

FINBOW

BRAND OF LOGISTIC OY

GENUINE
BOWHOW

Roll solutions and
services with expertise



Roll solutions that support the customer's process development

Individual rolls with smooth operation and high quality

Long service life and reliability are the key strengths of the Finbow products. High quality is ensured by providing the customer with versatile service and understanding the customer's needs: each roll is designed and produced according to the customer's process conditions. An advanced high-quality roll solution for paper machines is much more than just a roll. Each roll is unique – and the service provided entails much more than troubleshooting.

Solutions that meet international requirements

Finbow designs, manufactures and upgrades advanced roll solutions that meet the requirements of all international quality standards and the needs of our global customers. We follow our set of values in all our operations in respect to expertise, customer orientation, safety, and ethical values. We constantly monitor and develop our internal and external operations. This enables us to ensure that our customers always receive high-quality products and service when they do business with Finbow or its partners.

True customer value with our Premium class service

Participating in the customer's everyday work

In our solutions tailored to pulp and paper industry needs we focus on roll suitability to the customer's process, world class maintenance procedures and added value features to the rolls. Finbow wants to participate in the everyday operations of the customer by providing, for example, support and training: and the partnership does not end with placing an order or delivering a product. In addition to manufacturing, Finbow's operations include, for example, design, product development and maintenance.

All the above-mentioned added value services influence the service life and functioning of our products. When everything is done better in each step, significant cost savings are achieved. Quality assurance is crucial in order to obtain the lowest possible maintenance costs of the roll per operating hour. And quality is money, when you avoid one shutdown, you could save the price of one whole roll. With our systematic approach and process knowledge rolls last longer and match your increased production speeds.

Patented solutions and

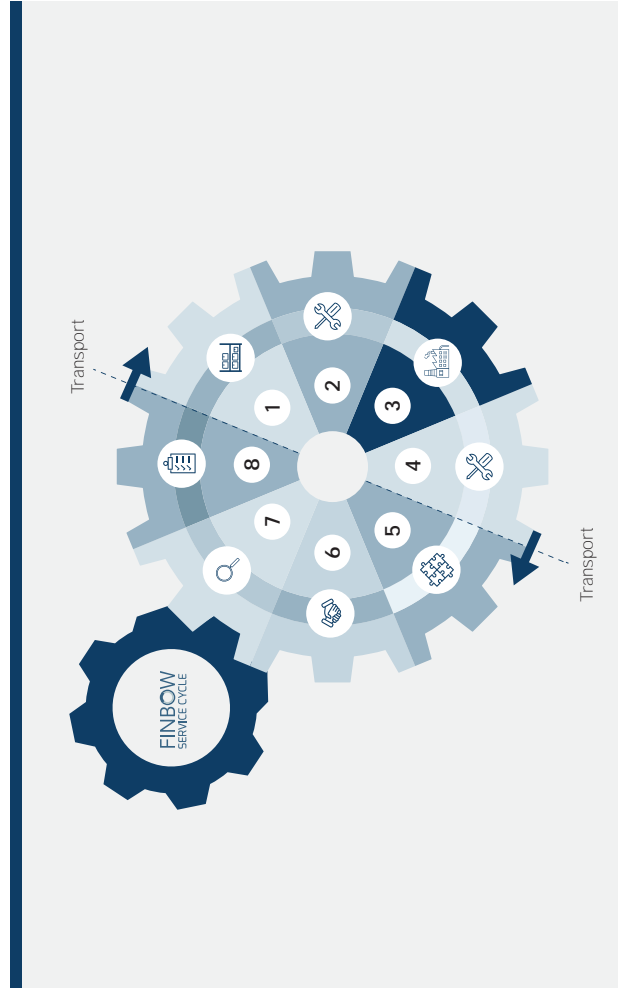
100% own manufacturing

The planning and manufacturing of the rolls is based on advanced, patented and sustainable solutions. In addition, Finbow offers Finland's leading expertise in corrosion and wear-proof materials. The affordable Finbow products are the result of our own OEM manufacturing which enables us to monitor the quality of the metal products ourselves. Logistic TKT Systems Oy is the original equipment manufacturer who designs, manufactures, inspects and packs the products. Quality comes first.



Finbow service for the whole life cycle of the roll

A roll is only a small part of the comprehensive solution from Finbow. It is our responsibility to help our customers in solving their problems by providing them with excellent service. Patented solutions provided by Finbow product development enable us to cost-efficiently improve or modify the properties of the roll. This is how we get to meet varying machine conditions, for example after rebuild or years of process development. The Finbow maintenance service provides high-quality maintenance services for rolls of other manufacturers as well and always uses only new spare parts. The Finbow rolls we maintain have the best maintenance guarantee on the market.



Storage

After the arrival inspection, the customer has received a new or serviced roll that meets the agreed requirements. When a roll arriving from Finbow is sent to the customer's storage, the storage must be dry and have an even temperature, and it must be free from shaking and vibration.



Installation and inspection

Lifting and installing a spreader roll requires high precision and caution. The Finbow experts provide customers with instructions and guidance in order to ensure correct operation. We also supply purpose-made lifting aids for spreader roll handling.



Consultation and training

The Finbow services include troubleshooting, consulting, and user and operation training for maintenance crew and operators so that the machinery can be operated at full speed. The patented Finbow solutions enable more running metres for the roll and extend the maintenance intervals by as much as several years. Transportation and handling are part of the training as well.



Transfer and monitoring tools

The roll is transferred with caution ready to transport.



Dismantling and evaluation

The roll is dismantled and the agreed maintenance is conducted. In addition to metal rolls, Finbow can service rubber rolls as well. The customer receives an illustrated report of the evaluation and measurements done during dismantling. After this, decisions concerning the work content are made together with customer, based on facts.



Decision on service content and verification of the roll's suitability to the process

Once the roll has been opened and measured, the service content is agreed upon with the customer. Before starting the actual work, the operating conditions of the roll are checked, such as the running speed range and temperatures, and humidity conditions. At the same time we check that the design speed of the roll matches the actual speed range of the paper machine. This quality assurance is conducted on new, maintained and upgraded rolls.



Designing, upgrading and maintenance of the roll

We consider for example the following factors when designing a new roll or roll maintenance/upgrade:

- special conditions of the paper machine and roll position
- paper quality produced
- actual running speed range and temperature
- the first and second critical vibration frequency and their multiples.



The maintenance cost of the roll per one operating hour must be as low as possible. This is why the performance of the new roll being manufactured or maintained is tested as close to running conditions as possible.

Quality assurance before shipping

Vibration tests are conducted on the roll at all speeds. At the same time the vibration of the roll is measured in order to determine its vibration characteristics. Quality of the roll and its adherence to the running values agreed on with the customer can be ensured. This extends the operating life of the roll.





Logistic – tailored machine parts from design to manufacturing

Finbow is a trademark of Logistic TKT Systems Oy. Logistic delivers parts and components for the machine, process and energy industries – from design to finished end products. The company makes highly demanding, security classified deliveries that are required by the regulations of the field to, for example, nuclear power plants and oilfields. The strengths of the company include high expertise in design, technology and materials – from the design phase to the manufacturing process.

From an idea to a hightech product

As a hightech manufacturer, Logistic tackles large-scale challenges in a short time. Customers are provided with assistance for quicker and more affordable commercialising of products and services. In addition, Logistic provides customers with concept planning and turnkey solutions from an idea to a finished product. The manufacturing of the company lies solely in the company's own hands. The operations of our company are conducted according to quality standards. Automation and robotics are at the center of our operations.

www.logistic.fi

The Finbow rolls – quality for each metre

The secret of the long life of the Finbow rolls lies in the suitability of the rolls properties to the running conditions (speed, temperature, humidity) – all confirmed with careful planning and calculation. In addition, the mechanical structure of the roll is strong enough in relation to the diameter and length. The Finbow Plus maintenance meets strict quality criteria and significantly increases the operating life of the roll. Finbowns own rolls use standard bearings, and thus the maintenance does not require parts from a specific manufacturer.

Finbow rolls

- For paper, paperboard, and tissue industries
- For all machine sizes and all driving speeds
- Spreader rolls
- Fly rolls



Innovations: direct drive solutions

Innovations: direct drive solutions. Finbowns direct drive solutions utilize a standard electric motor, the rotating force is transmitted to the roll via an axle. Accurate speed adjustment makes this a high quality product. Maintenance-free operation reduces the operation costs, as the maintenance and adjustment of a belt drive is not required. For more innovations, please visit finbow.fi

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