

ENGINEERING PRODUCTS - DAIRY INDUSTRIES

CHAINS:

1. Conveyor Chains:

- Applications: Transporting milk products, containers, and packaging materials through different stages of dairy processing, including pasteurization, filling, and packaging.
- Pitch Size: Varies based on conveyor design and load requirements.

2. Roller Chains:

- Applications: Used in machinery for milk processing, such as pumps, homogenizers, and separators.
- Pitch Size: ANSI standards like ANSI 40, ANSI 50, ANSI 60, ANSI 80, etc., depending on load and speed requirements.

3. Plastic Chains:

- Applications: Ideal for hygiene-sensitive areas due to corrosion resistance and ease of cleaning. Commonly used in conveyor systems for dairy products.
- Pitch Size: Depends on specific application and conveyor design.

4. Slat Chains:

- Applications: Transporting crates, bottles, and containers of dairy products.
- Pitch Size: Variable based on conveyor design and load requirements.

5. Bottle Conveyor Chains:

- Applications: Designed for conveying bottles in dairy filling and packaging lines.
- Pitch Size: Customized according to bottle size and conveyor specifications.

6. Milk Crate Chains:

- Applications: Transporting milk crates within dairy processing plants.
- Pitch Size: Typically standardized to fit standard milk crate dimensions.

7. Bucket Elevator Chains:

- Applications: Lifting and transporting bulk materials like powdered milk, grains, or ingredients.
- Pitch Size: Customized based on elevator system capacity and height requirements.

8. Trolley Chains:

- Applications: Overhead conveyor systems for transporting dairy products or processing equipment.
- Pitch Size: Determined by conveyor system design and load capacity.

9. Leaf Chains:

- Applications: Used in dairy equipment like cheese presses and cheese vats.
- Pitch Size: Depends on equipment design and load requirements.

10. Attachment Chains:

- Applications: Customized for specific dairy processing tasks such as bottling, packaging, or conveying.
- Pitch Size: Variable based on attachment configuration and application requirements.

11. Link Chains:

- Applications: Various general-purpose applications within dairy processing equipment.
- Pitch Size: Determined by equipment design and load requirements.

12. Drive Chains:

- Applications: Transmitting power within dairy processing machinery like mixers and agitators.
- Pitch Size: ANSI standard sizes based on load and speed requirements.

13. Conveyor Roller Chains:

- Applications: Used in conveyor systems for dairy products and packaging materials.
- Pitch Size: Depends on conveyor system design and load specifications.

14. Engineering Class Chains:

- Applications: Heavy-duty applications such as conveying bulk materials or supporting heavy loads.
- Pitch Size: Customized based on application and load requirements.

15. Wire Chains:

- Applications: Used in dairy processing equipment for conveying or lifting operations.
- Pitch Size: Determined by equipment design and load specifications.

16. Cable Chains:

- Applications: Protecting and guiding cables and hoses in dairy processing machinery.
- Pitch Size: Customized based on cable diameter and equipment specifications.

**ROLLER CHAIN****PLASTIC ROLLER CHAIN**

SPROCKETS:

1. Drive Sprockets:

- Applications: Transmitting power from motors to various components such as conveyor belts, pumps, and agitators in dairy processing equipment.
- Number of Teeth: Varies widely depending on the equipment and speed ratio required.

2. Conveyor Sprockets:

- Applications: Driving conveyor chains used for transporting dairy products, containers, and packaging materials through different stages of processing.
- Number of Teeth: Typically matches the pitch of the conveyor chain and varies based on chain size and conveyor speed.

3. Roller Chain Sprockets:

- Applications: Used in conjunction with roller chains for driving various components in dairy processing machinery, such as pumps, mixers, and separators.
- Number of Teeth: Determined by the pitch of the roller chain and the desired speed ratio.

4. Bucket Elevator Sprockets:

- Applications: Driving chains used in bucket elevators for lifting bulk materials like powdered milk, grains, or ingredients.
- Number of Teeth: Matches the pitch of the elevator chain and varies based on elevator capacity and speed requirements.

5. Trolley Sprockets:

- Applications: Used in overhead conveyor systems for transporting dairy products or processing equipment.
- Number of Teeth: Depends on the pitch of the trolley chain and the design of the conveyor system.

6. Leaf Chain Sprockets:

- Applications: Used in equipment like cheese presses and cheese vats within dairy processing plants.
- Number of Teeth: Matches the pitch of the leaf chain and varies based on equipment design and load requirements.

7. Attachment Sprockets:

- Applications: Used with attachment chains for specialized tasks such as bottling, packaging, or conveying in dairy processing equipment.
- Number of Teeth: Varies based on attachment configuration and application requirements.

8. Idler Sprockets:

- Applications: Providing tension and guiding chains in dairy processing equipment, particularly in conveyor systems.
- Number of Teeth: Typically fewer teeth than drive sprockets, designed to maintain tension and alignment of chains.

9. Specialty Sprockets:

- Applications: Customized sprockets designed for specific equipment or processes within dairy processing plants.
- Number of Teeth: Variable, tailored to the unique requirements of the equipment or application.

**PLASTIC SPROCKET****SPROCKET**

PULLEYS:

1. Drive Pulleys:

- Applications: Transmitting power from motors to various components such as pumps, mixers, and agitators in dairy processing equipment.

2. Conveyor Pulleys:

- Applications: Providing support and direction for conveyor belts used in transporting dairy products, containers, and packaging materials through different processing stages

3. Idler Pulleys:

- Applications: Supporting and guiding conveyor belts in dairy processing equipment, maintaining tension and alignment.

4. Tensioner Pulleys:

- Applications: Maintaining tension in conveyor belts or other systems within dairy processing equipment to prevent slippage and ensure proper operation.

5. Deflector Pulleys:

- Applications: Redirecting the path of conveyor belts or other moving components within dairy processing machinery to optimize material flow and efficiency.

6. Diverting Pulleys:

- Applications: Diverting or sorting dairy products or containers onto different conveyor lines or processing routes within a dairy processing plant.

7. Take-Up Pulleys:

- Applications: Adjusting and maintaining proper tension in conveyor belts or chains to accommodate changes in load or length.

8. Snub Pulleys:

- Applications: Increasing the wrap angle of conveyor belts or chains around drive or tail pulleys to improve traction and reduce slippage.

9. Wing Pulleys:

- Applications: Providing enhanced belt tracking and stability in conveyor systems by creating additional contact points for the belt.

10. Tail Pulleys:

- Applications: Providing a point of discharge for conveyor belts, guiding them away from processing equipment or into packaging areas.

11. Crowned Pulleys:

- Applications: Used in conveyor systems to center belts and prevent tracking issues, ensuring smooth operation and reducing wear.

12. Guide Pulleys:

- Applications: Guiding and supporting cables or hoses in dairy processing machinery, maintaining proper alignment and preventing kinks or damage.

13. Variable Speed Pulleys:

- Applications: Allowing for adjustable speed control in machinery such as mixers, pumps, or conveyors to accommodate different processing requirements.

14. Timing Pulleys:

- Applications: Synchronizing the motion of components in dairy processing equipment, such as timing belts used in pumps or filling machines.

15. Sheaves:

- Applications: Transmitting power between rotating shafts using belts or ropes, commonly found in machinery such as pumps and compressors in dairy processing plants.

16. V-Belt Pulleys:

- Applications: Used with V-belts to transmit power between shafts, providing efficient power transmission in dairy processing equipment.

17. Flat Belt Pulleys:

- Applications: Providing power transmission using flat belts in dairy processing machinery, such as agitators, conveyors, and separators.

18. Wire Rope Pulleys:

- Applications: Used for lifting heavy loads or providing mechanical advantage in dairy processing equipment, such as overhead hoists or pulley systems.

19. Rope Pulleys:

- Applications: Providing mechanical advantage or direction change for ropes or cables in dairy processing machinery, such as hoists or pulley systems.

20. Centrifugal Pulleys:

- Applications: Utilized in equipment such as cream separators to separate components based on their density using centrifugal force.

21. Synchronous Pulleys:

- Applications: Providing precise timing and synchronization of motion in dairy processing equipment, often used with timing belts for accurate positioning.

22. Motorized Pulleys:

- Applications: Integrating the motor directly into the pulley, providing compact and efficient power transmission in various dairy processing equipment.

23. Adjustable Pulleys:

- Applications: Allowing for on-the-fly adjustment of belt tension or speed in dairy processing machinery, providing flexibility and control.

24. Pulleys with Flanges:

- Applications: Preventing belt slippage or misalignment in dairy processing equipment by providing additional support and guidance.

25. Self-Cleaning Pulleys:

- Applications: Minimizing material buildup and reducing maintenance requirements in dairy processing conveyor systems, ensuring continuous operation and hygiene.

26. Overhead Pulleys:

- Applications: Supporting and guiding cables or hoses in overhead conveyor systems for transporting dairy products or processing equipment.

27. Non-Metallic Pulleys:

- Applications: Providing corrosion resistance and reduced friction in dairy processing equipment, particularly in hygiene-sensitive areas.

28. Specialty Pulleys:

- Applications: Custom-designed or specialized pulleys tailored to specific equipment or processing needs within dairy processing plants.



PULLEYS AND TIMING BELT PULLEYS