

## Corrosion and Temperature Resistant Roller Chain

### General Information

We offer a variety of corrosion and/or temperature resistant roller chain products to suit the particular needs of almost any application. These range from plated or coated carbon steels to a number of different stainless steel types that may be selected based on the desired combination of wear resistance, strength, corrosion resistance and resistance to extremes in operating temperatures.

### Nickel Plating

Suitable for mild corrosive conditions such as outdoor service. Often used for decorative purposes. Chain components are plated prior to assembly for uniform coverage of internal components.

### Perfect Coat Plus®

A unique dual coating consisting of a mechanically applied zinc alloy and a chemical sealer that provides up to 30 times more resistance to rust compared with conventional nickel plating in salt water testing. The coating is extremely durable and will not chip flake or peel during chain assembly. Excellent for usage on conveyors that have wash down stations and subject the chains to mild detergents or soaps.

### Type 304 Stainless

Our standard stainless steel product offers excellent resistance to corrosion and operates successfully over a wide range of temperatures. This material is slightly magnetic due to the work hardening of the components during the manufacturing processes.

### Type 316 Stainless

This material possess greater corrosion and temperature resistance compared with Type 304SS. It is often used in the food processing industry due to its resistance to stress corrosion cracking in the presence of chlorides such as are found in liquid smoke. The magnetic permeability of this material is extremely low and is often considered nonmagnetic however it is not considered to be spark proof.

### 600 Series Stainless

Pins, bushings and rollers are made from 17-4PH stainless steels which can be hardened for improved resistance to wear elongation. The corrosion resistance of this chain is similar to Type 304SS. The operating temperature range of this material however is not as great as Type 304SS.

### Mega Chain:

A high strength 304 stainless steel chain. Available in two versions which use different mechanical configurations to obtain additional strength. Both versions offer higher working loads due to a greater pin/bushing bearing area and a unique labyrinth type seal that helps prevent the penetration of abrasive foreign materials to the internal wearing components.

### General Properties of Corrosion Resistant Roller Chain Products

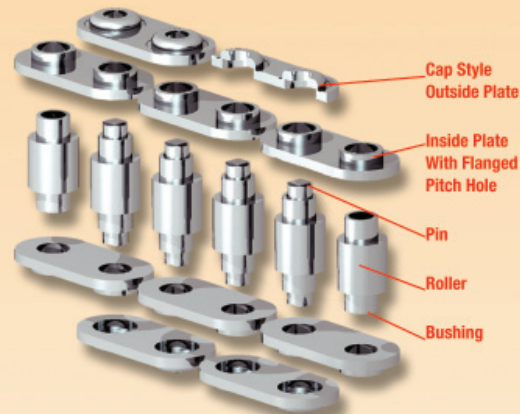
Chain	Corrosion Resistance	Temperature Resistance	Wear Resistance	Strength	Magnetism
Nickel Plate	Fair	14°F - 150°F -10°C - 65°C	Excellent	Excellent	Magnetic
Perfect Coat Plus®	Good	14°F - 150°F -10°C - 65°C	Excellent	Excellent	Magnetic
304 Stainless	Very Good	-250°F - 750°F -155°C - 400°C	Fair	Fair	Slightly Magnetic
316 Stainless	Excellent	-250°F - 950°F -155°C - 510°C	Fair	Fair	Non-magnetic
600 Stainless	Very Good	-50°F - 750°F -45°C - 400°C	Very Good	Fair	Slightly Magnetic
Mega Chain	Very Good	-250°F - 750°F -155°C - 400°C	Very Good	Excellent	Slightly Magnetic

*Take a new look  
at an old product...*



*We've totally re-engineered the traditional stainless steel roller chain product in order to achieve unparalleled strength and wear performance. Now, incredibly, these chains possess ultimate strength ratings which challenge even the best carbon steel products. Wear performance has been increased by 35%-50% due to larger bearing areas and a unique labyrinth seal design.*

**MEGA CHAIN CONSTRUCTION**



**ALL PARTS ARE MADE FROM AISI 304 AUSTENITIC STAINLESS STEEL FOR EXCELLENT HEAT AND CORROSION RESISTANCE.**

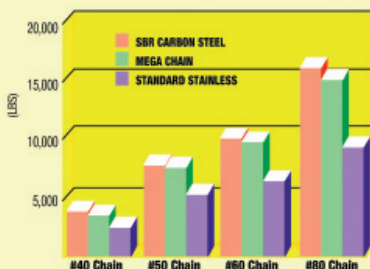
**DUAL FUNCTION LINK PLATE CONSTRUCTION**

Inside and outside link plates work together to improve strength and wear life in two important ways.

1. The "cap" portion of the outer plate engages the flanged portion of the inside plates under load to significantly improve both ultimate and fatigue strength. The improvement is so dramatic that these chains possess ultimate strength ratings which challenge even the best of the premium carbon steel brands.
2. The unique construction provides a labyrinth seal which helps to protect the pin/bushing wear area from abrasive particles and debris while allowing the penetration of lubricant. This feature, in combination with a larger pin/bushing bearing area, improves wear performance by 35%-50%.

**COMPARE ULTIMATE STRENGTH RATINGS**

**AVERAGE TENSILE STRENGTH**



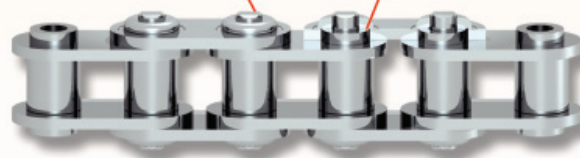
Stainless Steel MEGA CHAIN operates on standard ASME/ANSI sprockets. No special parts are required.

Double strand and double pitch chains are available from the factory.

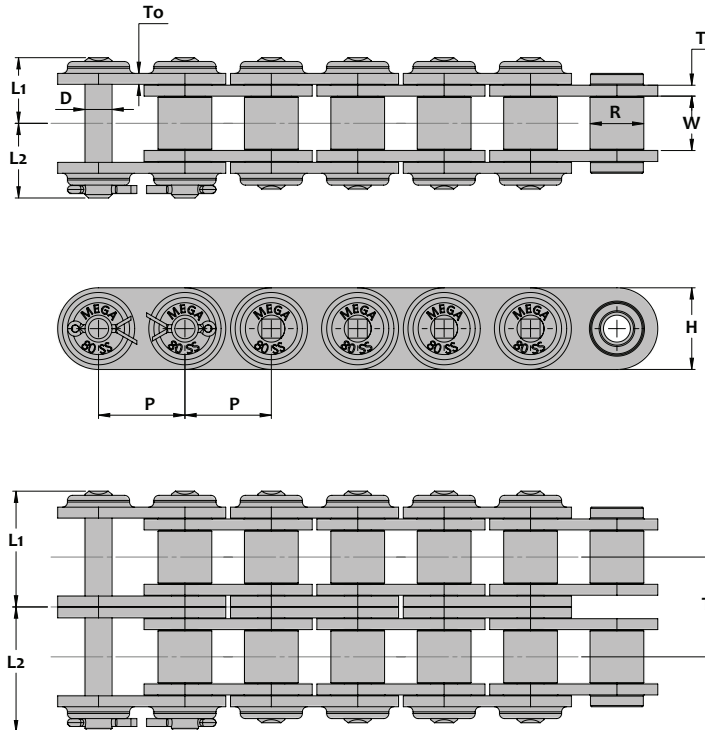
Attachments are available for both the ANSI/ASME series and the double pitch series.

Outside plate "cap" engages the flanged inside plates increasing strength.

Labyrinth seal protects pin / bushing bearing area from contamination while allowing for lubrication.



## ASME/ANSI Standard 304 Stainless Steel Mega Chain



Chain Dimensions - Single Strand

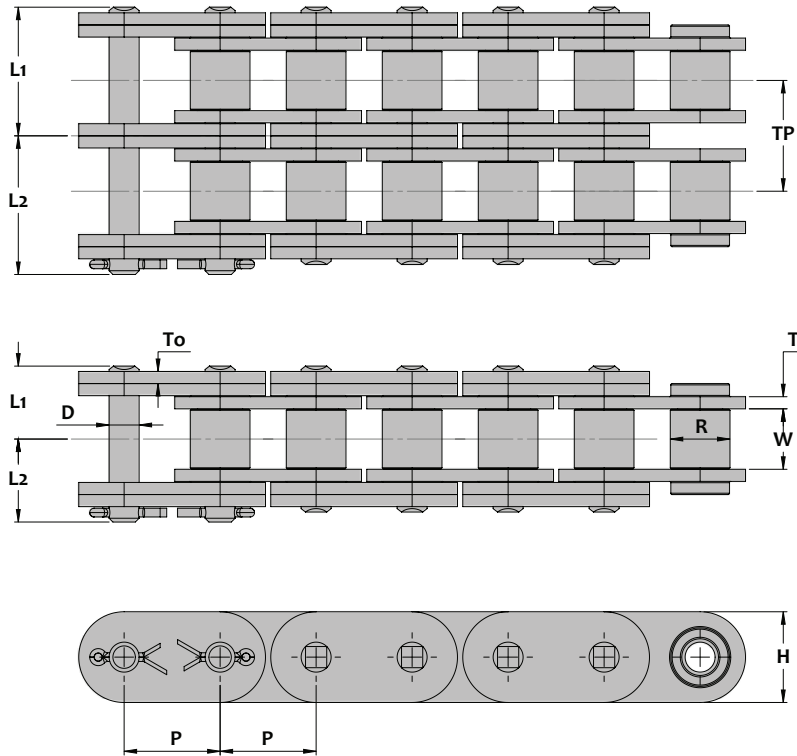
SENQCIA Chain Number	Units	Chain Pitch P	Roller		Pin			Side Plate		Trans. Pitch TP	Average Ultimate Strength Lbs Kg-f	Rated Working Load Lbs Kg-f	Average Chain Weight Lbs/ft Kg/m
			Dia	Inside Width	Dia	Length		Height	Thick.				
			R	W	D	Lr	Lc	H	Ti/To				
40SS-MEGA	inch	0.500	0.312	0.313	0.156	0.38	0.45	0.472	0.060	-	3,960	155	0.51
	mm	12.70	7.92	7.95	3.96	9.7	11.6	12.0	1.5	-	1,800	70	0.76
50SS-MEGA	inch	0.625	0.400	0.375	0.200	0.48	0.56	0.591	0.080	-	7,040	265	0.87
	mm	15.875	10.16	9.53	5.08	12.2	14.3	15.0	2.0	-	3,200	120	1.30
60SS-MEGA	inch	0.750	0.469	0.500	0.234	0.60	0.69	0.712	2.35	-	9,680	365	1.28
	mm	19.05	11.91	12.70	5.94	15.2	17.5	18.1	0.093	-	4,400	166	1.92
80SS-MEGA	inch	1.000	0.625	0.625	0.313	0.76	0.86	0.945	0.118	-	15,840	640	2.15
	mm	25.40	15.88	15.88	7.94	19.3	22.0	24.0	3.0	-	7,200	291	3.21

Chain Dimensions - Double Strand

40-2SS-MEGA	inch	0.500	0.312	0.313	0.156	0.66	0.74	0.472	0.060	0.567	6,600	240	0.95
	mm	12.70	7.92	7.95	3.96	16.9	18.8	12.0	1.5	14.4	3,000	109	1.42
50-2SS-MEGA	inch	0.625	0.400	0.375	0.200	0.83	0.92	0.591	0.080	0.713	10,560	420	1.64
	mm	15.875	10.16	9.53	5.08	21.2	23.3	15.0	2.0	18.1	4,800	191	2.45
60-2SS-MEGA	inch	0.750	0.469	0.500	0.234	1.05	1.14	0.712	2.35	0.898	14,960	615	2.39
	mm	19.05	11.91	12.70	5.94	26.6	28.9	18.1	0.093	22.8	6,800	280	3.56
80-2SS-MEGA	inch	1.000	0.625	0.625	0.313	1.34	1.44	0.945	0.118	1.154	23,760	1,080	3.87
	mm	25.40	15.88	15.88	7.94	34.0	36.6	24.0	3.0	29.3	10,800	491	5.76

# ASME/ANSI Standard 304 Stainless Steel Mega Chain II

Mega Chain II utilizes two straight outside plates on each side rather than the concave formed outside plate. The ultimate strength of this series is slightly higher than standard Mega Chain.



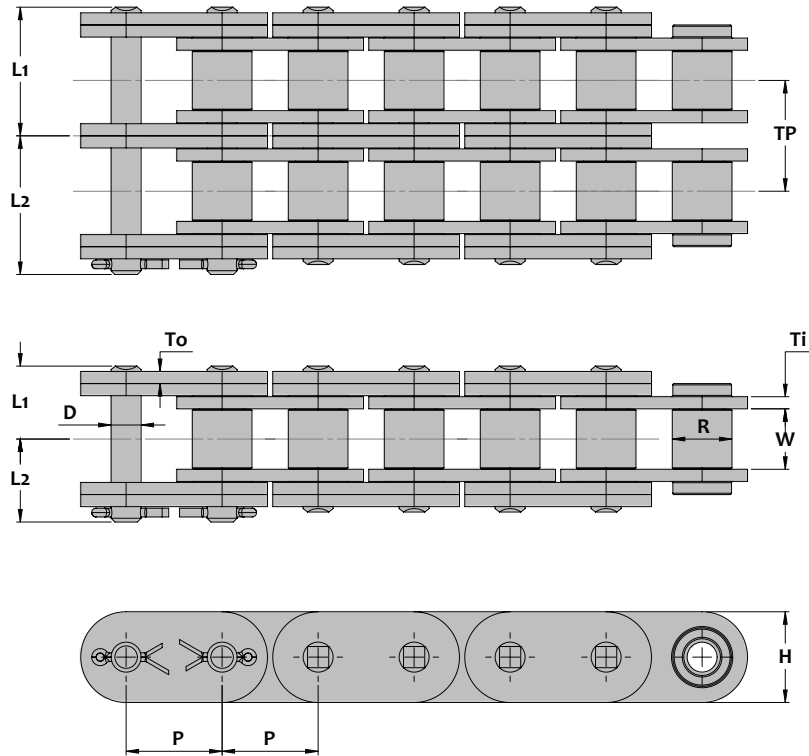
Chain Dimensions - Single Strand

SENQCIA Chain Number	Units	Chain Pitch P	Roller		Pin		Side Plate		Trans. Pitch TP	Average Ultimate Strength Lbs Kg-f	Rated Working Load Lbs Kg-f	Average Chain Weight Lbs/ft Kg/m	
			Dia R	Inside Width W	Dia D	Length L1   L2	Height H	Thick. Ti/To					
40SS-MEGA II	inch	0.500	0.312	0.313	0.156	0.38	0.45	0.472	0.060	-	4,400	155	0.60
	mm	12.70	7.92	7.95	3.96	9.7	11.6	12.0	1.5	-	2,000	70	0.90
50SS-MEGA II	inch	0.625	0.400	0.375	0.200	0.48	0.56	0.591	0.080	-	7,700	265	1.04
	mm	15.875	10.16	9.53	5.08	12.2	14.3	15.0	2.0	-	3,500	120	1.55
60SS-MEGA II	inch	0.750	0.469	0.500	0.234	0.60	0.69	0.712	2.35	-	10,560	365	1.54
	mm	19.05	11.91	12.70	5.94	15.2	17.5	18.1	0.093	-	4,800	166	2.29
80SS-MEGA II	inch	1.000	0.625	0.625	0.313	0.76	0.86	0.945	0.118	-	17,600	640	2.62
	mm	25.40	15.88	15.88	7.94	19.3	22.0	24.0	3.0	-	8,000	291	3.90

Chain Dimensions - Double Strand

40-2SS-MEGA II	inch	0.500	0.312	0.313	0.156	0.66	0.74	0.472	0.060	0.567	7,350	240	1.04
	mm	12.70	7.92	7.95	3.96	16.9	18.8	12.0	1.5	14.4	3,340	109	1.56
50-2SS-MEGA II	inch	0.625	0.400	0.375	0.200	0.83	0.92	0.591	0.080	0.713	11,550	420	1.81
	mm	15.875	10.16	9.53	5.08	21.2	23.3	15.0	2.0	18.1	5,250	191	2.70
60-2SS-MEGA II	inch	0.750	0.469	0.500	0.234	1.05	1.14	0.712	2.35	0.898	16,260	615	2.65
	mm	19.05	11.91	12.70	5.94	26.6	28.9	18.1	0.093	22.8	7,390	280	3.95
80-2SS-MEGA II	inch	1.000	0.625	0.625	0.313	1.34	1.44	0.945	0.118	1.154	26,400	1,080	4.33
	mm	25.40	15.88	15.88	7.94	34.0	36.6	24.0	3.0	29.3	12,000	491	6.46

## ISO 606B British Standard 304 Stainless Steel Mega Chain II



Chain Dimensions - Single Strand

SENQCIA Chain Number	Units	Chain Pitch P	Roller		Pin			Side Plate		Trans. Pitch TP	Average Ultimate Strength Lbs Kg-f	Rated Working Load Lbs Kg-f	Average Chain Weight Lbs/ft Kg/m	
			Dia	Inside Width	Dia	Length		Height	Thickness					
			R	W	D	L1	L2	H	Ti					To
08BSS-MEGA II	inch	0.500	0.335	0.305	0.175	0.38	0.45	0.465	0.060		-	4,400	175	0.65
	mm	12.70	8.51	7.75	4.44	9.7	11.6	11.81	1.50		-	2,000	80	0.97
10BSS-MEGA II	inch	0.625	0.400	0.375	0.200	0.48	0.56	0.591	0.080		-	7,700	265	1.04
	mm	15.875	10.16	9.53	5.08	12.2	14.3	15.0	2.0		-	3,500	120	1.55
12BSS-MEGA II	inch	0.750	0.475	0.460	0.223	0.51	0.60	0.630	0.071		-	7,700	310	1.14
	mm	19.05	12.07	11.68	5.67	13.0	15.3	16.0	1.8		-	3,500	141	1.70
16BSS-MEGA II	inch	1.000	0.625	0.670	0.326	0.79	0.88	0.945	0.118	0.125	-	17,600	660	2.62
	mm	25.40	15.88	17.02	8.28	20.0	22.4	24.0	3.0	3.2	-	8,000	300	3.91

Chain Dimensions - Double Strand

08B-2SS-MEGA II	inch	0.500	0.335	0.305	0.175	0.66	0.73	0.465	0.060		0.548	7,350	275	1.17
	mm	12.70	8.51	7.75	4.44	16.7	18.5	11.81	1.50		13.92	3,340	125	1.75
10B-2SS-MEGA II	inch	0.625	0.400	0.375	0.200	0.83	0.92	0.591	0.080		0.713	11,550	420	1.73
	mm	15.875	10.16	9.53	5.08	21.2	23.3	15.0	2.0		18.1	5,250	191	2.58
12B-2SS-MEGA II	inch	0.750	0.475	0.460	0.223	0.90	0.98	0.630	0.071		0.766	11,550	515	1.99
	mm	19.05	12.07	11.68	5.67	22.8	25.0	16.0	1.8		19.46	5,250	234	2.96
16B-2SS-MEGA II	inch	1.000	0.625	0.670	0.326	1.41	1.51	0.945	0.118	0.125	1.255	26,400	1,120	4.88
	mm	25.40	15.88	17.02	8.28	35.9	38.3	24.0	3.0	3.2	31.88	12,000	509	7.27