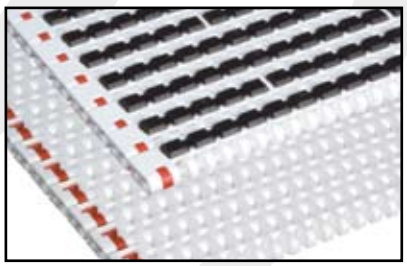
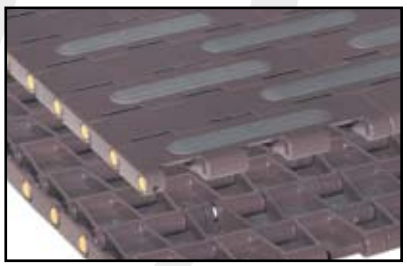
Rexnord® Solutions for Incline and Decline Conveying

in Package and Material Handling









REXNORD® MCC® MARBETT®

REXNORD
PRECISION. POWER. PERFORMANCE.

REXNORD® IS YOUR PARTNER TO SIGNIFICANTLY LOWER OP



REXNORD® RUBBERTOP™ CHAIN BENEFITS

Rexnord® MatTop® Chains for incline and decline conveying, with patented dynamic transfer technology, offer unique benefits over conventional rubberized belting or roller conveyors.

- Tapered high-friction RubberTop surface integrally molded into link for long-lasting, superior grip
- Modular MatTop Chain design reduces product handling damage and maintains product placement, eliminating skewing and line jams.
- Eliminates belt tracking issues and costly splicing operation
- Patented self-clearing nose-over technology improves efficiency of transfers between conveyor sections, eliminating stranded products
- Maintenance of modular MatTop Chain significantly lower than comparable conveying technologies
- Dramatically reduces inventory levels of conveyor components, e.g. rollers, drag chains, belts, o-rings
- Superior sprocket and chain interaction extends chain life and lowers total cost of ownership
- Lower energy use and product cradling support sustainability improvements
- Modular MatTop Chain design makes installation and future upgrades quick and easy

In manufacturing plants, as well as warehouse and distribution centers around the world, space considerations and product handling efficiencies are key to improving productivity. Transporting products using incline and decline conveyor systems becomes especially critical in plants and distribution centers where packages must move rapidly and securely between levels to palletizers or storage placements with minimal use of floor space and without obstructions or tracking problems.

LOWER OPERATIONAL COSTS INCREASE PRODUCTIVITY

That's why Rexnord® has engineered conveying solutions specifically designed to efficiently move products between two different elevations while maintaining optimal pack spacing, orientation and speed. Capable of moving even the heaviest packages between a mezzanine and floor level, docks, overhead conveyor to floor applications, or other areas where products must be conveyed at an angle, Rexnord offers a complete range of specially designed high-impact rubbertop conveying chains with superior gripping action that reduce product tracking issues, slippage, and skewing.



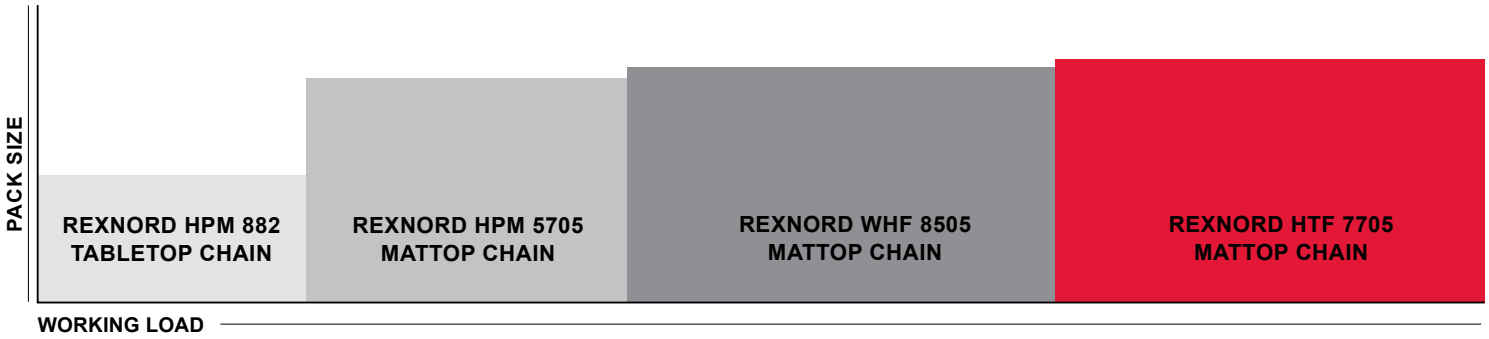
REXNORD

With over 120 years of experience, Rexnord has the industry's most knowledgeable team of conveying experts. Our chains are manufactured to perform better and last longer. Every chain stamped with the Rexnord® brand has undergone extensive research and quality testing, ensuring your conveying needs will be met with the most economical, efficient, and reliable means possible. Our qualified engineering staff is willing and able to assist you on all of your application needs.

ERATIONAL COSTS AND INCREASE PRODUCTIVITY.

Rexnord® RubberTop™ MatTop® Chain for Every Load and Package Size

Rexnord's full range of TableTop® and MatTop® RubberTop™ Chains are designed with the carrying capacity, strength, and gripping power you need to convey the widest variety of packages and products on any angle, from 2° to 30° degrees, including side-flexing applications. To ensure efficient transfers between conveyors with smooth product flow, Rexnord DTS® DynamicTransfer System™ technology with inline self-clearing nose-over bar makes larger loads and longer conveying runs possible while eliminating or minimizing deadplates.



REXNORD® HPM 882 TABLETOP® CHAIN



- Rexnord side-flexing TableTop Chain for incline and decline applications with a woking load of 625 lb/ft
- Molded-in High Friction inserts
- Dome Style insert ideal for case turning or case orientation
- Molded-to-width HP® High Performance chain for superior chain life and durability

REXNORD® HTM / HPM 5705 MATTOP® CHAIN



- 1.5 inch pitch modular MatTop Chain design accommadates a wide variety of packages in incline and decline applications
- Working load: HPM 1,200 lb/ft, HTM 600 lb/ft
- Molded-in High Friction inserts combined with HP® High Performance (HPM) or HT High Temperature (HTM) chain material
- Choice of Insert Styles. Dome Style or Flat Style for maximum elevation capacity

REXNORD® WHF 8505 MATTOP® CHAIN

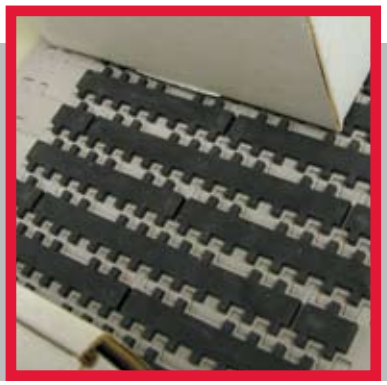


- ¾ inch pitch RubberTop chain with good working load capacity 920 lb/ft
- Used with 1-1/8 inch Dynamic Nose-over Bar for easy, efficient, self-clearing inline transfers
- Capable of inclines up to 30°
- Flexible modular MatTop Chain design accommodates diverse package sizes

REXNORD® HTF / TCF 7705 MATTOP® CHAIN



- 1 inch pitch industry-leading heavy duty RubberTop chain with high working load TCF 2,200 lb/ft
- Capable of inclines up to 30°
- Available in Rexnord (TCF) Tough Composite Friction Top and (HTF) High Temperature Friction Top materials









Rexnord® HPM 882 TableTop® Chain

Rexnord's high friction side-flexing 882 TableTop chain with molded inserts is ideal for incline and decline applications where floor space constraints make curved conveyor design a requirement. The Rexnord HPM 882 TableTop Chain is molded in High Performance HP™ material with Dome Style High friction inserts ideal for case turning or case orientation. The High Friction inserts are molded directly into the link, providing outstanding gripping capacity and durability on incline/decline angles of up to 30°

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Rexnord 882 TableTop Chain Features:

- 1.50 inch chain pitch
- Chain widths: 4-1/2", 7-1/2", 10", 12"
- 24 inch side-flex radius
- FDA approved materials
- Chain strength: 625 lb/ft (2,780 N/m)
- Chain weight: 1.94 lb/ft^2
- Pusher attachments available
- Nylatron corner tracks available (2 or 4 piece)
- Stainless steel or thermoplastic pins available

Design Considerations:

- Allow at least 2 ft of straight at the drive end for a catenary. The catenary will accommodate the excess chain without the use of a take-up
- Allow at least 6 inches of straight between the idler end and the first curve
- Elevation changes should be done in the straights. Curves should be horizantal and level
- Returning the chain by the TABs is recommended. Roller returns may cause excessive chain bounce and noise

DID YOU KNOW? - SIGNIFICANTLY REDUCE MAINTENANCE TIME AND SPARE PARTS INVENTORY

To maintain uptime in a facility, plants typically carry a full line length of flat belt in inventory. Flat belts require up to five hours for splicing and replacement. By comparison, Rexnord MatTop Chains are easy to maintain. We recommend keeping only 10% of installed length on the shelves. Modules assembled with quick-release TwistLock® pin retention system are easily accessible, so maintenance on a damaged link takes minutes…not hours.

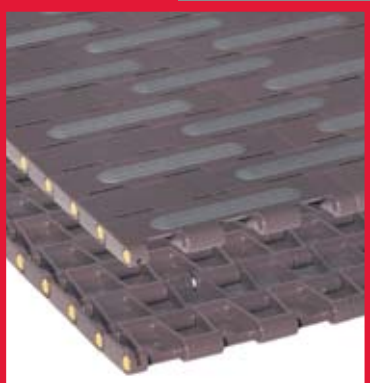
BERTOP™

LATION AND MAINTENANCE

with Rexnord® modular MatTop® Chain
for package and material handling

Rexnord® HPM 5705 MatTop® Chain

Rexnord's High Performance HP™ 5705 MatTop Chain with molded inserts is ideal for gradual incline and decline applications where package orientation and tracking are important. The Rexnord HPM 5705 MatTop Chain is molded in High Performance HP™ chain material for durability and long wear life and is available with either Dome or Flat Style inserts. Dome style inserts are ideal for package turning. Flat style inserts are useful for steeper elevation applications.

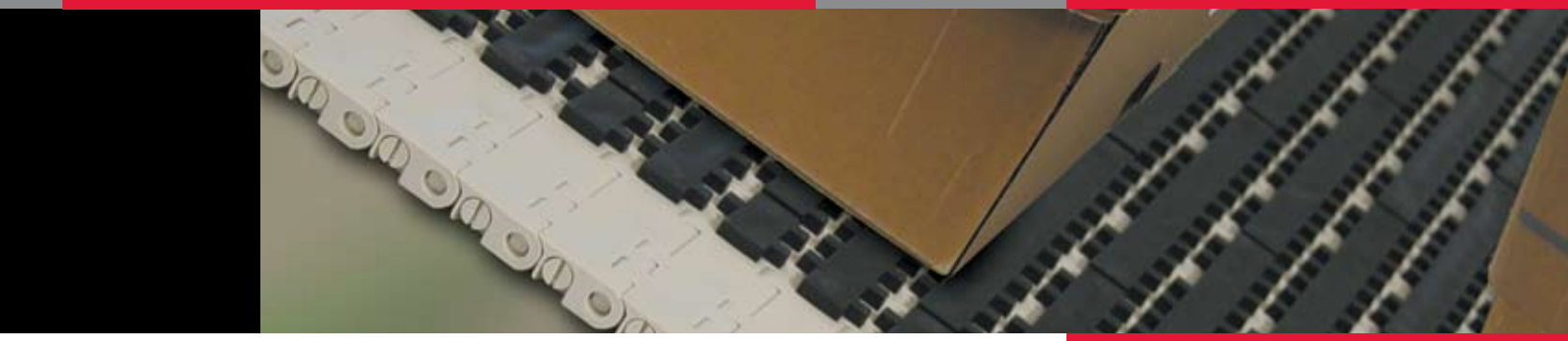


Rexnord 5705 MatTop Chain Features:

- 1.50 inch pitch
- Rexnord DTS® efficient transfer available
- Widths from 6 inches and up
- Numerous sprocket options
- Two rubber profiles available:
  - Dome (90 Shore A)
  - Flat (60 Shore A)
- Product Strength:
  - HPM: 1200 lb/ft (17,508 N/m)
  - HTM: 600 lb/ft (8,754 N/m)
- Chain weight:
  - HPM: 1.86 lb/ft^2
  - HTM: 1.26 lb/ft^2
- FDA approved materials
- Polyester or SS pins available
- Pusher attachments available

Design Considerations:

- The catenary will always form at the bottom on decline conveyors
- For incline conveyors, It is suggested that the conveyor be designed so that the catenary can form at the bottom or the top
- For roller return, min. roller diameter of 2 inches is recommended
- For sliding return, use only the outer 1/2 inch edges of the chain (without the friction surface)
- 2 sprockets per foot of chain width is required for up to 25% chain capacity
- 4 sprockets per foot of chain width is required for up to 75% chain capacity
- 6 sprockets per foot of chain width is required for up to 100% chain capacity
- 135° of chain wrap is recommended when using the dynamic nose-over bar



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Rexnord® WHF 8505 MatTop® Chain

Rexnord® medium-duty White High Friction WHF 8505 RubberTop MatTop Chain combines the high working load of a ¾ inch pitch MatTop chain with highly efficient inline self-clearing Nose-over Bar Transfer technology for high speed, secure package handling even on steep inclines and declines. When used with Rexnord's 1-/8 inch Nose-over Bar, larger loads and longer conveyor runs are possible with minimal or no deadplates required. Capable of incline angles of up to 30°, Rexnord WHF 8505 RubberTop MatTop chain maintains pack spacing and prevents package skewing during conveyor transfers.



Rexnord Dynamic Nose-over Bar

Rexnord 8505 MatTop Chain Features:

- 0.75 inch pitch
- Several material options available for different applications (WHF, HTF, KHF)
- 1-1/8" nose-bar for efficient transfers (2" CL to CL transfer)
- Combines nose-over transfer and strength for steep inclines
- Hold down TAB available
- Chain strength = 920 lb/ft (13,426 N/m)
- Strength scalable by width (e.g. 1 ft wide = 900 lb, 2 ft wide = 1,800 lb)
- Chain weight = 1.38 lb/ft^2
- Widths from 2-2/3" and up
- RubberTop durometer: 50 Shore A
- FDA approved material
- Three pin options available (SS, polyester, polypropylene)
- Pusher attachments available

Design Considerations:

- The catenary will always form at the bottom on decline conveyors
- For incline conveyors, the catenary may form at the top or the bottom depending on the incline angle. It is suggested that the conveyor be designed so that the catenary can form at the bottom or the top
- For roller return, min. roller diameter of 3 inches is recommended
- For sliding return, use only the outer 1 inch edges of the chain (without the friction surface)
- 2 sprockets per foot of chain width is required for up to 50% of chain capacity
- 4 sprockets per foot of chain width is required for up to 100% of chain capacity

DID YOU KNOW? - INCREASE THROUGHPUT BY 1,500,000 PACKAGES PER YEAR

Did you know that at a throughput rate of 300 cartons per minute, Rexnord MatTop Chain can improve your facility throughput by over 1,500,000 packages per year with labor hours saved from reduced downtime? From these additional revenues alone, payback of your Rexnord MatTop conveyor investment is returned in just a few months.

BERTOP™

DUCTIVITY WITH LESS COST AND DOWNTIME

with Rexnord® modular MatTop® Chain for package and material handling

Rexnord® TCF 7705 MatTop® Chain

Rexnord® heavy-duty Tough Composite Friction 7705 RubberTop MatTop Chain with I inch pitch strength and unmatched wear resistance stands up to rugged, abusive package and material handling applications and the heaviest loads. Rexnord TCF and High Temperature Friction HTF 7705 RubberTop chains combine high strength, low friction links with durable, non-marking urethane pads to move even the heaviest packages, boxes and large products up incline and decline angles of 30° or more. Rexnord's rugged drive design with superior chain-sprocket interaction means belt slippage and tracking problems are eliminated, even at high speeds and working loads.

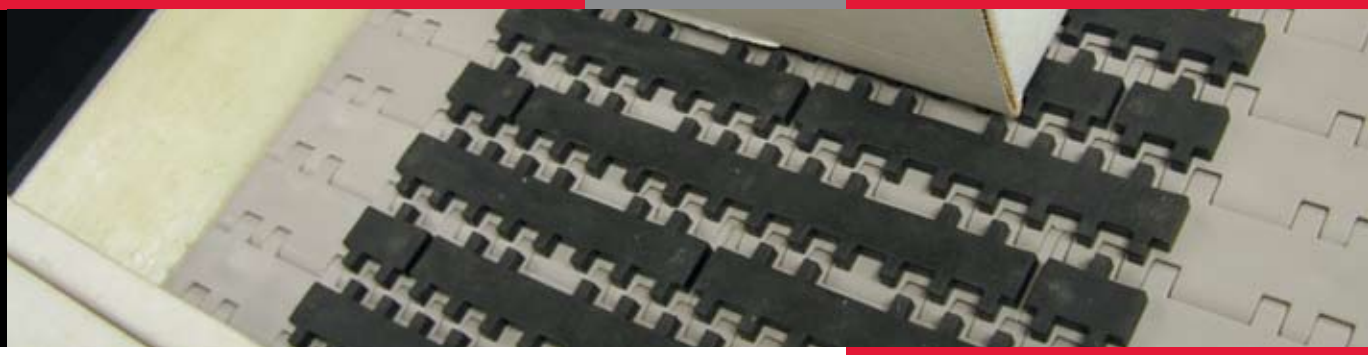


Rexnord 7705 MatTop Chain Features:

- 1.0 inch pitch
- Rexnord MatTop Chain has a belt-like surface that handles inclines up to 30°
- Widths from 9 inches and up
- Highest strength RubberTop MatTop Chain on the market
- Maximized RubberTop surface area for heaviest load carrying capacity
- Product Strength:
  - TCF: 2,200 lb/ft (32,098 N/m)
  - HTF: 1,800 lb/ft (26,262 N/m)
- Chain weight:
  - TCF: 2.63 lb/ft^2
  - HTF: 2.17 lb/ft^2
- RubberTop durometer: 50 Shore A
- FDA approved materials
- Three pin materials available (acetal, polypropylene and SS)

Design Considerations:

- The catenary will always form at the bottom on decline conveyors
- For incline conveyors, it is suggested that the conveyor be designed so that the catenary can form at the bottom or the top
- For roller return, min. roller diameter of 2 inches is recommended
- For sliding return, use only the outer 2 inch edges of the chain (without the friction surface)
- 2 sprockets per foot of chain width is required for up to 50% chain capacity
- 4 sprockets per foot of chain width is required for up to 100% chain capacity



World Class Customer Service

For more than 100 years, the dedicated people of Rexnord have delivered excellence in quality and service to our customers around the globe. Rexnord is a trusted name when it comes to providing skillfully engineered products that improve productivity and efficiency for industrial applications worldwide. We are committed to exceeding customer expectations in every area of our business: product design, application engineering, operations, and customer service.

Because of our customer focus, we are able to thoroughly understand the needs of your business and have the resources available to work closely with you to reduce maintenance costs, eliminate redundant inventories and prevent equipment down time.

Rexnord represents the most comprehensive portfolio of power transmission and conveying components in the world with the brands you know and trust.

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