

Pinomatic at LIGNA fair already for the 4th time!

**You will find our stand in hall 12.
 Welcome!**

Pinomatic is participating already for the fourth time as an exhibitor at the LIGNA fair organised in Hannover, Germany.

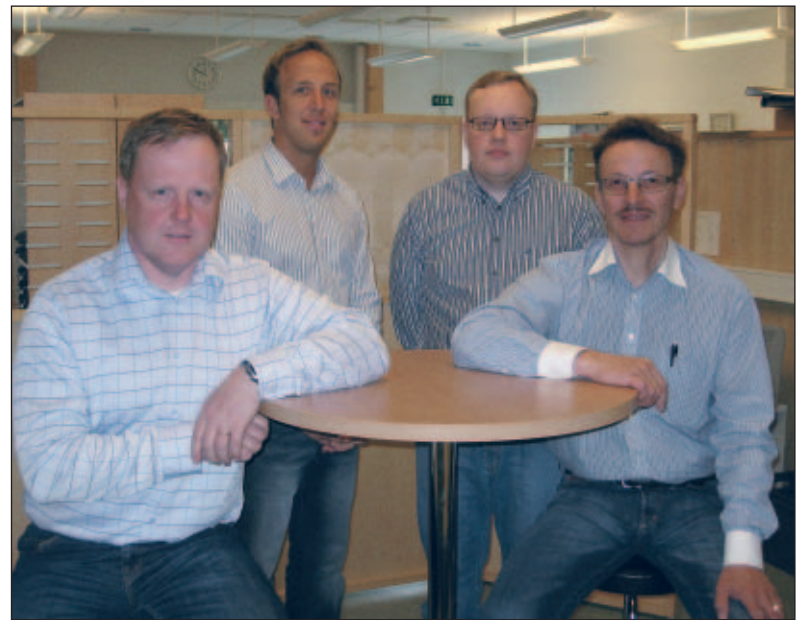
At our stand E75 (hall 12) we give work demonstrations at a production line that includes the Pinomatic 1900 stacker / destacker, automatic packet formation unit for panels and mouldings, and the new product of Pinomatic – a shrink packaging machine developed for panel, mouldings and parquet products.

Pinomatic production line solutions with over 20 years of experience!

The areas of Pinomatic know-how include production lines for door- and window factories, panel-, moulding and furniture factories, to name only a few. In addition, we also provide pla-



ning lines, finger jointing and finishing lines, sorting and cross-cutting saw lines. Our products include stacking- and destacking devices and automatic mechanisation devices. Also edge gluing presses and the Wood Vision scanner for automatic quality grading. All our products are made in our own factory, from designing stage to mechanisation, electrification and automation. The results are guaranteed by decades of experience and professional employees.



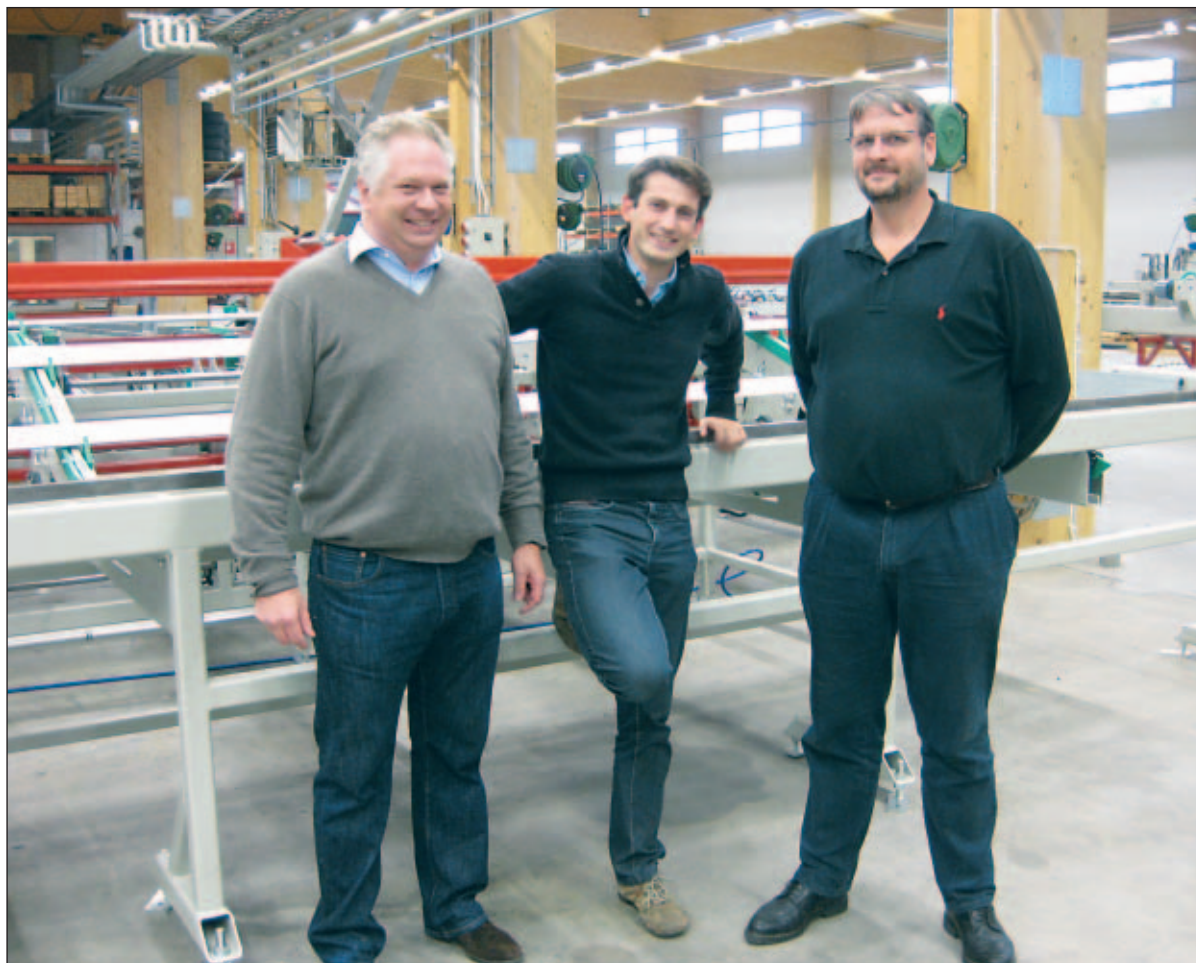
Pinomatic team at the fair: Petri Oravamäki, Ville Hautanen, Sami Malinen and Matti Rantala.

Silverwood purchased finishing line mechanization from Pinomatic Ltd

Silverwood is a French company and it's a specialist in timber cladding, and indoor- and outdoor covering. Pinomatic delivered to Silverwood's St. Malo factory finishing line mechanization in last October.

Silverwood is the first French manufacturer of inside- and outside claddings (paneling), and the leading French importer of wood. Silverwood buys, processes and preserves timber to make an efficient and sustainable material. Silverwood's business includes import, sawing, planing, preservation, finishing and logistics. Company's volumes in year are: 800 000 m³ of raw wood, 90 000 m³ of panels and more than 200 000 m³ of planed products. Silverwood has four import sites, and six production- and logistics platforms in France.

Environmental issues are very important for Silverwood. Company purchases PEFC wood (Programme for Endorsement of Forest Certification Schemes) to make sure that the wood comes from sustainable managed forests. Industrial pro-



Thierry Lallia (Finnso Bois), Vincent Plante (Finnso Bois) and Richard Clouard (Wolseley) arrived in Pinomatic last September to monitor the test-running of the line.

cess is also made environmentally friendly. Silverwood is a member of LCB (Le Commerce du Bois), and has a certification for that.

Silverwood belongs to Wolseley Group, which is the world's number one distributor of heating and plumbing products to the professional market, and a leading supplier of building materials.

Pinomatic's delivery included the infeed and reception equipment of the finishing line. The equipment was delivered on the turnkey principle, meaning that Pinomatic also provided installation and commissioning. Products will have a guaranteed high quality, because it is possible to reject pieces both at the infeed and reception, if quality criteria are not met. The line includes several points, which are tailored to the needs of the client. A good example of this is a stacker designed for the production of client's product bundles at the end of the line, which has both an automatic and semi-automatic operation mode. A lot of attention has been paid to the working ergonomics and work safety of employees in the design of the line.

Robots for wood industry from Pinomatic Ltd



One of the last deliveries was a top-speed reception unit for an edge banding machine, delivered to the client in last April.

Robot deliveries to the wood industry, started by Pinomatic in 2010, have become increasingly frequent. The robots have a very wide range of applications in the wood industry, and entail significant benefits. Robots help to improve competitiveness and quality, since fatigue or other impediments do not affect the production. Monotonous and heavy work can be automated by means of robots, which will increase work satisfaction and safety from the employees' aspect.

Various material handling tasks, such as the infeed of production lines, serving of a processing machine and stacking on a platform are typical areas for the application of robots in the wood industry. A robot is also able to manage independently various process stages, such as assembly, sanding, spreading of glue and painting.

Pinomatic cooperates with ABB, the leading manufacturer

of industrial robots, who has delivered more than 185,000 robots around the world.

The skills of Pinomatic in the woodworking industry combined with ABB's experience with robots give the woodworking industry an excellent opportunity for production development. A suitable robot is selected among more than a hundred options and Pinomatic will deliver the production line solutions required for the environment of the robot, and the gripper of the robot.

Pinomatic takes the overall responsibility for the delivery, also installing and commissioning the robot. All the programming employees in Pinomatic have undergone a training necessary for the commissioning of robots.

New sheet metal working machines have changed the structure of Pinomatic machines

The structure of Pinomatic Oy's machines has been remarkably changed by the newest laser cutting technology with laser power up to 5 kW, purchased for the Pinomatic's metal department three years ago, and by the servo electric bending technology. Also the devices produced earlier by Pinomatic utilized laser cut elements but only now, when the machines are in our own

production, laser cutting has been exploited increasingly.

Also the design department has been given more choice in design as we have become aware of the nearly limitless possibilities brought about by these devices.

It is possible to design and produce even very demanding regulating unit structures and components; the production methods pose

no limits. In the clients' machines this can be seen as compact structures that can fit into small spaces as well as a possibility to build special devices according to the clients' desires; one should also not forget about the distinguished appearance of the devices.

Other notable benefits:

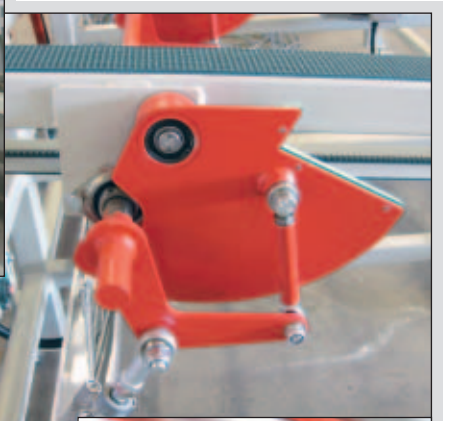
- Elements are always dimensionally accurate.
- Due to the quality of the shear area post-processing becomes unnecessary.
- The next stage, welding assembly becomes faster and more accurate as the laser cutter has created the fittings of the components to be connected.
- The laser cutter is using the program Nestaus that minimizes the use of raw material.

• It is easy and fast to produce single parts: for example spare part deliveries.

• Stocks are smaller as steel profiles and tubes will be replaced with steel sheets.

• The machine works automatically and this reduces the need for workforce.

The next time you see a machine made by Pinomatic Oy and examine its metal components you will notice how much laser cutting and electric bending is being used in today's mechanical engineering.



Automation solutions for production lines

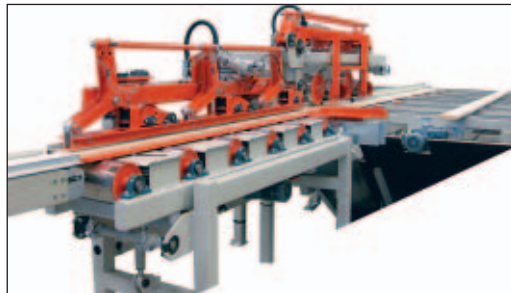
Part 6. Efficient moulding lines

During the last years, mechanization deliveries of efficient moulding lines have grown into a considerable part-area of Pinomatic Oy's activities. Pinomatic's own automation department has managed to bring new innovations to the lines seen, for instance, at fast changes in settings. As the production batches of customers have grown smaller, the fast-set moulding lines are more important and the same is required also from the mechanization equipment since efficiency is not just due to high driving speed of moulding lines. This example line has been in use in Kuhmon AA-Puu since February 2011.



3. Cross-cutting saws

The line has three crosscutting saws that enable precise measuring of pieces and cutting them into two, if necessary. The blades are automatically adjusted according to the dimensions given to the control centre. Cutting waste is directed for crushing by a conveyor.



4. Moulder feeders

The line has a massive moulder feeder that enables the feeding speed of maximum 250 m/min. The settings (width / thickness) are automatically adjusted according to dimensions given to the control centre.



2. Measuring and turning device

The piece is displayed with the help of a laser and camera and turned 180 degrees before moulding, if necessary, with the turning device.

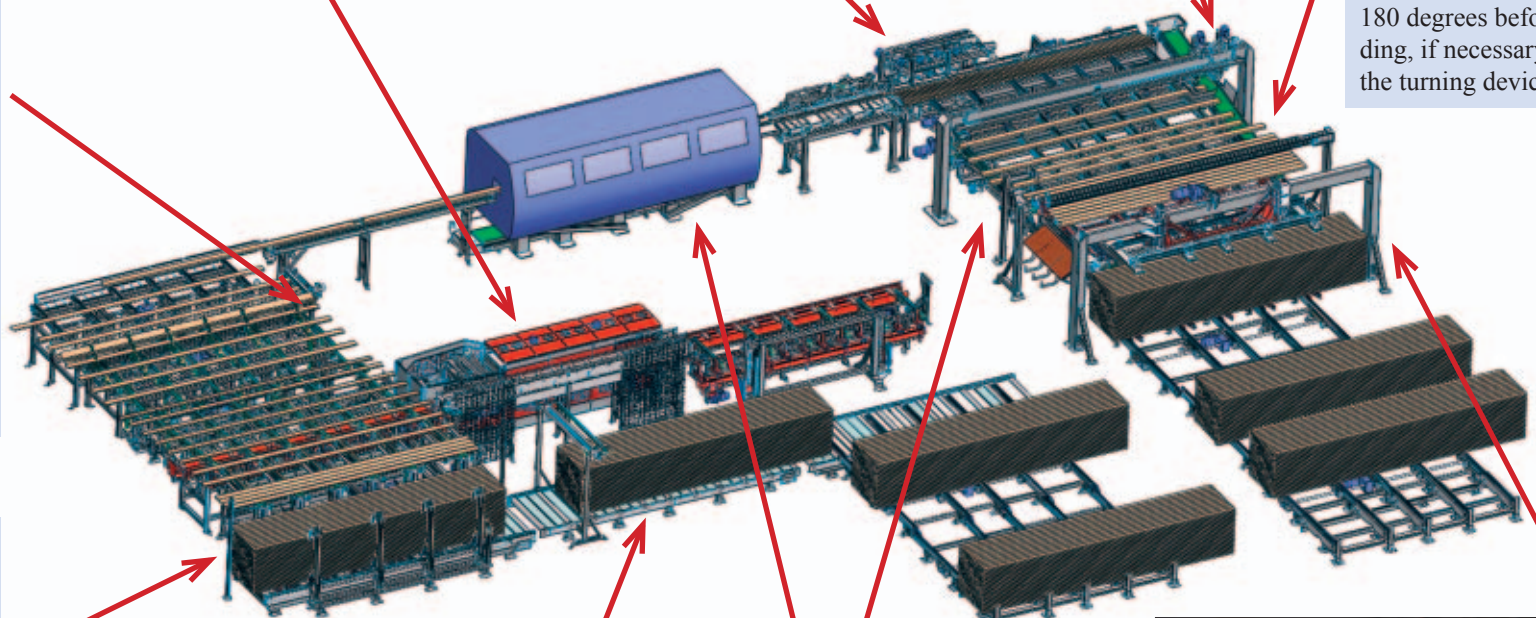


6. Shrink packaging

Products on the line can be packaged right into shrink plastic. With this driving method, there is a stacking machine below the line that stacks the panels into small batches and straps the stack. Then the stack is taken into a fast HotLine shrink packaging machine manufactured by Pinomatic from where the packages are taken back to the line and stacking device by a conveyor.

5. Quality evaluation point

In the quality evaluation point, the turning device can be used so all pieces can be evaluated from both sides. Second-quality items are taken into powered stock by pushing the button, the base of the stock lowers according to the amount of pieces. At the end of production session, the second-quality pieces can also be taken to stacker or to shrink packaging machine.



7. Stacking

The line ends with stacking device that stacks also shrink packaged panel stacks. The device has automated cross stick feeder where one larger cross stick cassette moves above the stack feeding the sticks into the stack.

8. Packaging and strapping

Prepared stacks are transferred to a station with a roller for protective wrapping and a semi-automatic strapping machine.

9. Waste handling

In front of the moulder below the conveyor equipment there is an automated brush that keeps the floor clean and takes waste timber to the chipper with a belt conveyor. There is also a wide belt conveyor below the moulding machine that keeps the base free from waste timber.



1. Destacking of timber stacks

Destacking is executed with a fast vacuum gripper where the timber stack is also lifted upwards and the powered beams draw the layer to the chain conveyor. The cross-sticks are pushed to the side of the line.



News

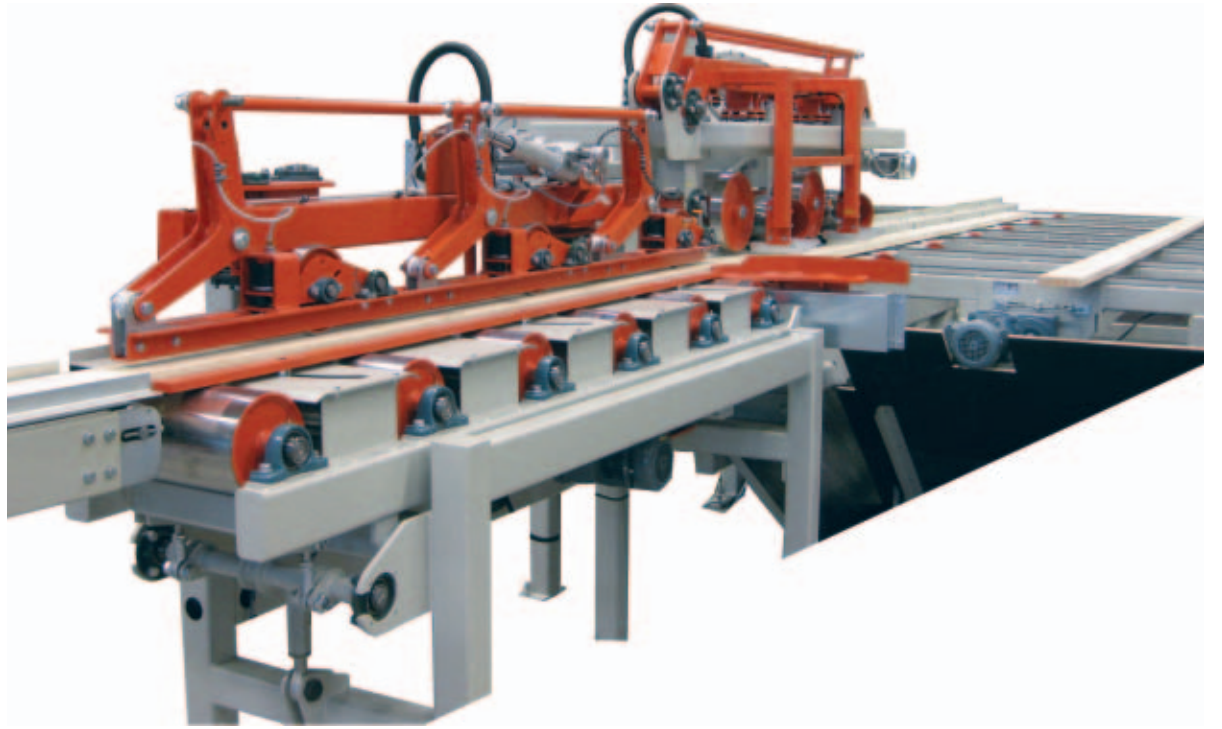
At the turn of the year a Swiss wood-processing company Kistenfabrik Stalden AG ordered from Pinomatic Oy planing line mechanization equipments for a new planing line, which will be built in a factory near Bern. Kis-

tenfabrik Stalden AG belongs in the OLWO group that also operates in two other locations in Switzerland. The deliveries will start in July and the line will be ready for production in early autumn.



A project meeting at the client (from right) Managing Director Marcus Lädach and technical expert Martin Gfeller representing the client. Pinomatic's representatives Ville Hautanen, Tero Viertola and Maximilian Riegg, who is Pinomatic's representative in the German-speaking Europe region.

A new robust series HEAVY



Next to the earlier LIGHT and STANDARD series, Pinomatic products now have a HEAVY series. This new size category will serve high-capacity planing mills, producers of laminated logs and

components, and the log house industry. In addition to mere robust structures and components, the HEAVY series also involves higher speeds and more efficient setting of patterns. The first moulding line of

the HEAVY series was delivered to the customer at the end of 2010. The line includes a feeding device for moulder, which is shown in the picture.

Appointment News



Marko Rintatalo started working in the Pinomatic service department on 21.02.2011. By his training Marko is a mechanic, but he also has a vocational diploma in maintenance. Marko has more than 26 years of experience in material handling industry, and has performed respective tasks previously in Vesme Oy.

Pinomatic employees

The memories of many men, and why not women, in Finland of their younger days in the 1970s and 1980s include the "old-time" Tunturi moped. These beautiful beasts with the body of sheet steel were produced in the years 1959-1987.

This moped made in Finland became the all-favourite among the nation, being the most common motor vehicle in Finland in the 1960s. Currently, any such moped which is in a good condition costs more than new mopeds, while the models from the early years are special rarities.

Today the Tunturi brand is better known around the world for its top-quality home fitness equipment, such as fitness cycles, rowing machines and similar, but the product range also include bicycles.

Jani Hiula, the After Sales Manager of Pinomatic has throughout his life been busy with one or another motor vehicle, but the true love in the "old-time" Tunturi mopeds struck him about a year ago. The 82-year-old grandfather from Jani's father's side has repaired villagers' Tunturi mopeds for decades. When Jani once went to meet his grandfather at the work-



A picture of a recently finished restored piece next to the following project.

shop and saw all the old rare moped parts and bodies, it sparked his passion for this hobby.

Currently Jani is working on 7 mopeds, which include also older models from the 1960s. Jani restores the mopeds entirely to their original state, after which they can be registered directly in the museum register, and the insurance will cost only around thirty euros per year. When the mopeds are ready, Jani

intends to keep a few and sell the rest, if there will be any willing buyers.

Right now Jani works on a Tunturi Maxi from 1964. 'Getting one moped ready takes from one month to a half a year or even more, depending a little on how busy it is at work. In case of a lot of travelling, there is less time for the hobby,' Jani tells.

pinomatic

Pinomatic Ltd
Pohjolantie 7,
61800 KAUAJOKI
FINLAND

Tel. +358 (0)20 741 9720
Fax +358 (0)20 741 9759
pinomatic@pinomatic.fi
www.pinomatic.fi

Administration

Matti Rantala
President
Tel. +358 (0)20 741 9743
matti.rantala@pinomatic.fi

Sales

Petri Oravamäki
Vice President
Tel. +358 (0)20 741 9740
petri.oravamaki@pinomatic.fi

Ville Hautanen
Sales Manager
Tel. +358 (0)20 741 9724
ville.hautanen@pinomatic.fi

Sami Malinen
Sales Manager
Tel. +358 (0)20 741 9735
sami.malinen@pinomatic.fi

After Sales Service

Tel. +358 (0)20 741 9727
service@pinomatic.fi

Jani Hiula
After Sales Manager
Tel. +358 (0)20 741 9725
jani.hiula@pinomatic.fi

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Pinomatic Ltd's
customer magazine

Editor:
Pinomatic Ltd,
Ulpu Kallio-Könnö, Secretary
Puh. +358 (0)20 741 9730
ulpu.kallio-konno@pinomatic.fi

Layout and printing:
SeT-Print, Teija Seppälä



Agent in French speaking Europe:
Finnso Bois
Accompagne vos projets durables
18, quai Louis Blériot
75016 Paris, France
Mr. Thierry Lallia
Tel. +33 6 82 59 54 14
www.finnso Bois.com

Agent in German speaking Europe:
IB Riegg
Ingenieurbüro für Planung und Beratung
Schirmbeckstraße 16
83022 Rosenheim, Germany
Mr. Maximilian Riegg
Tel. +49 8031 39186-88
Mobil +49 170 79 78 496

Agent in Lithuania:

singlis

UAB "Singlis", Savanoriu pr.187-4 korp.
02300 Vilnius, Lithuania
Mr. Andrius Zuzevicius
Tel. +370 687 36037
www.singlis.lt

Agent in Sweden:

Baldia AB

Norrborn 1102
82194 Bollnäs, Sweden
Mr. Nils Myhrlund
Tel. +46 (0)278 26400
www.baldia.se