REXNORD
The right chain!

High Performance from Rexnord

Leaf chains AL Series | American type

MODULE_09/GB/2014/07 // No liability accepted for misprints or errors!

REXNORD
The right chain!

Dynamic safety for lifting applications

Leaf chains AL-Series - American type

High Performance from Rexnord.

CE

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

APPLICATIONS

- Forklift trucks, telehandlers
- Material handling
- Machine tools

CHARACTERISTICS

- Improved protection against chain joint stiffness
- Improved wear resistance
- Excellent corrosion resistance
- Very eco-friendly
- Made from high-quality materials
- Ball-drifted plate holes
- “Silver label” batch number for better traceability
- Shot-peened pins and link plates
- NSF H2 certification, RoHS:2005 conformity

ADVANTAGES

- Minimal running-in elongation
- Long service lifespan
- Extremely shock resistant
- Very robust, even in difficult conditions
- Maximum operating reliability
- Improved cost-effectiveness

LUBRICATION

- RexPro lubricants without heavy metals for outstanding protection
- Operating temperature: -30° C to +130° C (can be extended to -40° C to +250° C)
- Very good surface adhesion; drip-resistant even at high temperatures
- No heavy metals, Teflon- and silicone-free

MODULE_09/GB/2014/07 // No liability accepted for misprints or errors!

RexPro - Leaf chains - High performance from Rexnord

Excellent Corrosion Protection
- 8-10 times better than the best competitors
- More than 100% better in the buckling test
- Highly versatile, also suitable for aggressive environments

Improved Wear Resistance
- 8-12% improvement in comparison to predecessor
- Great protection through RexPro lubrication
- Long working life
- High operating reliability

High Fatigue Resistance
- Ball-drifted plate holes
- Shot-peened chain links
- High pre-loading

Eco friendly
- Through RexPro lubrication
- No heavy metals; Teflon- and silicone-free
- Environmental management system conforms to DIN EN ISO 14001

Salt spray test in accordance with DIN EN ISO 9227

CE

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

MODULE_09/GB/2014/07 // No liability accepted for misprints or errors!

REXNORD
The right chain!

Leaf chains AL Series - American type, light series

High Performance from Rexnord.

CE

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

Excellent Corrosion Protection

- 8-10 times better than the best competitors
- More than 100% better in the buckling test
- Highly versatile, also suitable for aggressive environments

Improved Wear Resistance

- 8-12% improvement in comparison to predecessor
- Great protection through RexPro lubrication
- Long working life
- High operating reliability

High Fatigue Resistance

- Ball-drifted plate holes
- Shot-peened chain links
- High pre-loading

Eco friendly

- Through RexPro lubrication
- No heavy metals; Teflon- and silicone-free
- Environmental management system conforms to DIN EN ISO 14001

Table 1 of 2

Leaf chains, AL Series

Chain No.	ISO chain number	Pitch p		Lacing	Pin diameter	Plate depth	Thickness of plates	Length over 100 pitches	Overall width	Bearing area	Width between outer plates	Required min. tensile strength ISO	Rexnord min. tensile strength	Fatigue strength	Weight
					d_1 max.	g	s	■	B max.	A	b_3 min.	F_U	F_B	F_D	q
	ISO/DIN	inch	mm		mm	mm	mm	mm	mm	cm²	mm	N	N	N	kg/m
AL 422	–			2 x 2					8.4	0.12	3.2	14 100	14 100	4 000	0.4
AL 444	–	0.50	12.7	4 x 4	3.96	10.2	1.5	1257	14.8	0.23	9.6	28 200	28 200	6 000	0.7
AL 466	–			6 x 6					21.2	0.35	16.0	42 300	42 300	7 500	1.0
AL 522	–			2 x 2					10.8	0.20	4.2	22 000	25 000	6 000	0.6
AL 544	–	0.625	15.875	4 x 4	5.08	12.8	2.0	1572	19.2	0.40	12.6	44 000	50 000	9 000	1.2
AL 566	–			6 x 6					27.6	0.60	21.0	66 000	75 000	11 500	1.8
AL 622	–			2 x 2					27.5	0.28	5.0	31 800	36 000	8 200	0.9
AL 644	–			4 x 4					23.0	0.57	15.0	63 600	72 000	12 300	1.7
AL 666	–	0.75	19.05	6 x 6	5.94	14.8	2.4	1909	33.1	0.85	25.0	95 400	108 000	15 500	2.5
AL 688	–			8 x 8					43.2	1.14	35.0	127 200	144 000		3.3
AL 822	–			2 x 2					16.6	0.51	6.3	56 700	65 000	12 000	1.5
AL 844	–	1.00	25.4	4 x 4	7.92	20.5	3.1	2540	29.5	1.01	19.0	113 400	130 000	18 000	3.0
AL 866	–			6 x 6					42.4	1.52	31.8	170 100	195 000	23 000	4.5

2 x 2 4 x 4 6 x 6 8 x 8

MODULE_09/GB/2014/07 // No liability accepted for misprints or errors!

Leaf chains AL Series - American type, light series

High Performance from Rexnord.

Excellent Corrosion Protection

- 8-10 times better than the best competitors
- More than 100% better in the buckling test
- Highly versatile, also suitable for aggressive environments

Improved Wear Resistance

- 8-12% improvement in comparison to predecessor
- Great protection through RexPro lubrication
- Long working life
- High operating reliability

High Fatigue Resistance

- Ball-drifted plate holes
- Shot-peened chain links
- High pre-loading

Eco friendly

- Through RexPro lubrication
- No heavy metals; Teflon- and silicone-free
- Environmental management system conforms to DIN EN ISO 14001

CE

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

Tabelle 2 von 2

Leaf chains, AL Series

Chain No.	ISO chain number	Pitch p		Lacing	Pin diameter	Plate depth	Thickness of plates	Length over 100 pitches	Overall width	Bearing area	Width between outer plates	Required min. tensile strength ISO	Rexnord min. tensile strength	Fatigue strength	Weight
					d_1 max.	g	s	■	B max.	A	b_3 min.	F_U	F_B	F_D	q
	ISO/DIN	inch	mm		mm	mm	mm	mm	mm	cm²	mm	N	N	N	kg/m
AL 1044	–	1.25	31.75	4 x 4	9.53	25.7	4.0	3175	37.3	1.52	24.6	177 000	210 000	36 000	4.9
AL 1066	–			6 x 6					54.0	2.29	41.0	265 500	315 000	46 000	7.3
AL 1244	–	1.50	38.1	4 x 4	11.10	29.4	4.7	3810	43.7	2.08	28.8	254 000	270 000		6.4
AL 1266	–			6 x 6					63.4	3.12	48.0	381 000	405 000		9.5
AL 1288	–			8 x 8					83.0	4.17	67.2	508 000	540 000		12.7
AL 1444	–	1.75	44.45	4 x 4	12.70	36.0	5.5	4445	51.2	2.80	33.6	372 000	390 000		9.6
AL 1466	–			6 x 6					74.5	4.20	56.0	558 000	585 000		14.4
AL 1644	–	2.00	50.8	4 x 4	14.27	41.2	6.3	5080	58.2	3.60	38.4	428 000	450 000		12.5
AL 1666	–			6 x 6					85.0	5.39	64.0	642 000	675 000		18.9

2 x 2 4 x 4 6 x 6 8 x 8

MODULE_09/GB/2014/07 // No liability accepted for misprints or errors!

Leaf chain anchoring

Chain No.	End link order no.		Dimensions in mm				
	IEG	AEG	Pe	d_2 A11	g_2	s	u_1
AL 644	170 - 118 - 44	45	25	10	19.8	2.4	11.2
AL 666	170 - 118 - 66	65					
AL 688	170 - 118 - 88	85					
AL 1044	170 - 130 - 44	45	40	14	30.0	4.0	18.0
AL 1066	170 - 130 - 66	65					

End links are available as inner and outer links. Ordering example for end links to fit leaf chain AL 644:
a) as IEG (inner end link): 170-118-44 b) as AEG (outer end link): 170-118-45

End links as inner links (IEG)

Scope of delivery:
End links (pear-shaped) along with leaf chain
outer link supplied as a complete ready-to-rivet sub-assembly.

End links as outer links (AEG)

Scope of delivery:
End links (pear-shaped) and matching
ready-to-rivet pin.

MODULE_09/GB/2014/07 // No liability accepted for misprints or errors!

Recommended chain anchor dimensions for connecting leaf chain inner links

Chain No.	Inner link connector dimensions Dimensions in mm						
	f	b	c	d_1	e	r_1	r_2
	max.	min.	max.	D 10	min.	max.	max.
AL 522	10.7	4.2	–	5.1	9.0	6.5	2.0
AL 544	18.9	4.2	4.0				2.0
AL 566	26.9	4.2	4.0				2.0
AL 588	35.4	4.2	4.0				2.0
AL 622	12.7	5.0	–	6.0	11.0	8.0	2.0
AL 644	22.4	5.0	4.8				2.0
AL 666	31.9	5.0	4.8				2.0
AL 688	42.4	5.0	4.8				2.0
AL 844	29.9	6.8	6.4	8.0	14.0	9.5	3.0
AL 866	42.9	6.8	6.4				3.0
AL 888	56.4	6.8	6.4				3.0
AL 1044	36.9	8.5	8.0	9.6	18.0	12.5	4.0
AL 1066	52.9	8.5	8.0				4.0
AL 1088	69.4	8.5	8.0				4.0
AL 1244	44.0	10.0	9.4	11.2	22.0	15.0	5.0
AL 1266	63.0	10.0	9.4				5.0
AL 1288	79.7	10.0	9.4				5.0
AL 1444	51.7	11.8	11.0	12.8	26.0	19.0	5.0
AL 1466	75.1	11.8	11.0				5.0
AL 1488	98.4	11.8	11.0				5.0
AL 1644	58.4	13.4	12.6	14.3	31.0	22.0	6.0
AL 1666	84.9	13.4	12.6				6.0

Connecting pin for attaching leaf chains to chain anchor

Chain No.	Connecting pin	Connecting pin dimensions Dimensions in mm			
	order no.	l min.	L max.	d max.	d_2
AL 522	709 – 305 – 22	10.8	17.0	5.08	1.6
AL 544	709 – 305 – 44	19.0	25.2		
AL 566	709 – 305 – 66	27.0	33.3		
AL 588	709 – 305 – 88	35.5	41.8		
AL 622	709 – 355 – 22	12.8	19.4	5.94	2.0
AL 644	709 – 355 – 44	22.5	29.1		
AL 666	709 – 355 – 66	32.0	38.7		
AL 688	709 – 355 – 88	42.5	49.3		
AL 844	709 – 307 – 44	30.0	40.7	7.92	3.2
AL 866	709 – 307 – 66	43.0	53.7		
AL 888	709 – 307 – 88	56.5	67.2		
AL 1044	709 – 309 – 44	37.0	47.7	9.53	3.2
AL 1066	709 – 309 – 66	53.0	63.7		
AL 1088	709 – 309 – 88	69.5	80.3		
AL 1244	709 – 311 – 44	44.2	56.6	11.1	4.0
AL 1266	709 – 311 – 66	63.2	75.6		
AL 1288	709 – 311 – 88	79.9	92.4		
AL 1444	709 – 312 – 44	50.0	64.4	12.7	4.0
AL 1466	709 – 312 – 66	75.3	87.8		
AL 1488	709 – 312 – 88	98.6	111.1		
AL 1644	709 – 314 – 44	58.6	71.1	14.27	4.0
AL 1666	709 – 314 – 66	85.1	97.7		

2 x 2
2 x 3

3 x 4
4 x 4
4 x 6

6 x 6

8 x 8

All pins are fitted with 2 cotters and – from BL 1234 and F 38 upwards – with 2 additional washers.

MODULE_09/GB/2014/07 // No liability accepted for misprints or errors!

REXNORD
The right chain!

Overview Rexnord roller chains

Roller Chains

RexPro
RexPro lubrication
improved wear resistance
high fatigue resistance

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

RexAthletic
good loading capacity
extended lubrication intervals

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

RexCarbon
no lubrication
low noise

- Maintenance-free
- Low noise
- Eco-friendly

RexPlus
excellent corrosion resistance
high reliability

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

RexPlusCarbon
no lubrication
excellent corrosion resistance

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

RexHiPro
good corrosion resistance
excellent loading capacity

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

Link-Belt®
a brand of REXNORD

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

RexProX
RexPro lubrication
improved wear resistance
high fatigue resistance

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

Leaf Chains

RexPro
RexPro lubrication
improved wear resistance
high fatigue resistance

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

RexHiPro
good corrosion resistance
excellent loading capacity

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

RexAthletic
good loading capacity
extended lubrication intervals

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

REXDL®
a brand of REXNORD

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

Rexnord Kette GmbH · Industriestr. 1 · 57518 Betzdorf · Tel (49) 2741 284 0 · rexinfo@rexnord.com · www.rexnord-kette.de
Rexnord Corporate Headquarters · 4701 W. Greenfield Avenue · Milwaukee, WI 53214-5310 · Phone: (414) 643 3000

MODULE_09/GB/2014/07 // No liability accepted for misprints or errors!