

**FB Kedjor AB**

*a member of the Addtech group*



## **ROLLER CHAIN GUIDE**



**Sugiyama Chain** Co., Ltd.

**SILVER SBR - The best chain in the world!**

Call us +46 (0)16 - 15 33 00

# FB Kedjor presents



**Sugiyama Chain Co, Ltd.**

## Why choose SBR?

Both bushes and rollers are produced from solid pieces of steel without heating. The components do not expand and the surface remains unchanged. By cold-drawing the steel, the molecular structure remains intact and the original fatigue resistance is retained. Thanks to the design of the SBR chain, friction and heat generation are reduced. This entails more even wear and minimal elongation of the chain. The chains retain the lubrication and require a minimum of maintenance. When producing the components, only materials of the highest quality are used. The surface of the chains is shot peened to "de-stress" the material and provide greater resistance to fatigue. All of our roller chains are, of course, preloaded.

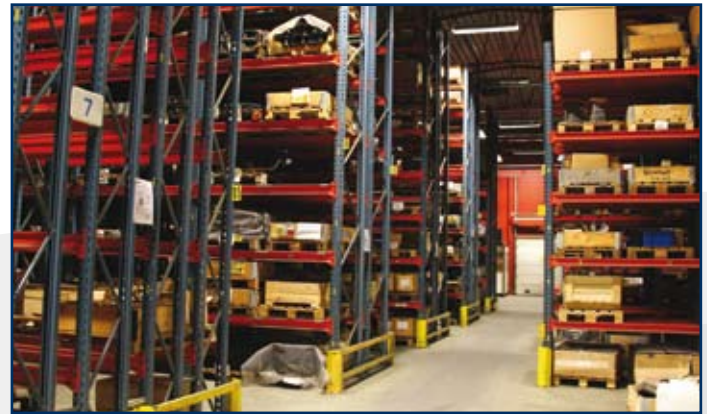


## Chains in the A+ range!

We can now offer one of the most advanced chains in the world: SBR – Solid Bush Roller. This patented chain comprises entirely solid components, unlike traditional chains that have rolled or pressed components. The SBR chain therefore offers unsurpassed quality and service life. Japan's Sugiyama Chain Co. Ltd., which has been manufacturing chains since 1946, is the only company in the world to produce Silver SBR.

## Storage

Many years of experience of chain sales have provided us with the correct parameters for a well stocked and optimised warehouse. We consider it only natural to ship your stock order on the same day that we receive it!



**Fax your order to us on +46 (0)16-14 27 57 or by e-mail to [order@fbkedjor.se](mailto:order@fbkedjor.se)**

We can, of course, also receive your order via our website or over the telephone. Delivery and purchasing conditions can be read at [www.fbkedjor.se](http://www.fbkedjor.se)

# We would like to be your total supplier of chains!

FB Kedjor will provide you with the equipment you need, from the smallest chains to the largest. Nothing is impossible!

Allow our knowledgeable staff to help you streamline your day to day work! Arrange a visit from one of our technical salespeople, who will come to your premises in order to assess the status of your facilities. We document your chains as well as peripheral equipment, and propose optimal solutions aimed at minimising unforeseen, costly production stoppages. FB Kedjor only works with high quality products, guaranteeing a long service life and safe operation.

To ensure we do not leave any important details to chance, we install and carry out follow up inspections of our products! We offer continual training in the field of chains and accessories in Eskilstuna, as well as at our own conveyor chain factory FB Ketjuteknikka Oy in Köyliö, Finland. In short: "You book a visit – We supply a total solution!"



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# PRODUCT OVERVIEW

## Silver SBR

Original version

- Solid bushes and rollers
- Long service life
- Excellent properties
- Patented



Specification	
Water	X
Salt water	X
Chemical corrosion	X
Temperature range	-10 to 70
Maximum load	100%
Non magnetic	X
Maintenance free	X

## SLR

Self lubricating

- Oil impregnated, hardened steel bushes
- Specially treated pins and link plates
- Self lubricating chain



Specification	
Water	B
Salt water	B
Chemical corrosion	X
Temperature range	-10 to 70
Maximum load	80%
Non magnetic	X
Maintenance free	A

## MF

Maintenance free

- Solid bushes and rollers
- Long service life
- Maintenance free
- Patented



Specification	
Water	B
Salt water	B
Chemical corrosion	X
Temperature range	-20 to 170
Maximum load	70%
Non magnetic	A
Maintenance free	A+

## DC

Double capacity

- Solid bushes and rollers
- High shock resistance
- Tensile strength of a duplex chain
- Patented



Specification	
Water	X
Salt water	X
Chemical corrosion	X
Temperature range	-10 to 70
Maximum load	170%
Non magnetic	X
Maintenance free	X

## SS

Stainless steel

- SUS 304. Superior strength
- Ideal for demanding industries, such as food, chemicals, etc.
- Patented



Specification	
Water	A+
Salt water	A+
Chemical corrosion	A+
Temperature range	-40 to 400
Maximum load	15%
Non magnetic	A+
Maintenance free	X

## SLR AP

Self lubricating, water proof

- Oil impregnated, hardened steel bushes
- Resistant to both saltwater and freshwater



Specification	
Water	A
Salt water	A
Chemical corrosion	A
Temperature range	-10 to 70
Maximum load	80%
Non magnetic	X
Maintenance free	A

# V - SBR

## AP

Water proof  
(corrosion protected)

- Treated prior to assembly
- Resistant to both saltwater and freshwater



### Specification

Water	A
Salt water	A
Chemical corrosion	A
Temperature range	-10 to 70
Maximum load	100%
Non magnetic	X
Maintenance free	X

## NP

Nickel plated

- Nickel plated prior to assembly
- Corrosion resistant



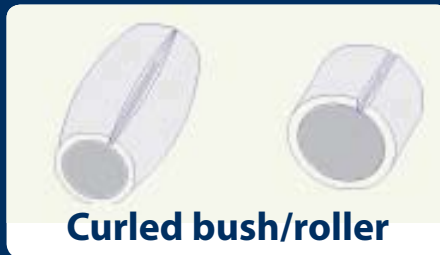
### Specifikation

Water	B
Salt water	B
Chemical corrosion	X
Temperature range	-10 to 70
Maximum load	90%
Non magnetic	X
Maintenance free	X

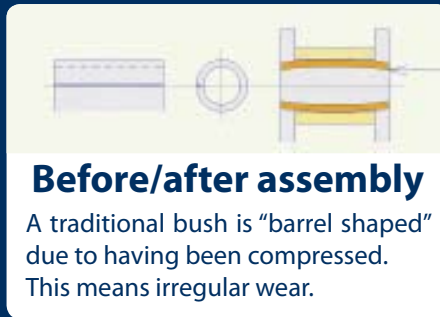
## The technology behind SBR

The advanced, seamless, SBR bushes are produced from a single piece. The result is significantly improved strength compared to traditional chains with bent bushes. See the difference between a traditional chain and the patented SBR chain.

### Traditional chain

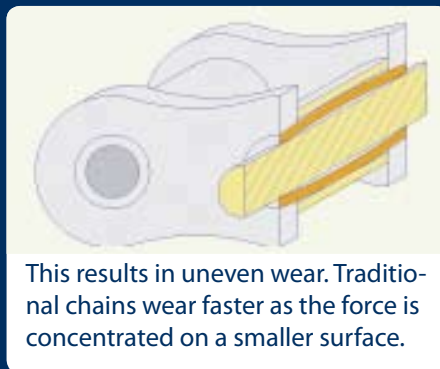


Curled bush/roller



#### Before/after assembly

A traditional bush is "barrel shaped" due to having been compressed. This means irregular wear.

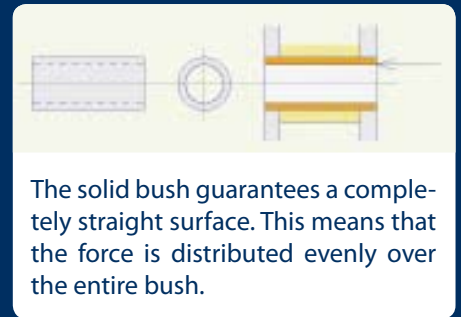


This results in uneven wear. Traditional chains wear faster as the force is concentrated on a smaller surface.

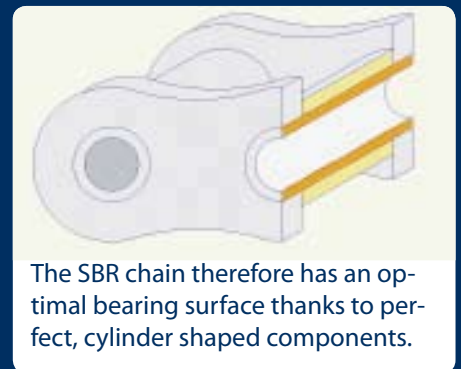
### Silver SBR chain



Solid bushes/rollers



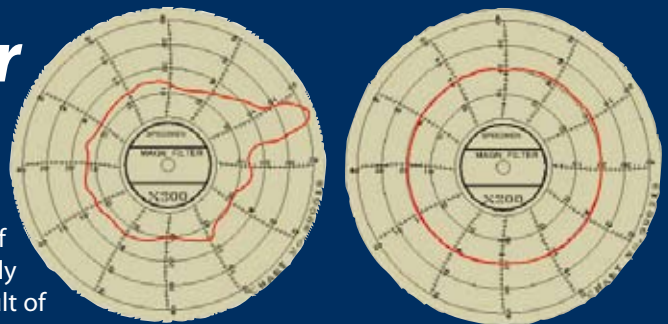
The solid bush guarantees a completely straight surface. This means that the force is distributed evenly over the entire bush.



The SBR chain therefore has an optimal bearing surface thanks to perfect, cylinder shaped components.

## Superior result!

Tests show unequivocally that the design of the SBR chain markedly reduces wear. As a result of the significantly more even quality all the way through, heat generation is reduced, resulting in a longer service life.





## More quality products from FB Kedjor

### Conveyor chains

- Superior quality
- Produced inhouse
- Always with hardened components
- Manufactured and checked according to Swedish and international standards



In modern materials handling, stringent demands are placed on those machine elements included in transport devices. We produce conveyor chains of various types for the mechanical engineering industry, the forestry and pulp industry, the chemicals sector, the food industry, etc. The chains satisfy the very high demands our customers stipulate regarding e.g. breaking strength, impact resistance, press fitting and weldability.

The chains are produced with a high level of precision according to Swedish and international standards, and can be adapted to the needs of the individual customer.



### Sawmill chains

- Unique experience
- Wide range

We have more than 85 years experience of sawmill chains. Our special chains for the sawmill industry have exactly the properties our customers expect. Superior quality, large range of models and short delivery times. Wherever in your production process you need a chain, we have the solution.

Our products are tried and tested to withstand the various stresses and strains that arise. Our chains for timber sorting, for example, have been developed alongside our customers. The design is adapted for the optimum combination of materials, manufacturing method, dimensioning and assembly. This has resulted in a chain that can now be found in most sawmills around Europe.

**We produce your sawmill chain!**  
We produce original chains for most sawmill machines.



### Paper roller chains

- Special version
- Fitted with ball bearings
- Wide range

Special chains of extremely high quality. Adapted for e.g. the paper, pulp, mining and steel industries.



### Special chains

- Customised versions
- Special materials
- Adapted attachments

With the aid of modern laser-cutting technology and inhouse production, we can create chains entirely according to your needs. If your application demands special functions, we can cost-effectively create a chain that entirely matches your specifications. We can also produce shorter series of special chains without expensive retooling costs.



### Waste water chains

- Pool chains
- Scrapers
- Attachments
- Drive chains and sprockets

Specially adapted, extra durable chains for use in e.g. treatment plants and other demanding environments. Carefully selected raw materials for a long and safe operating period.



### Wear rails

- Polyethylene
- Polyurethane
- Wear steel
- Cast steel
- Hardox
- Stainless steel
- Acid-resistant

The chain's support and bearing surfaces are of the utmost importance! We supply you with the best solutions on the market when it comes to wear and slide rails. We adapt the materials and hardness of the bearing surfaces to the chains!



### Scraper chains

- Customised attachments
- Raw materials from Fiskars
- Hardened components

Our scraper chains provide plenty of opportunities. With raw materials from the renowned company Fiskars, you can always rest assured that you are getting a product that has been adapted for the most demanding applications. With our own production operation, the potential exists for customisation entirely according to your needs.



### Conveyor chain sprockets

- Customised machined sprockets
- Hardox 400/500/600
- Hardened sprockets
- Stainless steel and acid-resistant version

Our fully machined sprockets achieve a superior level of quality as a result of the innovative manufacturing methods that are used. Each stage of manufacture is tested to ensure that the sprockets maintain such a high level of quality that you never need to consider where to turn when the time comes to buy a new sprocket. The sprockets are available as a single part, in two parts and supplied with ball bearings or bushes. Our production process is suitable for both large and small quantities.



### Roller chain sprockets

- Delivered from stock
- Special versions
- Hardened teeth

We stock more than 20,000 finished standard sprockets. With our own workshop and a large warehouse, we can supply a wide range of roller chain sprockets with short delivery times. The range includes sprockets without hubs, adjuster sprockets, split wheels, sprockets for spring collets, sprockets with slide bearings, surface treated sprockets, chain tensioners and special sprockets.



### Leaf chains

- Safe handling
- Patented solution
- Simplified assembly
- Greater operational reliability

Leaf chains are primarily used in various types of lifting application. Our leaf chains always maintain a high and even level of quality. This means satisfied customers. With our patented Mark III® mounting system, you obtain a package solution that is very kind to both the chain and the lifting equipment. The unique properties that Mark III® offers eliminate breaks in the chain. This is guaranteed to increase the chain's service life. The range also includes pulleys, chain punches, wear gauges and complete renovation kits.



### Other products

**Wide range!**

**Other products in our range include:**

- Chain products
- Gall chains
- Voith grinding chains
- Stainless steel chains
- Acid-resistant chains
- Chains for the food industry
- Side bow chains
- Cardan chains
- Plastic chains



### Package solutions

**Package solutions from FB Kedjor save both time and money!**

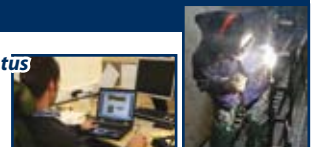
No two businesses are the same. That's why FB Kedjor offers customised package solutions. We do not only sell chains, but also offer mounting systems, customised lengths, packaging, labelling, instructions, certificates, marking/batch plates, etc. This is to ensure that our customers always receive a high-quality, efficient solution from start to finish. Our package solutions are suitable both for new production and for repairs and maintenance.



### Assembly, services and advice

- Assessment of status
- Optimisation
- Documentation
- Installation

As one of the largest suppliers of total solutions and chain renovations, we possess unique expertise. And we are happy to share it! Our technical sales staff extend the service life and reduce your costs for the maintenance of transmissions.





## **FB Kedjor in Europe**

*FB Kedjor AB, Sweden  
FB Chain Ltd. Great Britain  
FB Ketjuteknikka OY, Finland  
FB Ketten GmbH, Austria  
FB Ketten GmbH, Germany  
FB Kjeder AS, Norway  
Bondy A/S, Denmark*



**[www.fbkedjor.se](http://www.fbkedjor.se)**



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