ROYSE
rodamientos y servicios
Desde 1979

REXNORD
The right chain!

High Performance from Rexnord

Rotary chains

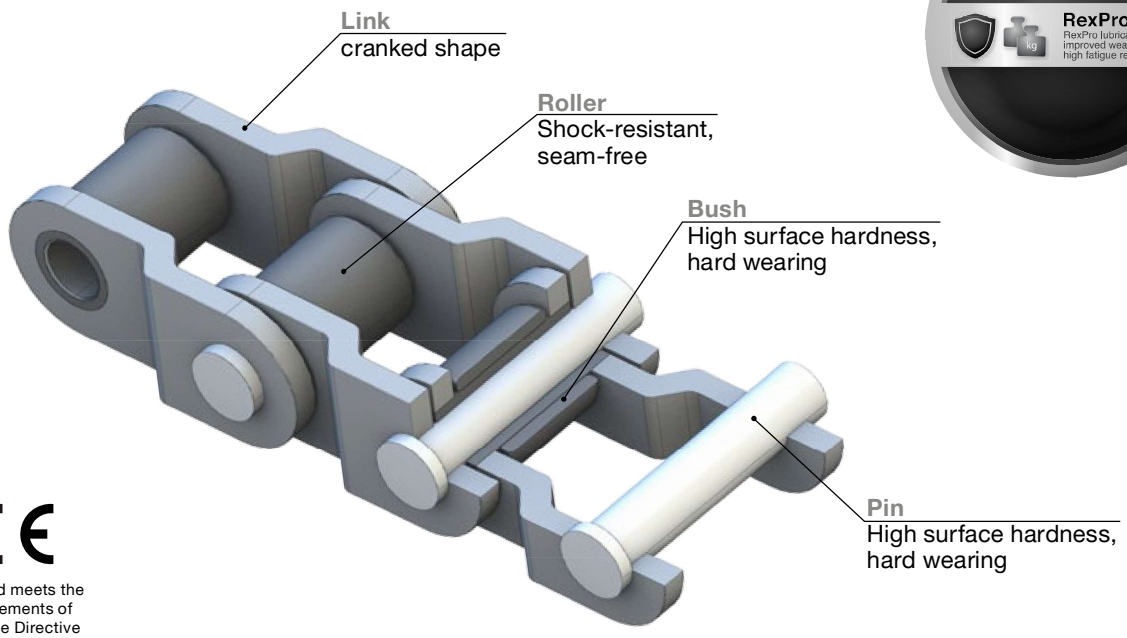
REXNORD The right chain!

ROYSE rodamientos y servicios Desde 1979

Highly robust and durable

Rotary chains

High Performance from Rexnord.



CE

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

APPLICATIONS

- Drum drives
- Looped drives
- Segmented drives

CHARACTERISTICS

- Especially robust
- Pins are torsion-proof
- Induction-hardened pins for high wear resistance

ADVANTAGES

- Dirt-proof and shockproof
- Easy to dismantle, any pin can be removed
- Low noise
- Efficient power transmission through optimized meshing conditions

RexPro - 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

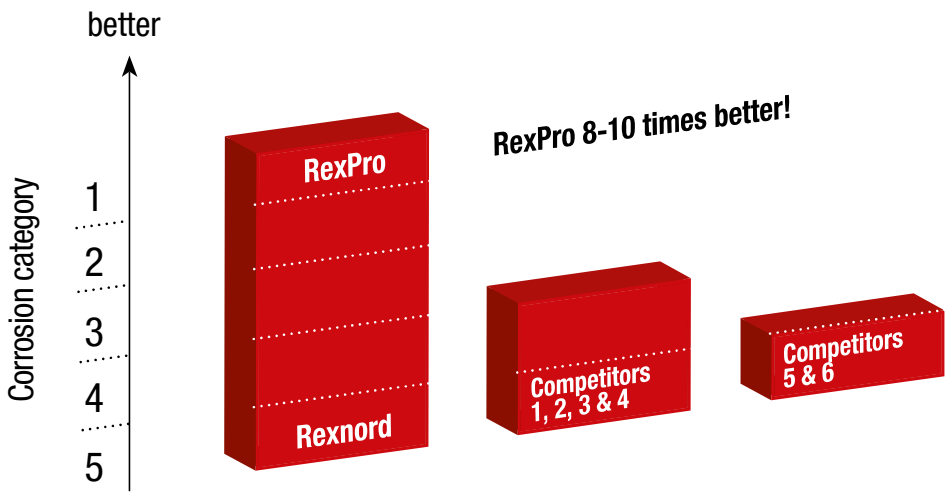
High Fatigue Resistance

- Ball-drifted plate holes
- Shot-peened chain links, seam-free rollers
- High pre-loading

Eco friendly

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

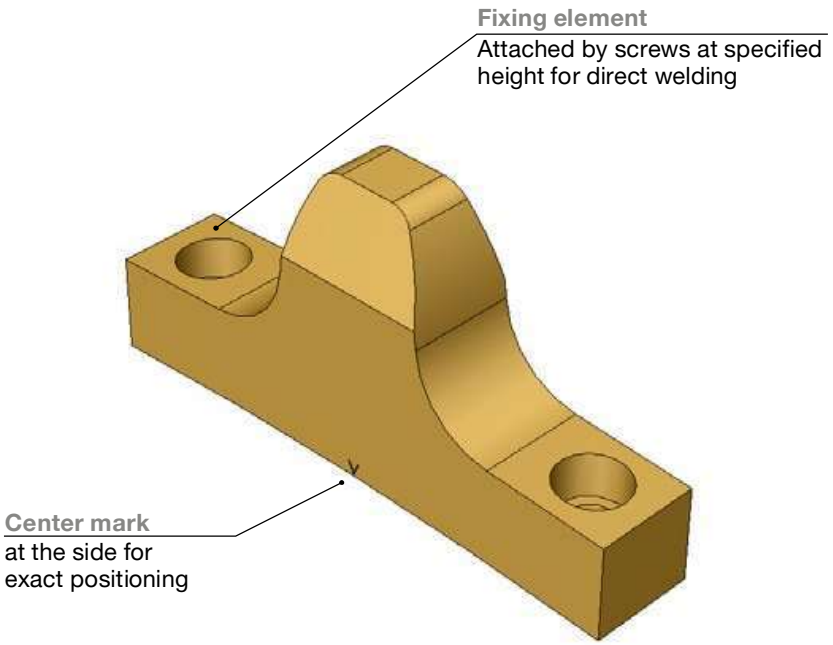
Salt spray test in accordance with DIN EN ISO 9227



CE

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

Rexnord segmented sprocket wheel system



APPLICATIONS

- Chains for drum drives
- Chains for looped drives
- Chains for segmented drives

CHARACTERISTICS

- System consists of individual blocks of teeth
- Drum pitch circle and diameter determine height of fixing elements
- Tooth base form of tooth blocks without fixing elements are adjusted to drum radius
- Required tooth base height is determined by drum diameter, pitch and number of teeth
- Adjusted tooth blocks can be attached directly to the drum surface
- Recommended material for tooth blocks: ST 52-3
- Processed outer contour and contact surface
- Intermediate arc components produced by drum manufacturer
- Intermediate arc components with same height and width dimensions as tooth blocks
- Intermediate arc components are used to support the chain

ADVANTAGES

- Cheaper than a large solid sprocket wheel
- Large or small tooth block clearances can be selected according to drive type
- Patented
- Tooth blocks produced in house
- Tooth blocks produeced depending on application
- Optimum precision
- Functional reliability

Rotary chains

High Performance from Rexnord.

Applications & Characteristics

- For heavy-duty drives and lifting purposes
- High loading capacity

Maintenance & Service life

- Very robust
- Long service life

Eco friendly

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

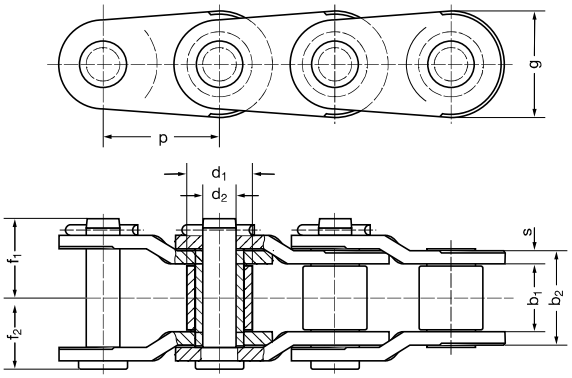
CE

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

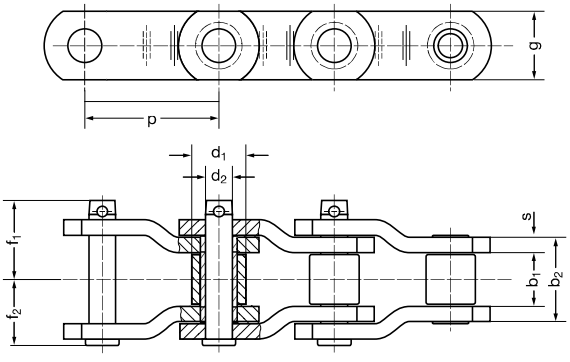
Rotary chains

Chain No.	Pitch p Inch	Pitch p mm	Width beetween inner plates b_1 min mm	Roller diameter d_1 max mm	Pin diameter d_2 max mm	Clear width Outer link b_3 min mm	Plate depth g mm	Plate link thickness s	Pins	Bearing area A cm²	Minimum breaking srength F_U N	Weight q kg/m	Type
Ro 20	2.00	50.8	30.6	28.58	14.27	71.5	48.0	6.35	TH	6.40	222 500	9.9	A
Ro 20 H	2.00	50.8	30.6	28.58	15.06								A
1037	3.075	78.1	36.5	31.75	16.46	95.2	44.5	9.5	SIH	9.40	280 400	12.8	A
Ro 3	3.075	78.1	36.9	31.75	15.875	88.2	41.5	8.0	SIH	8.50	271 500	11.0	B
Ro 3 B	3.067	77.9	38.5	41.28	19.05	99.3	57.5	9.5	SIH	11.2	400 500	18.0	B
Ro 3.5	3.50	88.9	36.9	44.45	22.22	114.0	57.5	12.7	SIH	14.1	556 300	23.6	B
Ro 4	4.063	103.2	48.0	44.45	22.22	125.1	54.0	12.7	SIH	16.6	476 200	19.4	B
Ro 4 B	4.073	103.5	47.6	45.24	23.81	132.3	60.5	14.3	SIH	18.5	650 000	27.9	B
Ro 4.5	4.50	114.3	50.8	57.15	27.78	136.6	76.5	14.3	CIH	22.5	894 500	32.9	B
Ro 5 B	5.00	127.0	68.3	63.50	31.75	156.9	89.0	15.9	SIH	32.2	116 1500	52.5	B
Ro 6	6.00	152.4	74.6	76.20	38.10	182.3	102.0	19.0	CIH	43.5	164 6500	67.1	B

FB - breaking force • TH - hardened and tempered • SIH - partially induction hardened • CIH - induction-hardened



Type A

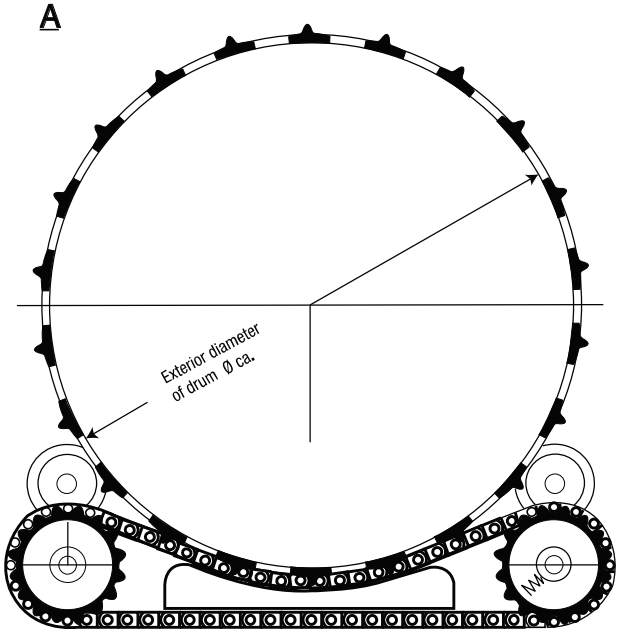


Type B

Determination of drive type and dimensions

Please enter your drive layout in the sketch version A, B, C or D as appropriate. However, if your planned drive solution is different from the versions illustrated, please send us a sketch with details of your proposed drive configuration. Our experienced drive engineers will be pleased to help if you have any technical questions or drive problems requiring solution. Take advantage of our wide experience in the field of drive engineering to ensure that you find the optimum drive configuration for your requirements.

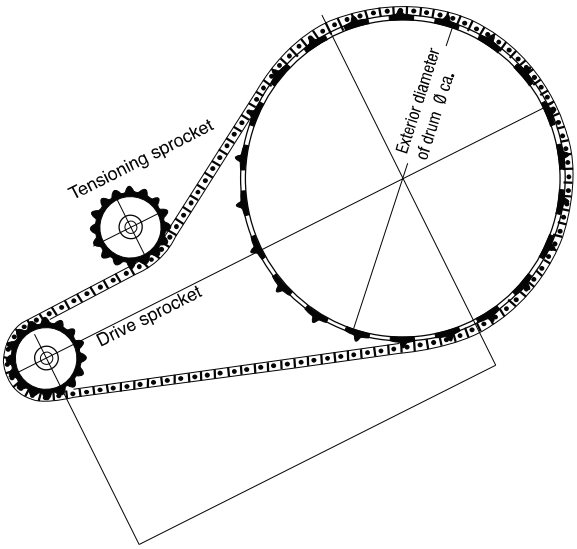
A



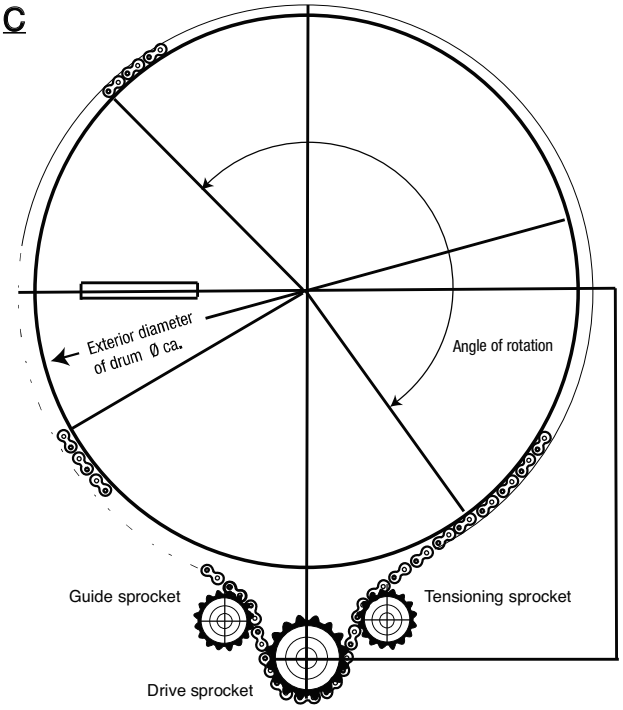
Drive sprocket

Tensioning sprocket

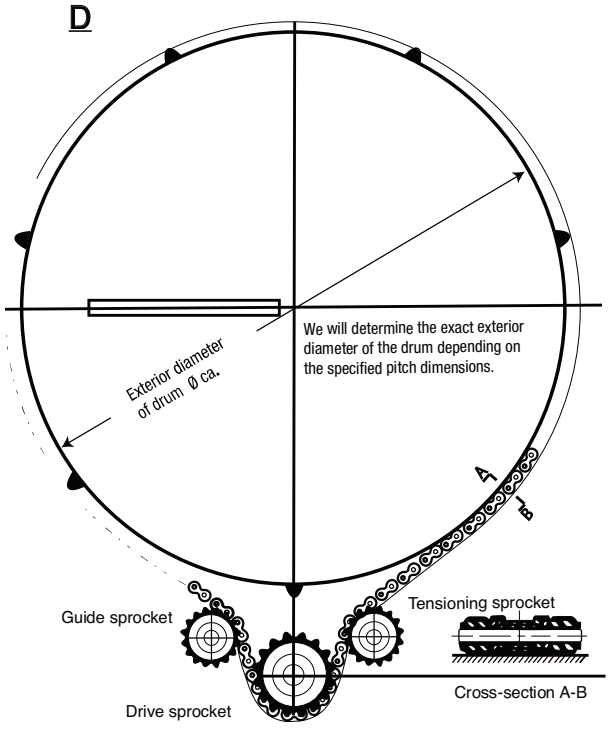
B



C



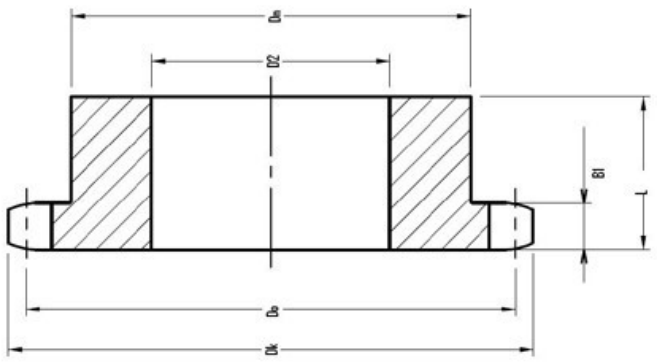
D



Sprockets

Sprockets for rotary chains and roller chains with one-sided hub	Number of teeth	Pitch circle ø	Tooth width	Outside ø	Hub ø	Pre-bore ø	Bore size max	Total length	Weight approx.	Order No.
	Z	d_0	B_1	d_K	d_0	d_2	d_2	L	kg	
Ro 20 / Ro 20 H Pitch 50.8 mm	17	276.5	28	294	130	50	70	85	17	021-200-17
	19	308.7	28	327	130	50	70	85	20	021-200-19
	21	340.9	28	359	130	50	70	85	24	021-200-21
	23	373.1	28	392	140	50	75	90	29	021-200-23
	25	405.3	28	424	140	50	75	90	33	021-200-25
Ro 3b Pitch 77.9 mm	17	423.3	34	469	200	60	110	130	52	021-302-17
	19	473.3	34	520	200	60	110	130	61	021-302-19
	21	522.7	34	571	200	60	110	130	71	021-302-21
	23	572.2	34	622	200	60	110	130	83	021-302-23
	25	621.6	34	673	200	60	110	130	95	021-302-25
Ro 3 / Ro 3c Pitch 78.1 mm	17	425.0	34	469	160	60	90	110	44	021-300-17
	19	474.5	34	520	160	60	90	110	54	021-300-19
	21	524.1	34	571	170	60	95	110	65	021-300-21
	23	573.6	34	622	170	60	95	110	79	021-300-23
	25	623.2	34	673	200	60	110	130	95	021-300-25
Ro 4 Pitch 103.2 mm	17	561.6	44	616	235	70	130	155	107	021-400-17
	19	627.0	44	684	250	70	140	170	135	021-400-19
	21	692.5	44	751	250	70	140	170	158	021-400-21
	23	758.0	44	818	250	70	140	170	184	021-400-23
	25	823.4	44	884	270	70	150	180	220	021-400-25
Ro 4 ½ Pitch 114.3 mm	17	622.0	47	685	270	80	150	180	147	021-450-17
	19	694.4	47	758	270	80	150	180	175	021-450-19
	21	766.9	47	830	290	80	160	190	215	021-450-21
	23	839.5	47	905	290	80	160	190	249	021-450-23
	25	912.0	47	977	290	80	160	190	285	021-450-25
Ro 5 b Pitch 127.0 mm	17	691.1	63	760	310	80	170	200	231	021-502-17
	19	771.7	63	840	320	80	180	210	282	021-502-19
	21	852.2	63	920	320	80	180	210	333	021-502-21
	23	932.8	63	1000	320	80	180	210	389	021-502-23
	25	1013.8	63	1080	340	80	190	225	464	021-502-25
Ro 6 Pitch 152.4 mm	17	829.4	69	910	360	90	200	240	370	021-600-17
	19	926.0	69	1005	360	90	200	240	442	021-600-19
	21	1022.6	69	1100	360	90	220	240	510	021-600-21
	23	1119.4	69	1200	360	90	220	240	598	021-600-23
	25	1216.0	69	1297	360	90	220	240	694	021-600-25
48 B Pitch 76.2 mm	17	414.7	41	446	235	70	130	155	85	021-076-17
	19	463.0	41	494	250	70	140	170	101	021-076-19
	21	511.3	41	543	250	70	140	170	111	021-076-21
	23	559.6	41	591	250	70	140	170	122	021-076-23
	25	608.0	41	644	270	70	150	180	148	021-076-25
56 B Pitch 88.9 mm	17	483.8	50.8	519	270	80	150	180	128	021-088-17
	19	540.2	50.8	575	270	80	150	180	148	021-088-19
	21	596.5	50.8	632	290	80	150	190	179	021-088-21
	23	652.9	50.8	688	290	80	150	190	198	021-088-23
	25	709.3	50.8	750	290	80	150	190	228	021-088-25

Sprockets are suppied with one-sided hub as standard. Symmetrical and asymmetrical versions available on request. Minimum strength of steel sprockets is 590 N/mm2 .
Tooth hardening on request.



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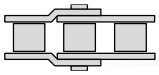
Overview Rexnord roller chains

Roller 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

- Maintenance-free
- Low noise
- Eco-friendly

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

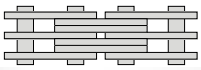
- Combination of RexPlus and RexCarbon
- Excellent resistance to rust and acids
- Maintenance-free
- NSF H1 certification

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

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

- 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

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

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

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

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