

Renold Syno™ Chain

Three solutions, one aim. **No more lube!**

If it's an easy life you want, if lubrication causes you problems, then Renold has the answer! The Renold Syno range sets a new benchmark for chain performance with little or no lubrication. Covering both small and large pitch sizes, Renold has tailored its technology to suit your requirements with a range of three different products under the Renold Syno name.



◀ Nickel-plated

Nickel-plated

For use in hygiene-sensitive applications or situations where contamination from lubricant is to be avoided, Renold Syno Nickel Plated chain displays all the characteristics you need from a chain. With a food industry-approved lubricant within the sintered bush, this chain will in almost all instances not need relubricating. The roller coating is also suitable for use in the food industry; a unique feature on any chain.

Available in boxed 10-foot lengths from 06B to 24B and ANSI 40 to ANSI 100, simplex and duplex with a standard pin diameter, this means that Renold Syno Nickel Plated chain is dimensionally interchangeable with standard roller chain and is even compatible with standard sprockets.

With the kind of excellent wear and fatigue resistance that you expect from a Renold chain, Syno Nickel Plated chain outlasts any competitor product promoted as low-lube or non-lube. Already tried and tested by major companies in the food sector and elsewhere, if you have to operate with minimal lubrication but can't compromise on performance, we can boost your productivity, cut your downtime and save you time and money.

- **No lubrication normally required**
- **Outside of chain totally dry-to-the-touch**
- **Nickel-plated plates**
- **Food industry-approved lubricant within the sintered bush**
- **Unique food industry-approved roller coating**
- **Dimensionally interchangeable with standard chain**
- **ISO standard pin diameter, therefore standard attachments on outer links**

Renold Syno

Ideal for all these applications



Food

For food processing environments, cleanliness is critical; the Renold Syno range is ideal for this. Think of the ways your application could benefit.

Bottling

Chain used in bottling applications benefits from corrosion resistance and lubrication considerations are key.

Packaging

Packaging must be transported without contamination, think "Syno" and your problems are solved.

Paper

The printing industry goes to great lengths to ensure their output is protected from grease and dirt. Choose Renold Syno for a clean environment.

Textile

No stain removal required when you specify Renold Syno chain for use in textile manufacturing environments.

Sawmills

Heavy loads, dirt and grime are all to be expected in sawmills. Lubrication will attract this kind of debris causing a dramatically shortened working life. Syno Polymer Bush chain shows other chains the way!

Car assembly

Car assembly lines are an example of the need for no lubricant contamination to vehicle panels or interiors. Syno Polymer Bush chain is lubricant-free and can take the strain without the squeaking noise made by other chain brands.

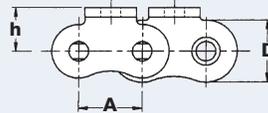
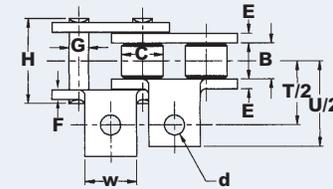
Bent Lug Attachments



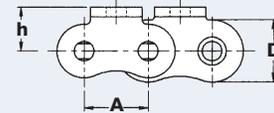
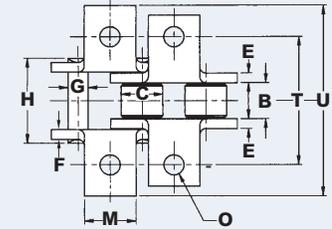
A-1



K-1



A-1 (Bent Lug 1 Side -1 Hole)



K-1 (Bent Lug 2 Sides -1 Hole)

Syno® A-1 & K-1 Attachment Dimensions

Dimensions are in inches unless otherwise indicated.

Chain No.	K-1 Across Attach Holes	A-1 C/L to Attach Hole	K-1 Overall Width	A-1 C/L to Attach End	Hole Diameter	Attachment Height	Tab Width	A-1 Additional Wgt/Att	K-1 Additional Wgt/Att
	T	T/2	U	U/2	d	h	w	Lbs/Pc	Lbs/Pc
40	1.024	0.512	1.433	0.717	0.142	0.311	0.374	0.003	0.006
50	1.291	0.646	2.000	1.000	0.209	0.406	0.500	0.009	0.018
60	1.567	0.783	2.350	1.175	0.209	0.469	0.626	0.014	0.028
80	2.067	1.033	3.319	1.659	0.265	0.626	0.751	0.030	0.060
100	2.500	1.250	3.412	1.706	0.329	0.781	1.000	0.059	0.118
120	3.000	1.500	4.405	2.203	0.408	0.906	1.133	0.105	0.210
140	3.500	1.750	4.970	2.485	0.469	1.125	1.375	0.157	0.314
160	4.000	2.000	5.656	2.828	0.547	1.250	1.500	0.214	0.428

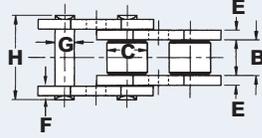
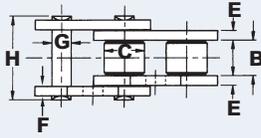
Base Chain Dimensions

Chain No.	Pitch	Inside Width Min	Roller Diameter Max	Plate Height Max	Inner Plate Thickness Max	Outer Plate Thickness Max	Pin Diameter Max	Pin Length Max	Weight
	A	B	C	D	E	F	G	H	Lbs/Ft
40	0.500	0.309	0.312	0.461	0.071	0.059	0.157	0.665	0.45
50	0.625	0.370	0.400	0.575	0.095	0.079	0.200	0.831	0.75
60	0.750	0.495	0.469	0.689	0.127	0.094	0.235	1.063	1.16
80	1.000	0.620	0.625	0.906	0.160	0.118	0.313	1.327	1.94
100	1.250	0.744	0.750	0.996	0.173	0.157	0.376	1.598	2.45
120	1.500	0.993	0.875	1.408	0.189	0.189	0.437	1.941	3.35
140	1.750	0.993	1.000	1.641	0.221	0.221	0.500	2.083	4.63
160	2.000	1.242	1.125	1.874	0.250	0.250	0.563	2.484	6.17

Syno® Attachment Chain

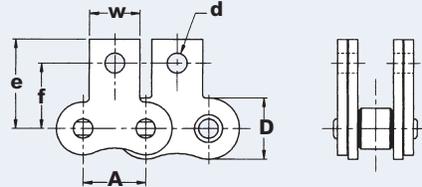
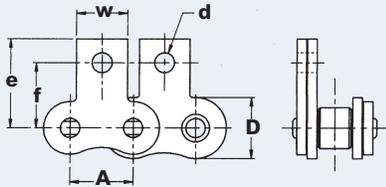
Attachment

Straight Lug Attachments



SA-1

SK-1



SA-1 (Straight Lug 1 Side -1 Hole)

SK-1 (Straight Lug 2 Side -1 Hole)

Syno® SA-1 & SK-1 Attachment Dimensions

Dimensions are in inches unless otherwise indicated.

Chain No.	Hole Diameter	SA-1 / SK-1 C/L to Attach Top	SA-1 / SK-1 C/L to Attach Hole	Tab Width	SA-1 Additional Wgt/Att	SK-1 Additional Wgt/Att
	d	e	f	w	Lbs/Pc	Lbs/Pc
40	0.142	0.732	0.500	0.374	0.003	0.006
50	0.209	0.902	0.626	0.500	0.009	0.018
60	0.209	1.063	0.720	0.626	0.014	0.028
80	0.265	1.351	0.969	0.751	0.030	0.060
100	0.329	1.700	1.250	1.000	0.059	0.118
120	0.408	2.089	1.437	1.133	0.105	0.210
140	0.469	2.484	1.750	1.375	0.157	0.314
160	0.547	2.734	2.000	1.500	0.214	0.428

Base Chain Dimensions

Chain No.	Pitch	Inside Width Min	Roller Diameter Max	Plate Height Max	Inner Plate Thickness Max	Outer Plate Thickness Max	Pin Diameter Max	Pin Length Max	Weight
	A	B	C	D	E	F	G	H	Lbs/Ft
40	0.500	0.309	0.312	0.461	0.071	0.059	0.157	0.665	0.45
50	0.625	0.370	0.400	0.575	0.095	0.079	0.200	0.831	0.75
60	0.750	0.495	0.469	0.689	0.127	0.094	0.235	1.063	1.16
80	1.000	0.620	0.625	0.906	0.160	0.118	0.313	1.327	1.94
100	1.250	0.744	0.750	0.996	0.173	0.157	0.376	1.598	2.45
120	1.500	0.993	0.875	1.408	0.189	0.189	0.437	1.941	3.35
140	1.750	0.993	1.000	1.641	0.221	0.221	0.500	2.083	4.63
160	2.000	1.242	1.125	1.874	0.250	0.250	0.563	2.484	6.17

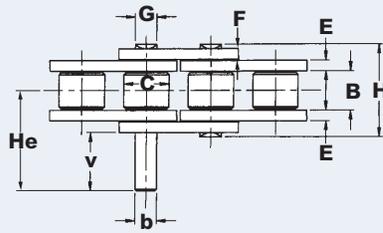
Extended Pin Attachments



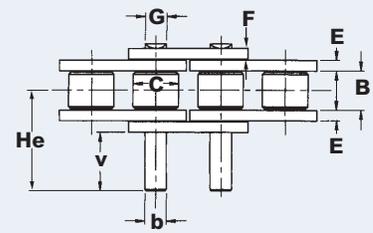
D-1



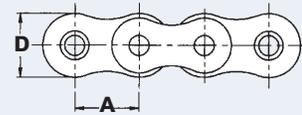
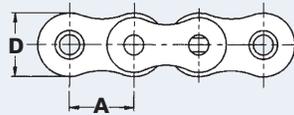
D-3



D-1 (1 Pin Extended Per Pin Link)



D-3 (2 Pins Extended Per Pin Link)



Syno® D-1 & D-3 Attachment Dimensions

Dimensions are in inches unless otherwise indicated.

Chain No.	C/L to End of Ext Pin	Ext Pin Diameter	Ext Pin Projection	D-1 Additional Wgt/Att	D-3 Additional Wgt/Att
	He	b	v	Lbs/Pc	Lbs/Pc
40	0.678	0.156	0.383	0.003	0.006
50	0.842	0.200	0.468	0.004	0.008
60	1.046	0.235	0.562	0.007	0.014
80	1.354	0.313	0.751	0.015	0.030
100	1.670	0.375	0.938	0.026	0.052
120	2.015	0.437	1.125	0.044	0.088
140	2.271	0.500	1.312	0.066	0.132
160	2.652	0.563	1.500	0.099	0.198

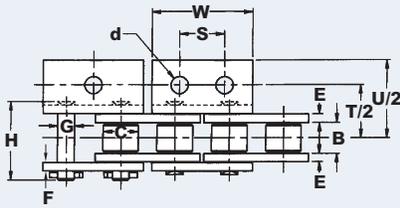
Base Chain Dimensions

Chain No.	Pitch	Inside Width Min	Roller Diameter Max	Plate Height Max	Inner Plate Thickness Max	Outer Plate Thickness Max	Pin Diameter Max	Pin Length Max	Weight
	A	B	C	D	E	F	G	H	Lbs/Ft
40	0.500	0.309	0.312	0.461	0.071	0.059	0.157	0.665	0.45
50	0.625	0.370	0.400	0.575	0.095	0.079	0.200	0.831	0.75
60	0.750	0.495	0.469	0.689	0.127	0.094	0.235	1.063	1.16
80	1.000	0.620	0.625	0.906	0.160	0.118	0.313	1.327	1.94
100	1.250	0.744	0.750	0.996	0.173	0.157	0.376	1.598	2.45
120	1.500	0.993	0.875	1.408	0.189	0.189	0.437	1.941	3.35
140	1.750	0.993	1.000	1.641	0.221	0.221	0.500	2.083	4.63
160	2.000	1.242	1.125	1.874	0.250	0.250	0.563	2.484	6.17

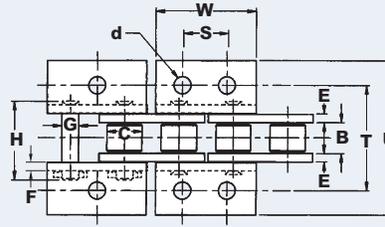
Syno® Attachment Chain

Attachment

Bent Lug Wide Contour Attachments



WA-1 (Bent Lug 1 Side - 1 Hole)
WA-2 (Bent Lug 1 Side - 2 Holes)



WK-1 (Bent Lug 2 Sides - 1 Hole)
WK-2 (Bent Lug 2 Sides - 2 Holes)



WA-1



WK-1



WA-2



WK-2

Syno® WA-1, WA-2 & WK-1, WK-2 Attachment Dimensions

Dimensions are in inches unless otherwise indicated.

Chain No.	WK-1 / WK-2 Across Attach Holes	WA-1 / WA-2 C/L to Attach Hole	WK-1 / WK-2 Overall Width	WA-1 / WA-2 C/L to Attach End	Hole Diameter	Attachment Height	Attachment Hole Pitch	Tab Width	WA-1 / WA-2 Additional Wgt/Att	WK-1 / WK-2 Additional Wgt/Att
	T	T/2	U	U/2	d	h	s	w	Lbs/Pc	Lbs/Pc
40	1.024	0.512	1.433	0.717	0.142	0.311	0.500	0.945	0.003	0.006
50	1.291	0.646	2.000	1.000	0.209	0.406	0.625	1.193	0.007	0.014
60	1.567	0.783	2.350	1.175	0.209	0.469	0.750	1.402	0.012	0.024
80	2.067	1.033	3.319	1.659	0.260	0.625	1.000	1.564	0.028	0.056
100	2.500	1.250	3.484	1.742	0.343	0.781	1.250	2.404	0.055	0.110

Base Chain Dimensions

Chain No.	Pitch	Inside Width Min	Roller Diameter Max	Plate Height Max	Inner Plate Thickness Max	Outer Plate Thickness Max	Pin Diameter Max	Pin Length Max	Weight
	A	B	C	D	E	F	G	H	Lbs/Ft
40	0.500	0.309	0.312	0.461	0.071	0.059	0.157	0.665	0.45
50	0.625	0.370	0.400	0.575	0.095	0.079	0.200	0.831	0.75
60	0.750	0.495	0.469	0.689	0.127	0.094	0.235	1.063	1.16
80	1.000	0.620	0.625	0.906	0.160	0.118	0.313	1.327	1.94
100	1.250	0.744	0.750	0.996	0.173	0.157	0.376	1.598	2.45

Straight Lug Wide Contour Attachments



WSA-1



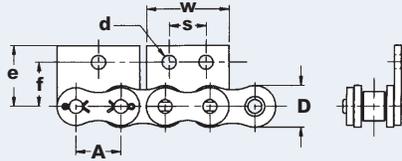
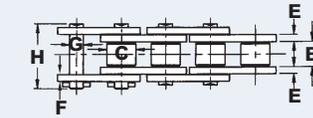
WSK-1



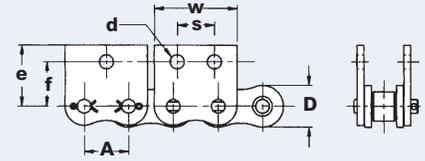
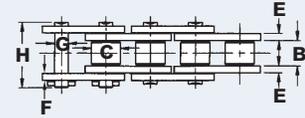
WSA-2



WSK-2



WSA-1 (Straight Lug 1 Side - 1 Hole)
WSA-2 (Straight Lug 1 Side - 2 Holes)



WSK-1 (Straight Lug 2 Sides - 1 Hole)
WSK-2 (Straight Lug 2 Sides - 2 Holes)

Syno® WSA-1, WSA-2 & WSK-1, WSK-2 Attachment Dimensions

Dimensions are in inches unless otherwise indicated.

Chain	Hole Diameter	WSA-1 / WSA-2 WSK-1 / WSK-2 C/L to Attach Top	WSA-1 / WSA-2 WSK-2 / WSK-2 C/L to Attach Hole	Attachment Hole Pitch	Tab Width	WSA-1 / WSA-2 Additional Wgt/Att	WSK-1 / WSK-2 Additional Wgt/Att
	d	e	f	s	w	Lbs/Pc	Lbs/Pc
40	0.142	0.732	0.500	0.500	0.945	0.003	0.006
50	0.209	0.902	0.626	0.622	1.192	0.007	0.014
60	0.209	1.063	0.721	0.748	1.402	0.012	0.024
80	0.260	1.564	0.969	1.001	1.820	0.028	0.056
100	0.343	1.703	1.250	1.250	2.404	0.055	0.110

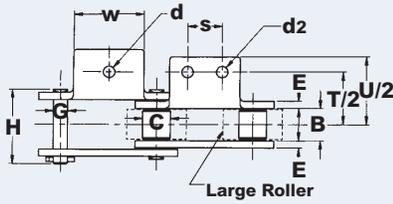
Base Chain Dimensions

Chain No.	Pitch	Inside Width Min	Roller Diameter Max	Plate Height Max	Inner Plate Thickness Max	Outer Plate Thickness Max	Pin Diameter Max	Pin Length Max	Weight
	A	B	C	D	E	F	G	H	Lbs/Ft
40	0.500	0.309	0.312	0.461	0.071	0.059	0.157	0.665	0.45
50	0.625	0.370	0.400	0.575	0.095	0.079	0.200	0.831	0.75
60	0.750	0.495	0.469	0.689	0.127	0.094	0.235	1.063	1.16
80	1.000	0.620	0.625	0.906	0.160	0.118	0.313	1.327	1.94
100	1.250	0.744	0.750	0.996	0.173	0.157	0.376	1.598	2.45

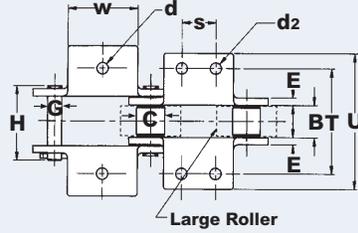
Syno® Attachment Chain

Attachment

Bent Lug Attachments



A-1 (Bent Lug 1 Side - 1 Hole)
A-2 (Bent Lug 1 Side - 2 Holes)



K-1 (Bent Lug 2 Sides - 1 Hole)
K-2 (Bent Lug 2 Sides - 2 Holes)



A-1



K-1



A-2



K-2

Syno® A-1, A-2 & K-1, K-2 Double Pitch Attachment Dimensions

Dimensions are in inches unless otherwise indicated.

Chain No.	A-1 / K-1 Across Attach Holes	C/L to Attach Hole	A-1 / K-1 Overall Width	C/L to Attach End	A-1 / K-1 Hole Diameter	A-2 / K-2 Hole Diameter	C/L to Top of Attach	Attachment Hole Pitch	Tab Width	A-1 / A-2 Additional Wgt/Att	K-1 / K-2 Additional Wgt/Att
	T	T/2	U	U/2	d	d ₂	h	s	w	Lbs/Pc	Lbs/Pc
C2040	1.000	0.500	1.520	0.760	0.138	0.138	0.358	0.375	0.750	0.007	0.014
C2050	1.250	0.625	1.900	0.950	0.209	0.209	0.437	0.468	0.937	0.014	0.028
C2060	1.686	0.843	2.430	1.215	0.209	0.209	0.579	0.562	1.130	0.033	0.066
C2080	2.190	1.095	3.190	1.595	0.280	0.280	0.752	0.750	1.500	0.070	0.140

Base Chain Dimensions

Chain No.	Pitch	Inside Width Min	Roller Diameter Max	Plate Height Max	Plate Thickness Max	Pin Diameter Max	Pin Length Max	Weight
	A	B	C	D	E/F	G	H	Lbs/Ft
C2040	1.000	0.309	0.312	0.465	0.061	0.157	0.646	0.34
C2050	1.250	0.370	0.400	0.591	0.080	0.200	0.803	0.56
C2060	1.500	0.495	0.469	0.701	0.127	0.235	1.126	0.96
C2080	2.000	0.620	0.625	0.949	0.159	0.313	1.409	1.62

Straight Lug Attachments



SA-1



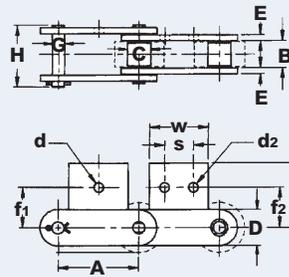
SK-1



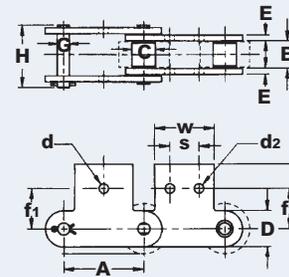
SA-2



SK-2



SA-1 (Straight Lug 1 Side - 1 Hole)
SA-2 (Straight Lug 1 Side - 2 Holes)



SK-1 (Straight Lug 2 Sides - 1 Hole)
SK-2 (Straight Lug 2 Sides - 2 Holes)

Syno® SA-1, SA-2 & SK-1, SK-2 Double Pitch Attachment Dimensions

Chain	SA-1 / SK-1 Hole Diameter	SA-2 / SK-2 Hole Diameter	C/L to Attach End	SA-1 / SK-1 C/L to Attach Hole	SA-2 / SK-2 C/L to Attach Hole	Attachment Hole Pitch	Tab Width	SA-1 / SA-2 Additional Wgt/Att	SK-1 / SK-2 Additional Wgt/Att
	d	d ₂	e	f ₁	f ₂	s	w	Lbs/Pc	Lbs/Pc
C2040	0.209	0.138	0.783	0.437	0.531	0.375	0.750	0.007	0.014
C2050	0.280	0.209	0.969	0.563	0.626	0.468	0.937	0.014	0.028
C2060	0.331	0.209	1.189	0.689	0.748	0.562	1.130	0.033	0.066
C2080	0.409	0.280	1.594	0.874	1.000	0.750	1.500	0.070	0.140

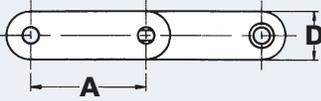
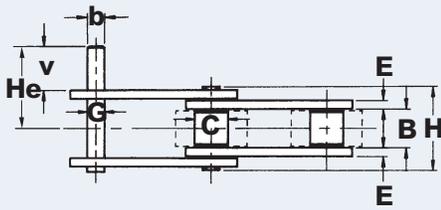
Base Chain Dimensions

Chain No.	Pitch	Inside Width Min	Roller Diameter Max	Plate Height Max	Plate Thickness Max	Pin Diameter Max	Pin Length Max	Weight
	A	B	C	D	E/F	G	H	Lbs/Ft
C2040	1.000	0.309	0.312	0.465	0.061	0.157	0.646	0.34
C2050	1.250	0.370	0.400	0.591	0.080	0.200	0.803	0.56
C2060	1.500	0.495	0.469	0.701	0.127	0.235	1.126	0.96
C2080	2.000	0.620	0.625	0.949	0.159	0.313	1.409	1.62

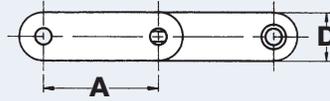
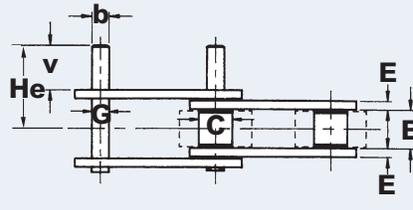
Syno® Attachment Chain

Attachment

Extended Pin Attachments



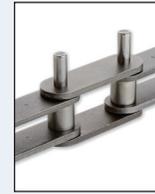
D-1 (1 Pin Extended Per Pin Link)



D-3 (2 Pins Extended Per Pin Link)



D-1



D-3

Syno® D-1 & D-3 Double Pitch Attachment Dimensions

Dimensions are in inches unless otherwise indicated.

Chain No.	C/L to End of Ext Pin	Ext Pin Diameter	Ext Pin Projection	D-1 Additional Wgt/Att	D-3 Additional Wgt/Att
	He	b	v	Lbs/Pc	Lbs/Pc
C2040	0.988	0.156	0.374	0.003	0.006
C2050	1.228	0.200	0.469	0.004	0.008
C2060	1.642	0.235	0.563	0.007	0.014
C2080	2.100	0.313	0.752	0.015	0.030

Base Chain Dimensions

Chain No.	Pitch	Inside Width Min	Roller Diameter Max	Plate Height Max	Plate Thickness Max	Pin Diameter Max	Pin Length Max	Weight
	A	B	C	D	E/F	G	H	Lbs/Ft
C2040	1.000	0.309	0.312	0.465	0.061	0.157	0.646	0.34
C2050	1.250	0.370	0.400	0.591	0.080	0.200	0.803	0.56
C2060	1.500	0.495	0.469	0.701	0.127	0.235	1.126	0.96
C2080	2.000	0.620	0.625	0.949	0.159	0.313	1.409	1.62