	R	D	W	G	H	T1	T2	Lbf	kg/f	ft
KD44-PBSS	101.4	47.6	19.0	20.2	45.0	38.1	4.5	5.5	44,000	2.20	10
KD44H-PBSS	101.6	47.6	13.2	20.2	45.0	38.1	4.5	5.5	39,000	1.90	10
KD66H-PBSS-WR	152.4	66.7	20.1	26.4	55.0	57.0	6.0	6.0	60,000	3.12	10
KD66H-PBCR-WR	152.4	66.7	20.1	26.4	55.0	52.8	6.0	6.0	60,000	3.11	10

*mm



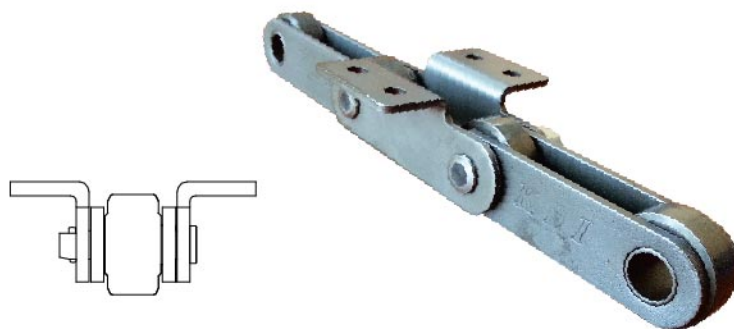
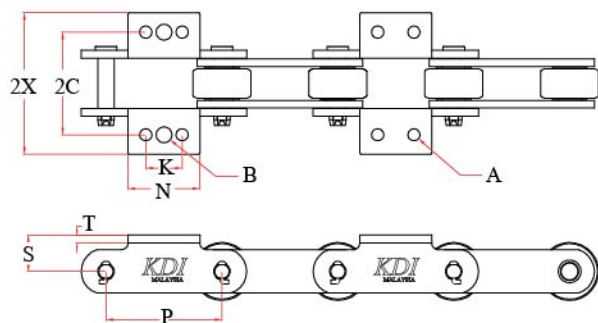
ATTACHMENT



A Type Attachment

Chain No.	P	C	X	K	N	A	B	T	S
KD44-A1	101.6	44.0	62.0	-	63.5	-	13.9	4.5	31.8
KD90-A2	101.6	44.5	62.0	31.8	63.0	10.7	-	5.0	15.9
KD94-A2	101.6	44.5	62.0	31.8	63.0	10.7	-	6.5	19.1
KD90-A3	101.6	44.5	62.5	31.8	63.0	10.7	13.9	5.0	15.9

*mm



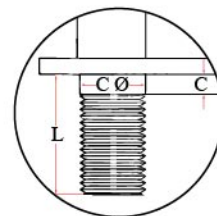
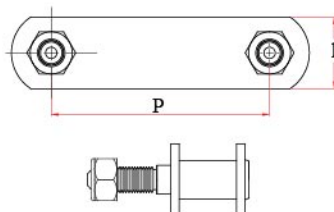
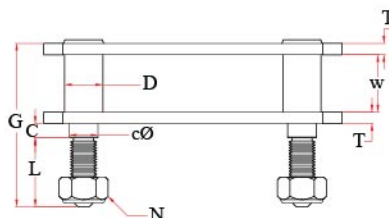
K Type Attachment

Chain No.	P	2C	2X	K	N	A	B	T	S
KD9503-5K1	76.7	111.2	142.0	-	46.0	-	12.0	6.5	25.4
KD44-K1	101.6	88.0	126.0	-	63.5	-	13.9	4.5	31.8
KD44-K2	101.6	88.0	126.0	32.0	63.5	13.9	-	4.5	31.8
KD44H-KP1	101.6	88.0	126.0	-	63.5	13.9	-	4.5	31.8
KD90-K3	101.6	89.0	124.0	31.8	63.0	10.7	13.9	5.0	31.8
KD94-K2	101.6	89.0	124.0	31.8	63.0	10.7	-	6.5	31.8

*mm



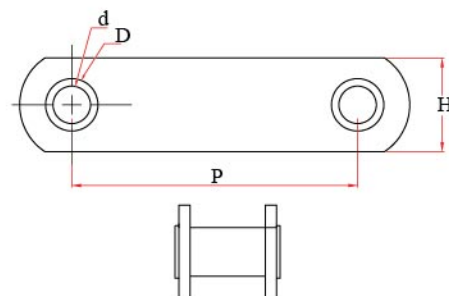
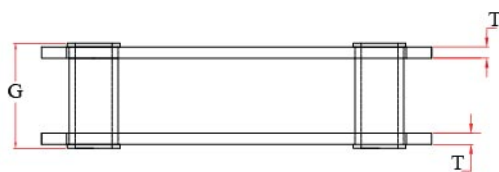
SOLID TYPE CONNECTING LINK



Connecting Link No.	Pitch	Pin	Length	Total Width	Plate	
					Height	Thickness
	P	D	L	G	h	T
CL44	101.6	19.0	21.3	68.5	38.1	6.5
CL44EP	101.6	19.0	27.0	68.5	38.1	6.5
CL66	152.4	26.9	26.6	80.0	38.1	6.0
CL66-EP	152.4	26.9	45.0	100.6	52.8	6.0
CL66-EX	152.4	26.9	26.6	84.0	52.8	6.0
CL66-EX-EP	152.4	26.9	45.0	103.0	52.8	6.0
CL66-XX	152.4	26.9	26.8	89.2	52.8	8.0
CL66-XX-EP	152.4	26.9	45.0	111.5	52.8	8.0
CL66-XY	152.4	26.9	25.0	92.2	52.8	8.0
CL66-XY-EP	152.4	26.9	50.0	118.0	52.8	8.0
CL5289EP	152.4	22.1	40.0	99.5	50.8	6.4
CL5289EX-EP45	152.4	22.1	45.0	108.0	55.0	6.4

*mm

HOLLOW TYPE CONNECTING LINK



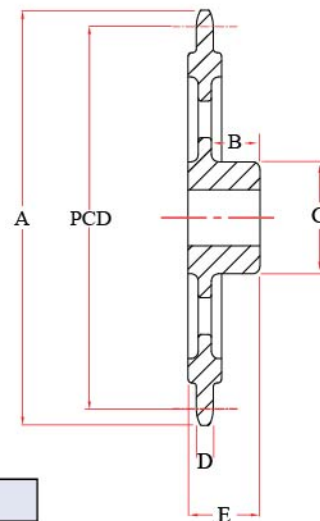
Connecting Link No.	Pitch	Pin	Pin	Total Width	Plate	
					Height	Thickness
	P	D	d	G	h	T
CL44H	101.6	19.0	13.2	45.0	38.1	4.5
CL66H	152.4	22.0	20.1	57.0	52.8	6.0
CL66H-EX	152.4	22.0	20.1	59.3	52.8	6.0

*mm



SPROCKET

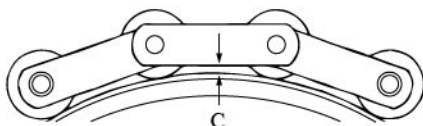
Material : Cast Steel / Cast Iron



Chain Pitch	No of Teeth	Pitch Dia. PCD	A	B	C	D	E
101.6	6	218.3	220	47.5	120.4	17.2	74.2
	8	260	285	48	118	17.2	73.7
	10	329	353	55	130	17.2	80
	12	391	415	55	138	17.2	80
	16	520	545	65	160	17.2	105
	21	684	710	70	170	17.2	115
152.4	8	398	422	60	150	23	100
	10	492	515	75	162	23	109
	12	589	613	83	180	23	112
	14	687	711	95	195	22.7	125
	16	782	810	85	200	23	125
	17	833	860	100	215	22.7	130
	18	900	918	97	211	22.7	120
	21	1010	1050	100	215	23	140

*mm

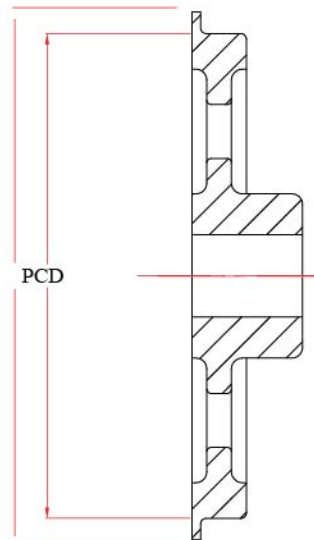
DRUM SPROCKET



Minimum track radius and link clearance

Chain Pitch	Roller Dia.	Clearance C	Pitch Dia. PCD
101.6	47.6	2.6	580
	66.7	4.2	310
152.4	66.7	4.2	720
	88.9	5.2	300

*mm





PALM OIL CONVEYOR CHAIN SERVICE & MAINTAIN GUIDELINE

SERVICE CRITERIA	DURATION			
	Weekly	Monthly	Quarterly	Yearly
Cleaning of chain to reduce chain friction	✓	✓	✓	✓
Check for loose T-pin / nut, tighten / replace the nut / T-pin accordingly	✓	✓	✓	✓
Check chain tension, adjust if necessary		✓	✓	✓
Check for unusual wear and tear on chain, identify and rectify the cause		✓	✓	✓
Check for Sign of wear and tear		✓	✓	✓
Check Shaft and sprocket alignment , make sure the shaft / sprocket teeth is correctly alligned			✓	✓
Check on side plate wear and tear				✓
Check chain elongation condition, switch side , partial replacement or total replacement if necessary				✓
Check for sprocket teeth wear and tear , replace if necessary				✓
Check liner wear and tear , replace if necessary				✓

REPLACEMENT OF CONVEYOR CHAIN

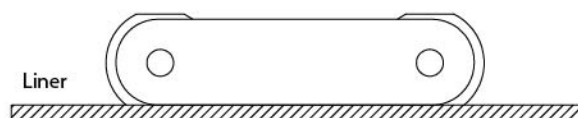
elongation < 4%



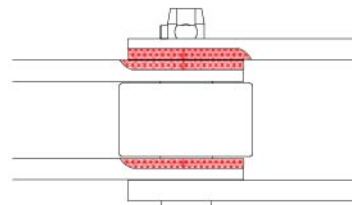
Chain elongated as load and tension applied on the conveyor chain. Maximum allowed elongations of chain stay between 4% of the conveyor. Conveyor chains should be replaced when the elongations on the chain reached or exceeds 4% of original conveyor length.



In some cases, conveyor chain bush may wear due to conveying abrasive materials or corrosive materials, the chain need to be replaced when holes can be observed from the conveyor.



When the rollers of the conveyor do not project when observe from the side plate, the chain has to be replaced. In some case the side plate may contact the track, causing friction and resulting in even higher chain tensions and even deplete the chain rail.



When wear between inner and outer link plates, or between link plates with roller and bushing has exceed 1/3 of original plate's thickness, the chain should be replaced.

SERVICE RECORD

Location	Brand	Model	Length	Last Change	Duration	Next Change	Remark
FFB Conveyor 1							
FFB Conveyor 2							
FFB Conveyor 3							
SFB Conveyor 1							
SFB Conveyor 2							
SFB Conveyor 3							
Threshing Conveyor 1							
Threshing Conveyor 2							
Empty Bunch Conveyor 1							
Empty Bunch Conveyor 2							
Empty Bunch Conveyor 3							
Horizontal Conveyor 1							
Horizontal Conveyor 2							
Horizontal Conveyor 3							
Fruit Elevator 1							
Fruit Elevator 2							
Fruit Elevator 3							
Kernel Elevator							
Wet Kernel Elevator							
Nut Elevator							
Shell Elevator							
Wet Shell Elevator							
Fuel Conveyor 1							
Fuel Conveyor 2							
Tripper Conveyor							

We Provide Customized Chains For Various Customer Needs



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