

Since 60 Years

STANDARD MATERIAL AGENCIES PVT. LTD

One Stop Solution For All Your Engineering Needs..

ENGINEERING PRODUCTS - SUGAR INDUSTRIES

CHAINS:

1. Cane Harvesting Chains:

- Applications: Used in sugarcane harvesters to cut and transport sugarcane from the fields.
- Chain Pitch: Typically ranges from 6 inches to 12 inches.

2. Cane Carrier Chains:

- Applications: Transport chopped sugarcane from the harvester to the sugar mill for processing.
- Chain Pitch: Varies based on the conveyor system, usually between 4 inches to 12 inches.

3. Cane Washing Chains:

- Applications: Used in the washing process to remove dirt and debris from harvested sugarcane.
- Chain Pitch: Typically around 6 inches to 8 inches.

4. Cane Cutting Chains:

- Applications: Employed in cane cutting machines to slice sugarcane into manageable pieces for processing.
- Chain Pitch: Can vary but commonly around 4 inches to 6 inches.

5. Cane Carrier Elevator Chains:

- Applications: Lift and transport sugarcane within the sugar mill, facilitating the processing stages.
- Chain Pitch: Typically ranges from 6 inches to 12 inches.

6. Conveyor Chains:

- Applications: Used in various conveyor systems for transporting sugar cane, sugar beets, or processed sugar within the mill.
- Chain Pitch: Can vary widely depending on the specific conveyor design and requirements.

7. Bagasse Conveyor Chains:

- Applications: Transport bagasse, the fibrous residue left after extracting juice from sugarcane, for further processing or disposal.
- Chain Pitch: Typically around 8 inches to 12 inches.

8. Slat Conveyor Chains:

- Applications: Used in slat conveyors for moving sugar bags or bulk sugar during packaging and transportation.
- Chain Pitch: Varies based on the conveyor design and load requirements.

9. Bucket Elevator Chains:

- Applications: Transport bulk sugar vertically within the sugar mill or processing facility.
- Chain Pitch: Generally larger, around 12 inches to 18 inches or more, depending on the capacity and height of the elevator.

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10. Pan Conveyor Chains:

- Applications: Transport sugar crystals within the sugar processing plant during crystallization and drying stages.
- Chain Pitch: Typically around 6 inches to 8 inches.

11. Apron Feeder Chains:

- Applications: Used to feed bulk materials, such as sugar beets or bagasse, into processing equipment.
- Chain Pitch: Depends on feeder size and capacity, typically between 6 inches to 12 inches.

12. Scraper Chains:

- Applications: Clean conveyor belts or remove debris from equipment in sugar processing plants.
- Chain Pitch: Varies based on the scraper design and application requirements.

13. Crystallizer Chains:

- Applications: Move sugar syrup through crystallization tanks for the formation of sugar crystals.
- Chain Pitch: Typically around 6 inches to 10 inches, depending on the crystallizer design and capacity.

14. Bag Handling Chains:

- Applications: Transport filled sugar bags within the packaging area or warehouse.
- Chain Pitch: Usually smaller, around 3 inches to 6 inches, to accommodate bag sizes and conveyor layouts.

15. Cooling Conveyor Chains:

- Applications: Transport hot sugar products through cooling tunnels or rooms to lower their temperature.
- Chain Pitch: Depends on conveyor speed and product size, typically ranging from 4 inches to 8 inches.

16. Pallet Conveyor Chains:

- Applications: Move palletized sugar products within the warehouse or distribution center.
- Chain Pitch: Varies based on pallet size and conveyor specifications, commonly between 4 inches to 8 inches.

17. Molasses Pump Chains:

- Applications: Drive pumps for transferring molasses within the sugar refinery or storage tanks.
- Chain Pitch: Depends on pump size and application requirements, usually larger, around 10 inches to 16 inches.

18. Screw Conveyor Chains:

- Applications: Transport bulk sugar or granulated sugar products through inclined or vertical screw conveyors.
- Chain Pitch: Depends on the screw conveyor diameter and pitch, typically ranging from 4 inches to 12 inches.

19. Clarifier Chains:

- Applications: Used in clarifiers to separate impurities from sugar juice during the clarification process.
- Chain Pitch: Typically around 8 inches to 12 inches, depending on the clarifier design and capacity.

20. Filter Press Chains:

- Applications: Operate filter presses to remove moisture from sugar mud or filter the juice during processing.
- Chain Pitch: Varies based on the filter press size and capacity, typically between 6 inches to 10 inches.

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SPROCKETS:

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1. Cane Harvesting Sprockets:

- Applications: Used in sugarcane harvesters to drive the chains that cut and transport sugarcane from the fields.
- Number of Teeth: Varies depending on the specific harvester model and chain configuration.

2. Cane Carrier Sprockets:

- Applications: Drive the chains that transport chopped sugarcane from the harvester to the sugar mill for processing.
- Number of Teeth: Typically matched to the pitch and length of the conveyor chain.

3. Cane Washing Sprockets:

- Applications: Drive the chains that move harvested sugarcane through the washing process to remove dirt and debris.
- Number of Teeth: Matched to the pitch of the conveyor chain and the speed of the washing equipment.

4. Cane Cutting Sprockets:

- Applications: Drive the chains that power cane cutting machines to slice sugarcane into manageable pieces.
- Number of Teeth: Matched to the pitch and length of the cutting chain, depending on the machine design.

5. Cane Carrier Elevator Sprockets:

- Applications: Drive the chains that lift and transport sugarcane within the sugar mill, facilitating the processing stages.
- Number of Teeth: Corresponds to the pitch and length of the elevator chain and the lift height.

6. Conveyor Sprockets:

- Applications: Drive the chains in various conveyor systems for transporting sugarcane, sugar beets, or processed sugar within the mill.
- Number of Teeth: Matched to the pitch and length of the conveyor chain, depending on the conveyor design and load requirements.

7. Bagasse Conveyor Sprockets:

- Applications: Drive the chains that transport bagasse (fibrous residue) for further processing or disposal.
- *Number of Teeth:* Matched to the pitch and length of the bagasse conveyor chain, depending on the conveyor design and load requirements.

8. Slat Conveyor Sprockets:

- Applications: Drive the chains in slat conveyors for moving sugar bags or bulk sugar during packaging and transportation.
- *Number of Teeth:* Matched to the pitch and length of the slat conveyor chain, depending on the conveyor design and load requirements.



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9. Bucket Elevator Sprockets:

- Applications: Drive the chains in bucket elevators to vertically transport bulk sugar within the sugar mill or processing facility.
- Number of Teeth: Corresponds to the pitch and length of the elevator chain and the lift height.

10. Pan Conveyor Sprockets:

- Applications: Drive the chains in pan conveyors to transport sugar crystals during crystallization and drying stages.
- *Number of Teeth:* Matched to the pitch and length of the pan conveyor chain, depending on the conveyor design and load requirements.

11. Apron Feeder Sprockets:

- Applications: Drive the chains in apron feeders to feed bulk materials, such as sugar beets or bagasse, into
 processing equipment.
- Number of Teeth: Corresponds to the pitch and length of the feeder chain and the feeder size.

12. Scraper Sprockets:

- Applications: Drive the chains in scraper conveyors to clean conveyor belts or remove debris from equipment in sugar processing plants.
- *Number of Teeth:* Matched to the pitch and length of the scraper chain, depending on the conveyor design and application requirements.

13. Crystallizer Sprockets:

- Applications: Drive the chains in crystallizers to move sugar syrup through tanks for the formation of sugar crystals.
- Number of Teeth: Matched to the pitch and length of the crystallizer chain, depending on the crystallizer design and capacity.

14. Bag Handling Sprockets:

- Applications: Drive the chains in bag handling systems to transport filled sugar bags within the packaging area or warehouse.
- *Number of Teeth:* Matched to the pitch and length of the bag handling chain, depending on the conveyor design and load requirements.

15. Cooling Conveyor Sprockets:

- Applications: Drive the chains in cooling conveyors to transport hot sugar products through cooling tunnels or rooms.
- *Number of Teeth:* Matched to the pitch and length of the cooling conveyor chain, depending on the conveyor speed and product size.



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16. Pallet Conveyor Sprockets:

- Applications: Drive the chains in pallet conveyors to move palletized sugar products within the warehouse or distribution center.
- *Number of Teeth:* Matched to the pitch and length of the pallet conveyor chain, depending on the pallet size and conveyor specifications.

17. Molasses Pump Sprockets:

- Applications: Drive the chains in pumps for transferring molasses within the sugar refinery or storage tanks.
- *Number of Teeth:* Matched to the pitch and length of the pump chain, depending on the pump size and application requirements.

18. Screw Conveyor Sprockets:

- Applications: Drive the chains in screw conveyors to transport bulk sugar or granulated sugar products through inclined or vertical conveyors.
- Number of Teeth: Corresponds to the pitch and length of the screw conveyor chain and the screw diameter.

19. Clarifier Sprockets:

- Applications: Drive the chains in clarifiers to separate impurities from sugar juice during the clarification process.
- *Number of Teeth:* Matched to the pitch and length of the clarifier chain, depending on the clarifier design and capacity.

20. Filter Press Sprockets:

- Applications: Drive the chains in filter presses to remove moisture from sugar mud or filter the juice during processing.
- *Number of Teeth:* Matched to the pitch and length of the filter press chain, depending on the filter press size and capacity.



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PULLEYS:

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1. Drive Pulleys:

• Applications: These pulleys are connected to the drive motor and transmit power to conveyor belts or chains used in various sugar processing equipment such as conveyors, elevators, and crushers.

2. Conveyor Tail Pulleys:

• Applications: Located at the opposite end of the drive pulleys, conveyor tail pulleys provide tension to the return side of conveyor belts and help maintain proper belt tracking.

3. Take-Up Pulleys:

• Applications: Take-up pulleys are used to adjust and maintain the tension of conveyor belts, ensuring proper belt alignment and preventing slippage.

4. Snub Pulleys:

• Applications: Snub pulleys are positioned to increase the wrap angle of conveyor belts around drive and tail pulleys, enhancing traction and reducing belt slipping.

5. Bend Pulleys:

• Applications: Bend pulleys are used to redirect conveyor belts around corners or obstacles, maintaining proper belt tension and preventing belt damage.

6. Idler Pulleys:

• Applications: Idler pulleys support and guide conveyor belts along their path, reducing friction and wear on the belts and providing additional belt support.

7. Deflection Pulleys:

• Applications: Deflection pulleys are used to change the direction of belts or chains in sugar processing equipment such as bagasse conveyors and sugar bag handling systems.

8. Crusher Pulleys:

• Applications: Crusher pulleys are used in sugar cane crushers to transmit power from motors to crusher rollers, facilitating the crushing of sugarcane to extract juice.

9. Mixer Pulleys:

• Applications: Mixer pulleys are used in sugar processing equipment such as mixers and blenders to agitate and mix sugar with other ingredients or additives.

10. Centrifuge Pulleys:

• Applications: Centrifuge pulleys are used in sugar centrifuges to rotate the centrifuge basket or drum at high speeds, separating sugar crystals from molasses.



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11. Dryer Pulleys:

• Applications: Dryer pulleys are used in sugar processing equipment such as rotary dryers to rotate drying drums or cylinders, removing moisture from sugar products.

12. Cooler Pulleys:

 Applications: Cooler pulleys are used in sugar processing equipment such as sugar coolers to rotate cooling drums or cylinders, lowering the temperature of sugar products.

13. Bagging Machine Pulleys:

• Applications: Bagging machine pulleys are used in sugar packaging equipment to drive conveyor belts or chains that transport sugar bags for filling and sealing.

14. Weighing Scale Pulleys:

• Applications: Weighing scale pulleys are used in sugar packaging lines to drive conveyor belts or chains that transport sugar bags to weighing scales for accurate measurement.

15. Labeling Machine Pulleys:

• Applications: Labeling machine pulleys are used in sugar packaging lines to drive conveyor belts or chains that transport labeled sugar bags for packaging and distribution.

16. Palletizing Machine Pulleys:

• Applications: Palletizing machine pulleys are used in sugar packaging lines to drive conveyor belts or chains that transport palletized sugar bags for storage or transportation.

17. Wrapper Machine Pulleys:

• Applications: Wrapper machine pulleys are used in sugar packaging lines to drive conveyor belts or chains that transport wrapped sugar bags for palletizing and shipping.

18. Carton Sealing Machine Pulleys:

• Applications: Carton sealing machine pulleys are used in sugar packaging lines to drive conveyor belts or chains that transport cartons of sugar bags for sealing and palletizing.

19. Bulk Sugar Loading Pulleys:

• Applications: Bulk sugar loading pulleys are used in sugar terminals and ports to drive conveyor belts or chains that load bulk sugar onto ships or trucks for transportation.

20. Bulk Sugar Unloading Pulleys:

• Applications: Bulk sugar unloading pulleys are used in sugar terminals and ports to drive conveyor belts or chains that unload bulk sugar from ships or trucks for storage or processing.

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