

moveroll

SIMPLY THE SMARTEST



...MAKING WHAT NO ONE THOUGHT ABOUT BEFORE

WI TECH
MASCHINEN AG
VR HANDLING PARTNER REEL HANDLING EXPERT

SAFE

RELIABLE

SIMPLE

EFFICIENT

What we think is always new and innovative

What we produce is surprisingly simple



About Us

MoveRoll Oy is a global supplier of roll handling equipments for the pulp and paper industry. With know-how in compressed air systems and long experience in the pulp and paper industry, we have designed a unique and innovative concept that makes roll handling in paper mills easier than ever before.

Developing and manufacturing new solutions that would revolutionize the industry has always been our main goal. Our priority is to offer new innovative solutions to the industry that fulfill the needs of our customers to their best satisfaction.

New innovation, new concept, new products! **MoveRoll** is simply the smartest!

Our Strategy

MoveRoll Oy's ambition is to be a globally recognized brand and a pioneer supplier of new innovative compressed air powered roll conveying systems for the paper industry. In order to maintain a constant global growth we will continue investing in new technology development and providing the best roll handling solutions to our customers.

We also pay high attention to our customer service, offering continuous support and assistance during the entire product lifecycle. This helps us to maintain a close relationship with our customers, to monitor our products' operation closely, and to deliver the best possible service.

One of our highest aims is to manufacture highest quality products that will always be more cost effective than traditional roll handling systems. That is why we offer new

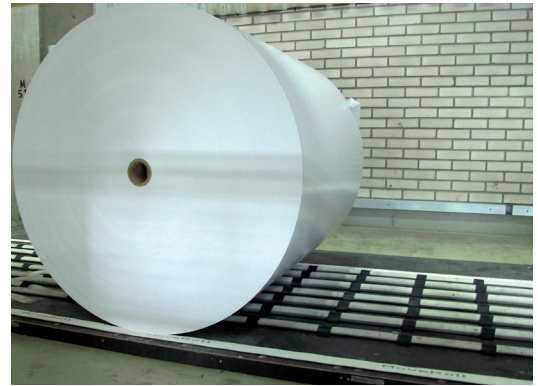
and innovative solutions to our customers that reduce their costs of investment significantly. Our conveying equipments guarantee savings through better productivity, reliability and energy reduction, so that we can offer the best roll handling solutions to our end- users.

MoveRoll Oy operates as a global partner.

Our Assembly Partners are internationally trusted roll finishing system manufacturers and OEMs which include our products in projects and provide the best possible installation and maintenance services to paper mills.

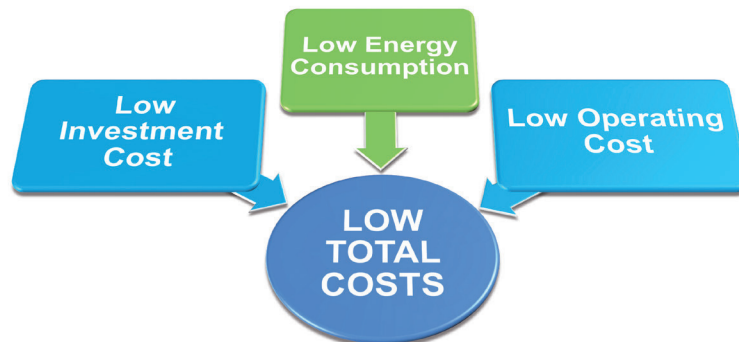
Our Sales Partners are our local sales and customer support contact. This collaboration enables us to optimise our customer support, sales- and aftersales service.

Best materials to enhance durability



Our products are manufactured from top quality materials that feature maximum durability and efficiency during the conveying process. MoveRoll's components are mainly made of special LVL, stainless steel, finished steel or special materials used for the pressure elements

Due to our completely new innovative technology based on pressure elements MoveRoll has several benefits that make MoveRoll a very interesting investment for paper mills.



Best Solution at Low Cost

It is not common to find a product that increases productivity, safety and savings without increasing investment costs. Often traditional conveying systems have high foundation and maintenance costs; the energy consumption is high and such systems can be modified only with difficulty.

Our 40mm modular system can be installed directly to the ground making the installation easy and flexible. With low initial investment costs and almost zero requirements for maintenance; MoveRoll

has proven to be the best selection for conveying rolls in paper mills. Through reduced total costs and increased productivity a fast return on investment is guaranteed.

MoveRoll conveyors have a long lifecycle and can be easily modified or maintained without affecting the production process in paper mills. That is why we call MoveRoll simply the smartest.

MoveRoll Solutions, Tailor-made to fit our customers' needs

MoveRoll Horizontal Conveyor

MoveRoll horizontal conveyor works with a new unique technology: Pressure elements move paper rolls. The conveyor is modular and can be assembled directly onto plain floor without need for supporting structures or foundation. The modules are only 40 mm high and approximately 2.5 m long, which allows for a smooth installation process.

The system retains the roll on the conveyor so that each module is automatically a buffering place. The controlling system makes it easy to accelerate, control the



speed, break and lock the roll in place. The speed of the roll can be adjusted up to 1m/s and is under control all time.

MoveRoll Ramp Conveyor

MoveRoll ramp conveyor works according to the same basic principle as MoveRoll horizontal conveyor. The special feature of **MoveRoll ramp conveyor** is that it can be used to convey the rolls in decline applications up to 30 mm/m – simply by using pressure elements! The movement of the paper rolls can easily be controlled any time.

MoveRoll ramp conveyor modules are 40 mm high and approximately 2 m long. Automatically each module is a buffering place and can store several rolls at the same



time. The system can be assembled on the bar construction, floor or even on top of the old construction.

MoveRoll Bumpers

MoveRoll Bumper is developed for static use. Mounted into mechanical steel plates or walls, its function is to take impacts of paper rolls. The product is designed specifically for the peculiarities of paper roll

handling. **MoveRoll Bumpers** are suited for modular top assembly which reduces assembly costs. **MoveRoll Bumpers** are sold in selected lengths of up to 14 meters.

“We offer a new innovative technology making the roll handling process easier, faster and more cost effective”

MoveRoll Turntable

MoveRoll turntable transports rolls in more than one direction. The new unique and innovative technology used to convey and turn the paper rolls makes the delivery of paper rolls easy, flexible and fast.

The working principle is very simple: The turntable receives the roll and locks it to the centre using pressure elements to control it. After a turn into the desired direction the roll is driven out to the final destination. MoveRoll turntable can be adjusted easily on top of the turning unit.

MoveRoll turntable has a unique feature, that allows the roll to continue driving over in a straight line or it can turn 90° to both sides. This makes the conveying process much easier.

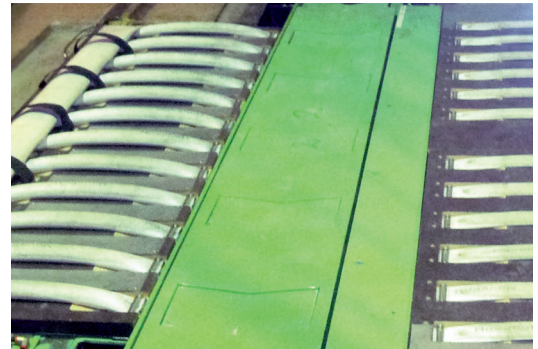


MoveRoll Receiver

First zero energy receiver with sensitive cushioning of the various roll dimensions.

MoveRoll receivers have been developed to fulfill the new needs of the industry. The receivers are zero energy solutions that reduce the energy consumption of the paper mills. They follow the MoveRoll principle, meaning that there are no mechanical maintenance needs and that all maintenance can be done from the top. MoveRoll receivers need less space than traditional receivers.

MoveRoll receivers are floor mounted units that do not require any foundations.



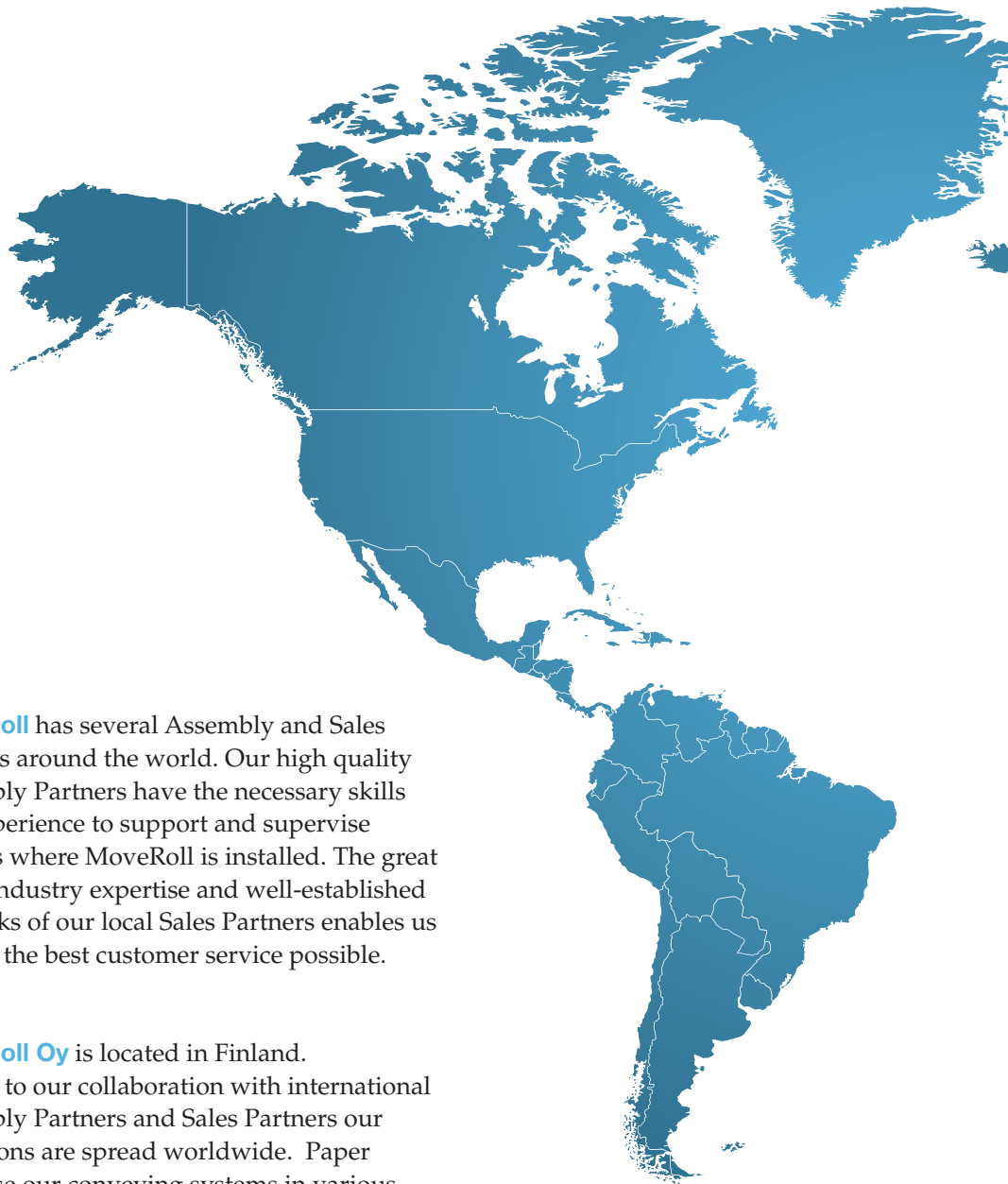
**No complicated adjustments!
Good capacity to handle different size of rolls!**

MoveRoll Receiver Family

There are two different types of receivers: MoveRoll receiver and MoveRoll heavy receiver. **MoveRoll receiver** is designed to be used with MoveRoll conveyors when, at the time of arrival at the receiver the

speed of the roll is very low. **MoveRoll heavy receiver** is developed for applications where rolls have more speed, such as in ramp applications.

MoveRoll Oy a reliable global partner...



MoveRoll's System Suppliers

MoveRoll has several Assembly and Sales Partners around the world. Our high quality Assembly Partners have the necessary skills and experience to support and supervise projects where MoveRoll is installed. The great paper industry expertise and well-established networks of our local Sales Partners enables us to offer the best customer service possible.

International Operations

MoveRoll Oy is located in Finland. Thanks to our collaboration with international Assembly Partners and Sales Partners our operations are spread worldwide. Paper mills use our conveying systems in various locations around the globe. We have the experience and know-how to flexibly meet the needs of our end customers around the world.

Our worldwide international partners:



Maruishi



*“Our mission is to deliver new unique technologies
available for all via our international partners”*



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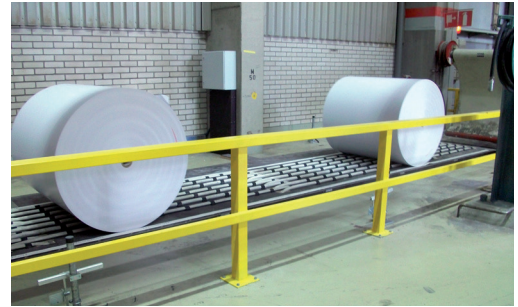
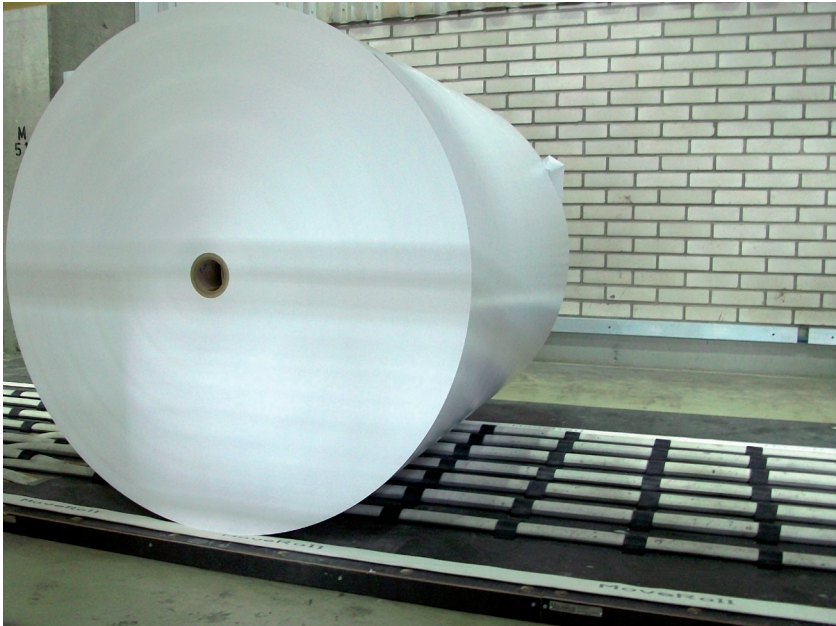
SAIMATEC
ENGINEERING

TRANCEL

 **HAINT** 长泰

 **GLOBE**
SINCE 1917

Building quality through collaboration



Smooth roll handling reduces significantly material damages during the conveying process.

Together with High Quality Partners

MoveRoll is one of the thinnest and most contemporary conveyors on the market. Innovative technology that makes the conveying process faster and more effective goes hand in hand with excellent design and unique appearance. Our skilled engineers and world-class suppliers make

sure that we are manufacturing high performing products with a long lifecycle.

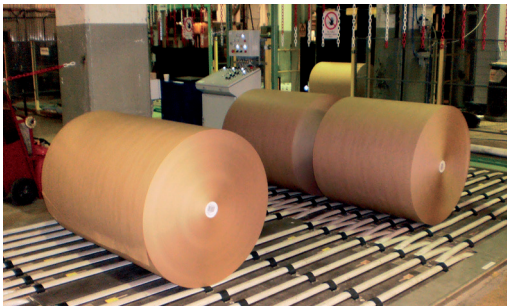
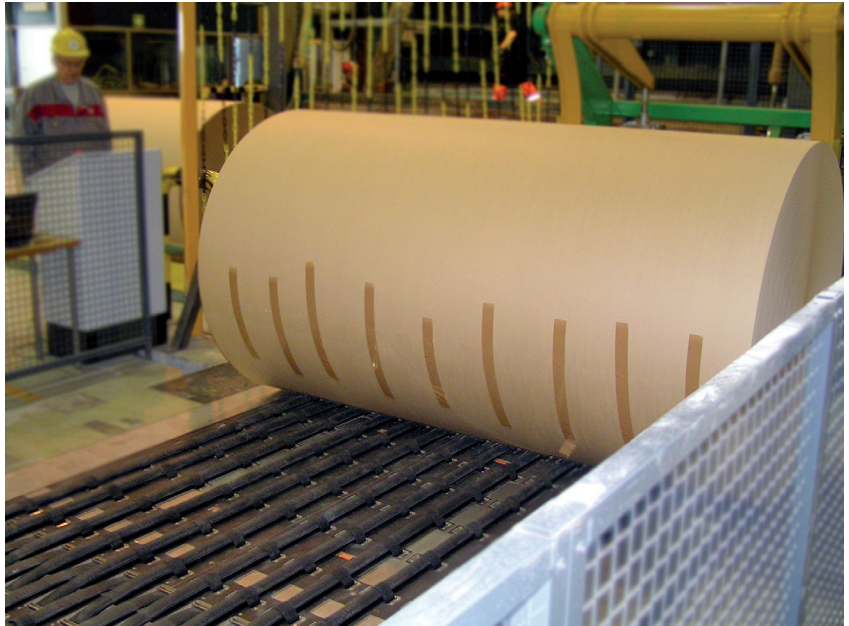
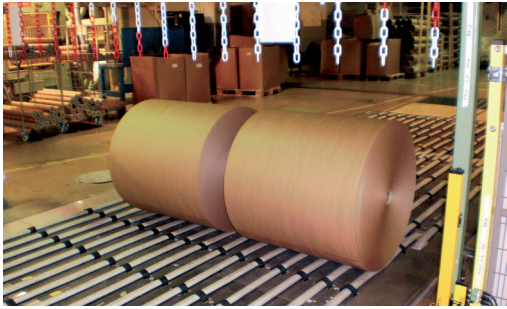
Let us invite you to have a closer look at **MoveRoll's** manufacturing process and introduce our suppliers!

Body

The special LVL modules we use for MoveRoll conveyor come from a high quality supplier in Finland. The body of MoveRoll conveyor is manufactured with great precision to guarantee high quality standard. Our supplier carefully processes the special LVL module in state of the art machinery for more than two hours so that all channels and important small shapes can be added into it. MoveRoll conveyor consists of more than 800 small details. Thanks to our experts we have achieved the needed quality and tolerances.



“Our first priority is the satisfaction of our customers. We aim to deliver products that make your work routine easier and faster”



MoveRoll conveyors have high handling capacity and can be used with all different roll sizes

Pressure Elements

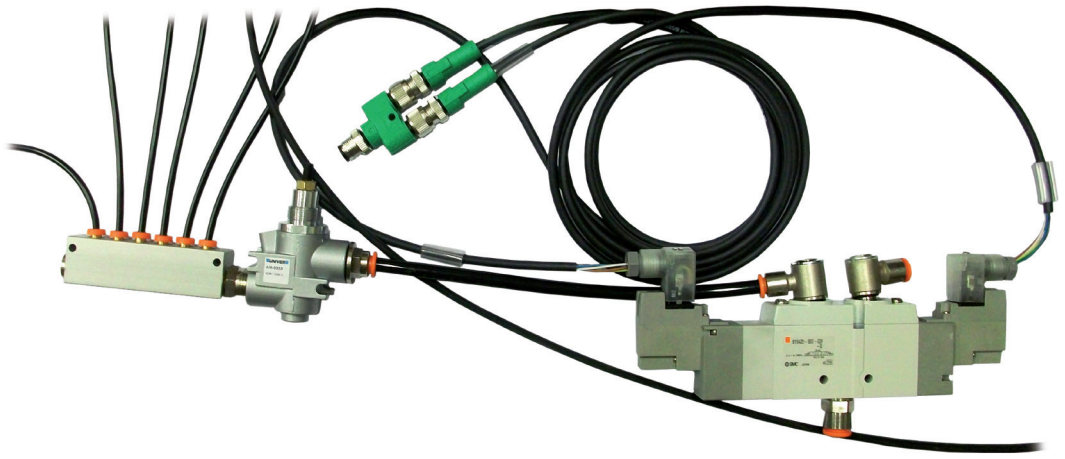
MoveRoll’s pressure element is one of our key components. The pressure element generates the conveying process and is also the only wearing part of the whole system. Together with our European partners we developed MoveRoll’s pressure element for

a long time – running tests every day over hundreds of thousand test cycles. “Our pressure element is like the recipe of Coca Cola, not many people know what it is and where it comes, but it works perfectly” says Mikko Rantanen, CEO of MoveRoll Oy.

Steel Parts Put All Together

Steel parts hold MoveRoll modules together and protect the key components. At the bottom of the module is a zinc-plated steel plate which protects the unit against the foundation and makes the channels. There is just this plain plate at the bottom, so that all maintenance can easily be done from the top of the unit. The bottom plate is like the module, a lot of the shapes and holes which make it easy to use yet difficult to produce.

All side and top covers as well as other steel parts are stainless steel fullfilling the industry standards to the maximum. The idea of using stainless steel in all parts except for the bottom plate is outstanding. It gives us a good look and makes MoveRoll conveyor paint free. That way we reduce time and cost in the production process and achieve our unique design.



Pneumatics

It looks easy, but I can guarantee it is not!
– Mikko Rantanen, CEO MoveRoll Oy.

The heart of MoveRoll conveyor is the correct pneumatic system. When we developed our pneumatic system in the last six years our main goal has always been to make a simple and user-friendly construction. Thanks to the skills of our engineers and suppliers the result is a

simple and working solution that is easy to use and easy to service.

We have developed MoveRoll's unique air flow and distributing technique together with our international suppliers which are global brands for pneumatics. Our pneumatics suppliers are known for their flexibility and know-how.

Electronics

Since our pneumatic system is modular, the electronics have to be modular and ready-made as well. The advantage of modular electronics is that connection errors can be avoided and that the installation process becomes faster.

The cable size we selected is M12, which is especially robust and IP65/IP66 protected.

This system makes our whole module IP65. Capacitive proximity switches, located on the top of the module, are responsible for the sensing of the paper roll. These sensors are the brains of MoveRoll conveyor. The modules communicate with each other when the roll is leaving so that we always know where the roll is.

Testing

At MoveRoll Oy testing and product development cannot be separated. Before we accept our new products into production all of them need to be tested thoroughly. The basic test is to run 1 million cycles in the test lab. After good results the testing continues in our test facilities with real paper rolls. Factory tests are run in paper mills of our partners in Finland and Sweden, which is a cost-effective solution.

We highly appreciate that our partners accept us to test new MoveRoll innovations. That way we can develop new units for the whole industry under the best possible conditions. During the last two years we have had rolls running 24/7 to make sure that the new designs and products are good enough, robust, and meet our customers' needs.

All produced modules are also tested with our testing program and identified with serial number which enables us to track them if a problem occurs.

Thinking of a new Investment?



"MoveRoll is designed and assembled in Finland. Using world-leading suppliers we make sure that we can offer high quality products that have a great performance and a long life-cycle."

We have the smartest solutions that increase your productivity and savings!

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Interested in MoveRoll products?

CONTACT US!

MoveRoll pressure conveyors can be adopted in different applications. Our system is flexible and can be modified depending on our customer needs. The installation process is easy and may take only one day depending on the size of the project.

Our Supplier Partner



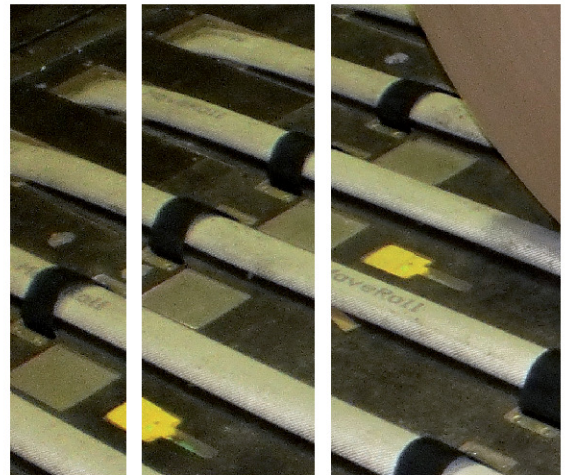
Witech Maschinen AG
P.O. Box
CH-5200 Brugg
Switzerland

Phone: +41 56 / 450 27 60
Fax: +41 56 / 450 27 62
E-Mail: info@witech.ch
Internet: www.witech.ch

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MADE IN
FINLAND



Our Supplier Partner



Witech Maschinen AG
P.O. Box
CH-5200 Brugg
Switzerland

Phone: +41 56 / 450 27 60
Fax: +41 56 / 450 27 62
E-Mail: info@witech.ch
Internet: www.witech.ch