

RENOLD



Stainless steel chain **BS / ANSI standard chain**



RENOLD Coris

Stainless steel chain: BS / ANSI standard



Renold Coris Roller Chain is manufactured using Class 300 Series stainless steel specification. These chains are ideal for acidic or alkaline environments, or where the chain will be exposed to water, and for very high or very low temperature locations, where resistance to corrosion is a requirement. Renold Coris Chain should be selected when resistance to chemical action is critical. Renold Coris is manufactured using FDA approved material and is pre-lubricated with USDA H1 approved lubricant.

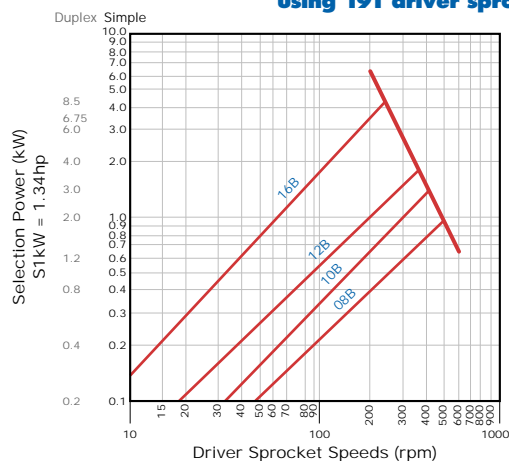
FEATURES

- Renold ultimate specification
- Austenitic stainless steel
- Solid stainless steel roller
- Easily cut to length
- High and low temperature capability
- Chain supplied with USDA H1 approved lubrication as standard
- Range of stainless steel attachments: M1, K1, K2 and extended bearing pins - Type D
- Please note that the bearing load of stainless steel is less than it's equivalent ISO606 version - refer to chart

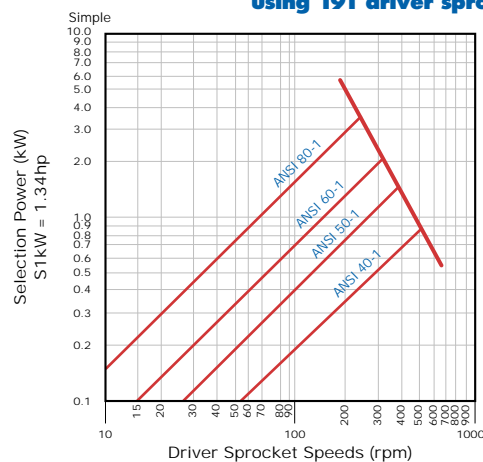
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|---|
| <ul style="list-style-type: none"> - Maximum Bearing Pressure = 10N/mm² - Maximum Chain Speed = 2m/sec - Temperature Range - 40° to 400°C |
|---|



Renold Coris BS Selection Chart using 19T driver sprockets



Renold Coris ANSI Selection Chart using 19T driver sprockets



APPLICATIONS

Food and Packaging industry where:

- Corrosive atmospheres e.g., caustic solution for washing down
- Regulations require the use of stainless steel
- Relatively low loads are the norm - biscuit machines, food packaging machines
- High temperature applications such as in the food processing industry

Typical industries:

- Bakery machines
- Canning plant
- Food packaging / preparation plant
- Industrial catering equipment
- Pet food processing
- Pharmaceutical industry
- Textiles and clothing manufacture

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CASE STUDY: CATERING EQUIPMENT.

A major industrial catering equipment manufacturer was experiencing very short chain life on the conveying system in their industrial dishwashers. The product supplied was three-quarter inch stainless steel chain, which was used to transport dirty dishes through the dishwasher.

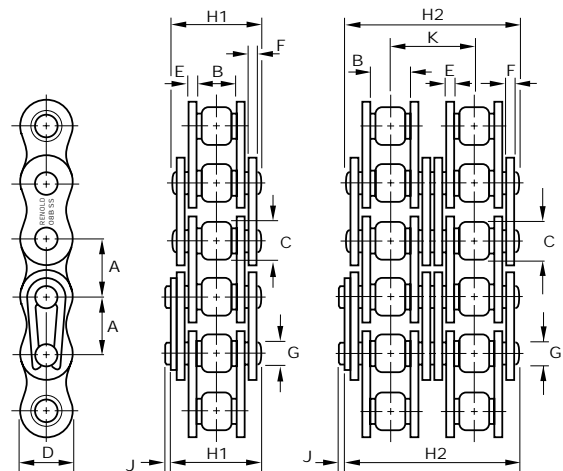
The installed chain needed replacement after as little as three months operation, due to difficulties experienced as a result of the curled rollers opening during operation and consequently a complete failure of the chain. The combination of curled rollers and poor assembly practices, when used in this hostile environment (hot water, steam and detergents) led to regular, frequent failure of the competitor's chain.

The Renold engineer recommended that the customer start using Renold Coris, a higher performance stainless steel chain with solid rollers to prevent the recurrence of the previous problem. The customer accepted the advice and fitted Renold Coris BS standard stainless steel chain.

The Renold Coris chain is operating after eight months without replacement and Renold Coris has now been adopted for all dishwasher equipment within the customer's product range. The catering equipment manufacturer is delighted with the new chain and the savings he now enjoys.



- Reduction of downtime due to chain problems
- Extension of chain life
- Saving of chain replacement costs



BS standard stainless steel chain - Simple

Chain		Technical Details											Connecting Links						
ISO No.	Renold Chain No.	Pitch Inch	Pitch mm	Inside Width	Roller Dia.	Plate Height	Plate Width Inner	Plate Width Outer	Pin Dia.	Pin Len.	Con Link Extra	Trans Pitch	Breaking Load F_b Newtons Min	Bearing Area Nom.mm ²	Weight kg/m	No. 4	No. 107	No. 26	No. 11
		A	A	B	C	D	E	F	G	H1	J	K							
08B-1	181707	0.50	12.7	7.75	8.51	11.89	1.5	1.5	4.45	17.5	3.9	-	11770	50	0.68	✓	✓	✓	✓
10B-1	180280	0.625	15.87	9.65	10.16	14.7	1.5	1.5	5.08	20.0	4.1	-	14700	68	0.85	✓	✓	✓	✓
12B-1	185634	0.75	19.05	11.68	12.07	16.1	1.8	1.8	5.72	23.6	4.6	-	18640	89	1.16	✓	✓	✓	✓
16B-1	187900	1.00	25.4	17.02	15.88	21.0	4.0	3.2	8.27	36.7	5.4	-	43160	207	2.71	✓	✓	✓	✓

BS standard stainless steel chain - Duplex

		A	A	B	C	D	E	F	G	H2	J	K							
08B-2	185125	0.50	12.7	7.75	8.51	11.8	1.5	1.5	4.45	31.0	3.9	13.92	23430	100	1.35	✓	✓	✓	✓
10B-2	185126	0.625	15.87	9.65	10.16	14.7	1.5	1.5	5.08	36.2	4.1	16.59	29430	134	1.85	✓	✓	✓	✓
12B-2	185127	0.75	19.05	11.68	12.07	16.1	1.8	1.8	5.72	42.2	4.6	19.46	37280	178	2.50	✓	✓	✓	✓
16B-2	185128	1.00	25.4	17.02	15.88	21.0	4.0	3.2	8.27	68.0	5.4	31.88	68000	413	5.4	✓	✓	✓	✓

ANSI standard stainless steel chain - Simple

Chain		Technical Details											Connecting Links								
ANSI No.	Renold Chain No.	Pitch Inch	Pitch mm	Inside Width	Roller Dia.	Plate Height	Plate Width Inner	Plate Width Outer	Pin Dia.	Pin Len.	Con Link Extra	Trans Pitch	Breaking Load F_b Newtons Min	Weight kg/m	No. 4	No. 107	No. 11	No. 26	No. 58	No. 12	No. 30
		A	A	B	C	D	E	F	G	H1	J	K									
35	545351	0.375	9.525	4.68	5.08	8.66	1.3	1.3	3.59	15.5	3.3	-	7560	0.33	✓	✓	-	✓	-	✓	✓
40	545401	0.50	12.7	7.85	7.92	11.15	1.55	1.55	3.98	17.8	3.9	-	10690	0.63	✓	✓	✓	✓	-	✓	✓
50	545501	0.625	15.875	9.4	10.16	14.55	2.03	2.03	5.07	21.8	4.1	-	16810	1.05	✓	✓	✓	✓	-	✓	✓
60	545601	0.75	19.05	12.58	11.91	17.45	2.39	2.39	5.96	26.9	4.6	-	24030	1.55	✓	✓	✓	✓	-	✓	✓
80	545801	1.00	25.4	15.75	15.88	24.05	3.25	3.25	7.93	33.5	5.4	-	51000	2.80	✓	✓	✓	✓	-	✓	-

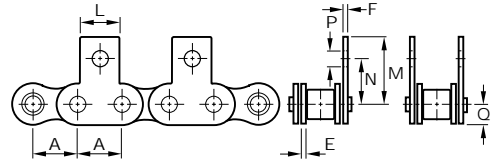
N.B. Consult Renold for specific requirements.

RENOLD Coris

Stainless steel chain: BS standard attachments

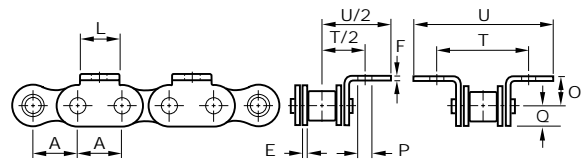
Renold Coris BS standard M1 attachments

ISO No.	Renold Chain No.	Pitch Inch	Pitch mm	E	F	L	M	N	P	Q
		A	A							
08B-1	181707	0.50	12.7	1.57	1.57	11.56	19.00	12.7	4.19	6.8
10B-1	180280	0.625	15.875	1.57	1.57	12.83	22.54	15.875	4.98	6.8
12B-1	185634	0.75	19.05	1.83	1.83	16.64	31.98	22.23	7.14	8.02
16B-1	187900	1.0	25.4	4.06	3.1	24.32	34.13	23.8	6.73	10.27



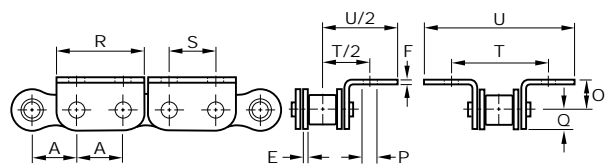
Renold Coris BS standard K1 attachments

ISO No.	Renold Chain No.	Pitch Inch	Pitch mm	E	F	L	O	P	Q	T	U
		A	A								
08B-1	181707	0.50	12.7	1.57	1.57	11.56	8.89	4.19	6.8	23.8	37.92
10B-1	180280	0.625	15.875	1.57	1.57	12.83	10.16	4.98	6.8	31.75	44.45
12B-1	185634	0.75	19.05	1.83	1.83	16.64	13.49	7.14	8.02	38.1	59.66
16B-1	187900	1.0	25.4	4.06	3.1	24.32	15.24	6.68	10.27	47.63	74.45



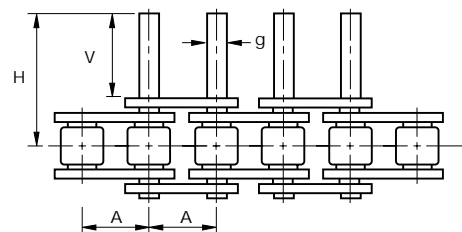
Renold Coris BS standard K2 attachments

ISO No.	Renold Chain No.	Pitch Inch	Pitch mm	E	F	O	P	Q	R	S	T	U
		A	A									
08B-1	181707	0.50	12.7	1.57	1.57	9.89	4.85	6.8	24.50	12.7	25.4	40.46
10B-1	180280	0.625	15.875	1.57	1.57	10.16	4.98	6.8	29.97	15.875	31.75	45.75
12B-1	185634	0.75	19.05	1.83	1.83	11.43	5.54	8.02	35.48	19.05	34.93	51.41
16B-1	187900	1.0	25.4	4.06	3.1	15.875	8.08	10.27	45.91	25.4	57.15	78.26



Renold Coris BS standard extended bearing pins - type D

ISO No.	Renold Chain No.	Pitch Inch	Pitch mm	Pin diameter ± 0.01	Extension length ± 0.25	Chain track from chain centre line (max)
		A	A	g	V	H
08B-1	181707	0.50	12.70	4.45	14.80	22.10
10B-1	180280	0.625	15.87	5.08	17.60	25.95
12B-1	185634	0.75	19.05	5.72	20.70	30.45
16B-1	187900	1.0	25.40	8.28	33.30	49.30



N.B. ANSI standard attachments will be available shortly. Please contact Renold for more information.

RENOLD Coris

Unique quality and safety

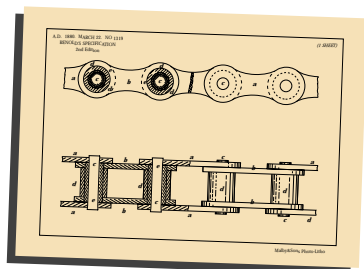
'IN A CLASS OF ITS OWN'

Renold, the inventor of Bush Roller Chain has led the world in chain technology for more than a century.



Only products designed and supplied to our specification carry the MARK OF EXCELLENCE, 'RENOLD'. You can be sure that when you choose such a product, Renold Service, Quality, Value for Money and LONG LIFE PERFORMANCE are guaranteed.

Original patent drawing 1880



A UNIQUE SERVICE



Renold, the premier chain company is dedicated to providing national and global customers with products to the ultimate of specification and design, manufactured to exceed the highest international standards.

Investment in manufacturing and process technology, combined with an international sales and distribution network, places Renold's commitment to the development of chain products and customer service at the forefront of the industry. Renold's 16 national sales companies and over 70 country distributors around the world have direct access to extensive Renold design, test and manufacturing facilities, enabling the chain required to be promptly specified and produced. Renold, the power transmission specialists, provide a worldwide customer orientated product service.

CONSISTENCY

Only materials that meet the Renold exacting specifications are used for the manufacture of our chain components.

Stringent process control at every stage of production including component manufacture, heat treatment, and assembly, ensure the consistent quality of all Renold Chain.



Every chain is proof loaded, resulting in minimum initial wear, greater fatigue resistance and improved wear performance.



Corrosion protection and long life are achieved by automatically coating every chain with a specially formulated lubricant. Chain lubrication is one of the most important factors in achieving a long and trouble free service life. Renold can advise the correct method to suit your needs.



QUALITY

Our commitment to quality ensures that Renold Transmission and Conveyor Chain conforms to and surpasses the highest international standards of manufacture and design, including approval by the American Petroleum Institute.

All of our manufacturing systems conform to API and ISO9001.



Renold employees are fully trained to ensure all products meet the unique Renold specification.



We also manufacture to the specifications required by API, BAe, CAA, LONDON UNDERGROUND, ROLLS-ROYCE and JAGUAR.

RENOLD Coris-say no to chain corrosion



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