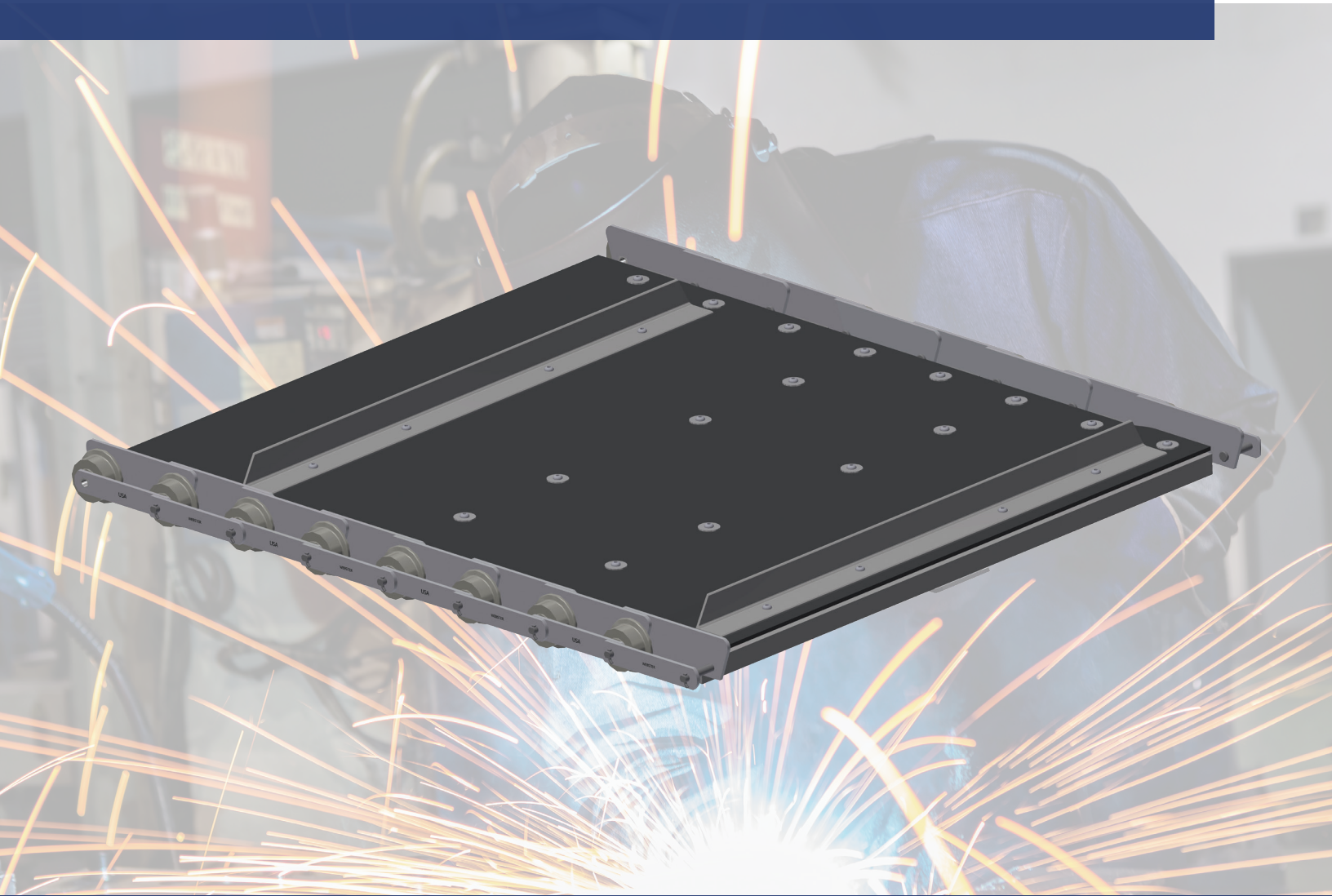




## COMBO-BELT™



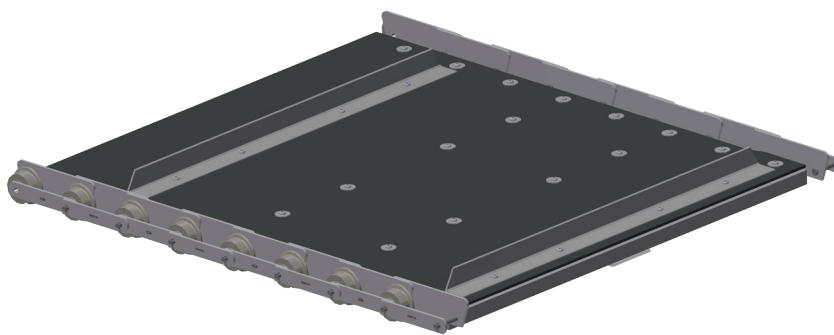
ENGINEERED TO EXCEL

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MANUFACTURED TO EXCEED



Combo-Belt™ is made from a variety of material combinations, including steel bushed roller (SBR) chains, combination chains, and welded steel mill chains, giving Combo-Belt™ unlimited application possibilities. Webster's standard design incorporates two strands of chain, support channels or cross bars, a rubber or PVC belt, and pusher cleats. Combo-Belt™ is available from 12" to 120" wide, and are particularly applicable for recycling, pulp and paper, waste and food processing conveyors. Combo-Belt™ moves fine or delicate product while having an application-specific chain design.



## MATERIAL

Combo-Belt™ conveyors are available in a variety of options. Cleats, stiffeners and wear pads are mild steel. Sidebars and pins can be furnished with additional heat treatment on request, and bushings are furnished in case-hardened steel to provide maximum wear resistance and chain life. Rollers are WEBLOY for increased life, and can also be furnished in Duramal.

## ASSEMBLY

Combo-Belt™ conveyors are riveted or cottered construction, and are available in customizable strand lengths for ease of assembly. Customizable strand lengths are available and allow for less field connections, resulting in decreased downtime and cost savings.

## INTERCHANGEABILITY

Combo-Belt™ chain components and belts are fully interchangeable with other standard makes of corresponding sizes and numbers.

## APPLICATION

Combo-Belt™ conveyors are typically used in pulp and paper, recycling and food processing facilities where a lightweight conveyor is required, but not limited.

## OPERATION

Combo-Belt™ conveyors are ideal for slow or moderate-speed applications. Maximum chain speed depends upon sprocket size. Conveyor speed is detailed in Table 2, Section A, in the 400 Master Catalog.

## CUSTOM DESIGN

Webster's line of Combo-Belt™ conveyors is not limited to standard designs. We have the engineering and manufacturing capabilities to meet individual project requirements, whether a standard conveyor requirement is needed, modifications are required, or a complete new system must be designed. Webster's ability to design and manufacture application-specific chains and belts enables us to supply the proper conveyor for the application. Combo-Belt™ retrofits are available to replace steel hinged belts and apron. Metric replacements are available as well with customizable chain pitch options.

## VERTICAL INTEGRATION

While many companies rely increasingly on outsourcing for production needs, Webster Industries has invested in building, maintaining and growing a vertically integrated manufacturing system. With full services under one roof at our Tiffin, Ohio, headquarters, Webster offers superior product design, consistent product quality and the best delivery time in the industry. Our 350,000 square foot manufacturing facility includes the following departments:

- Punching & Stamping
- Heat Treat
- Machining & Sprocket Fabrication
- Metal Fabrication
- Chain Assembly & Welding
- Shipping & Receiving



# COMBO-BELT™ SPECIFICATIONS

## AR SIDEBARS

Tall sidebars for SBR Chain are typically offered in standard 4", 5" and 6" sizes to contain material on the belt. Vanner edges and corrugated sidewalls are available as well.

## CLEATS

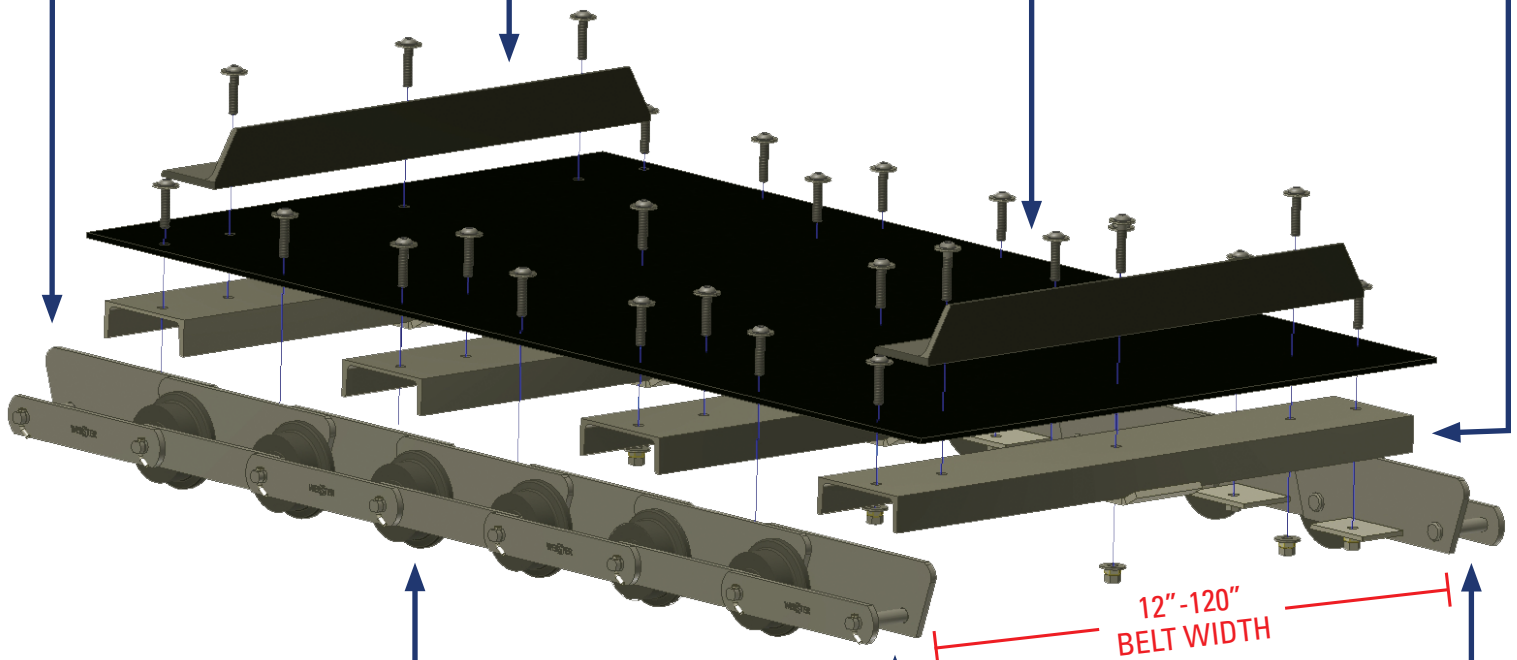
Mitered angle cleats are standard on Combo-Belt™. Custom configurations with alternating spacing and sizes are available.

## BELT

Common belt options for Combo-Belt™ include the following: 220 2-ply, 330 3-ply, 440 4-ply, 250 PVC, 350 PVC and 450 PVC. Custom belt options are available upon request.

## STIFFENER

Stiffener options include c-channel, flat bar and steel tube with wear pads, as determined by the width of the belt and pitch of the chain. Stiffeners can be welded or bolted onto the chain.



## ROLLERS

Flanged and plain rollers are available in different materials and sizes.

## PINS

Both standard pins and pins drilled for lubrication are available for Combo-Belt™. Riveted or cottered construction.

## CHAIN

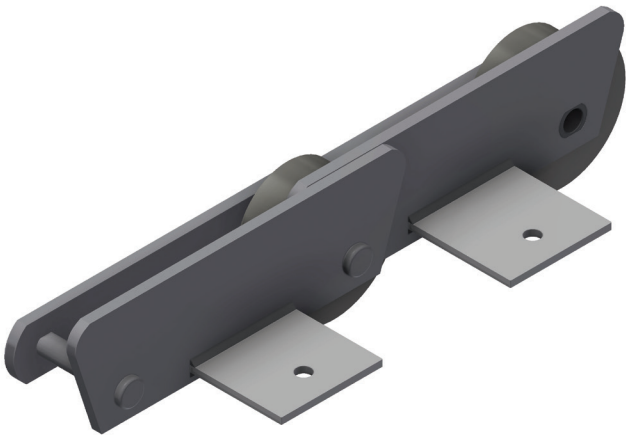
Chain options include steel bushed roller chains, mill chains and combination chains.

# STEEL BUSHED ROLLER CHAINS



Steel bushed roller (SBR) chains are manufactured with heat-treated rollers, hardened bushings and pins, and steel sidebars. The roller-type construction provides a lower operating friction, which helps increase chain life and reduces conveyor design requirements. SBR chains are available in a wide variety of sizes, configurations and designs, and can be used in tough industrial applications.

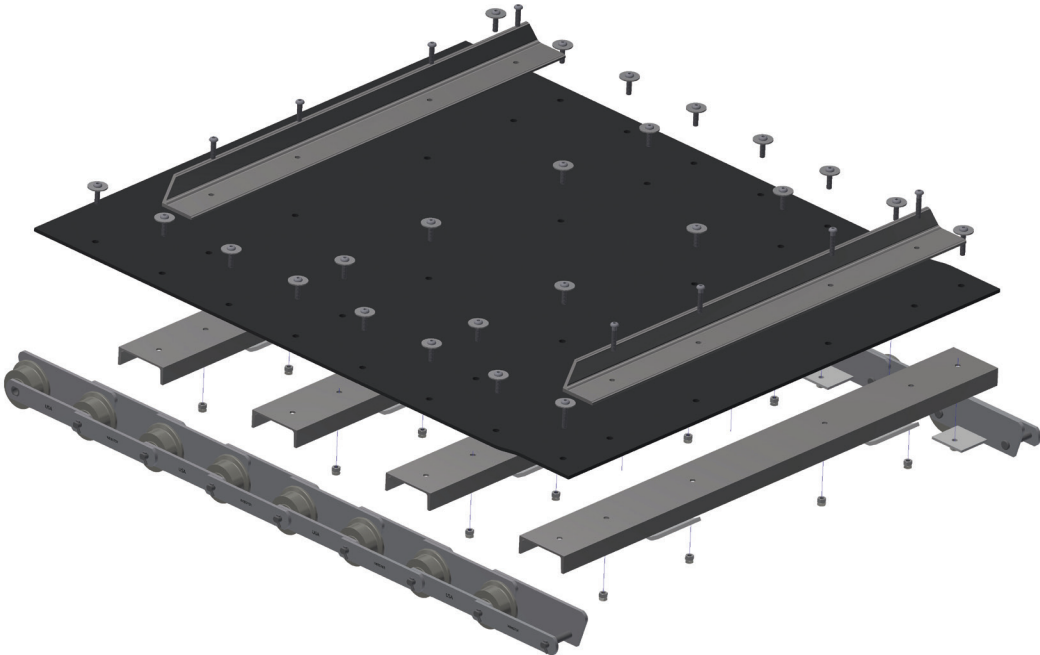
Steel bushed roller chain combo-belts typically use a C-channel stiffener with a rubber or PVC belt.



## CHAIN DIMENSIONS

Chain No.	Average Pitch Inches	Average Weight Per Ft. Lbs.	Average Ultimate Strength in Lbs. Per Strand	Rated Working Load in Lbs. Per Strand	Sidebar Thk.	Sidebar Height	Pin Diameter	Roller Diameter	Inside Sidebars Width
81XH	2.609	3.8	33,000	2,750	5/16	1 1/4	7/16	29/32	1 1/16
CC5	6.000	10.5	50,000	4,800	5/16	2 1/2	1 1/16	2 1/2	1 3/8
624F	6.000	11	32,000	5,400	1/4	2	3/4	3	1 9/16
624FHD	6.000	14	56,000	6,060	3/8	2	3/4	3	1 9/16
924F	9.000	12	32,000	5,400	1/4	2	3/4	3	1 9/16
924FHD	9.000	15.5	56,000	6,060	3/8	2	3/4	3	1 9/16
RS932F	9.000	14.3	50,000	7,200	3/8	2	3/4	4	2

- NOTE: Chain weight does not include attachments.
- NOTE: Attachment location ensures the belt rides on the centerline of the chain.
- NOTE: See catalog for additional chain availability and information.

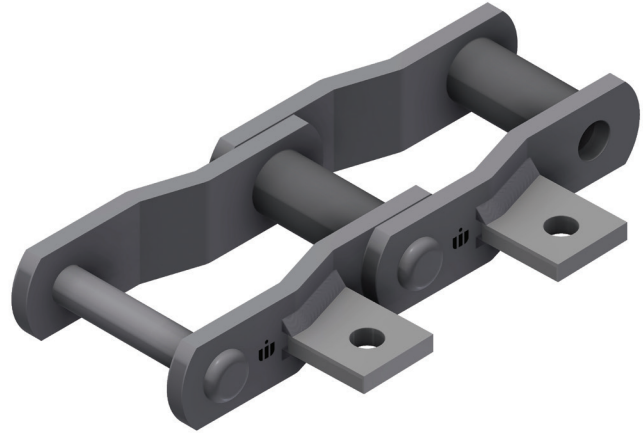






Welded steel mill chains are manufactured with heat-treated pins, steel sidebars and barrels. Mill chains are furnished in various configurations of pitch, construction and heat treatment to suit each operating environment. Their simple, yet rugged construction makes them ideal for the recycling industry. Mill chains are readily available from stock with custom and standard attachments.

Mill chain combo-belts typically use a flat bar or tube stiffener with a rubber or PVC belt.



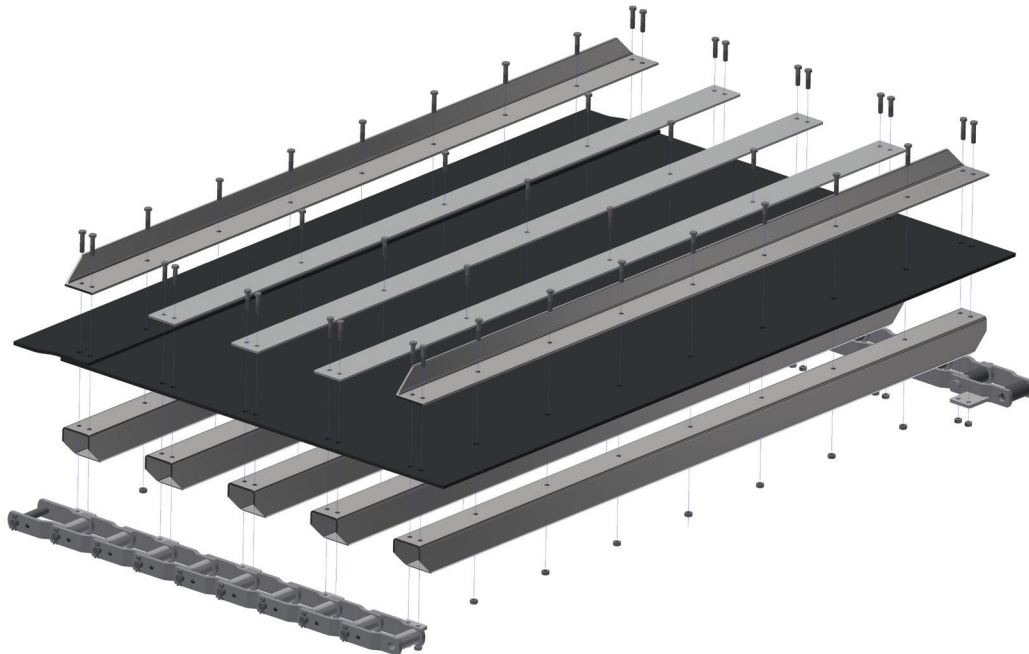
## CHAIN DIMENSIONS

Chain No.	Average Pitch Inches	Average Weight Per Ft. Lbs.	Average Ultimate Strength in Lbs. Per Strand	Rated Working Load in Lbs. Per Strand	Sidebar Thk.	Sidebar Height	Pin Diameter	Roller Diameter	Inside Sidebars Width
WH82	2.609	4.8	30,000	3,500	$\frac{1}{4}$	$1\frac{1}{8}$	$\frac{1}{2}$	$\frac{7}{8}$	$1\frac{1}{8}$
WH124	4.000	8.3	69,000	7,200	$\frac{3}{8}$	$1\frac{1}{4}$	$\frac{3}{4}$	$1\frac{1}{4}$	$1\frac{1}{2}$
WH111+	4.760	9.5	77,000	8,850	$\frac{3}{8}$	$1\frac{1}{4}$	$\frac{3}{4}$	$1\frac{1}{4}$	2
WH132	6.050	14.2	115,000	15,300	$\frac{1}{2}$	2	1	$1\frac{3}{4}$	$2\frac{3}{4}$

**NOTE:** Chain weight does not include attachments.

**NOTE:** Attachment location ensures the belt rides on the centerline of the chain.

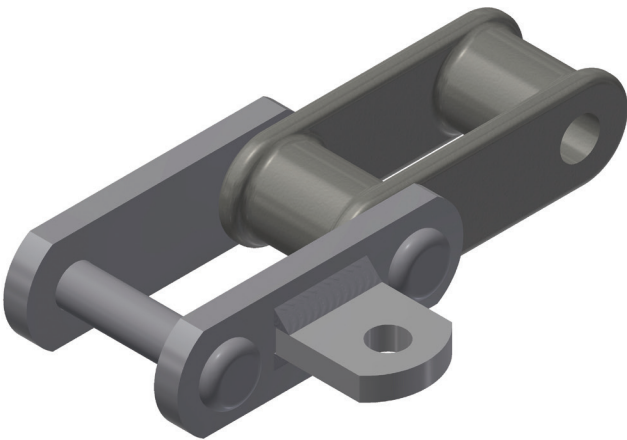
**NOTE:** See catalog for additional chain availability and information.





Combination chains are manufactured using hardened cast links, steel sidebars and heat-treated steel pins. Combination chains alternate steel sidebars and cast links, making them ideal for handling abrasive material in corrosive environments. Combination chains come with a variety of standard attachments for immediate delivery. Special or custom attachments are also available per customer request.

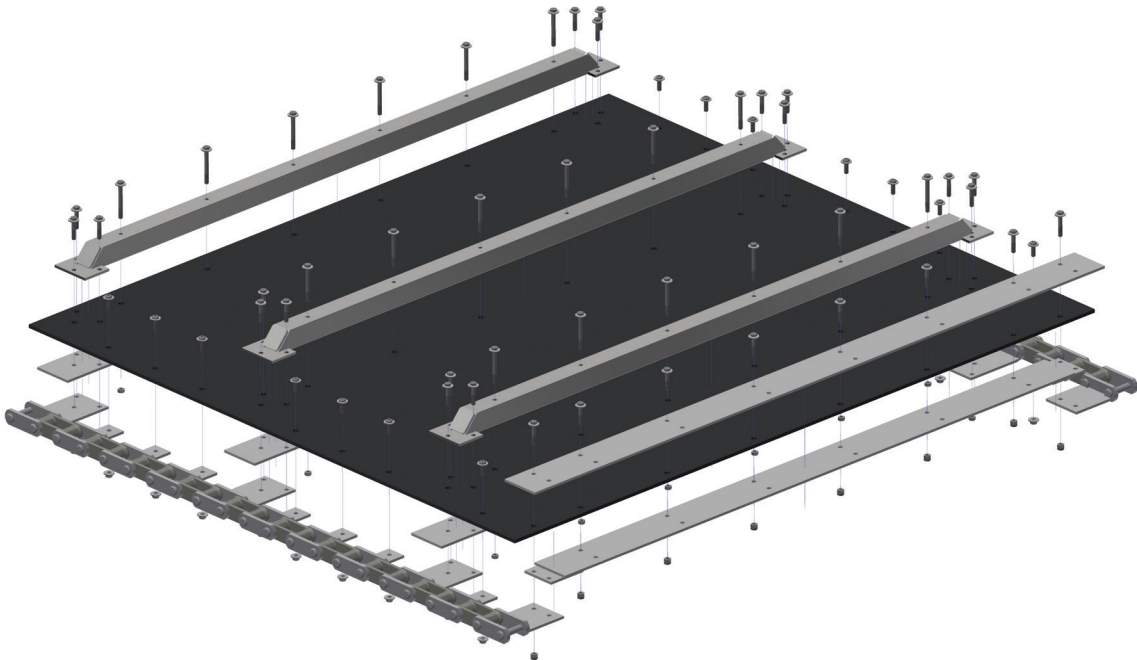
Combination chain combo-belts typically use a flat bar or tube stiffener with a rubber or PVC belt.



## CHAIN DIMENSIONS

Chain No.	Average Pitch Inches	Average Weight Per Ft. Lbs.	Average Ultimate Strength in Lbs. Per Strand	Rated Working Load in Lbs. Per Strand	Sidebar Thk.	Sidebar Height	Pin Diameter	Roller Diameter	Inside Sidebars Width
N102B	4.000	6.7	30,000	5,000	3⁄8	1 1⁄2	5⁄8	1	1 15⁄16
N110	6.000	6	30,000	5,000	3⁄8	1 1⁄2	5⁄8	1 1⁄4	1 15⁄16
N111	4.760	9.7	45,000	7,500	3⁄8	1 3⁄4	3⁄4	1 7⁄16	2 3⁄8
N131	3.075	6.5	30,000	3,750	3⁄8	1 1⁄2	5⁄8	1 1⁄4	2 3⁄8
C188	2.609	3.6	17,500	2,340	1⁄4	1 1⁄8	1⁄2	7⁄8	15⁄16

- NOTE: Chain weight does not include attachments.
- NOTE: Attachment location ensures the belt rides on the centerline of the chain.
- NOTE: See catalog for additional chain availability and information.
- NOTE: Combination chains are available in HSB style.

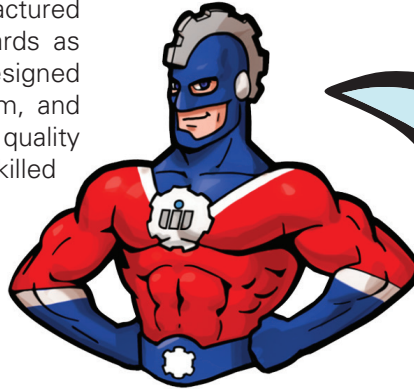




# WEBSTER SPROCKET DESIGN

Webster Sprockets are designed and manufactured according to the same core quality standards as Webster chain. Each sprocket is carefully designed by Webster's experienced engineering team, and is then manufactured with the highest quality USA made medium carbon steel by skilled American laborers.

Pairing Webster Chain and Sprockets on your application, ensures that your conveyor is performing at the highest level of productivity, reliability and service.



## WHY WEBSTER SPROCKETS?

Purchase with Chain  
Double Your Warranty  
Industry Best Delivery  
Easy Customization  
Highest Quality  
Qualifies for Free Freight  
Made In The USA

## WEBSTER'S SPROCKET DESIGN

Webster Sprockets are designed and manufactured per the ASME/ANSI specification. The sprocket selection and design depend on the chain and the customer's application. Webster's standard design utilizes low profile teeth to ensure the sprocket does not interfere with the chain and its attachments. Various material options and numerous teeth profiles, plating options and special features are available upon request. Please consult our engineering department for any special needs.

## WEBSTER SPROCKET FEATURES

### LIFTING HOLE

Are positioned directly above the key and provide easy placement of a lifting strap, rod or other device to make sprocket installation easier and safer. Lifting holes are provided on all sprockets unless restricted by space.

### FLAME HARDENED TEETH

Webster's automated, computer-controlled hardening process increases wear resistance and sprocket longevity. Our hardening process allows us to achieve precise hardness levels. All Webster sprockets have a minimum 40 Rc in all critical wear areas and utilize USA made 1045 steel plate.

### WEAR LINE INDICATORS

Indicate when it is time to replace the sprockets. When the sprocket face is worn to the scribed line the sprocket needs replaced along with the chain. Wear line indicators are an easy visual tool to help guide best practices in chain sprocket and conveyor operations.

### LIGHTENING HOLES

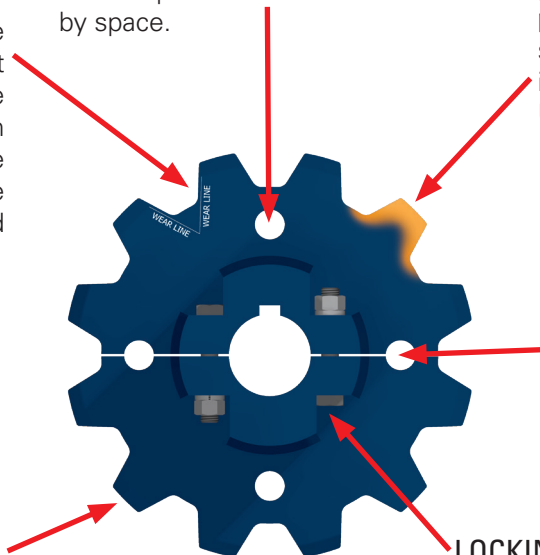
Provided on some sprockets so that weight can be reduced. Lightening holes come standard on most bucket elevator sprockets and upon customer request unless restricted by space.

### MACHINED CHAMFERED TEETH

All teeth are machine chamfered at a 15 degree angle on each side of the tooth to ensure proper chain and sprocket engagement. This reduces the likelihood of sprocket and sidebar scrubbing or improper chain engagement resulting in premature, unexpected failures.

### LOCKING HEAD FEATURE

Split sprockets come with a locking head feature which allow for ease of assembly. The hub holds the head of the bolt against its flat edge. This allows one tool and one person to easily torque the locking nut in place securing the sprocket to the shaft.





## THE WEBSTER VALUE

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For over 145 years, Webster has provided conveying solutions to a diverse range of markets with our extensive variety of products and industry expertise. A key to our success is making a difference through industry, work, self, family and community.



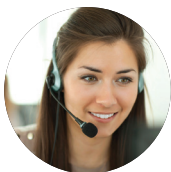
### AMERICAN MATERIALS, AMERICAN LABOR & AMERICAN PRIDE

Webster's reputation for high-quality products originates from the same principles they were founded on in 1876. Our Made in the USA brand is demonstrated through our domestic supply chain partners and our American workforce.



### VERTICALLY INTEGRATED MANUFACTURING FACILITY

While companies are relying increasingly on outsourcing for production needs, Webster has invested in building, maintaining and growing a vertically integrated manufacturing system.



### WORLD CLASS CUSTOMER SUPPORT & DELIVERIES

Providing value to customers is Webster's top priority. Our commitment and responsiveness to customers, industry best deliveries and our engineered solutions are what set us apart from the competition.



### SUPERIOR QUALITY & INNOVATION

Webster's strict manufacturing, ISO quality standards and continuous innovation ensure that we are providing our customers with the highest quality products in the industry.

AN EMPLOYEE-OWNED COMPANY