



Extreme Performance from Rexnord

RexAthletic

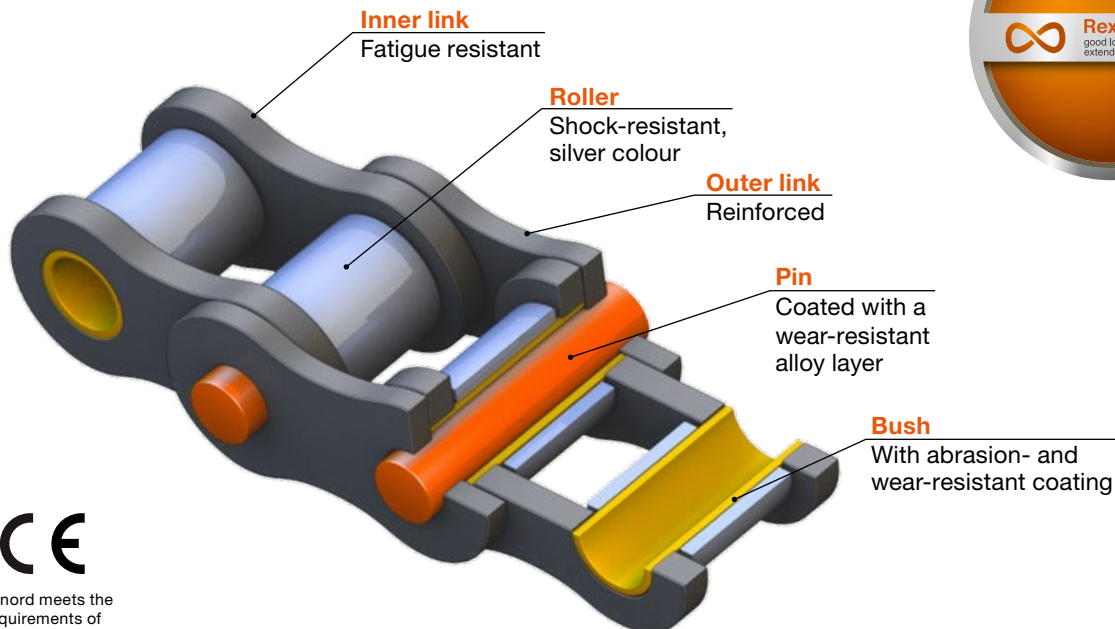


RexAthletic
good loading capacity
extended lubrication intervals



RexAthletic

Extreme Performance from Rexnord.



Rexnord meets the
requirements of
Machine Directive
2006/42/EC

APPLICATION

- Where maintenance & lubrication possibilities are restricted
- High loads under difficult conditions
- Enclosed systems

CHARACTERISTICS

- Outstanding tribological characteristics
- Excellent slip properties and good dry running characteristics
- Fatigue resistance and chain traction comparable with Rexnord high-performance chains
- Improved protection against chain joint stiffness
- NSF H2 certification for the food industry
- Chain sizes with pitch from 12.7 mm to 50.8 mm available (special sizes on request)
- All dimensions in accordance with DIN, ANSI and ISO standards

ADVANTAGES

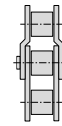
- Reduced maintenance requirements and longer lubrication intervals
- High wear resistance even with inadequate lubrication
- Long service life under tough loading conditions
- Improved cost-effectiveness
- Visually attractive chains

LUBRICATION

- High quality long-term lubricant
- No spraying or splashing of lubricant
- Water resistant
- Temperature range from 0° C to + 120° C
- Temperature range extension from -40° C to +250° C possible with high- or low-temperature lubricants

RexAthletic - European Standard

Extreme Performance from Rexnord.



Simplex roller chains



Applications & Characteristics

- Ideal where maintenance & lubrication possibilities are restricted
- High loading capacity



Maintenance & Service life

- Longer maintenance and lubrication intervals
- Long service life



Eco-friendly

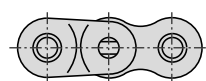
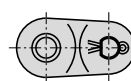
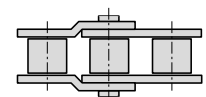
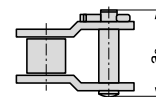
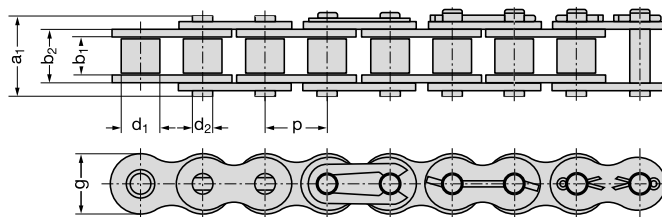
- NSF H2 certification



Rexnord meets the requirements of Machine Directive 2006/42/EC

RexAthletic-Simplex roller chains, DIN ISO 606 (DIN 8187)

Chain No.	Pitch		Width between inner plates	Roller diameter	Pin diameter	Width over inner link	Plate depth	Transverse pitch	Pin length	Connecting pin length	Bearing area	Required minimum tensile strength DIN/ISO	Average tensile strength	Weight	Loose parts					
	inch	mm	b ₁ min	d ₁ max	d ₂ max	b ₂ max	g max	e	a ₁ max	a ₃ max	A	F _U	F _B	q	A	B	C	E	L	S
08 B - 1	0.50	12.7	7.75	8.51	4.45	11.30	11.6	-	17.0	20.9	0.50	17 800	21 000	0.7	x	x	x	x	x	
10 B - 1	0.625	15.875	9.65	10.16	5.08	13.28	14.6	-	19.6	23.7	0.67	22 200	25 000	0.9	x	x	x	x	x	
12 B - 1	0.75	19.05	11.68	12.07	5.72	15.62	15.9	-	22.7	27.3	0.89	28 900	32 000	1.2	x	x	x	x	x	
16 B - 1	1.00	25.4	17.02	15.88	8.28	25.40	20.5	-	36.1	42.4	2.10	60 000	80 000	2.6	x	x	x	x	x	
20 B - 1	1.25	31.75	19.56	19.05	10.19	29.00	25.7	-	40.4	47.6	2.96	95 000	120 000	3.7	x	x			x	x
24 B - 1	1.50	38.1	25.40	25.40	14.63	37.90	33.0	-	53.8	60.6	5.54	160 000	211 000	6.9	x	x			x	x
28 B - 1	1.75	44.45	30.99	27.94	15.80	46.50	37.0	-	63.3	72.8	7.39	200 000	250 000	8.6	x	x			x	x
32 B - 1	2.00	50.8	30.99	29.21	17.81	45.50	41.2	-	65.1	73.6	8.10	250 000	315 000	9.5	x	x			x	x



B
inner
link

A
outer
link

E
connecting link
with clip

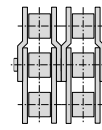
S
connecting link
with cotter pin

L
cranked link
with cotter pin

C
double
cranked link

RexAthletic - European Standard

Extreme Performance from Rexnord.



Duplex roller chains



Applications & Characteristics

- Ideal where maintenance & lubrication possibilities are restricted
- High loading capacity



Maintenance & Service life

- Longer maintenance and lubrication intervals
- Long service life



Rexnord meets the requirements of Machine Directive 2006/42/EC

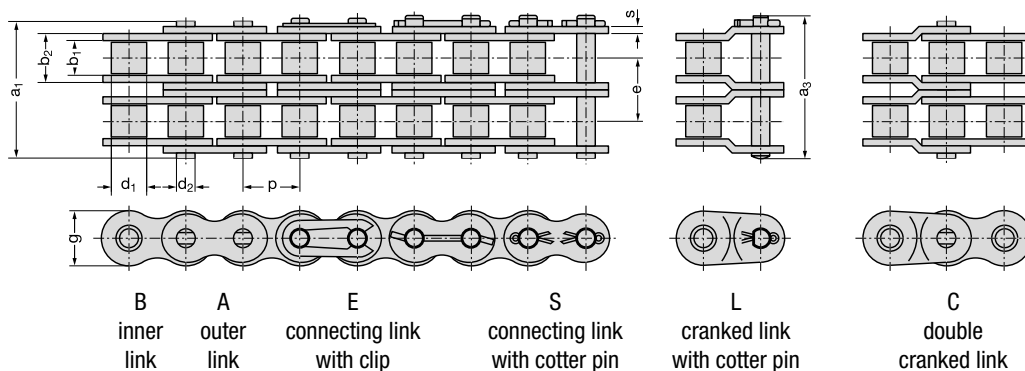


Eco-friendly

- NSF H2 certification

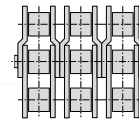
RexAthletic-Duplex roller chains, DIN ISO 606 (DIN 8187)

Chain No.	Pitch		Width between inner plates		Roller diameter	Pin diameter	Width over inner link	Plate depth	Transverse pitch	Pin length	Connecting pin length	Bearing area	Required minimum tensile strength DIN/ISO	Average tensile strength	Weight	Loose parts					
	p	inch	b ₁ min	b ₁ max	d ₁ max	d ₂ max	b ₂ max	g max	e	a ₁ max	a ₃ max	A	F _U	F _B	q	A	B	C	E	L	S
08 B - 2	0.50	12.7	7.75	8.51	4.45	11.30	11.6	13.92	30.6	33.0	1.01	31 100	43 000	1.4	x	x	x	x	x		
10 B - 2	0.625	15.875	9.65	10.16	5.08	13.28	14.6	16.59	35.5	38.6	1.34	44 500	50 000	1.8	x	x	x	x	x		
12 B - 2	0.75	19.05	11.68	12.07	5.72	15.62	15.9	19.46	41.7	44.4	1.79	57 800	64 000	2.3	x	x	x	x	x		
16 B - 2	1.00	25.4	17.02	15.88	8.28	25.40	20.5	31.88	67.4	74.0	4.21	106 000	140 000	5.3	x	x	x	x	x		
20 B - 2	1.25	31.75	19.56	19.05	10.19	29.00	25.7	36.45	76.9	83.6	5.91	170 000	210 000	7.3	x	x			x	x	
24 B - 2	1.50	38.1	25.40	25.40	14.63	37.90	33.0	48.36	102.2	112.7	11.09	280 000	370 000	13.8	x	x			x	x	
28 B - 2	1.75	44.45	30.99	27.94	15.90	46.50	37.0	59.56	122.8	132.7	14.79	360 000	500 000	17.3	x	x			x	x	
32 B - 2	2.00	50.8	30.99	29.21	17.81	45.50	41.2	58.55	123.6	132.4	16.21	450 000	530 000	18.8	x	x			x	x	



RexAthletic - European Standard

Extreme Performance from Rexnord.



Triplex roller chains



Applications & Characteristics

- Ideal where maintenance & lubrication possibilities are restricted
- High loading capacity



Maintenance & Service life

- Longer maintenance and lubrication intervals
- Long service life



Eco-friendly

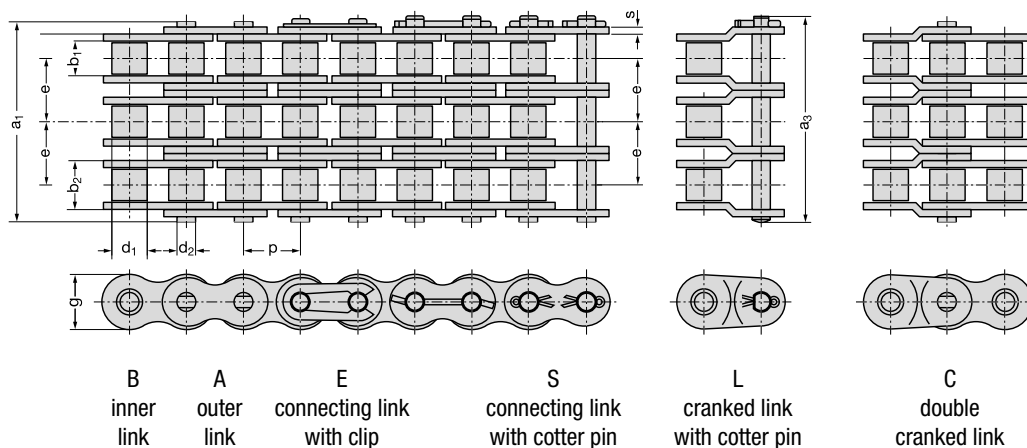
- NSF H2 certification



Rexnord meets the requirements of Machine Directive 2006/42/EC

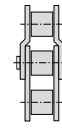
RexAthletic-Triplex roller chains, DIN ISO 606 (DIN 8187)

Chain No.	Pitch		Width between inner plates	Roller diameter	Pin diameter	Width over inner link	Plate depth	Transverse pitch	Pin length	Connecting pin length	Bearing area	Required minimum tensile strength DIN/ISO	Average tensile strength	Weight	Loose parts																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
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RexAthletic - American Standard

Extreme Performance from Rexnord.



Simplex roller chains



Applications & Characteristics

- Ideal where maintenance & lubrication possibilities are restricted
- High loading capacity



Maintenance & Service life

- Longer maintenance and lubrication intervals
- Long service life



Rexnord meets the requirements of Machine Directive 2006/42/EC

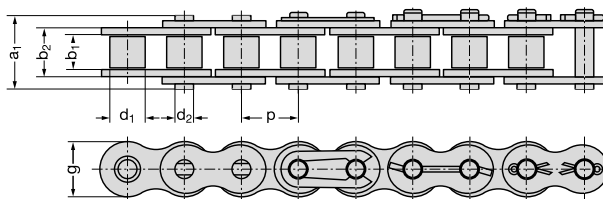


Eco-friendly

- NSF H2 certification

RexAthletic-Simplex roller chains, DIN ISO 606 (DIN 8188)

Chain No.	Pitch		Width between inner plates	Roller diameter	Pin diameter	Width over inner link	Plate depth	Transverse pitch	Pin length	Connecting pin length	Bearing area	Required minimum tensile strength DIN/ISO	Average tensile strength	Weight	Loose parts					
	inch	mm	b ₁ min	d ₁ max	d ₂ max	b ₂ max	g max	e	a ₁ max	a ₃ max	A	F _U	F _B	q	A	B	C	E	L	S
40 - 1	0.50	12.7	7.85	7.95	3.96	11.15	11.6	—	16.3	19.1	0.44	13 900	20 000	0.7	x	x	x	x	x	
50 - 1	0.625	15.875	9.40	10.16	5.08	13.80	14.6	—	20.3	23.0	0.70	21 800	30 000	1.1	x	x	x	x	x	
60 - 1	0.75	19.05	12.57	11.91	5.94	17.70	17.7	—	25.7	28.6	1.05	31 300	40 000	1.5	x	x	x	x	x	
80 - 1	1.00	25.4	15.75	15.88	7.92	22.50	23.5	—	33.0	38.0	1.78	55 600	65 000	2.6	x	x	x	x	x	
100 - 1	1.25	31.75	18.90	19.05	9.53	27.40	29.2	—	39.4	44.9	2.61	87 000	105 000	3.8	x	x			x	x
120 - 1	1.50	38.1	25.22	22.23	11.10	35.30	34.4	—	49.8	56.1	3.92	125 000	145 000	5.5	x	x			x	x
140 - 1	1.75	44.45	25.22	25.40	12.70	37.00	40.8	—	53.4	59.3	4.70	170 000	220 000	7.2	x	x			x	x
160 - 1	2.00	50.8	31.55	28.58	14.27	45.00	47.8	—	63.6	68.9	6.42	223 000	260 000	10.3	x	x			x	x

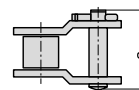


B
inner
link

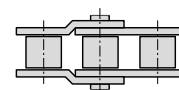
A
outer
link

E
connecting link
with clip

S
connecting link
with cotter pin



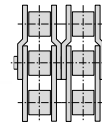
L
cranked link
with cotter pin



C
double
cranked link

RexAthletic - American Standard

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Duplex roller chains



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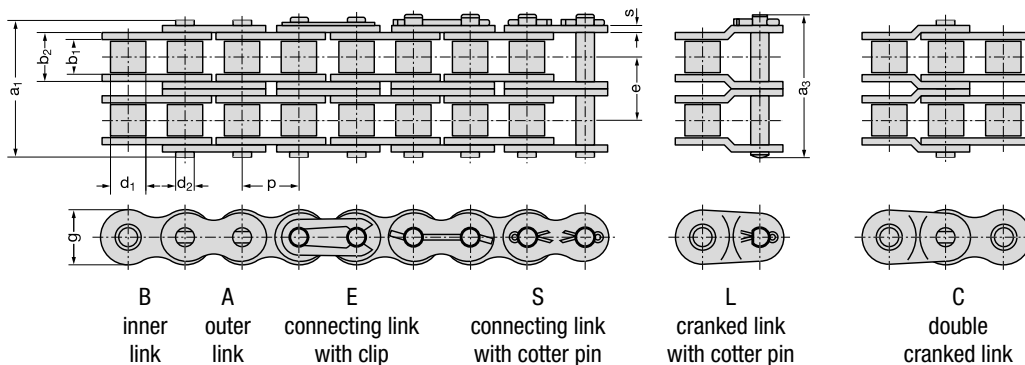
- NSF H2 certification



Rexnord meets the requirements of Machine Directive 2006/42/EC

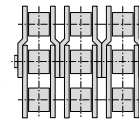
RexAthletic-Duplex roller chains, DIN ISO 606 (DIN 8188)

Chain No.	Pitch		Width between inner plates	Roller diameter	Pin diameter	Width over inner link	Plate depth	Transverse pitch	Pin length	Connecting pin length	Bearing area	Required minimum tensile strength DIN/ISO	Average tensile strength	Weight	Loose parts							
	p	b ₁ min	d ₁ max	d ₂ max	b ₂ max	g max	e	a ₁ max	a ₃ max	A	F _U	F _B	q	A	B	C	E	L	S	U		
	inch	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	N	N	kg/m							
40 - 2	0.50	12.7	7.85	7.95	3.96	11.15	11.6	14.36	30.7	33.5	0.88	27 800	40 000	1.3	x	x	x	x	x			
50 - 2	0.625	15.875	9.40	10.16	5.08	13.80	14.6	18.11	38.5	41.3	1.40	43 600	60 000	2.0	x	x	x	x	x			
60 - 2	0.75	19.05	12.57	11.91	5.94	17.70	17.7	22.78	48.5	51.5	2.10	62 600	80 000	3.0	x	x	x	x	x			
80 - 2	1.00	25.4	15.75	15.88	7.92	22.50	23.5	29.29	62.4	57.1	3.56	111 200	150 000	5.2	x	x	x	x	x			
100 - 2	1.25	31.75	18.90	19.05	9.53	27.40	29.2	35.76	75.3	87.8	5.22	174 000	220 000	7.6	x	x			x	x		
120 - 2	1.50	38.1	25.22	22.23	11.10	35.30	34.4	45.44	95.3	101.6	7.84	250 000	290 000	10.8	x	x			x	x		
140 - 2	1.75	44.45	25.22	25.40	12.70	37.00	40.8	48.87	103.3	109.6	9.40	340 000	440 000	14.2	x	x			x	x		
160 - 2	2.00	50.8	31.55	28.58	14.27	45.00	47.8	58.55	122.1	130.1	12.84	446 000	490 000	19.5	x	x			x	x		



RexAthletic - American Standard

Extreme Performance from Rexnord.



Triplex roller chains



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Applications & Characteristics

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Maintenance & Service life

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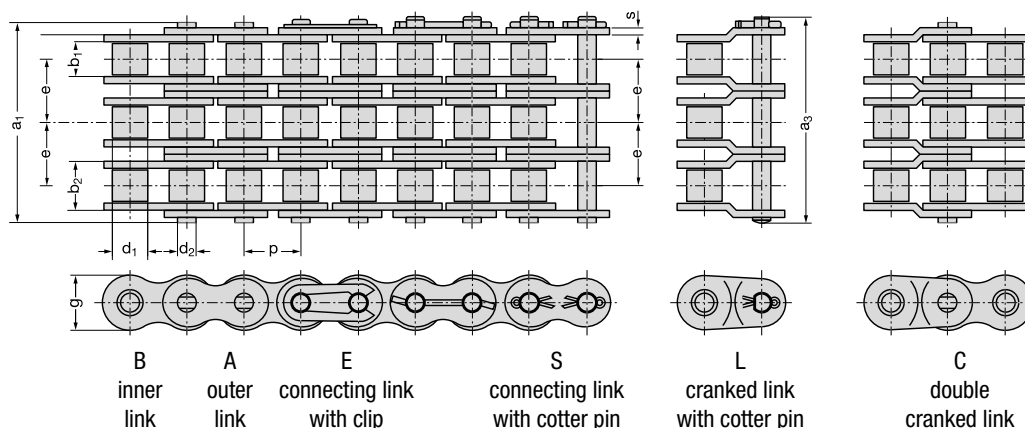


Eco-friendly

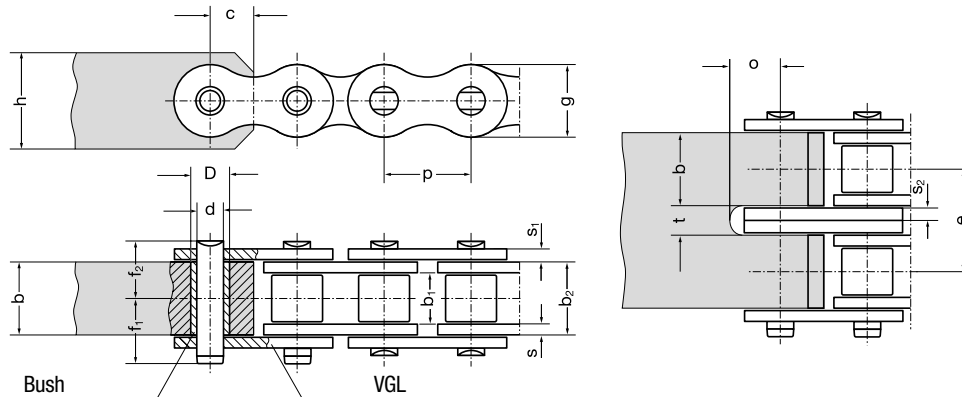
- NSF H2 certification

RexAthletic-Triplex roller chains, DIN ISO 606 (DIN 8188)

Chain No.	Pitch		Width between inner plates	Roller diameter	Pin diameter	Width over inner link	Plate depth	Transverse pitch	Pin length	Connecting pin length	Bearing area	Required minimum tensile strength DIN/ISO	Average tensile strength	Weight	Loose parts					
	p	b ₁ min	d ₁ max	d ₂ max	b ₂ max	g max	e	a ₁ max	a ₃ max	A	F _U	F _B	q	A	B	C	E	L	S	
	inch	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	N	N	kg/m						
40 - 3	0.50	12.7	7.85	7.95	3.96	11.15	11.6	14.48	16.3	19.1	0.44	41 700	60 000	1.1	x	x	x	x	x	
50 - 3	0.625	15.875	9.40	10.16	5.08	13.80	14.6	18.11	20.3	23.0	0.70	65 400	90 000	3.0	x	x	x	x	x	
60 - 3	0.75	19.05	12.57	11.91	5.94	17.70	17.7	22.78	25.7	28.6	1.05	93 900	120 000	4.4	x	x	x	x	x	
80 - 3	1.00	25.4	15.75	15.88	7.92	22.50	23.5	29.29	33.0	38.0	1.78	166 800	220 000	7.9	x	x	x	x	x	
100 - 3	1.25	31.75	18.90	19.05	9.53	27.40	29.2	35.76	39.4	44.9	2.61	261 000	300 000	11.4	x	x			x	x
120 - 3	1.50	38.1	25.22	22.23	11.10	35.30	34.4	45.44	49.8	56.1	3.92	375 000	450 000	15.8	x	x			x	x
140 - 3	1.75	44.45	25.22	25.40	12.70	37.00	40.8	48.87	53.4	59.3	4.70	510 000	660 000	21.5	x	x			x	x
160 - 3	2.00	50.8	31.55	28.58	14.27	45.00	47.8	58.55	63.6	68.9	6.42	669 000	730 000	26.3	x	x			x	x



Connecting dimensions for roller chains, European and American types



- Required material hardness of fixing elements: at least 490 N/mm²
- To increase wear resistance, fit a bush (surface hardness rating approx. 60 HRC) to the connecting element, if joint mobility is required at the connection point.
- Hardened bushes are not required in case of static loading
- Please order bushes using the corresponding bush part no.
- The bush bore diameters dC10 result from press-fitting in bore diameter DS7
- If no bushes are fitted, the bore dC10 is inserted directly into the connection element

Connecting dimensions for roller chains, European type, DIN ISO 606 (DIN 8187)

Chain no.	Pitch		Width between inner plates	Width over inner link	Plate thickness											Bore Ø					Bush part no.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																			

Connecting dimensions for roller chains, American type, DIN ISO 606 (DIN 8188)

Chain no.	Pitch		Width between inner plates	Width over inner link	Plate thickness													Bore Ø																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																			
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Extreme Performance from Rexnord

Expert chains with innovative technology and materials:

- Stainless steel
- Seamless rollers
- High-tech carbon sliding sleeves
- Food-grade lubricants
- Alloy surfaces
- Anti-friction coatings



RexAthletic	RexCarbon	RexPlus	RexPlusCarbon	RexHiPro	RexProX
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Chain characteristics

Chain size	0,5" to 2"	0,5" to 1"	0,5" to 1"	0,5" to 1"	0,5" to 2"	0,5" to 2"
Maintenance level	low	zero	normal	zero	normal	low
Fatigue resistance	100%	100%	60%	60%	100%	100%
Tensile strength	100%	100%	60%	60%	100%	100%
Specific bearing load	100%	50%	50%	50%	100%	100%
Chain speed	up to 20 m/s	up to 20 m/s	up to 4 m/s	up to 2 m/s	up to 20 m/s	up to 20 m/s
Rust and acid resistant	no	no	damp	damp	partly	no

Environmental conditions

Temperature range	0° C to 120° C *	-40° C to 100° C *	-40° C to 120° C *	-40° C to 100° C *	-30° C to 130° C *	0° C to 120° C *
Damp, corrosive atmosphere	partly	partly	damp	damp	damp	partly
Dusty	partly	damp	damp	damp	partly	partly
Hygienic	NSF H2	NSF H1	NSF H1	NSF H1	NSF H2	NSF H2

An appropriate lubrication method should be selected, depending on chain speed.

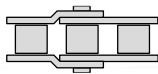
These guideline values are valid for shock-free loading, a shaft centre distance of 40 x pitch, with the chain running over two sprockets and a number of teeth z1 = 21; z2 = 42. Other drive parameters can be determined using the Rexnord chain calculation program Rex®Drive.

*The temperature range can be extended by using special high- or low-temperature lubricants.



Overview Rexnord Chains

Roller Chains



- Outstanding protection against corrosion and wear
- Unique protection against chain joint stiffness
- Extremely eco-friendly

- Maintenance-free
- Low noise
- Eco-friendly

- Combination of RexPlus and RexCarbon
- Excellent resistance to rust and acids
- Maintenance-free
- NSF H1 certification

- The optimum choice for light and medium duty
- Good cost-benefit ratio
- High availability

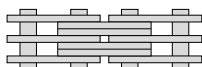
- Durable and low-maintenance
- Longer servicing intervals
- High loading capacity

- Excellent resistance to rust and acids
- Highly reliable
- Fulfills hygiene requirements
- NSF H1 certification

- Outstanding corrosion resistance
- Long service life
- High loading capacity

- Extremely high loading capacity
- Long service life
- Outstanding protection against corrosion and wear

Leaf Chains



- Outstanding protection against corrosion and wear
- Unique protection against chain joint stiffness
- Extremely eco-friendly

- Durable and low-maintenance
- Longer servicing intervals
- High loading capacity
- Extreme wear resistance for double-length service life

- Outstanding corrosion resistance
- Long service life
- High loading capacity

- The optimum choice for light and medium duty
- Good cost-benefit ratio
- Good availability