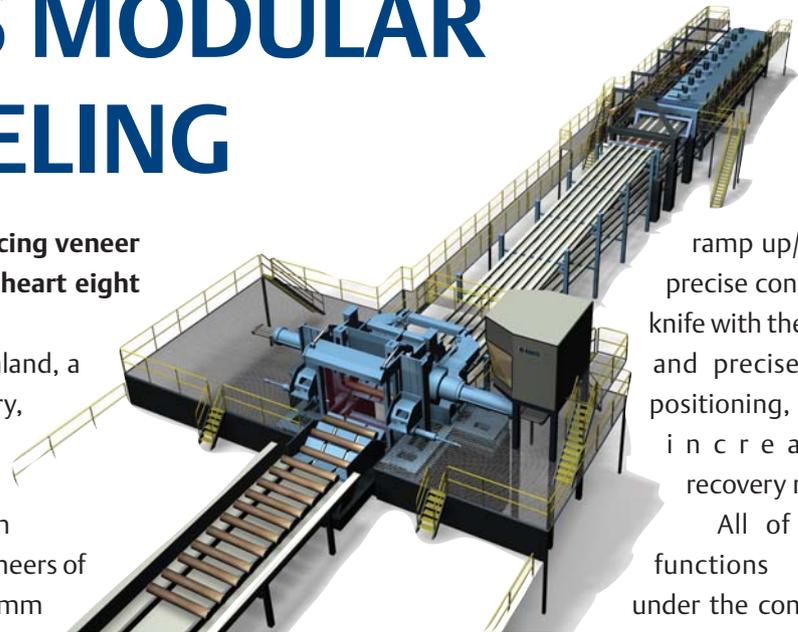


RAUTE FINDS MODULAR DRIVES A-PEELING

A massive Finnish log-peeling lathe for producing veneer used in the production of plywood has at its heart eight modular drives from Control Techniques.

Designed and built by Raute Oyj of Nastola, Finland, a major manufacturer of wood-working machinery, this peeling lathe is suitable for both hardwoods and softwoods and has a maximum throughput of 15 logs per minute, based on logs of 250-mm diameter. The lathes are capable of producing veneers of under 0.5-mm and can take logs up to 800-mm diameter.

This design of lathe, which has been supplied to the plywood industry throughout the world, uses 'Smart Peel' technology adapts to the specific needs of the plywood producer. The machine can be configured to suit specific production requirements in terms of species and productivity, with drive and positioning control giving improved spindle control, with independent Oemer HQLa motors on both spindles, precise



ramp up/down, precise contact of knife with the block and precise knife positioning, which increases recovery rates.

All of these functions are under the control of up to eight 185 kW

Control Techniques modular Unidrive SPMD AC drives, with two to four drives providing motive power and control and another two to four running in regenerative mode to provide braking and return power back to the supply network via the DC bus. The drive modules are mounted through the panel for easier cooling of the heatsinks and are all mounted on a common DC bus. Each is fitted with a programmable SM-application module to give additional, fast, localised functionality, including drive-to-drive synchronization using CT-Synch with virtual axes and communicates with the master controlling PLC via Profibus.

KEY BENEFITS

- IMPROVED SPINDLE CONTROL
- PRECISE RAMP UP/DOWN
- ACCURATE KNIFE POSITIONING
- REGEN MODE SAVES ENERGY
- ADDITIONAL FUNCTIONALITY, LOCAL & GLOBAL SUPPORT



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The digital carriage feed eliminates skew and knife position is maintained under positive control.

The machine operator interface is especially user friendly with all important peeling parameters – pitch angle curves, spindle pressures and peeling speeds – being menu driven. Those peeling functions most often utilized are conveniently available through the operator joystick. The operator may over-ride the fully automatic peeling operation at any time. The peeling operation is displayed in real time as are specific interruptions and their cause.

“We chose Unidrive SP modular drives primarily because of their dynamic performance, speed and synchronisation accuracy and because of the excellent support that we received from their distributor here in Finland, SKS Control Oy,” says Raute Automation Technology Manager Mika Hyysti. “Of course, it’s also important to have excellent global support and we have this with Control Techniques’ network of drive centres.”

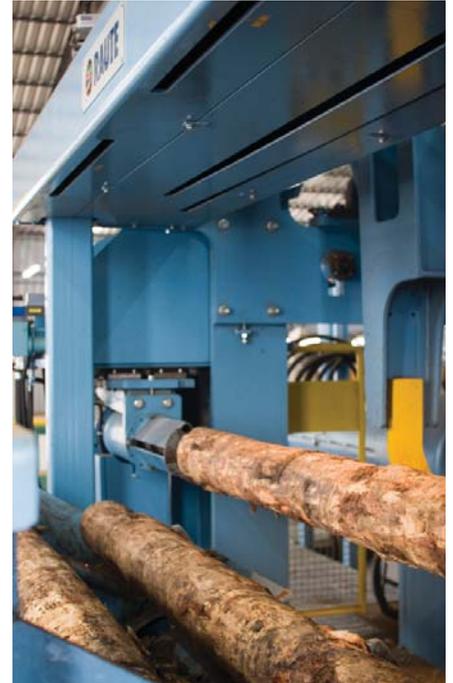
The Unidrive SPM - Solution Platform Modular - systems give integrators and OEMs added flexibility to design and build high power AC drives that meet their exact requirements. The Unidrive SPM platform offers all of the standard and optional features available on the panel mount SP drives and is integrated using the same software tools for commissioning and programming.

The modular nature of the power circuit allows drive systems to be constructed in non-standard enclosures.

Raute is a supplier of technology to the wood products industry worldwide. The company’s core expertise lies in manufacturing processes for selected wood products. As a supplier of mill-wide projects in these selected fields Raute is the world market leader.

Raute’s customer industries are the plywood and veneer industry, LVL (Laminated Veneer Lumber) industry, parquet industry and the decorative veneer industry

Raute’s head office and main production unit are in Nastola, Finland. It has other production units in Jyväskylä and Kajaani (Finland), in the Vancouver area of Canada, and in the Shanghai area of China. The company has a global sales network. In 2008, Raute had sales of around € 98.5million.



For further information please visit
www.controltechniques.com



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