

Components For Elevator & Conveyor (PLATELINK)



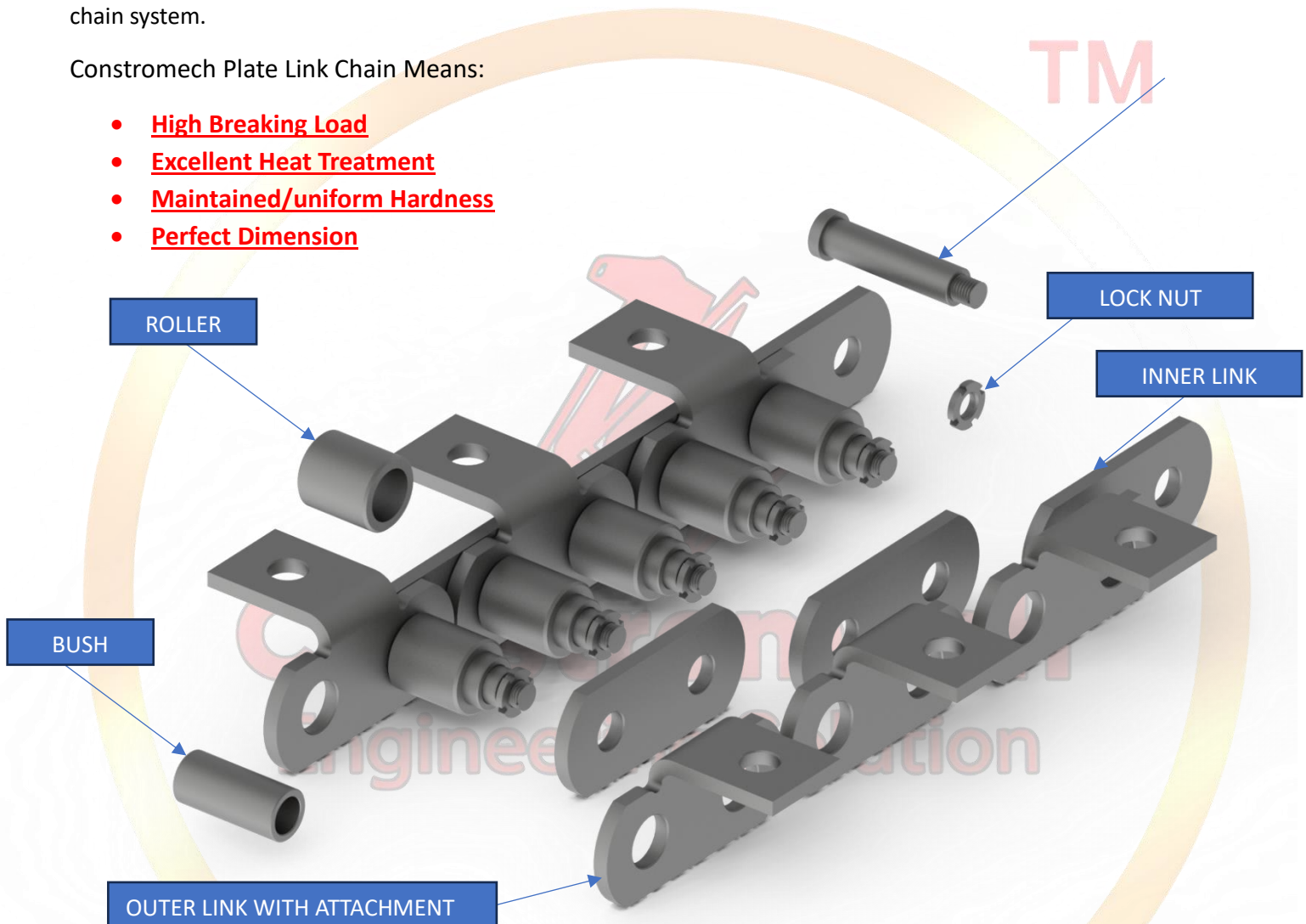
Constromech PLATE LINK CHAIN

Constromech plate link chains are made from fine-grained, alloyed steel. By ensuring optimum heat treatment, Constromech maintains high-quality standards.

The chains are manufactured with very close production tolerances to ensure a smooth, parallel run over the sprockets. All plate steel chains and components are matched in terms of strength and uniform hardness to minimize wear, provide the greatest possible wear life, and ensure maximum chain longevity — guaranteeing a long-lasting chain system.

Constromech Plate Link Chain Means:

- High Breaking Load
- Excellent Heat Treatment
- Maintained/uniform Hardness
- Perfect Dimension



PIN: - The most important role of the pin is connecting the inner link to the outer link. Along with the plate, it receives chain tension along the direction of travel while receiving vertical reactive forces from the conveyed items. The outer diameter of the pin suffers wear from sliding against the bushing's inner diameter when the chain articulates. The pin is an essential strength-bearing part and requires high wear resistance.

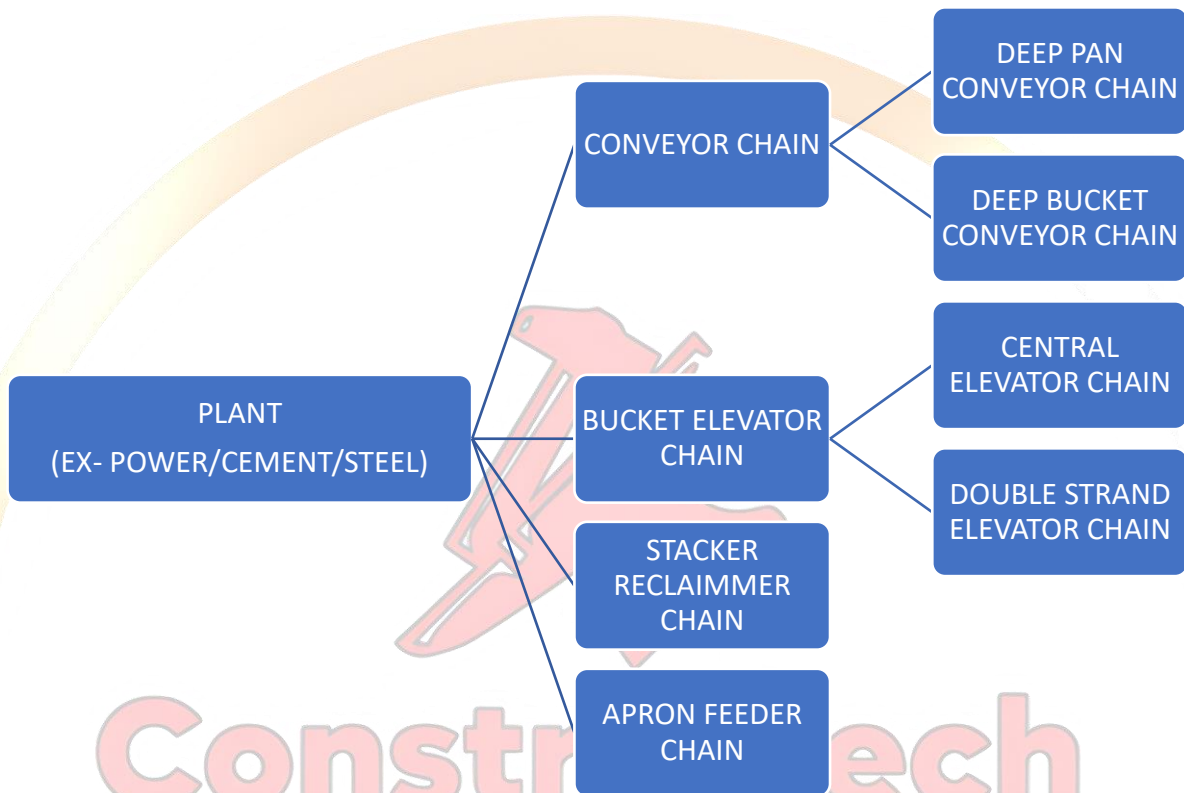
BUSH: - The bushing is a strength-bearing part, receiving tension from the chain during sprocket engagement, but its major role is as a bearing part. The outer diameter of the bushing suffers wear from sliding against the roller inner diameter during roller rotation, while the bushing inner diameter suffers wear from sliding against the outer diameter of the pin when the chain articulates. Bushing inner diameter wear is directly expressible as pitch elongation.

ROLLER: - Forms a slip fit with the bushing. Rotates when engaging with the sprocket, while alleviating the shock and wear from the teeth. Rotation also lowers running resistance.

INNER LINK/OUTER LINK: - The plate mainly receives the tensile load along the chain's direction of travel while receiving vertical reactive forces while supporting the conveyed item. The outer plate and inner plate slide against each other during chain articulation, as well as against the sides of the sprocket teeth during sprocket engagement. Plate holes are either round or flat.

ATTACHMENTS: - For attaching items to the chain.

C-WASHER/T-PIN/LOCK NUT: - After the outer plate is press-fitted to the pin, a T-pin/WASHER/LOCK NUT is inserted and bent to prevent the pin from falling out.



BUCKET ELEVATOR CHAIN

We Manufacture Surface Hardened Chains for Bucket elevators used in Cement Plant / Power Plants / Steel / Fertilizer Plants for all types of material handling.



Due to Constant abrasion of these chain links against each other, as well as due to the abrasive material, which is being handled in the ash removal system, Surface Treated Chains are essential to give a reasonable service life and to work without frequent replacement.

To meet these requirements, we have complete Facilities for Heat Treatment, the best technical teams for mechanical and metallurgical testing to ensure this outcome.

CHAIN's CMECH chains for central chain and twin strand bucket elevators, with or without separate bucket attachments, are manufactured within a wide range of dimensions and assemblies.

Bucket elevator chains are subjected to high dynamic loads, and CMECH emphasis is to achieve high fatigue resistance whilst maintaining excellent wear resistance and thus optimum service life.

Therefore, bolts and bushes are given a deep case hardening depth. Link plates are manufactured of high tensile alloy steels with a fine-grained structure. Considerable attention is given to the surface quality of bores, accurate tolerance, and assembly.

Such bucket elevator chains can therefore be classified as high-precision special chains that can resist tough operating conditions with fluctuating load conditions throughout their service life.

This is, of course, completed by a range of toothed and toothless chain wheels with replaceable segmented rims.

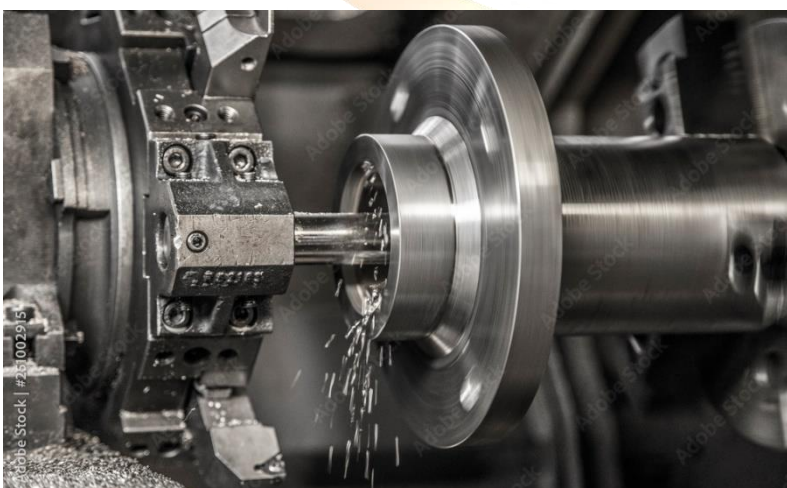
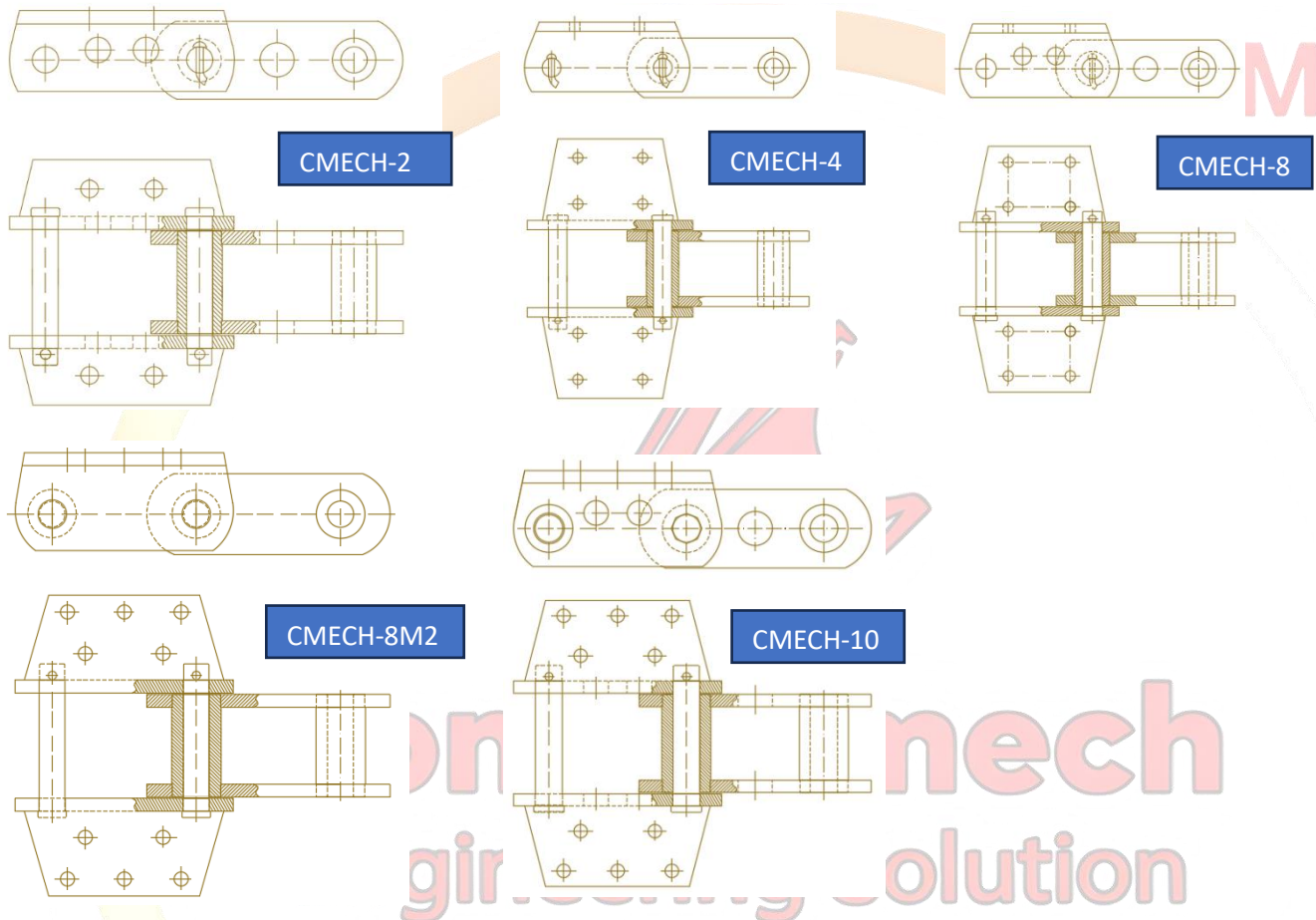


FIG: SPROCKET HUB MACHINING.

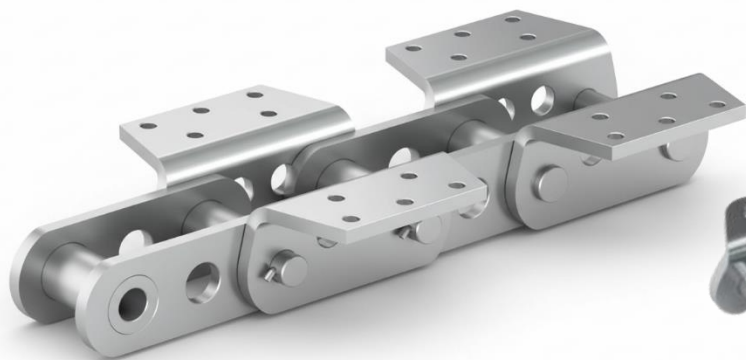
CMECH have for many years manufactured chains and chain sprockets to different dimensions and arrangements. The many variations virtually make every chain or chain wheel unique.

HIGH TENSILE CHAIN FOR CENTRAL CHAIN BUCKET ELEVATORS

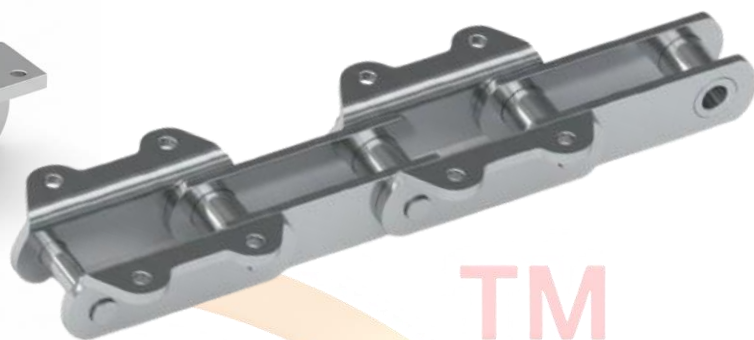
MATERIAL:	SPECIAL FINE GRAINED HIGH STRENGTH STEEL (ALLOY STEEL)
PROCESS OF MANUFACTURE:	MACHINING, GRINDING & PRESS FIT ASSEMBLY
HEAT TREATMENT:	GAS CARBURISING, DOUBLE QUENCHED WITH CORE REFINE AND TEMPER



MODEL	ATTACHMENT (EXAMPLE)	PITCH (P)
CES-8-5-6	CMECH-2/4/8	152.4 mm
CES-9-5-6	CMECH-2/4/8	152.4 mm
CES-8-5-7	CMECH-2/4/8	152.4 mm
CES-9-5-8	CMECH-2/4/8	152.4 mm
CES-8-5-9	CMECH-2/4/8	152.4 mm
CES-8-6-4	CMECH-8M2/10	177.8 mm
CES-9-8-4	CMECH-8M2/10	177.8 mm



FABRICATED CENTRAL CHAIN TYPE-1



FABRICATED CENTRAL CHAIN TYPE-2



SEGMENTED RIM



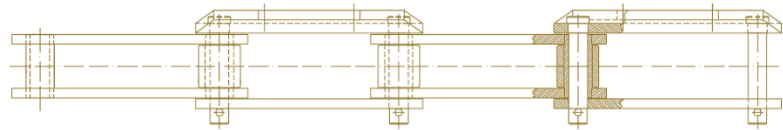
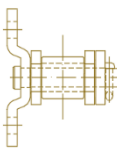
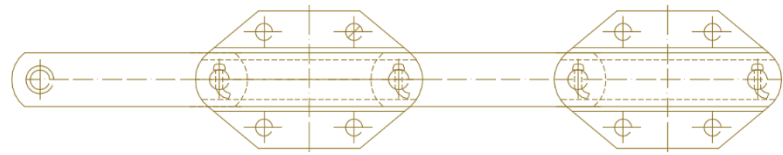
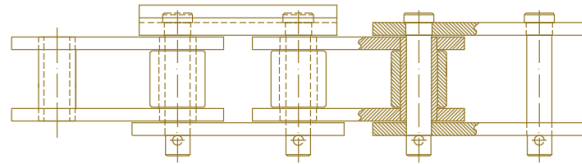
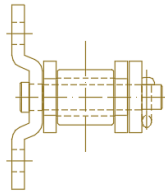
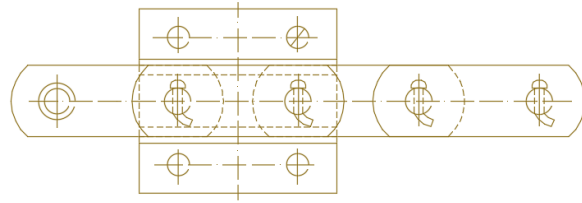
FABRICATED BUCKET



BOOT BEARING

HIGH TENSILE CHAIN FOR DOUBLE STRAND CHAIN BUCKET ELEVATORS

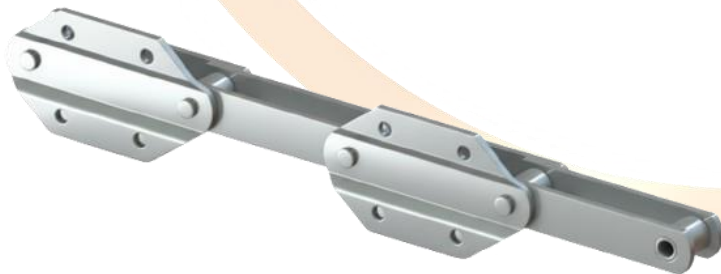
MODEL	PITCH (P)
CES-300-10	75 mm
CES-300-10S	150 mm
CES-300-12	76.2 mm
CES-450-12	100 mm
CES-450-12S	200 mm
CES-300-17	76.2 mm
CES-300-17L	125 mm
CES-450-17	100 mm
CES-450-17S	200 mm
CES-450-26	100 mm
CES-600-26	125 mm
CES-600-36	125 mm
CES-600-36L	125 mm
CES-800-36	150 mm
CES-800-60	150 mm
CES-011-90	175 mm



FABRICATED CHAIN-1 SIDE WALL MOUNT



FABRICATED BUCKET SIDE WALL MOUNT



FABRICATED CHAIN-2 SIDE WALL MOUNT

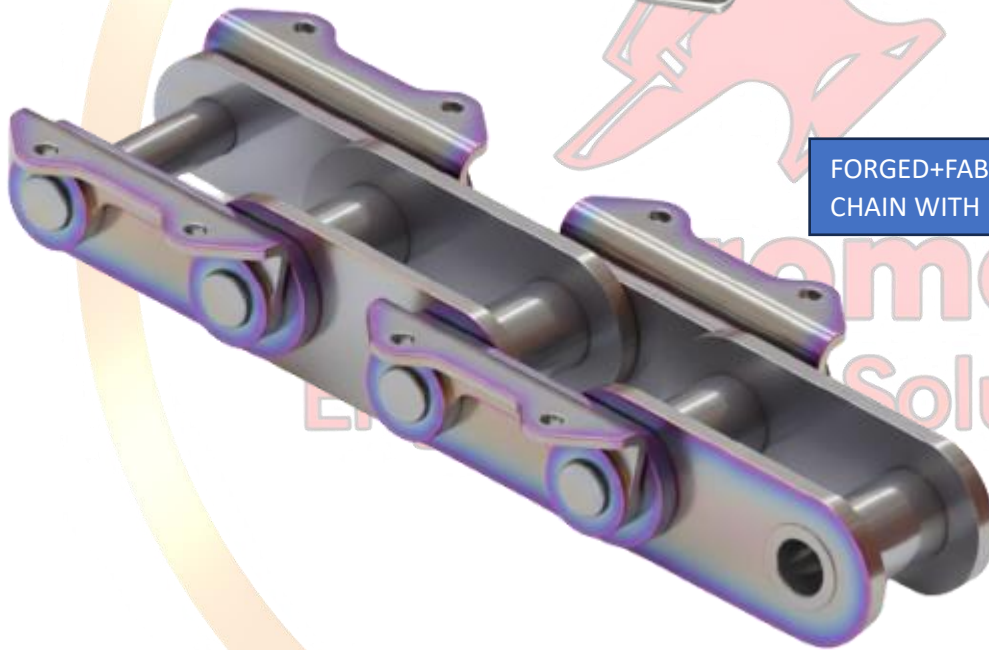


TOOTHED SPROCKET IN SINGLE PIECE

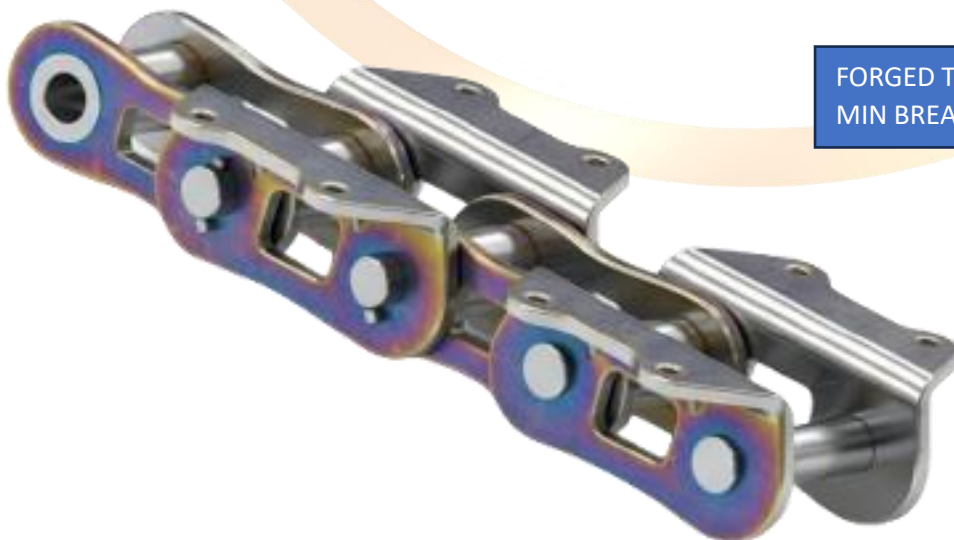
HIGH TENSILE CHAIN FOR DOUBLE STRAND CHAIN BUCKET ELEVATORS



FORGED TYPE HEAVY BUCKET ELEVATOR CHAIN
WITH MIN BREAKING LOAD 180TON



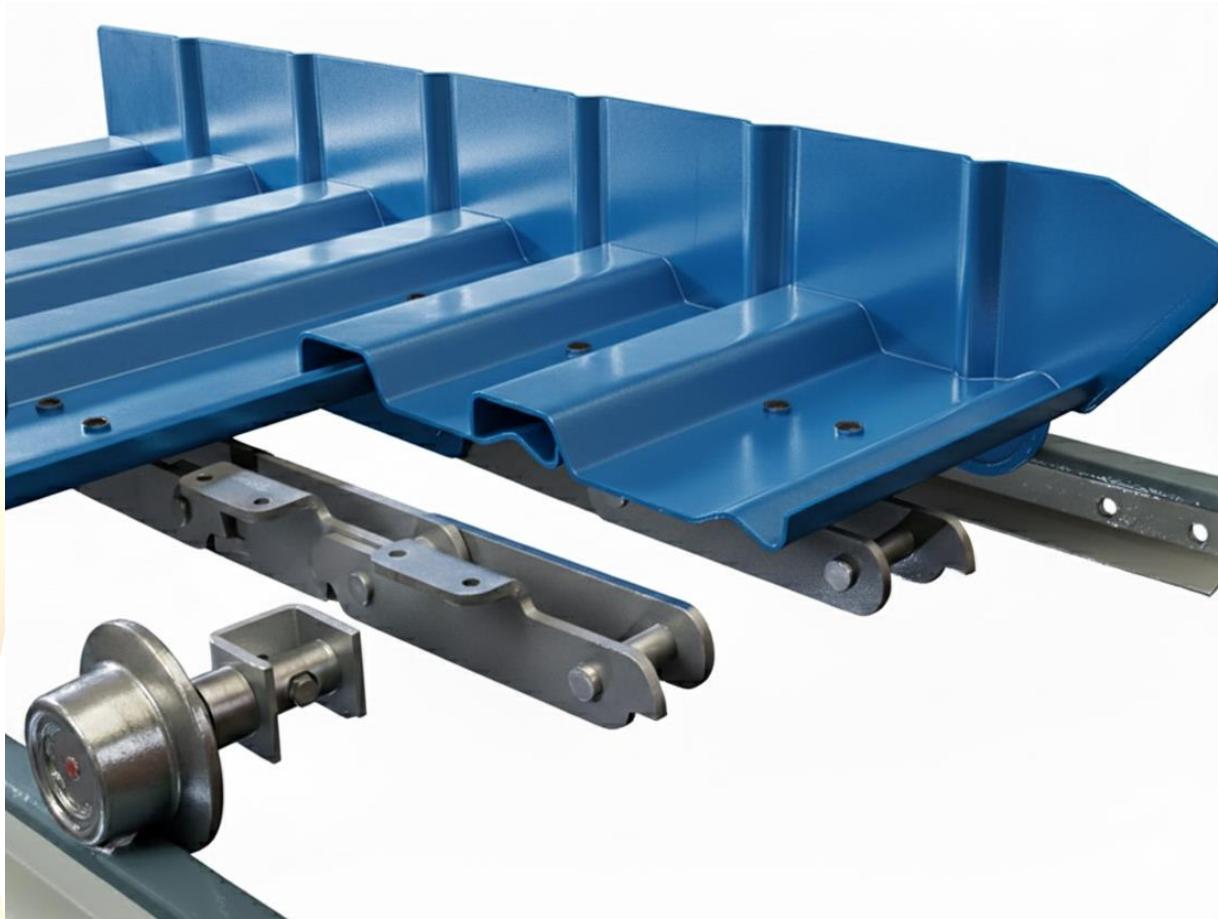
FORGED+FABRICATED TYPE HEAVY BUCKET ELEVATOR
CHAIN WITH MIN BREAKING LOAD 180TON



FORGED TYPE HEAVY BUCKET ELEVATOR CHAIN WITH
MIN BREAKING LOAD 170TON

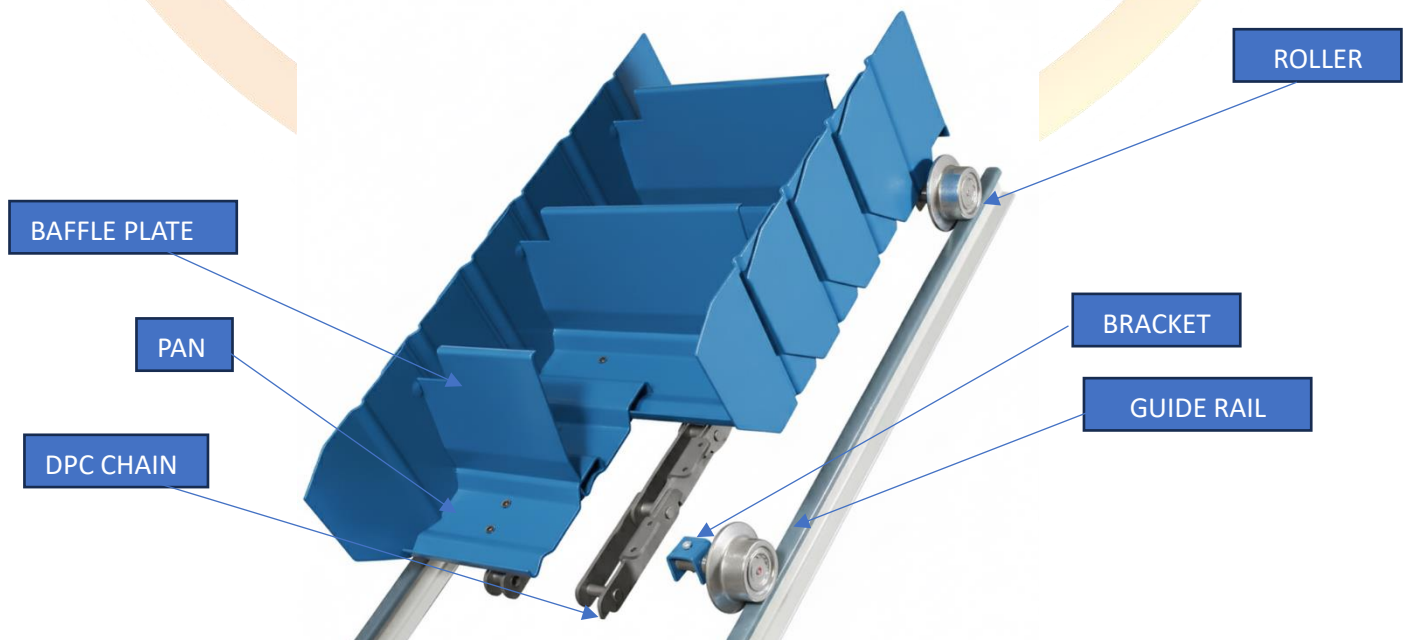
PAN CONVEYOR'S CHAIN:

We manufacture Surface Hardened Chains for PAN CONVEYORS used in Cement Plant / Power Plants /Steel / Fertilizer Plants for all types of material handling.



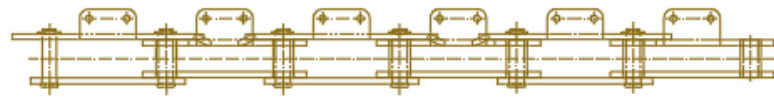
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To meet these requirements, we have complete Facilities for Heat Treatment, the best technical teams for mechanical and metallurgical testing to ensure this outcome



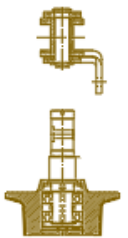
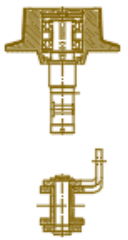
HIGH TENSILE CHAIN FOR PAN CONVEYORS WITH ROLLERS

MODEL	PITCH (P)
PC-5570	250 mm
PC-4665	250 mm
PC-3045	250 mm
PC-6085	250 mm
PC-4565	250 mm
PC-6090	250 mm
PC-4570	250 mm
PC-6090-D	250 mm



Centre Line

DPC Roller



SINGLE BRACKET DEEP
PAN CONVEYOR CHAIN



DUAL BRACKET DEEP
PAN CONVEYOR CHAIN



DPC ROLLER



PAN WITH BAFFLE PLATE

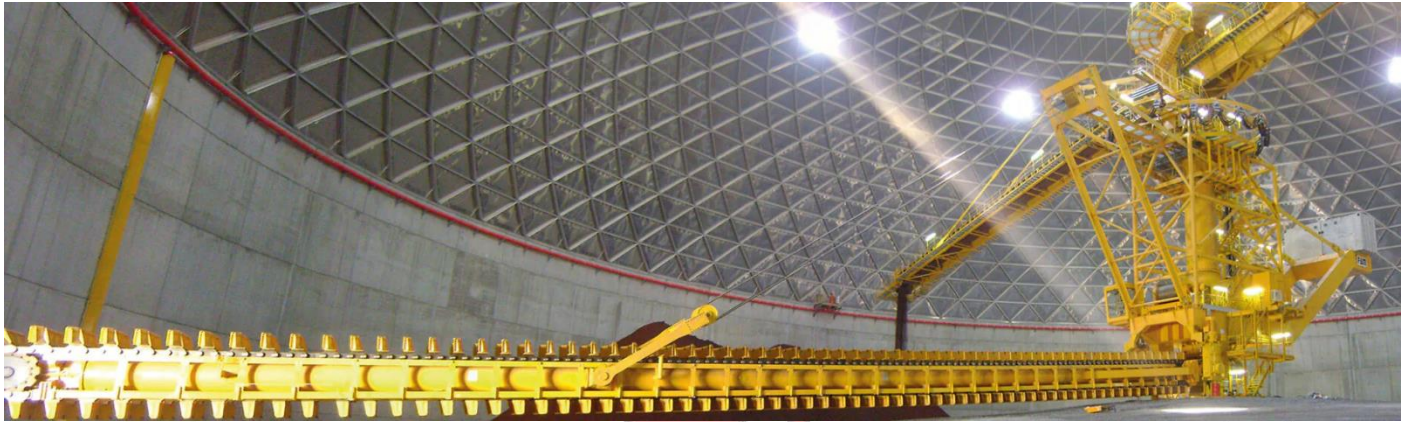


SPROCKET SEGMENTS

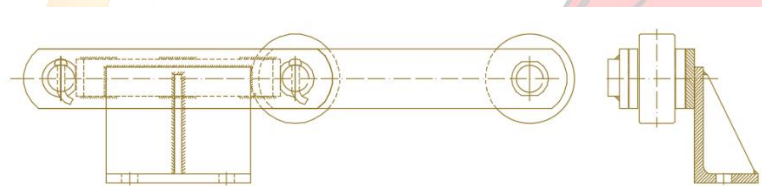


STACKER RECLAIMER CHAIN: We Manufacture Surface Hardened Chains for RECLAIMER used in Cement Plant / Power Plants / Steel / Fertilizer Plants for all types of material handling.

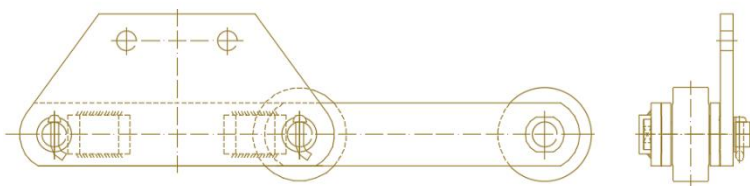
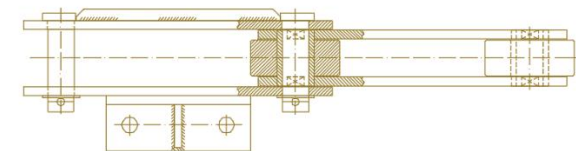
There are no. of types of reclaimers for which we are designing chains + sprocket and scrapper blade as well.



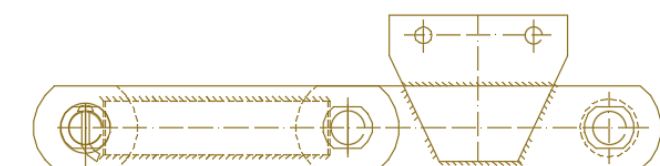
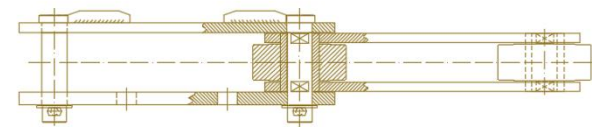
For Different sizes of Reclaimer chains necessary dimensions are required to manufacture the chain. Below are 5 types of chains with required dimensions.



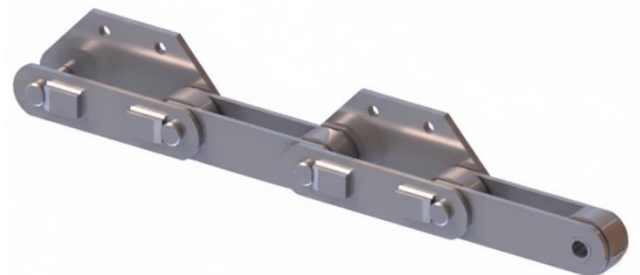
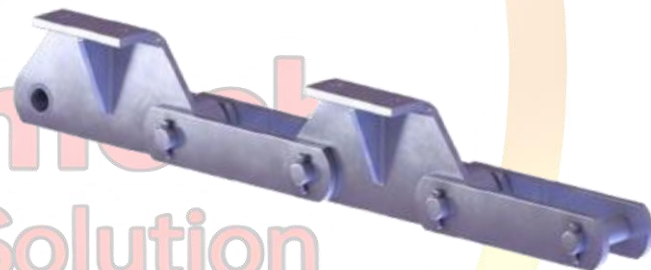
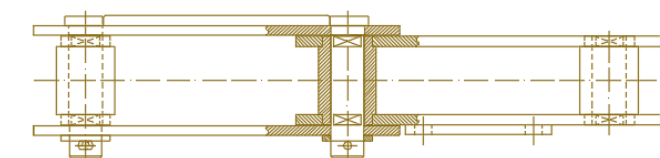
TYPE-1

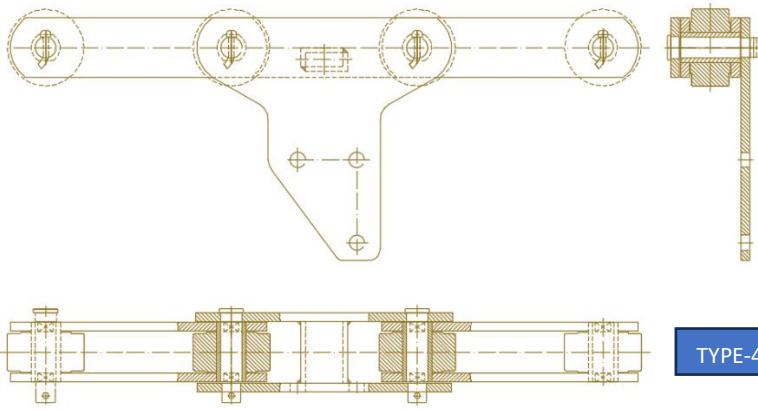


TYPE-2

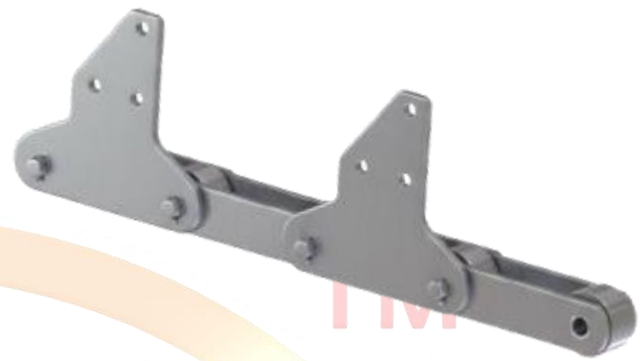


TYPE-3

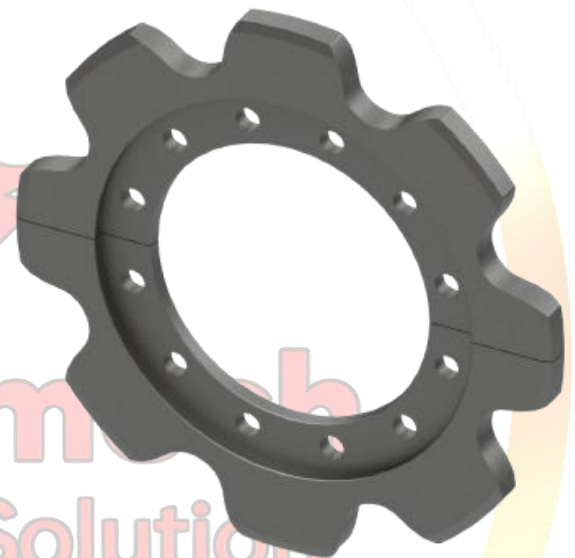




TYPE-4



SCRAPER BLADE



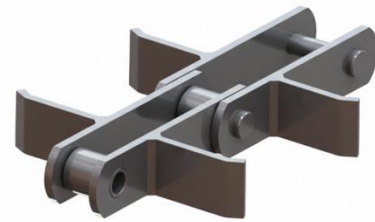
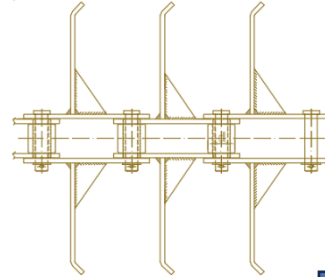
SEGMENTED SPROCKET

FLOW CONVEYOR CHAIN: We manufacture surface-hardened chains for Flow Conveyor used in Cement Plant / Power Plants / Steel / Fertilizer Plants for all types of material handling.

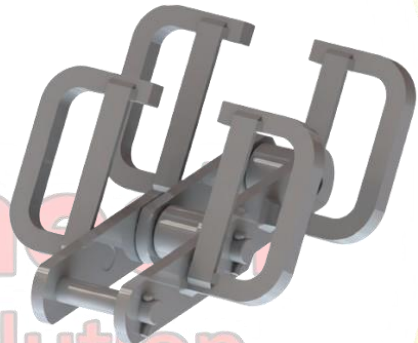


Features and Benefits:

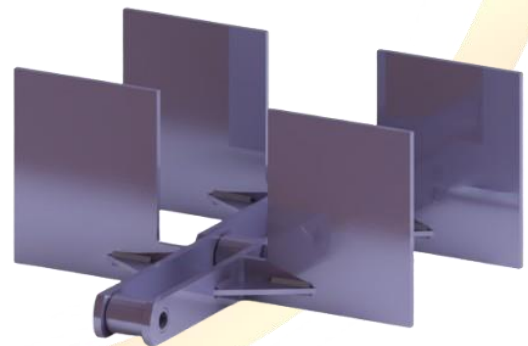
- High durability and wear resistance
- Smooth operation and reduced friction
- Corrosion resistance (for stainless steel chains)
- Compatibility with various conveyor systems
- Customization options for specific applications



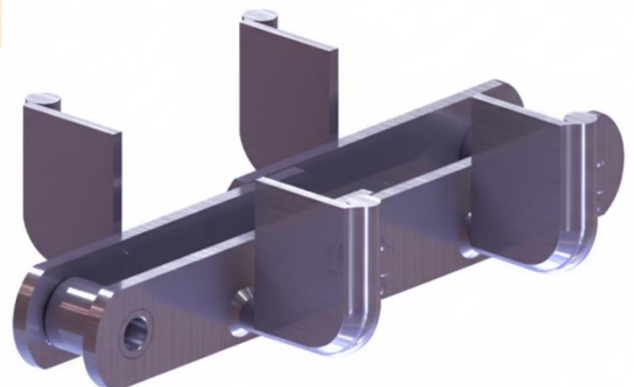
TYPE-1



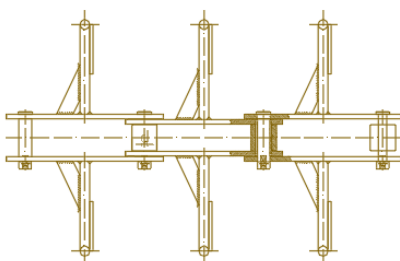
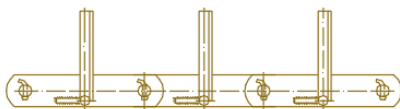
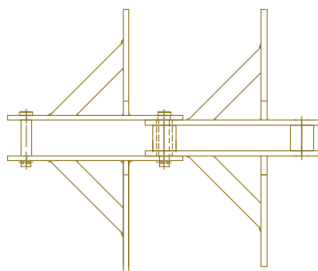
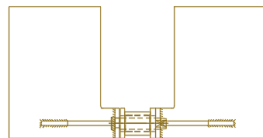
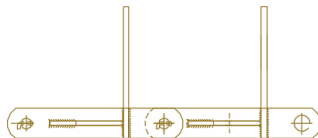
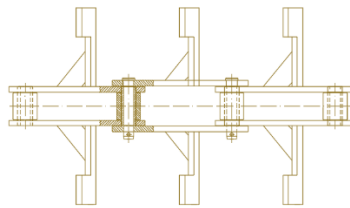
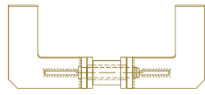
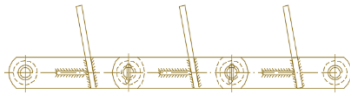
TYPE-2



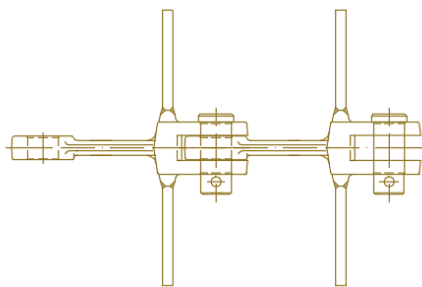
TYPE-3



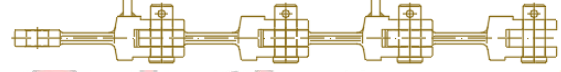
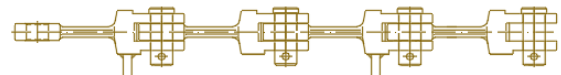
TYPE-4



DRAG CHAIN: We manufacture Surface Hardened Chains for DRAG Chain Conveyors used in Cement Plant / Power Plants / Steel / Fertilizer Plants for all types of material handling.



SINGLE STRAND CHAIN



DOUBLE STRAND CHAIN

STANDARD PITCH'S WE ARE
MANUFACTURING: -

101.6/102MM
142MM
175MM
200MM
216MM
250MM
315MM

Features and Benefits

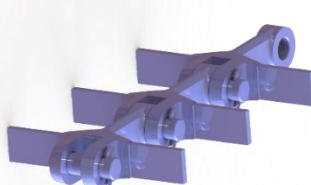
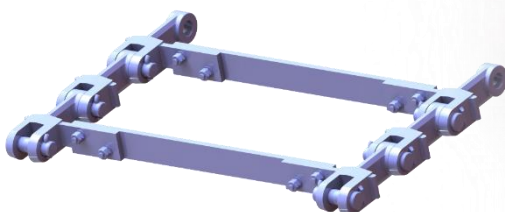
- High durability and wear resistance
- Smooth operation and reduced friction
- Corrosion resistance (for stainless steel chains)
- Compatibility with various conveyor systems
- Customization options for specific applications

DOUBLE STRAND CHAIN

SINGLE STRAND CHAIN

HEAD SPROCKET SEGMENT

TAIL SPROCKET SEGMENT





GLOBAL REACH AND CONTACT

Constromech Engineering Solution has established a strong presence not only across India but also in key international markets including Russia, Africa, Kazakhstan, and Turkey. Our commitment to engineering excellence and reliable solutions has made us a trusted partner worldwide.

Connect With Us

-  **Info@constromech.in**
-  **+91 8815946458**
-  **www.constromechsolution.com**

Head-Quarters

Office – Plot No – 12, street
No. – 8, New Ashish Nagar,
Risali, Bhilai (490006)

Why Choose Constromech?

Proven expertise in bulk material handling solutions
Strong after-sales support and service network
Trusted by leading industries across India & abroad
Focus on quality, innovation, and customer satisfaction

