



**Equipment, tools and technologies for
FORESTRY AND WOOD PROCESSING**

SOLUTIONS AND TECHNOLOGIES FOR FORESTRY SECTOR

Engineering and metal working industry in Latvia is one of the leading kinds of industry. More than 80% of the production are exported to more than 100 countries of the world.

Manufacturing of equipment, devices and technologies for woodworking, logging and biomass energy industries is one of the engineering fields where considerable knowledge and competence are obtained in Latvia.

Individual approach

Manufacturers of the equipment for the forestry sector are mainly small and medium-sized enterprises where each of them specializes in particular market niche and is able to offer individual solutions meeting a consumer's needs. Most of the manufacturers specialize in individually developed solutions adjusted to a customer. That ensures better meeting a customer's actual needs. Simple solutions, as well as completely automatical production lines may be offered depending on the customers' needs.

Efficient cooperation

Mutual cooperation of the companies allow to focus on their basic competences, combine knowledge and resources for implementation of complicated and great projects. It is possible to attract the necessary resources from other enterprises of the sector in order to ensure production. Metal working companies in Latvia have a high technological level which allows to make parts and component parts of high precision and complexity. MASOC always maintains a data base about the technological possibilities of companies and facilitates their mutual cooperation.

Inter-branch synergy

In comparison with other European countries, Latvia may be considered as a country rich in forests and the country has continuous forestry traditions based on sustainable development principles. 54% of the territory of Latvia is covered by forests and wood may be considered as one of the main local natural resources.

Engineering and metal working and woodworking sector are two of the three leading industries in Latvia which in total constitute 45% of the manufacturing output and 54% of the total exports of the goods of Latvia. Latvia has long-lasting traditions and knowledge both; in engineering, and metal working, and in forestry and woodworking sectors. Therefore, on the basis of the existing knowledge base enterprises are able to offer efficient solutions to all segments of the forestry sector like forest industry, wood-processing and use in power industry.



A close cooperation with customers in the local market has allowed the manufacturers of equipment to develop competence and knowledge, understanding of the production processes and ability to develop corresponding solutions both; for the local market, and export.



MASOC (Association of Mechanical Engineering and Metalworking Industries of Latvia) was established in 1994 as an informative and consultative centre for mechanical engineering industry. Our mission is to represent the interests of our member companies, initiate and implement joint projects and activities with the main objective of developing international competitiveness of the sector.

Members

Today MASOC unites about 150 leading companies specialised in various branches of metal processing and mechanical engineering. Besides manufacturing companies, service providers and related companies are also among the members. Close co-operation is ensured with professional and higher education establishments, research institutes and municipalities.

Activities

The main activities of the association include:

- Representation of members' interests at national and international level
- Networking and development of commercial collaboration among members
- Maintaining of the database on technological capabilities and competences of the member companies
- Marketing, internationalisation and export promotion activities
- Co-operation with education and research institutions
- Further education and skills development projects
- International co-operation with similar organisations in other countries.

NATIONAL
DEVELOPMENT
PLAN 2020



EUROPEAN UNION
European Regional
Development Fund

INVESTING IN YOUR FUTURE

The material has been prepared and published within the project
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Cluster initiative

Latvian Metal Cluster is an initiative coordinated by MASOC with the general aim of strengthening the international competitiveness, innovation and productivity. Companies, institutes, education and other related institutions are involved in common activities in the four main focus areas:

- Commercial cooperation
- Internationalisation and export development
- Education and research
- Productivity and production efficiency.

We offer:

- Information about products, services, technological capabilities and competences of the member companies
- Assistance in finding suppliers and cooperation partners
- Effective subcontracting network covering the whole range of metal processing technologies
- Single contact point for enquiries.



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MAIN PRODUCTS AND SERVICES

Page	Company	Wood processing				Wood processing			Biomass energy				Services	
		Log handling equipment and platforms	Log handling and sorting lines	Band saws	Circular saws	Milling, planing and sanding equipment	Wood drying, impregnation equipment	Saw blades, auxiliary tools	Wood choppers	Chippers	Timber byproducts handling and sorting lines	Briquetting, charcoal production equipment	Conformity assessment and certification	Design of non-standard equipment
8	BALT BRAND						X							
10	DORES ENGINEERING				X	X							X	
12	INOS										X			
14	LARMET WSM				X				X					
16	LATVIJAS FINIERIS IEKĀRTU RŪPNĪCA		X							X			X	
18	NOOK, LTD						X							
20	CERTIFICATION AND TESTING CENTRE											X		
22	SMARTTEH	X	X										X	
24	TALSU TEHNIKA		X	X	X	X			X				X	
26	TEHNIKA AUCE	X		X			X							
28	TTS (Transportation Technology Systems)	X	X										X	



BALT BRAND

About the company

The company "Balt Brand" was established in 2013 by successful partnering of specialists with more than 15 years of experience in manufacturing of timber-drying kilns. All in all, company specialists have installed more than 1000 drying-kilns in various countries and different climate conditions. Hence, their innovative mode of thinking and foresight provides the opportunity to adapt to the specifics of any order.

In order to promote its development, the company SIA "Balt Brand" utilises only the most current generation technologies in the manufacturing processes and continuously invests in the R & D, thus developing drying kilns of high quality.

Products

Timber drying kilns manufactured by the company SIA "Balt Brand" are individually tailored to needs of our customers after analysing the information and wishes provided by every customer. The company's specialists recommend the most suitable solutions that are energy efficient, economically profitable and ensure a stable high quality of the material to be dried.

Advantages of our kilns:

- Each drying unit is optimally adapted to the type of timber and place of production
- The frame has been designed for also harsh climatic conditions
- Drying cycle shortened to the absolute minimum
- Easy servicing
- Low operational costs
- The latest generation of control systems for saw lumber drying and pallet heat-treatment
- Capacity of kilns – up to 300 m³ net load in a single kiln
- Conforms to European manufacturing standards

Contacts

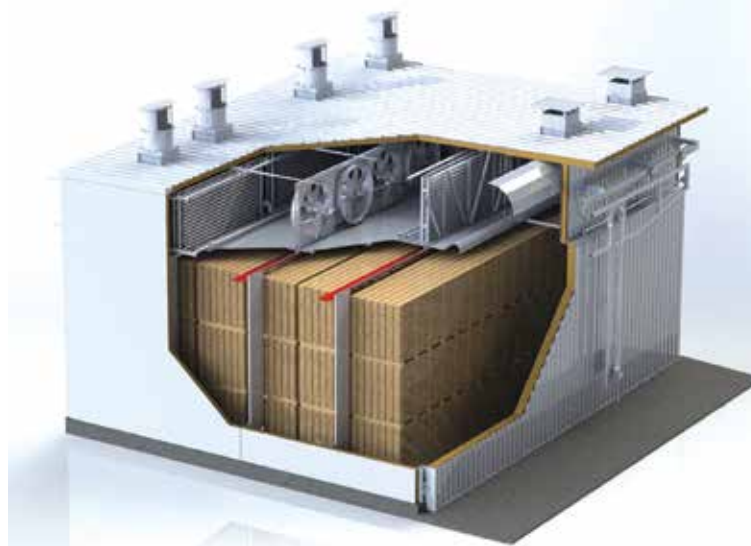
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FORMA



DORES ENGINEERING

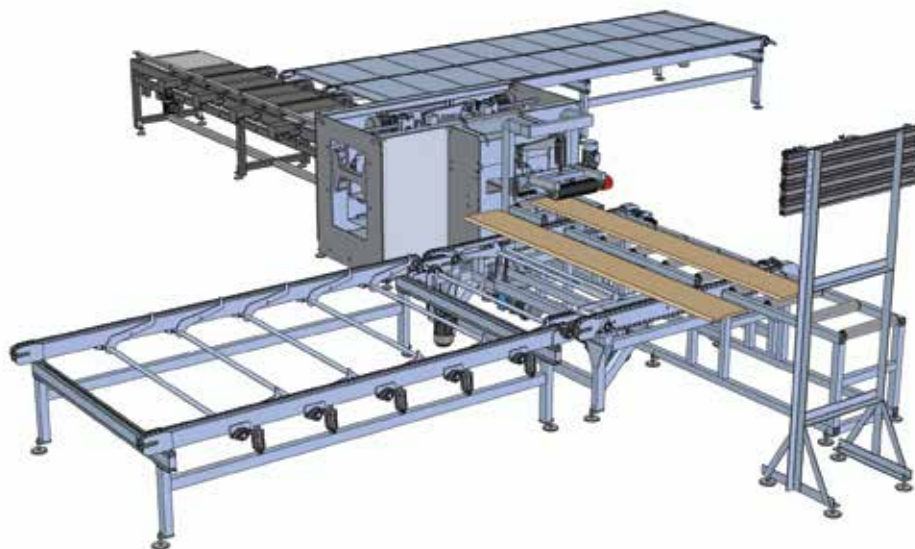
About the company

For more than 25 years FORMA is providing engineering and production services to woodworking and metalworking industries specializing in custom, tailored production lines, equipment and solutions.

Products

FORMA products include:

- Multisaws
- Cross cutting and length cutting machinery
- CNC processing centers
- Production lines
- Mechanization
- Automatization

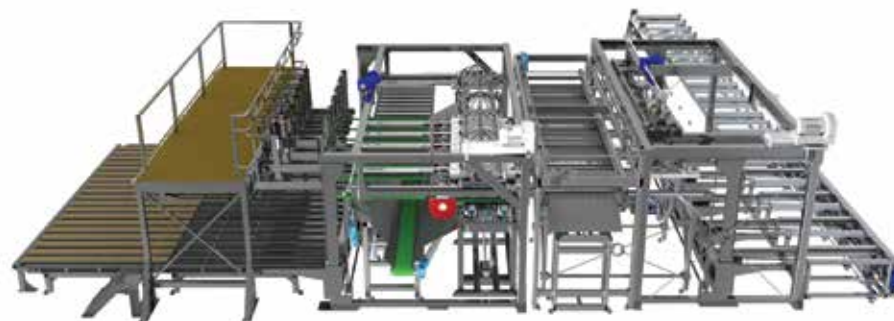
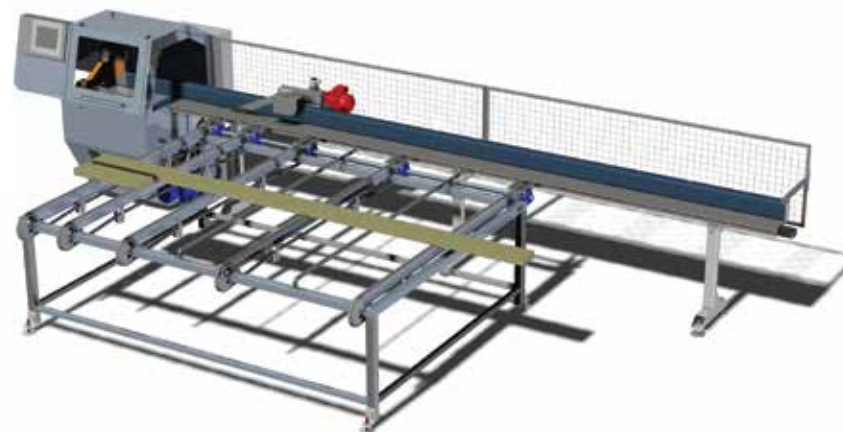


References

FORMA is leading customized production solution manufacturer in Baltics. We have helped our clients grow from small manufacturers to key players in industry.

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INOS

About the company

Established in 2001, company "Inos" is a Latvia-based company that provides its customers in Europe, Russia, Belarus and Ukraine with design, sales and installation services in relation to woodworking and power generation equipment.

Products

In exerting great care of the environment, we have created an efficient and innovative technology for utilization of wood shavings, ultimately producing unique briquette charcoal fuels (referred to as the SMARTCHARCOAL.EU) from the compressed chips



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LARMET WSM

About the company

The company was founded in 1995. The company's development went along the way of production of such equipment as scragg mills, machines for cutting edges and machines for wood crosscutting. In recent years, 16 sawmills have been supplied to Belarus.

In 2014 we started the production of scragg mills with an electronic device for changing the width of the saw. This allows within a few seconds to change cutting width, and this process can be fully automated.

In 2015, the production of sawmill lines was started, where the extraction of sawdust occurs with the use of a belt conveyor, not with the help of suction fans. In the process of manufacturing of LarMET equipment, all modern technologies of metal processing are used: laser cutting, plasma cutting, docking parts, etc.

Products

- Scragg mills
- Multi-blade saw machines
- Edge trimming machines
- Crosscut saw machines
- Slab processing machines
- Woodchippers
- Sawmill lines
- Log sorting lines
- Slab processing line
- Auxiliary equipment



Services

- Manufacturing
- Installation
- Commissioning works
- Warranty service
- Post-warranty service
- Delivery of spare parts and components

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LATVIJAS FINIERIS IEKĀRTU RŪPNĪCA

About the company

Latvijas Finieris AS is one of the leading developers and suppliers of birch plywood products with strong roots since 1873. During the last years beside plywood manufacturing a company has developed other activities which are related to mechanical engineering establishing production unit

named Iekārtu Rūpnīca – IR. Factory IR was founded in 2000, as a part of AS Latvijas Finieris. Factory started its operation combining already at that time existing machinery designers group with technically equipped maintenance and service department. In past years lot of efforts was done

to develop technology and skills of the staff as well as to certify the production accordingly. Certificates in use: ISO 9001; ISO 14001; OHSAS 18001; ISO 3834-2; EN1090-1.

Experienced and professional personnel will help you to create technical solutions for your ideas by using up-to-date software, to design customized machinery and components according to customer's needs and to create specific automation solutions.

Products

Since the very beginning the factory focused on customized solutions for different types of handling equipment for woodworking industry. Experienced personnel will help you to find the right solutions for specific requirements of Log handling equipment, especially for handling of birch logs.



- Log decks
- Chain conveyors (longitude and cross conveyors)
- Single log feeders
- Step feeders
- Log sorting conveyors
- One side and two side kickers
- Metal detectors including belt conveyors
- Log scanning solutions.

Byproducts handling is essential part of every woodworking production. Iekārtu rūpnīca designs and develops equipment according to the customer's special requirements. Equipment is reliable and of heavy duty construction. Iekārtu rūpnīca has experience with different types of machinery manufacturing and installation, as:

- Belt conveyors
- Scraper conveyors
- Chippers (in cooperation with partners)
- Chip screens
- Screw conveyors
- Fans
- Container loading systems
- Containers

References

Company has implemented and supplied log handling solutions as well as wooden side product handling machinery to the EU countries, Latvia, Estonia, Lithuania, Finland.

Contacts

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NOOK, LTD

About the company

Our company is in business since 1991 and currently we are specialized in production of circular saw blades with and without carbide tips. Since our establishment we have gained enormous experience in production of woodworking tools which is successfully used every day!

In our production we are using high quality materials acquired from German producers and distributors which help us to provide high quality products for our customers.

Products

Woodworking tools:

- Circular saw blades with carbide tips
- Circular saw blades without carbide tips
- Planer knives

Contacts

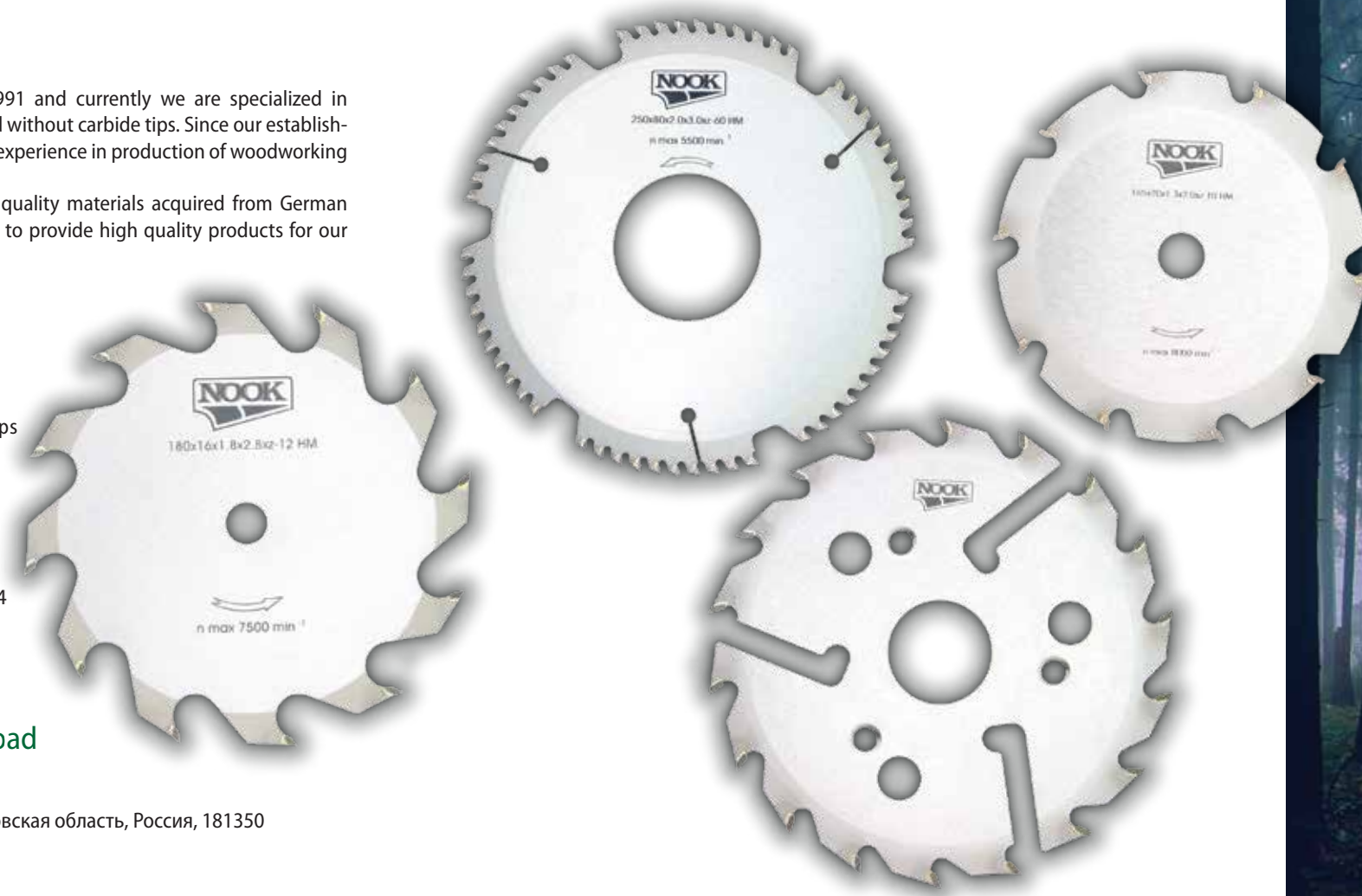
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Phone / Fax: +7 811 5236804
www.nookostrov.ru

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Phone / Fax: +375 17 2406396
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CERTIFICATION AND TESTING CENTRE

About the company

The company SIA "Sertifikācijas un testēšanas centrs" ("Certification and Testing Centre") is the accredited body in the field of evaluation of machinery, agricultural equipment, enterprises of organic agriculture and processing, as well as in the field of laboratory testing of machinery and measurement of parameters of working environments and inspection of agricultural sprayers and tractor machines.

Services

- Certification of machinery in accordance with the requirements of the Council Regulations (EC) 2006/42
- Certification of agricultural and forestry machinery and their trailers in accordance with the Regulation No. 167/2013
- Risk assessment of machinery in accordance with the standard EN ISO 12100:2011 with the goal to reduce potential damages based on risk analysis and assessment
- Conformity assessment of organic agriculture according to the Commission Regulation (EC) No. 834/2007, Commission Regulation (EC) 889/2008 and Commission Regulation (EC) No. 1235/2008
- Structural tests, brake tests and other tests on the safety of machinery and agricultural equipment



- Measurement of parameters of work environments
- Inspection of agricultural sprayers and tractor equipment/machinery

Our partners

Our customers are manufacturers and owners of equipment in Latvia, Lithuania, Belarus, Russia, Ukraine, other third countries, and countries of the European Union.

Contacts

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SMARTTEH

About the company

The company SIA "SmartTEH" is a mechanical engineering company specializing in the development and production of cargo handling solutions. The company has its own team of designers, which, if required, ensure the development of individual solutions and, in close cooperation with the manufacturing, monitor the realization of solutions from the idea all the way to the finished product. The company also ensures project implementation itself during the manufacturing stage, where metal processing, assembly, automation and hydraulics are the main aspects. In the manufacture of its equipment, the company uses the components only from suppliers which are well-known on the market.

Products

One of the most popular pieces of equipment manufactured by the company "SmartTEH" is the Container loading system which has become increasingly popular among woodworking companies and port operators. The principle of machine operation is based on loading the production onto the plate which the machine operates with, which is then pushed into the container after its loading, thus ensuring full loading of the container within 5 minutes (during this time-frame, the plate is also being pulled out of the container).

The company "SmartTEH" has supplied this piece of equipment to companies in Latvia, EU and the CIS commonwealth.

References

- SIA "Stora Enso Latvija" (international woodworking company)
- SIA "AKZ" (leading woodworking company)
- SIA "Jaunzeltini" (port operators)
- "ABB" (International company) and others.



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Talsu Tehnika

METALWORKING : WOODWORKING MACHINERY

TALSU TEHNIKA

About the company

The company was founded in 1993 with a purpose to manufacture woodwork- ing equipment. Since then the company has been manufacturing a wide range of woodworking equipment from simple joinery machines to fully assembled wood- working lines.

Products

We design and manufacture joinery machines – thickness and straightening planers, milling machines, bench grinders, as well as horizontal drilling equipment. We also offer machines and fully assembled woodworking lines for woodworking factories and workshops – horizontal and vertical bandsaws, multisaw machines, squared timber sawing equipment, multi-head bandsaws, conveyors of different logs, shavings and finished materials. We design machines and woodworking lines according to customers' individual wishes.

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TEHNIKA AUCE

About the company

TEHNIKA AUCE, LTD has been operating in production of equipment and metalworking since 1993. Since 2000 the company's main fields are manufacturing of band saw machines and other machinery for woodworking and forestry as well as metal processing. The basic objective of TEHNIKA AUCE, LTD is providing of manufacturing equipment and instruments for professional and long-term use according to customer needs.

Products

- **Rotators** are intended for use on hydraulic stackers, mini excavators or similar equipment in order to ensure the horizontal rotation of the operating element (freight grip).
- **Horizontal sawing machines - band saw machines for log lengthwise sawing** are intended for sawing logs and beams into edged and non-edged saw materials of the requisite thickness. TEHNIKA AUCE offers mobile and stationary equipment with executions and additional equipment possible in various combinations.
- **Vertical sawing machines – band saw machines for vertical sawing of timber materials** are intended for sawing beams and offcuts of various lengths into edged and non-edged saw materials of the requisite breadth and density.
- **Timber impregnation bathes** are intended for timber package impregnation process into concentrated solution which protects the timber from corruption and blueing. Additional options on order: additional external bath and electronic control (remote control console - impregnation time programming; automatic impregnation cycle performance: compression, dipping, impregnation time programming, lifting, timber package release)

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TTS (Transportation Technology Systems)

About the company

Latvian manufacturing company TTS offer full range of services: from design and production to installation and service support of different non-standard equipment used for the transport and processing of wood and its products.

Being in material handling business for 25 years, TTS developed and brought to life numerous wood handling projects in Latvia and abroad. Gained experience and knowledge allow us to offer our customers solutions, financially balanced and meeting tasked requirements for 100%.

Products

TTS offer turn-key solutions for log sorting lines, debarking and cross-cutting lines, lines for feeding of raw materials to the workshop, mobile and stationary conveyors.

References

- "Sveza", Russia – debarking and cross-cutting line
- "Murom plywood mill", Russia – feeding of raw materials to the workshop
- "VMG", Lithuania – debarking and cross-cutting line
- "Ibiza", Latvia – debarking and sorting line
- "Stiga", Latvia – debarking and cross-cutting line

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COMPLEX SOLUTIONS FOR WOODWORKING INDUSTRY

Each of the companies from MASOC network that are designing and producing equipment, tools and solutions for forestry and wood processing industries have gained experience and competence in their specific area. The products and technologies developed by the companies in most cases are complementing each other, forming synergies. This allows to offer the customer a complete solution covering the whole cycle of wood processing.

LOG HANDLING EQUIPMENT

Latvijas
Finieris



SAWING AND PROCESSING EQUIPMENT



FORMA



TOOLING



TIMBER DRYING /IMPREGNATION EQUIPMENT

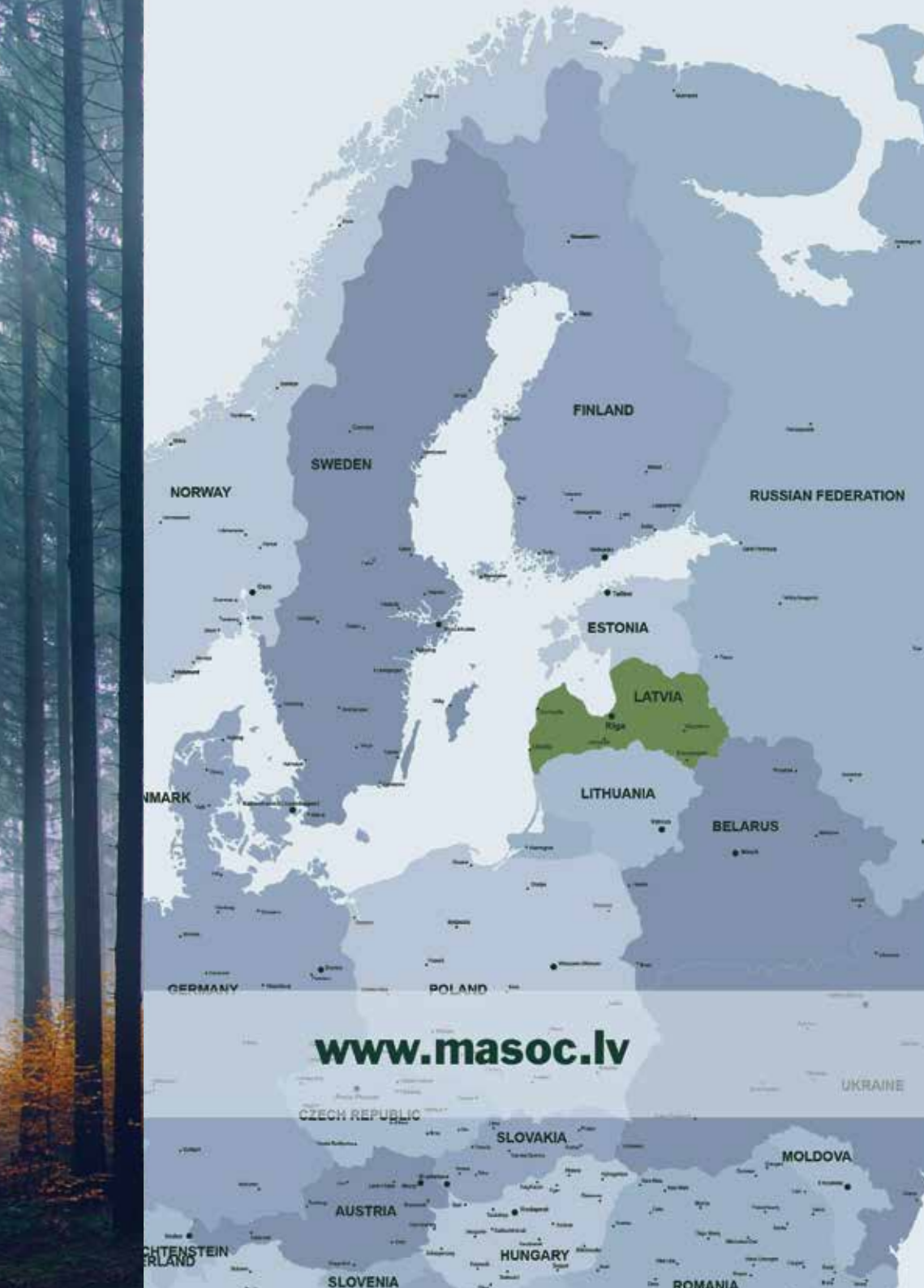


CERTIFICATION



CHARCOAL PRODUCTION EQUIPMENT





NORWAY
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BELARUS
POLAND
GERMANY
UKRAINE
CZECH REPUBLIC
SLOVAKIA
SLOVENIA
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