

HEINOLA

drying kilns



ENG

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ACTIVITY levels remain high, particularly in projects taking place in Russia. Manufacturing is currently underway for a record number of orders, with deliveries scheduled for this year and next. We are currently commissioned to deliver three different sawlines: a merry-go-round sawline with a two-axis circular saw and optimised sideboard profiling, as well as two direct sawlines with the same features. These sawlines will be delivered to Russia and Japan. In addition to these we are delivering several drying kilns in Northern Europe and Russia.

As regards drying systems, over the recent years we have received orders for over one hundred different drying kiln solutions throughout the Nordic and Baltic countries and Russia. In total, these drying kilns can dry over four million cubic metres of lumber a year. Our kilns have become well-known for their uncompromising drying quality and capacity.

SPECIAL FEATURES

of HEINOLA drying kilns

- Stainless Steel structure featuring wide self-supporting elements, reducing installation time and with 50% fewer potential leaks.
- The stainless steel is austenitic ferritic, grade EN1.4307, and can withstand highly aggressive drying conditions.
- The heat coils' plate thickness is 0.4 mm, and they can be cleaned with a high-pressure washer. The heat coils also come with threefold freezing protection.
- The fan wall is welded construction and has a robust, resistant structure, eliminating vibrations.
- The vertical kiln doors come with dual fall protection.
- Heat and electrical power and consumption measurements can be monitored online.
- The exhaust fan motor is located outside the exhaust duct.
- All servicing and maintenance measures can be carried out through the kiln's attic: pressure frame cylinders, wet sensor basins, motor greasing, spraying nozzles etc.
- The HEINOLA Drying Kiln Control System is easy to use and has various safety features. Approved for a Swedish furniture manufacturer's production plants.
- HEINOLA Control System includes also state of the art Timber Drying Simulation tools, for the Chamber Kilns and for the Progressive Kilns.
- In addition, the Control System has a Kiln Load Map-system, which shows details of the kiln loads and calculated readiness time out of the kiln.



SWEDISH FURNITURE MANUFACTURER'S PRODUCTION PLANT, 4 pcs HFB Progressive Kilns, Poland

IN FEBRUARY 2019, HEINOLA put two new, fully automated HFB Progressive Kilns into operation in Stalowa Wola, Poland. Two HFB Kilns had already been delivered to the plant in 2015, and the Swedish furniture manufacturer's production plant has been extremely satisfied with HEINOLA's capacity, drying quality and technical support. The special features and ease of use of HEINOLA's Drying Kiln Control System, were the deciding factors in choosing the supplier of the two new progressive kilns. The new control system includes advanced Kiln Load Map-system and an automatic timber dimension switch program. The Control System display shows the following information for each kiln load: package number, timber dimension, chosen drying scheme and exit time from the kiln. An in-built kiln load map software helps in production planning and inventory accounting. The new HFB Progressive Kilns increase the plant's annual drying capacity by approx. 60,000 m³, when drying of 50 mm pine to 9 % final moisture content.



KUHMO OY, HTC Progressive Kiln, Finland

HEINOLA has delivered a fully automatic high capacity 2-zone Progressive Kiln type HTC with an annual capacity of ca. 65 000 m³ to Kuhmo Oy. Kuhmo Oy ordered also previous drying kiln of same type in 2014 from HEINOLA. The drying kiln can be used for drying of pine and spruce timber with thicknesses of 16–50 mm from sawn green timber to the final moisture of 8–18 %. The turnkey delivery consists also energy measuring system, high capacity Heat Recovery unit, pressure frames and HEINOLA's advanced Dry Kiln Control System. This investment has eliminated the bottleneck in Kuhmo Oy's process and thereby enables increase in production. "We compared different suppliers, but ended up choosing HEINOLA as they provided the best technical and economical solution", explains Kuhmo Oy's MD Tommi Ruha. "HEINOLA offered the highest capacity connected to our load transfer tracks. HEINOLA's fully automatic kiln was also a major selection argument. Based on earlier drying kiln and other projects, we trust HEINOLA's project management, technical support and maintenance services!"



COMBIMILL REOPALU OÜ, HFB Progressive Kiln, Estonia

THE NEW 2-zone HFB Progressive Kiln is equipped with a Heat Recovery unit. The new kiln building was constructed so that it utilized the existing wall of the old progressive kiln. By building this way, it takes up less space, reduces energy consumption of the kilns and made the installation work faster. The sawmill's three existing two-zone progressive kilns were also connected to HEINOLA's new, advanced Drying Kiln Control System. The new HFB Progressive Kiln, which increases the plant's annual production capacity by roughly 35,000 m³, started up in the beginning of the year 2019.



ULK VELSK SAWMILL, 2 pcs HFB Progressive Kilns, Russia

ULK VELSK Sawmill in Archangel district has ordered two 2-zone Progressive Kilns type HFB from HEINOLA with annual capacity of ca. 130.000 m³, when drying 16–32 mm spruce and pine timber to 18 % final moisture content. Progressive kilns are equipped with pressure frames and HEINOLA new Drying Kiln Control System. Each pressure frame cylinder also has a position sensor, which ensures that the cylinder pole is raised before starting of kiln load charging. The lifting doors are also equipped with dual fall protection safety catches. If the supporting cables break the doors are doubly secured. The exhaust fan motors in HEINOLA progressive kilns are located outside the exhaust duct, which makes them easy to service and change. The new Progressive Kilns will be taken into production in the end of year 2019.

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technology

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