

Straight Sidebar

Roller Chain

Superior Conveying Performance



RENOLD

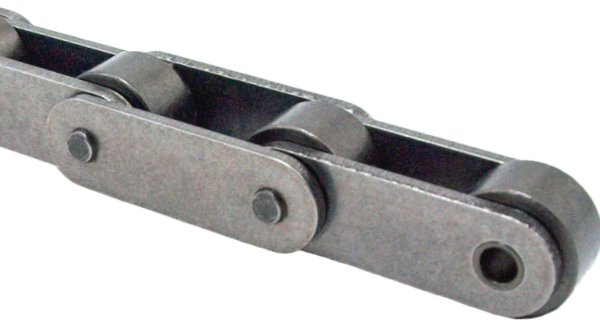
Straight Sidebars for Smooth Conveying



Standard Pitch Straight Sidebar Roller Chains dimensionally align with ANSI standards, except they substitute a straight-edged side plate for the standard "figure-eight" used for drive chains. This design is better suited to support and carry goods consistently. These chains weigh marginally more than standard roller chains and offer slightly increased fatigue strength. A "C" added to the corresponding ANSI chain number designates straight sidebars (e.g., C60).



Double Pitch Straight Sidebar Roller Chains provide an economical material handling solution for low to moderate loads and distanced sprockets. The prefix "C" and adding 2000 to the ANSI standard number indicates these chains. For pitches 1.5 inches and longer, heavy side plates are noted with the suffix "H." For example, ANSI 60 Double Pitch straight sidebar chain is designated C2060H.



Large Roller Double Pitch, Straight Sidebar Chains, feature similar benefits to the standard roller series; however, their oversized roller projects above and below the sidebars to produce a rolling rather than a sliding action. They minimize friction across the supporting surface to reduce wear and power requirements in heavier-duty applications. These chains are indicated by adding "C" and 2002 to the ANSI standard chain number (e.g., C2062H).

Sprockets for Double Pitch Chain

Specially made Double Pitch sprockets are recommended for use with Double Pitch chains. However, ANSI standard sprockets can be used with Double Pitch chains, provided the sprockets have at least 30 teeth, and the chain has regular rollers. Since Double Pitch chains engage every other tooth, they can be indexed for longer sprocket life.

Features

- Manufactured and heat treated in-house
- High-specification steel
- Carburized pins and bushings
- Solid bushings and rollers

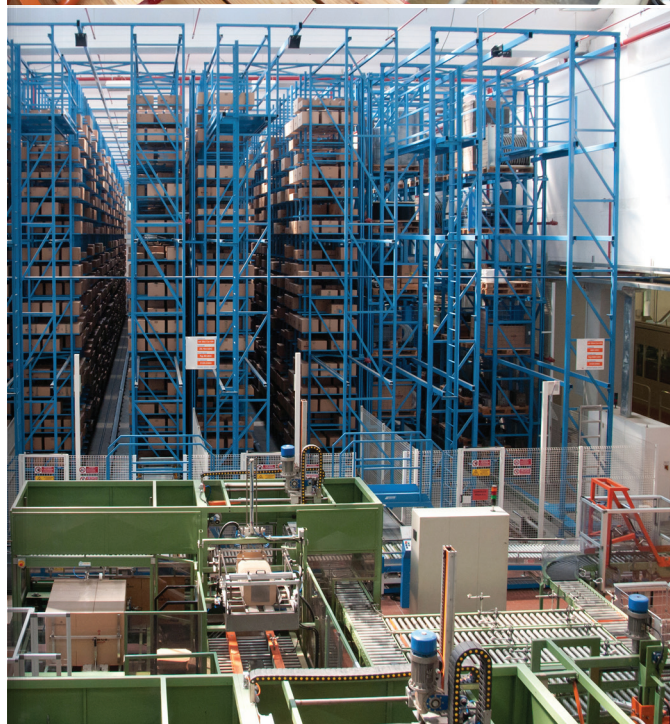
Conveying Products Around the World

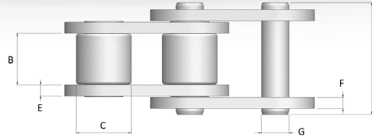
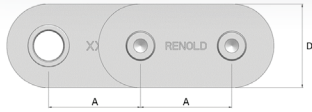
Applications and Industries

- Material Handling
- General Conveying
- Warehouse Automation
- Palletizing
- Packaging
- Sorting Lines

Ask us about Solution Variations

- Lubrication-free Syno
- Corrosion-resistant Hydro-Service or Stainless Steel
- Abrasion-resistant Sovereign





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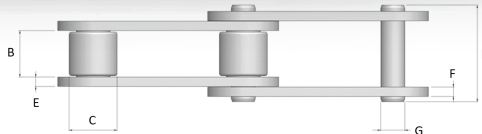
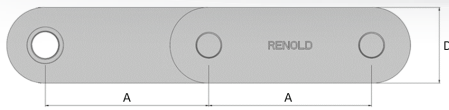
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Straight Sidebar Conveyor Series Chain

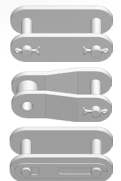
ANSI Ref No.	Renold No.	Pitch	Inside Width Min	Roller Diam Max	Plate Height Max	Inner Plate Thick Max	Outer Plate Thick Max	Pin Diam Max	Pin Length Max	Conn Link Extra Max	Trans Pitch	Tensile Strength Min	Rated Working Load	Weight	Connecting Links		
		in	in	in	in	in	in	in	in	in	in	lb	lb	lb / ft	No. 11	No. 12	No. 26
		A	B	C	D	E	F	G	H	I	J	K					
40	C40	0.500	0.309	0.312	0.475	0.061	0.061	0.157	0.646	0.055	—	3,125	810	0.40		✓	✓
50	C50	0.625	0.370	0.400	0.594	0.080	0.080	0.200	0.804	0.043	—	4,880	1,400	0.67		✓	✓
60	C60	0.750	0.495	0.469	0.713	0.094	0.094	0.235	0.997	0.043	—	7,030	1,950	0.99		✓	✓
80	C80	1.000	0.620	0.625	0.950	0.128	0.128	0.313	1.288	0.118	—	12,500	3,300	1.88		✓	✓
100	C100	1.250	0.744	0.750	1.188	0.160	0.160	0.376	1.564	0.165	—	19,530	5,060	2.82	✓	✓	
120	C120	1.500	0.993	0.875	1.425	0.189	0.189	0.437	1.942	0.209	—	28,125	6,800	3.83	✓	✓	
140	C140	1.750	0.993	1.000	1.663	0.221	0.221	0.500	2.084	0.205	—	38,280	9,000	5.24	✓	✓	
160	C160	2.000	1.242	1.125	1.900	0.250	0.250	0.563	2.486	0.256	—	50,000	11,900	6.99	✓	✓	



No. 11

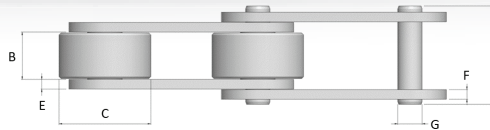
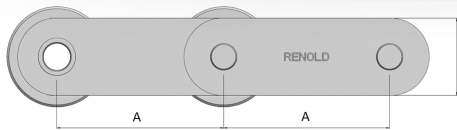
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No. 26



Double Pitch Conveyor Series Chain - Standard Roller

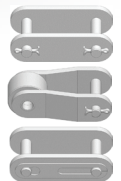
ANSI Ref No.	Renold No.	Pitch	Inside Width Min	Roller Diam Max	Plate Height Max	Inner Plate Thick Max	Outer Plate Thick Max	Pin Diam Max	Pin Length Max	Conn Link Extra Max	Trans Pitch	Tensile Strength Min	Rated Working Load	Weight	Connecting Links		
		in	in	in	in	in	in	in	in	in	in	lb	lb	lb / ft	No. 11	No. 12	No. 26
		A	B	C	D	E	F	G	H	I	J	K					
40	C2040	1.000	0.309	0.312	0.465	0.059	0.059	0.157	0.701	0.055	—	3,125	810	0.34		✓	✓
50	C2050	1.250	0.370	0.400	0.591	0.079	0.079	0.200	0.858	0.043	—	4,880	1,400	0.56		✓	✓
60	C2060H	1.500	0.495	0.469	0.701	0.128	0.128	0.235	1.126	0.043	—	7,030	2,200	0.97	✓	✓	✓
80	C2080H	2.000	0.620	0.625	0.949	0.160	0.160	0.313	1.409	0.118	—	12,500	3,600	1.63	✓	✓	
100	C2100H	2.500	0.748	0.750	1.134	0.189	0.189	0.376	1.669	0.165	—	19,530	5,500	2.33	✓	✓	
120	C2120H	3.000	1.000	0.875	1.382	0.221	0.221	0.437	2.063	0.209	—	28,125	7,300	3.31	✓	✓	
160	C2160H	4.000	1.240	1.125	1.886	0.287	0.287	0.563	2.583	0.256	—	50,000	12,600	5.38	✓	✓	



No. 11

No. 12

No. 26



Double Pitch Conveyor Series Chain - Large Roller

ANSI Ref No.	Renold No.	Pitch	Inside Width Min	Roller Diam Max	Plate Height Max	Inner Plate Thick Max	Outer Plate Thick Max	Pin Diam Max	Pin Length Max	Conn Link Extra Max	Trans Pitch	Tensile Strength Min	Rated Working Load	Weight	Connecting Links		
		in	in	in	in	in	in	in	in	in	in	lb	lb	lb / ft	No. 11	No. 12	No. 26
		A	B	C	D	E	F	G	H	I	J	K					
40	C20402	1.000	0.309	0.625	0.465	0.059	0.059	0.157	0.701	0.055	—	3,125	810	0.55		✓	✓
50	C2052	1.250	0.370	0.750	0.591	0.079	0.079	0.200	0.858	0.043	—	4,880	1,400	0.85		✓	✓
60	C2062H	1.500	0.495	0.875	0.701	0.128	0.128	0.235	1.126	0.043	—	7,030	2,200	1.36	✓	✓	✓
80	C2082H	2.000	0.620	1.125	0.949	0.160	0.160	0.313	1.409	0.118	—	12,500	3,600	2.26	✓	✓	
100	C2102H	2.500	0.748	1.562	1.134	0.189	0.189	0.376	1.669	0.165	—	19,530	5,500	3.80	✓	✓	
120	C2122H	3.000	1.000	1.750	1.382	0.221	0.221	0.437	2.063	0.209	—	28,125	7,300	5.31	✓	✓	
160	C2162H	4.000	1.240	2.250	1.886	0.287	0.287	0.563	2.583	0.256	—	50,000	12,600	8.60	✓	✓	

Renold chain products that dimensionally align with the ANSI standard far exceed ANSI minimum tensile strength requirements. However, Renold does not consider breaking load a key performance indicator because it ignores the principal factors of wear and fatigue. Renold designs its products for the best possible results. Note that where the minimum tensile strength appears in this catalog, we are stating that the Renold product conforms to the ANSI minimum standard. Independent testing confirms Renold products exceed ANSI minimum breaking loads (many companies quote averages).

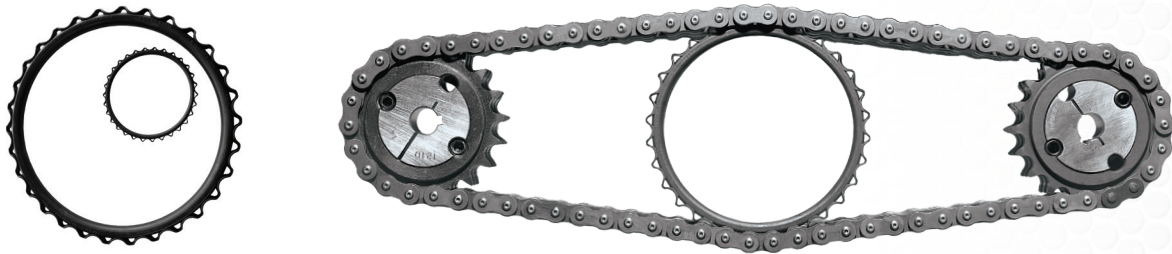
Maintenance Tools

Monitor wear, tension, dampen, and replace with ease



Chain Wear Tools

Simplify chain elongation monitoring with Renold's wear indicators. Available in several styles, these guides enable quick inspection without moving the chain. Operating properly maintained chains lengthens the life of sprockets, increases efficiency, and maximizes uptime.



Roll-Ring®

These self-adjusting chain tensioners are a simple yet innovative solution for any chain drive orientation. Doubling as dampers, they install in seconds without any tools. They function automatically, are maintenance-free, self-lubricating, and can be used in dirty environments.



Pin Extractor and Chain Breaker/Assembly Tools

Renold screw-operated pin extractors (.375" pitch to 4.0") and more capable hydraulic breaker/assembly tools can accelerate chain maintenance with safer, easier processes. Avoid sparks and crushed fingers by eliminating grinders and sledgehammers from chain service.


RENOLD

Full roller & attachment chain line-up

Behind every conceivable industry and application environment, heavy or light duty, indoor or outdoor, clean or contaminated, and high or low temperature, Renold chain delivers performance and increases productivity.

Whatever your working environment or chain requirement, Renold has the chain for you.

	Blue	Whitney	SD	Sovereign	Synergy	Syno	Hydro-Service	Stainless Steel
Corrosion Resistance	Not Recommended	Not Recommended	Not Recommended	Not Recommended	Good	Good	Better	Best
Fatigue & Wear Resistance	Better	Good	Good	Better	Best	Better	Good	Good
Wet or Underwater Application	Not Recommended	Not Recommended	Not Recommended	Not Recommended	Not Recommended	Not Recommended	Better	Best
No Lubrication Required	Not Recommended	Not Recommended	Not Recommended	Not Recommended	Not Recommended	Best	Not Recommended	Not Recommended
High Shock Loads (HV Series*)	Best	Good	Not Recommended	Good	Better	Not Recommended	Good	Good
Abrasion Resistant	Good	Not Recommended	Not Recommended	Best	Good	Not Recommended	Not Recommended	Not Recommended
Dirty & Dusty Environment	Good	Not Recommended	Not Recommended	Best	Good	Not Recommended	Better	Better
FDA Approved for Food Contact	Not Recommended	Not Recommended	Not Recommended	Not Recommended	Not Recommended	Not Recommended	Not Recommended	Better
USDA H1 Lubricant	Not Recommended	Not Recommended	Not Recommended	Not Recommended	Not Recommended	Better	Not Recommended	Best
Temperature Ranges	-24° to 350°F	-24° to 350°F	-24° to 350°F	-24° to 350°F	-24° to 350°F	-24° to 302°F	-24° to 350°F	(304)1200° (316)1300°
Attachments Available	✓	✓	✓	✓		✓	✓	✓

Not Recommended 
 Standard ●
 Good ●●
 Better ●●●
 Best ★

Every application is unique. This chart is a guideline. Temperature ranges can vary based on application and lubrication. We recommend a consultation with a member of the Renold Engineering Team. Call 1-800-251-9012.

* HV Series applies to Blue only.

RENOLD Advantage

Superior chain technology

Precision Components

- ▣ Multistage punched & shaved pitch holes for accuracy
- ▣ Ball drifted holes ensure quality press fits
- ▣ Shot-peening extends fatigue resistance for performance
- ▣ Tapered bushings enhance performance & reduce wear
- ▣ Solid bushings & rollers don't distort or open
- ▣ End-softened pins for easy field assembly/disassembly

In-House Heat Treatment

Customized heat treatment is essential to manufacture chains to the greatest specification. Renold's multistep heat treatments deliver precise hardness and depth levels, ensuring components exceed the highest industry standards for wear life and durability.

Comprehensive In-House Metallurgical Capabilities

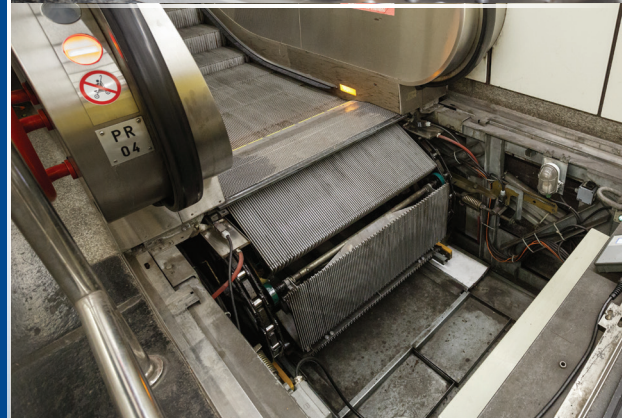
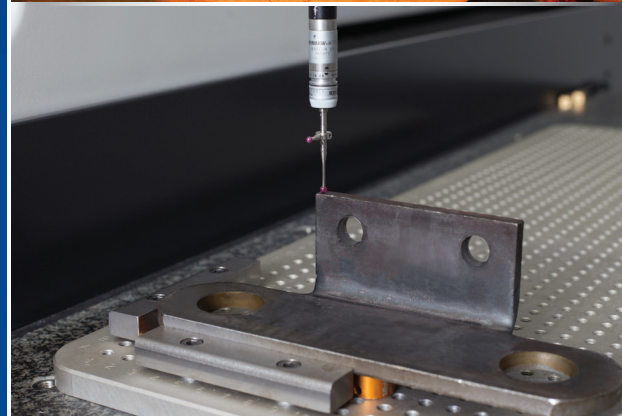
From testing alloy compositions to determining carburization depths, Renold has the equipment and expertise to verify specifications and perform failure analysis for chains of any brand. Competitors rely on expensive third-party labs, inhibiting their ability to deliver equal levels of quality assurance.

True Matching and Tagging

Renold's Matching and Tagging is unrivaled. Other chain manufacturers may offer matching and tagging for left/right paired attachment chains, but what is their method? Renold measures every pocket of attachment chain under a test load, whether three pitches or thirty. The resulting mirrored pair delivers higher performance to the chain's application.

Offshore Manufacturing Owned by Renold

Global supply chains have many advantages, but without proper oversight, results can vary. Renold controls and monitors the specification of all raw materials and manufacturing processes worldwide.



Straight Sidebar Roller Chain

Superior Conveying Performance

America's Headquarters

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Morristown, TN 37813

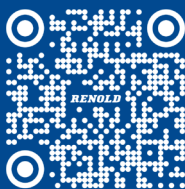
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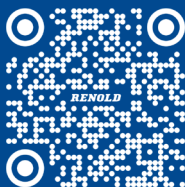
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