

Rexnord REXPLUS The new Dimension in Stainless Steel



REXPLUS – Your plus in performance!







The chain to get the market movina!!

REXPLUS from Rexnord. This new generation of corrosion and acid-resistant roller chain now fufills the high-est of demands, when we talk about quality, dependability and service life.

Where a lot of water flows and regular maintenance is difficult, one of the most advanced roller chains in the world dominates with its excellent performance. When normal chain speeds of up to 1,5 m/sec. are commonplace, REXPLUS can handle the pace, even under extreme loads: whether cold down to -40 °C, heat up to +400 °C, steam or water. Through the use of new materials and consistent further development, REXPLUS goes over and beyond the limits of conventional stainless steel chains.



Extremely high rust and acid-resistant! Highest standard for roller chains

High-performance, harder material! Patented and tested

High tenacity and loading capacity!

Convincing advantages from REXPLUS

Improved resistance to wear! lew choice of materials for link components

Optimized fatigue strength! Improved manufacturing processes

Maximum Hygiene! liness via seamless rollers Absolute clea

High-performance lubricating medium ex-works! Resistant to water and steam

A chain, you can count on! Top performance at attractive prices

Perfect solutions as standard

The REXPLUS link plates are manufactured from a patented special steel, the bush material is high-strength austenitic steel. The extra rigidity of the bushes is achieved through a cold-hard-ening process. To improve the resistance to corrosion the chain pins are passivated after heat treatment. From the factory, the REXPLUS is equipped with seamless, cold-drawn rollers and treated with a special high-performance chain oil, which permits direct contact with foodstuffs. The dimensions correspond to DIN 8187 / ISO 606.

Chains for packaging and filling plant in the foodstuffs and drinks industry as well as for all wet and damp environments are subjected to extreme conditions. With this in mind, Rexnord has devwloped this rust and acidresistant stainless steel chain

REXPLUS: Created for whatever use you have in mind

REXPLUS with extra-special characteristics. The improved

- Resistance to wear
- Fatigue strength

 Lower elasticity result in many advantages for the user.

It's hard work in practice

The REXPLUS from Rexnord offers a higher efficiency, with the same resistance to corrosion, longer service life and a better degree of positioning. REXPLUS is easy to clean and increases the intervals between maintenance. Because of the special stainless steel, the chain even resists the heavy sliding and frictional demands for many years. Additionally, when operating in the presence of dampness, water or other liquids, there is no observable wear. The smooth, neutral surface protects against deposits and therefore protects against germs. As well as applications under exposure to very high temperatures, the REXPLUS chain can also be ideally used in

deep-freeze areas.



Wherever demands for guaranteed cleanliness and strict hygiene regulations are required. REXPLUS secures the perfect product quality.

If it's clean, it's got to be **REXPLUS**

Our know-how and experience are invaluable in areas of application such as

- Transport and positioning chains
- Yogurt filling installations
- Drives and conveying systems in filling plant
- Brewery technology
- Fruit juice, mineral water and lemonade manufacture
- Transport chains in the production of ice cream
- Pasteurization plant
- Textile machines (steam)
- Laundry technology
- Baking technology
- Transport chains for folded packaging manufacture Fish processing
- as well as other segments of the
- foodstuffs industry.

The REXPLUS keeps its promise

Comparative quality tests carried out in the Rexnord Test Center against commercially available chains spoke exclusively for the REXPLUS. Thanks to the outstanding resistance to corrosion it **M 1 SS** took first place in the comparison test. Also, with the fatigue strength and the resistance to wear, the REXPLUS was tested and given the grade "good". Summing up, it was clear what the REXPLUS can do: in comparison it was incomparable, namely all-round applicable and more dependable in all situations!



Angled brackets with 1 hole one-sided/two-sided

K 1 SS

5					
Chain type		08 B-1 SS	10 B-1 SS	12 B-1 SS	16 B-1 SS
Part description	outer	W 280	W 300	W490	W 524
Pitch	mm	12,7	15,875	19,05	25,4
Pitch	inch	1/2"	5/8″	3/4″	1″
A	Middle hole distance	13,0	15,0	17,25	26,5
В	Maximum width	19,7	23,0	28,0	37,3
С	Width of part	10,6	12,5	16,0	19,0
D	Diameter mounting hole	4,4	5,5	5,3	6,6
Н	Height of part	8,5	10,3	11,9	16,0
S1	Material thickness (outer)	16	16	18	3.1



Angled brackets with 2 holes one-sided/two-sided									
Chain type		08 B-1 SS	10 B-1 SS	12 B-1 SS	16 B-1 SS				
Part	outer	W 294	W 394	W 494	W 574				

cription	outer	11 271	11 071		** 07
ch	mm	12,7	15,875	19,05	25,0
ch	inch	1/2"	5/8″	3/4″	1″
	Middle hole distance	13,0	15,0	18,0	25,,4
	Maximum width	19,3	20,6	27,2	36,4
	Width of part	24,4	28,6	35,2	45,8
	Diameter mounting hole	4,3	5,1	6,7	8,3
	Pitch of mounting holes	12,7	15,7	19,05	25,0
	Height of part	8,5	10,3	12,0	19,0
	Material thickness (outer)	1,6	1,6	1,8	3,1



Carrier bracket with one hole one-sided/two-side

Chain type		08 B-1 SS	10 B-1 SS	12 B-1 SS	16 B-1 SS
Part description	outer	M 280	M 300	M 490	M 524
Pitch	mm	12,7	15,875	19,05	25,4
Pitch	inch	1/2″	5/8″	3/4″	1″
С	Width of part	10,6	12,5	16,0	19,0
D	Diameter mounting hole	4,3	5,5	5,4	6,7
Н	Height of part	19,0	23,4	28,0	34,2
h ₁	Height separation hole / Mounting hole outer	12,7	15,3	28,0	34,2
S ₁	Material thickness (outer)	1,6	1,6	1,8	3,1



Carrier bracket with 2 holes one-sided/two-sid

M 2 SS

Chain type		08 B-1 SS	10 B-1 SS	12 B-1 SS	16 B-1 SS
Part description	outer	M 294	M 394	M 494	M 524
Pitch	mm	12,70	15,88	19,05	25,40
Pitch	inch	1/2 "	5/8″	3/4″	1″
С	Width of part	24,4	28,6	35,2	45,8
D	Diameter mounting hole	4,3	5,1	6,7	8,3
G	Separation of mounting holes	12,70	15,70	19,05	25,00
Н	Height of part	19,0	21,0	27,7	36,9
h ₁	Height between holes	14,3	15,4	18,6	25,9
S ₁	Material thickness (outer)	1,6	1,6	1,8	3,1



Extended pins 2 SS Bo-1, 2 SS Bo-2, 2-pins one-sided/two-sided

Chain type		08 B-1 SS	10 B-1 SS	12 B-1 SS	16 B-1 SS
Part description	outer	08 B-2 SS Bo	10 B-2 SS Bo	12 B-2 SS Bo	16 B-2 SS Bo
Pitch	mm	12,7	15,875	19,05	25,4
Pitch	inch	1/2 "	5/8″	3/4″	1″
d	Pin diameter	4,45	5,08	5,72	8,28
I1	Pin projection one-sided	15,0	17,6	20,6	33,5
12	Pin projection two-sided	7,9	9,3	10,9	17,6
1 <u>3</u>	Total width	31,0	35,5	41,7	67,4





REXPLUS – a chain with clearly better performance

Resistance list REXPLUS

Temperature up to 65°C	Plates	Bushes	Pins	Rollers
Alcohol	++	++	++	++
Ammonia	++	++	++	++
Petroleum spirit	++	++	++	++
Benzol	++	++	++	++
Beer	++	++	++	++
Chlorine (gas, dry)	++	++	++	++
Vinegar	+	++	++	++
Acetic acid 10 %	++	++	++	++
Fruit juice	++	++	++	++
Glycerine	++	++	++	++
Copper sulphate	++	++	++	++
Seawater	./.	++ L	++ L	++ L
Methyl alcohol	++	++	++	++
Methyl chloride	++	++	++	++
Milk (fresh)	./.	++	++	++
Lactic acid 2 %	+	++	++	++
Sodium carbonate	++	++	++	++
Sodium chloride 10 %	++	++	++	++
Sodium hypochloride 5 %	- L	+ L	0 L	+ L
Caustic soda 25 %	++	++	-	++
Phosphoric acid 1 %	./.	++	++	++
Pickling soda	+ L	++ L	++ L	++ L
Nitric acid 10 %	++	++	++	++
Chocolate	++	++	++	++
Carbon bisulfide	++	++	++	++
Sulfuric acid 1 %	-	+	-	+
Soap solution	++	++	++	++
Turpentine	++	++	++	++
Trichloroethylene	++	++	++	++
Water (tap water)	++ L	++	++ L	++
Hydrogen peroxide	++	++	++	++
Wine	./.	++	./.	++
Tartaric acid	+	++	++	++
Citric acid 1 %	+	++	++	++
++ = resistant + = low attack L = danger of corrosive pitting, splitting	0 = little resistance and stress cracking	 = non-resistar ./. = no valuation 	nt n possible	

CHAIN COMPONENTS

Extreme conditions with more than occasional aggressive corrosive influences call for a chain, which can deliver optimum performance and service life: REX-PLUS.

Quality makes the difference

The comparison in a salt spray test acc. to DIN 50 021 SS demonstrated its supreme superiority against commercially available stainless steel chains without corresponding surface treatment. The resistance list shows clearly, that through all corrosion tests carried out in all the different mediums the REX-PLUS from Rexnord offered a superior protection.

Everything speaks for the rust and acid-resistant REXPLUS: up to 70 % higher fatigue strength and up to 100 % better wear values against the previous generation reflect again the quality of the chain in direct technical competition. With a breaking strength lying well above the average; an excellent cost effectiveness rounds off the advantages of this Rexnord development. This is how Rexnord Kette has managed not only to meet but exceed the market demands for higher rigidity and improved wear characteristics in an optimum manner. Only when the customer comes back and not the chain, then the quality expectations have been fulfilled by Rexnord!



Suitable for more!

Take advantage of our valuable know-how. The REXPLUS from Rexnord Kette is only one of many examples of products with wide ranging applications and perfected types. As Europe's leading specialist for individually customized products, we offer you a wide range of solutions and high flexibility. Our wide ranging product program is coupled with an all-round applications service: Speak with Rexnord Kette — we are always on the move, world-wide for you.

Single roller chains stainless steel

Chain- type	Pit F	ch)	Roller width	Roller- ø	Pin- ø	Inner width	Link plate height	Trans- verse	Pin width	Overall width	Bearing area st	Required *) Min. breaking rength acc. to DIN/I	Weight SO	Loo	se pa	arts
	inch <i>inch</i>	mm mm	b ₁ min. mm	d ₁ max. mm	d ₂ max. mm	b ₂ max. mm	g max. mm	e mm	a ₁ max. mm	a ₃ max. mm	A cm²	F _B N	≈q kg/m	С	E	S
08 B – 1 SS	0,50	12,700	7,75	8,51	4,45	11,30	11,6	-	16,7	20,3	0,50	14 000	0,68	х	х	
10 B – 1 SS	0,625	15,875	9,65	10,16	5,08	13,28	14,7	-	18,9	23,2	0,67	19 000	0,90		Х	
12 B – 1 SS	0,75	19,050	11,68	12,07	5,72	15,62	15,9	-	22,3	25,0	0,89	25 000	1,15	Х	х	х
16 B – 1 SS	1,00	25,400	17,02	15,88	8,28	25,40	20,6	-	35,4	41,9	2,10	53 000	2,60	Х	Х	Х
50 – 1 SS	0,625	15,875	9,53	10,16	5,08	13,84	15,0	-	20,6	21,8	0,70	18 000	1,03	Х	Х	

Double roller chains stainless steel

08 B – 2 SS	0,50	12,700	7,75	8,51	4,45	11,30	11,6
10 B – 2 SS	0,625	15,875	9,65	10,16	5,08	13,28	14,7
12 B – 2 SS	0,75	19,050	11,68	12,07	5,72	15,62	15,9
16 B – 2 SS	1,00	25,400	17,02	15,88	8,28	25,45	20,6
50 – 2 SS	0,625	15,875	9,53	10,16	5,08	13,84	15,0

*) the effective higher breaking strength and fatigue strength can be guoted upon reques



... MOVING AHEAD

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values in practice, because pure mediums are rare. The % content is based on a mixture of the chemical substance in distilled water.

The resistance information indicated is the result of laboratory testing carried out with pure solu-

tions. These tests provide only reference values. The corrosive behaviour can deviate from these

For further information, please contact our consulting engineers



13,92	30,6	34,3	1,01	28 000	1,28	Х	х	
16,59	35,5	40,0	1,34	38 000	1,72	х	х	
19,46	41,7	45,5	1,79	50 000	2,27	Х	х	
31,88	67,4	73,9	4,21	106 000	5,10		х	
18,11	38,6	33,9	1,40	36 000	2,00		х	

Permitted chain tensile forces

Chain type	Tem - 40 Permi	perature ran up to + 200 ° tted tensile f	Temperature 200 up to 4 Permitted tens	Temperature range 200 up to 400 ° C Permitted tensile force			
	N	Ν	N	Ν	Ν		
	bis 0,5 m/s	1,0 m/s	1,5 m/s	bis 0,5 m/s	1,0 m/s		
08 B – 1 SS	750	580	500	470	360		
10 B – 1 SS	1.000	770	650	600	480		
12 B – 1 SS	1.400	1.100	950	870	680		
16 B – 1 SS	3.000	2.300	2.000	1.800	1.400		
08 B – 2 SS	1.280	1.000	850	800	624		
10 B – 2 SS	1.700	1.300	1.100	1.000	800		
12 B – 2 SS	2.400	1.800	1.600	1.500	1.100		
16 B – 2 SS	5.000	3.800	3.400	3.100	2.375		