

# CORPORATE CATALOGUE



**CONNEXUS**  
INDUSTRIES INC  
Chain & Industrial Manufactured Solutions





**LANGLEY, BRITISH COLUMBIA**



**SAINT-ROMUALD, QUEBEC**



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Branches .....	2
Table of Contents .....	3
About Us .....	4
Connexus Brands .....	5
Chain Line-up .....	6
Sharp Top Chains™ .....	7
Connexus - I'anco Cast Chains .....	8
Connexus - I'anco Products .....	9
Connexus Chains .....	10 - 11
Connexus Lasers .....	12 - 13
Connexus Non-Metallic Chains .....	14
Metal Detectors .....	15
Lazer Tracker .....	16
Environmental .....	17 - 19



Our history stems back to the late 1920s when our oldest company was founded on the West Coast. l'Anco (eye-ann-co) was started in 1927 as a pattern shop and the foundry started producing equipment for the logging industry in 1935. The l'Anco cast alloy chains are still preferred more than 80 years later.

Lacey Harmer's roots can be traced back to 1935 when it started supplying equipment to the logging industry. During the early 1980s Lacey Harmer designed and introduced the world to Sharp Top Chain™ with the Summit® product range, still the most respected chain in the lumber industry.

Viking Chains started in the early 1990s supplying good quality chains to various industries including Wastewater Treatment. Its presence can still be seen today where it is specified by most end-users in North America who require good quality and reliable non-metallic chains.

Lazer Blazer was introduced to the North American market and became the industrial guided line lasers market leader within three years. The range was expanded with Laharco, Lasalign and Lazer Tracker since then. Our lasers are used from the lumber industry to the food industry to provide cut lines for the optimum processing of raw materials.

Metal detectors are essential to the lumber industry. The industry relies on our MetalShark metal detectors with German engineering and North American support to protect equipment, production, and the safety of operating staff.

Connexus Industries are harnessing our history approaching a hundred years by combining the simplicity of chains with the complexity of lasers and digital metal detectors to provide products our clients have relied on for decades. We are working hard to live up to your expectations and want to remain your partner of choice.



### Rudi Pieterse

President & General Manager  
Connexus Industries



These products are all exclusively manufactured for or by Connexus Industries

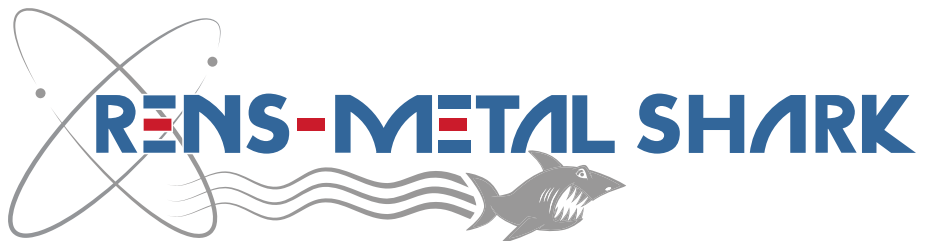
## CHAIN



## LASER PRODUCTS



## METAL DETECTION



## ENVIRONMENTAL







### STAINLESS STEEL CHAIN

Designed for food applications and in areas where wash-down, steam, and chemicals are prevalent.



### DRAG CHAIN

Provide efficient means to convey sawdust, chips or bark dust. Long run life in slow speed applications.



### 81X ENGINEERING CLASS CHAIN

Generally used for slow to moderate speed drives and conveyor applications. Common attachments include bullnose UHMW, plastic caps, camelbacks, trimmer lugs and pusher lugs.



### AGRICULTURAL CLASS CHAIN

Designed to withstand the harsh environment of the agriculture industry. Long lasting, with less maintenance.



### DOUBLE FLEX CHAIN

Designed for conveying applications where bend radius is required for material flow change of direction.



### SHARP TOP CHAIN®

Excellent solution to increase feed speeds. Available in numerous tooth profile designs. Number one choice of original equipment manufacturers.



### LEAF CHAIN

Leaf chain is used for applications that require strong flexible linkage for transmitting motion or lift.



### POWER TRANSMISSION CHAIN

Designed to provide a flexible means of power transmission. Available in both offset and straight sidebar configuration.



### WELDED STEEL MILL CHAIN

Specifically designed to provide efficient means to convey product in today's most difficult material handling applications. Welded attachments are available in numerous styles.



### ROLLER CHAIN

Ideal for industrial and agriculture applications. Plates and rollers are shot peened and preß<sup>®</sup>-stretched at factory for greater strength and longer life.

## CONNEXUS SHARP TOP CHAINS™

### SHARP CHAIN



### INNOVATION



The endless push to raise sawmill productivity constantly demands higher speed, greater accuracy and less waste. Connexus Sharp Top Chains™ can play a role in your mill's profitability by performing better and lasting longer.

We start with superior design. We determine the exact degree of tip sharpness to work best for each application, creating maximum grip with minimum penetration and tear out. The result is a chain that runs accurately at speeds of over 1,400 FPM.

Superior design demands superior material and fabrication. Connexus Sharp Top Chains™ products are made of top grade material to provide the greater hardness necessary to resist corrosion and oxidation while maintaining strength at high temperatures. Connexus Sharp Top Chains™ offers precision ground flat bottom chains that reduces wear and damage to your chain bed and distributes load evenly. Our chains are fine blanked with low draft tooth profile that distributes weight and reduces losses from bruising. We manufacture Connexus Sharp Top Chains™ with the closest possible tolerances in the industry and offer a unique solid center plate design that all but eliminates breakage from sawdust packing.

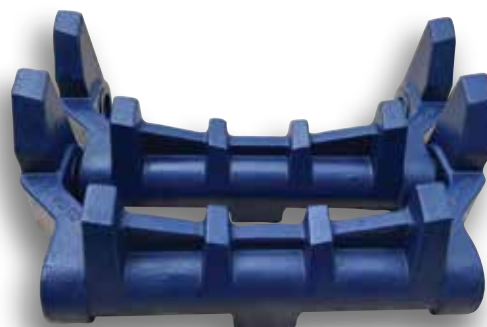




## MILL CHAIN



I'Anco Cast alloy steel and Hadfield manganese steel mill chains are designed for the most severe service applications in wood processing facilities today. They are designed to handle extreme wear, high tensile loads and extreme impact. Our ability cast attachments integral to the link eliminates any chance of creating heat affected zones by welding; however, the materials are readily weldable allowing for quick turnaround times for custom attachments. All of our cast links have recessed head and rivet ends offering protection from side wear on the rivets. This also allows us to pour the links with heavier cross sections adding to the overall strength of the chains plus creating larger bearing surfaces to distribute the loads over a larger area reducing the wear on the side bars.





## TRACK PADS

Connexus has been manufacturing track pads for underground mining and harvesting equipment for over 15 years. Materials range from mild steel to MT100 special alloy steel and cover hardness values of 160-340 BHN. The weights range from 20 lbs to over 300 lbs and could go even higher. During the final phase of construction the pads are assembled and tested to ensure articulation is smooth and complete eliminating the possibility of jams and locking up around the drive sprocket.

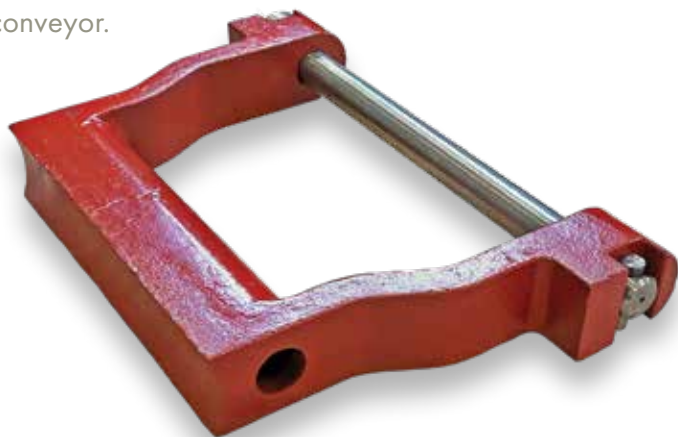
## SHREDDER PARTS

Connexus manufactures and stocks a wide variety of parts to suit specific machines. Our design department has carefully selected the right material composition and hardness to increase the service life of our parts and minimize downtime. The materials we use range from quenched and tempered low alloy steels to Hadfield Manganese and Stainless Steels. We commonly use tungsten carbide chip deposits in hard facing weld materials to further increase the service life of our parts.

We have an extensive list of products currently in production; however, if we don't have what you need, we have the ability to produce your requirements in low or high volumes at competitive prices.

## DRAG CHAIN

The CXS - I'Anco line of traditional Clinker drag chains is available in cast manganese and alloy steels; however, they have also been adapted to high temperature applications for kiln discharge conveyors operating at 1,800°-2,000° F. For these applications high temperature stainless steels are utilized. In conjunction with the drag chains, Connexus offers custom liners for conveyors that take into account the operating parameters so the best material can be selected for the application. Liners are available in manganese, alloy and tool steels plus high temperature cast iron or 25% Chrome Iron, other materials can be supplied for the specific challenges found in your conveyor.



## WELDED STEEL CHAIN

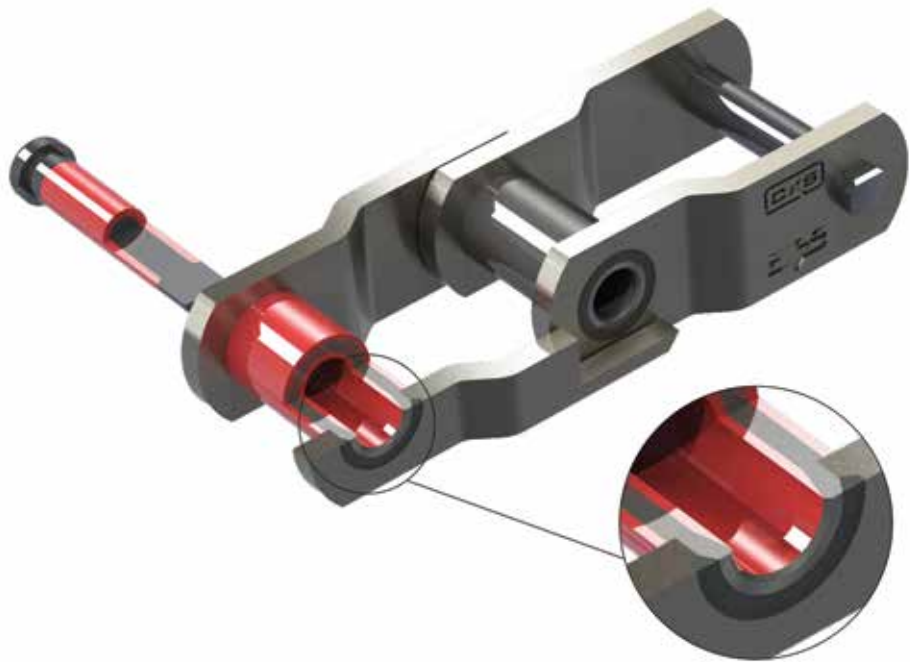
- Full press fit rivets
- Parallel sidebar holes
- High quality material & heat treating

## WELDED STEEL PLUS

- Welded flush on outside eliminates any interference with sprockets
- Parallel holes for "true-fit"
- Seamless barrels eliminate "premature stretch"

## WELDED STEEL DRAG CHAIN

- Fully heat treated barrels
- Full press fit rivets
- Parallel sidebar holes
- High quality material & heat treating



## DOUBLE LENGTH INFEEED CHAINS, SCANNING CHAINS, FLIGHTS, SPROCKETS AND BEDPLATES

- Specifically constructed to withstand high speed, impact applications
- Industry leader for 25 plus years
- Custom solutions

## SUGAR MILL CHAINS

- Designed for long service life in sugar mill applications
- Heat treated stainless steel, hard chrome options available
- Standard and custom attachments

## SPECIALTY CHAINS FOR ALL MARKETS



## CEMENT & ASPHALT PLANT CHAINS

- Bucket Elevator Chains
- Reclaimer Chains
- Hot Lime & Clinker Chains

CXS - Connexus Chains are engineered, designed and manufactured to ISO9001:2008 standards to meet the highest industry specifications.

Material selection, manufacturing tolerances and controlled heat treating are the most important criteria for constructing chains designed for long service life in arduous applications.

Connexus Industries, the consolidation of Viking Chains Inc, l'Anco Products and Lacey Harmer Inc. bring together decades of industry experience, and practical knowhow.

## SUGAR MILL CHAINS

- Cane Feed & Washing  
Table Chains
- Main Cane Carrier Chains
- Bagasse Carrier Chains
- Ash Removal Chains



## PULP & PAPER CHAINS

- Specialty Floor Chains
- Flanged Wheel Steel
- Bushed Pan Chain



## POWER PLANT CHAINS

- Screen Chains
- Stainless Steel
- Heavy Duty Drive Chains



**LAHARCO**

**CONNEXUS INDUSTRIES** (formerly Lacey-Harmer) is a true pioneer in the development of laser guideline manufacturing in North America. Dedication to quality and customer service has enabled us to maintain our position as one of the leaders in this industry.

**LASER BLAZER®**

Laser manufacturing began in 1979. In 1989, driven by customer application requirements, we began manufacturing optical elements. This has allowed Lacey-Harmer to develop a wide range of diverse and unique products.

**LASALIGN®**

We proudly serve the wood products, metal working, stone, and food processing industries, among many others, where accurate cutting is crucial to productivity.



Lacey-Harmer produces a variety of brackets to meet specific applications



Stainless Steel Uni-bracket



Uni-bracket



Tilt bracket



GTD bracket



## DIODE LASERS

5 mW  
10 mW  
15 mW  
20 mW

LAHARCO  
End Shooter

LAHARCO  
Side Shooter

5 mW  
10 mW  
15 mW  
20 mW

LASER BLAZER DOT

E-LINE  
End Shooter

10 mW  
15 mW  
30 mW

GTD - RAM  
End Shooter

GTD - RAM  
Side Shooter

## HeNe LASERS

5 mW  
10 mW  
17 mW

MODEL 77A LASER BLAZER  
End Shooter

MODEL 8201-AI  
Side Shooter

Units Available in 12v, 110v, 220v



Pivot bracket



Slide bracket

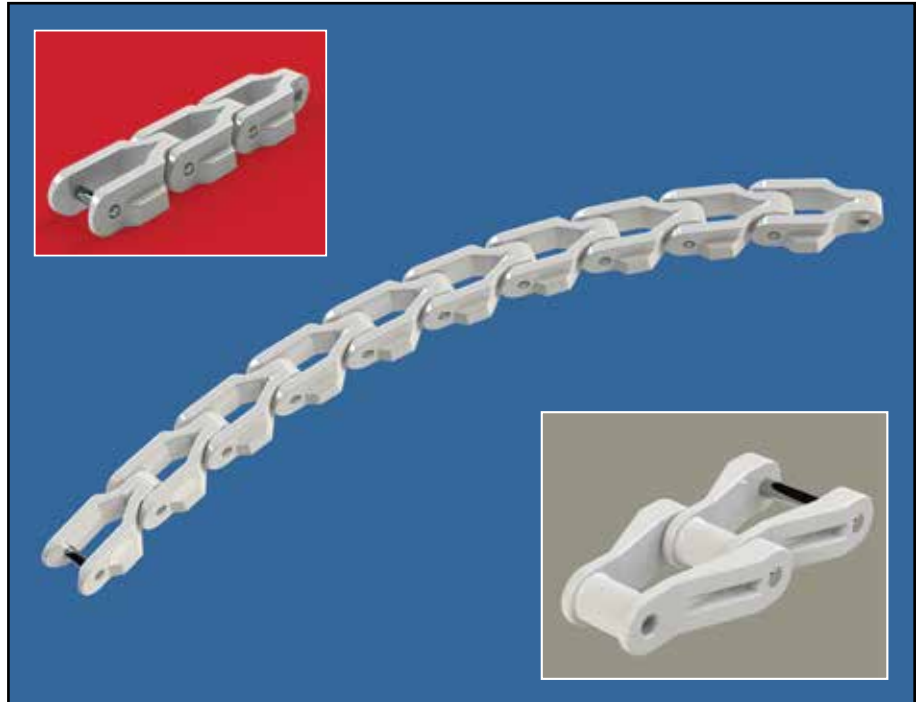


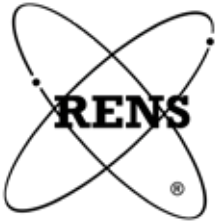
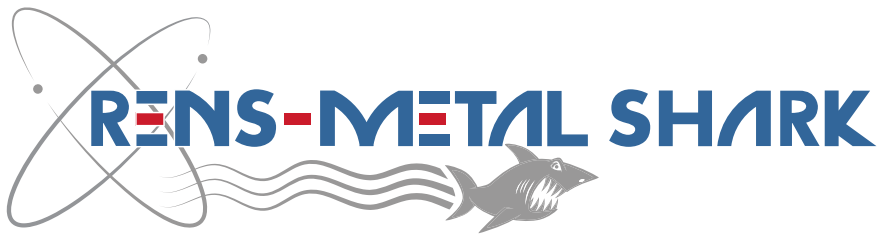
HeNe adjustable mounting bracket



- BOTTLING PLANTS
- FOOD PROCESSING
- DAIRIES
- BAKERIES
- BUCKET ELEVATORS
- AGRICULTURE
- WASTEWATER
- PHARMACEUTICALS
- CLEAN WATER
- FISH PROCESSING
- PACKAGING

Whether the need is to transport raw goods through the harvesting and sorting process, or the finished goods after packing, our chains are designed for long life and minimal maintenance in both wet and dry environments.





For over 70 years, **RENS®** metal detectors have been manufacturing the most dependable and accurate metal detectors on the market. **RENS®** high powered metal detector system offers efficient and cost effective tramp metal detection for both ferrous and non-ferrous metal. Detection of stray metal helps prevent costly downtime and damage to expensive machinery further down the production line.

Whole log, cant, belt and vibrating conveyor systems are available, along with portable units.



Rens-Metal Shark is the best of both worlds in the metal detection

business. Whether your application requires detecting a nail in a whole log or a needle in a stack of denim, Rens-Metal Shark has the metal detector to handle your requirements. Manufacturing the most technologically advanced metal detectors on the market is our specialty. By using exclusive 4 channel DDS and DSP microprocessor technology we achieve continuous accuracy and absolute stability.

Whole Log, Cant, Belt, Vibrating Conveyors, OSB and Fluff Pulp applications are our specialty.

Industries served range from solid wood, OSB, pulp and paper, recycling and food.





## LAZER TRACKER™ Fork Tip Guidance System

- Creates a safer environment while adding to your bottom line
- System can be set to remember your pre-set level
- Long life battery or hard wire option
- Meets OSHA guidelines

Connexus **LAZER TRACKER™** is the single most effective material handling tool that addresses issues of controlling product damage, increasing productivity, and creating a safer work environment. The guidance system will assist the forklift operator in pinpoint accuracy of fork tip placement. Mounted on the forklift carriage between the forks the **LAZER TRACKER™** casts out a horizontal beam that is aligned to the tips of each fork. This allows the operator to see exactly where the forks are at all times.



Pinpoint accuracy of fork tip placement. Decrease property damage, increase productivity & safety







## SYSTEM INTEGRATORS



### VIKING ENGINEERED CHAIN & FLIGHT SYSTEMS



### OUR QUALITY PRODUCTS

#### Our Quality products include:

- Chain
- Sprockets
- Flights
- Wear Shoes
- Filler Blocks
- Wear Strips
- Set Collars
- Return Rails
- Bearings, Shafts
- Static Sleeve Bushings
- Drive Units

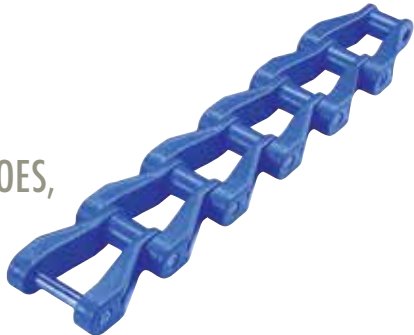
#### Practically every consumable in:

- Clarifiers
- Grit Channels
- Bar Screens
- Traveling Water Screens for all water and waste water applications are supplied by Viking Chains

## NON METALLIC COLLECTOR CHAIN



## STAINLESS STEEL COLLECTOR CHAIN



## FLIGHTS, WEAR SHOES, FILLER BLOCKS



## FLIGHT HARDWARE

## NON METALLIC DRIVE CHAIN



## STAINLESS STEEL DRIVE CHAIN

## SPROCKETS, BEARINGS



## BAR SCREENS & BAR SCREEN CHAIN

## MEGA CHAIN

### ADDITIONAL EQUIPMENT AVAILABLE FOR RECTANGULAR CLARIFIERS, BAR SCREENS AND GRIT COLLECTORS:

- Chain and Attachments
- Drive chains
- Flights
- Filler Blocks
- Wear Materials
- Hardware
- Sprockets
- Wall Bearings
- Return Rails
- Shafts
- Drive Units

### VIKING CHAINS PULTRUDED FIBERGLASS FLIGHTS COME IN THREE STYLES:

- Standard "C" channel
- Ultra flight
- Heavy duty super flight

The C channel flight is offered in a standard 6" or 8" version, and the Ultra flight and heavy duty super flight is offered in a standard 8" version.

**VIKING CHAINS ALUMINUM FLIGHTS** are made from 6063-T5 Aluminum and provide a cost effective alternative to fiberglass flights. The flights unique patented design allows the attachments and wear shoes to be bolted to the flight without drilling holes or notching the flight. This is done by the slots running the full length of the flight. The aluminum flight is offered in a standard 8" version.

### BENEFITS OF THE ALUMINUM FLIGHTS:

- Lightweight for easy installation
- No need for filler blocks
- No notching or drilling required
- Can be completely assembled in advance with minor field adjustments
- Can be repaired and welded on-site or in a shop
- Can be RECYCLED for salvage value after use.

*As an option, rubber scrapers can be added to the flights*

### VIKING CHAINS SPROCKETS

All UHMW & UHMW Segmental Rims are lightweight for easy installation and change out. All fittings supplied in SS304 or SS316.

Viking 720 Series molded chain saver rim sprockets come with UHMW-PE sprocket rims and glass filled co-polymer hubs. Our unique ability to combine more than one material in a single sprocket allows us to utilize the desirable characteristics of each of the engineered plastics to maximize service life.

Combination rims can be reserved for extra wear. Easy installation and change out. Stands up to harsh environments and high grit applications.

**OTHER SPROCKET MATERIALS AVAILABLE:** Nylon, Polyurethane, UHMW, Cast Iron Chilled Rim, Cast Iron c/w replaceable UHMW sprocket rims

## NON METALLIC COLLECTOR CHAIN

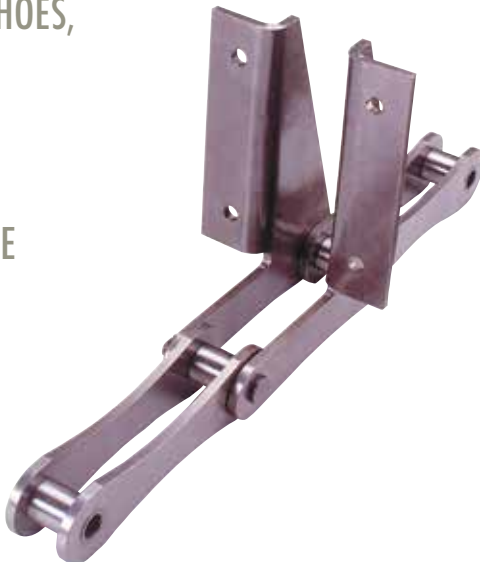


## STAINLESS STEEL COLLECTOR CHAIN

## FLIGHTS, WEAR SHOES, FILLER BLOCKS

## FLIGHT HARDWARE

## NON METALLIC DRIVE CHAIN



## STAINLESS STEEL DRIVE CHAIN

## SPROCKETS, BEARINGS

## BAR SCREENS & BAR SCREEN CHAIN



## MEGA CHAIN

[www.connexusindustries.com](http://www.connexusindustries.com)

### VC720-PMI VIKING PEARLITIC MALLEABLE IRON COLLECTOR CHAIN

VC720-PMI Viking Pearlitic Malleable Iron Collector Chain offers maximum strength in harsh environments. This chain is interchangeable with other chains manufactured under ANSI standards. Heat treated pin and 304 stainless steel cotter supplied specifically for wastewater applications.

### VCSS700 VIKING STAINLESS STEEL COLLECTOR CHAIN

VCSS700 Viking Stainless Steel Collector Chain is a light-weight, but high strength chain designed to withstand highly corrosive environments. Provides superior performance in long length clarifiers with high load and longer chain life in high grit and abrasive environments.

### VCH78-PMI VIKING PEARLITIC MALLEABLE IRON DRIVE CHAIN

VCH78-PMI Viking Pearlitic Malleable Iron Drive Chain offers maximum strength in harsh environments. This chain is interchangeable with other chains manufactured under ANSI standards. Heat treated pin and 304 stainless steel cotter supplied specifically for wastewater applications.

### WATER SCREEN CHAIN • BAR SCREEN CHAIN • CUSTOM STAINLESS STEEL CHAINS

Viking Chains manufactures numerous versions of water screen chains. From all parts made of 316SS and 17-4-PH stainless steel for highly corrosive applications to a combination of heat treated alloy steel, nylon and stainless steel components; we can meet all your needs for water screen chains. stainless steel bar screen chain and custom chains for wastewater or recycling applications are our specialty. Viking Chains manufactures many chains that are private branded for numerous OEM customers.

### VC720NM VIKING NON METALLIC COLLECTOR CHAIN

VC720NM Viking non metallic collector chain is lightweight and designed for easy installation. This chain is compatible with other chain manufacturer's non-metallic sprockets and components.

### VC78NM VIKING NON METALLIC DRIVE CHAIN

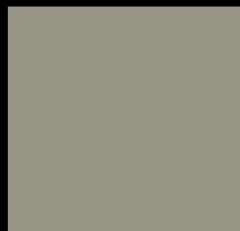
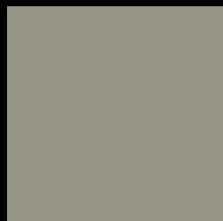
VC78NM Viking non metallic drive chain is designed to run in both directions. Viking's easy to assemble, unique locking pins and "D" head hold the SS304 rivets from rotating. Excellent performance in applications requiring high wear ability and chain strength.

### WEAR MATERIALS

Wear Materials are lightweight and designed for easy installation. Components promote smooth and efficient operation allowing for extended system equipment life.

[orders@cnxsind.com](mailto:orders@cnxsind.com)

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