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Read the Holz-Her Cover Story on p35 to learn more about the new-look TECTRA 6120 pressure beam saw and its variants.
**editorial comment**

**Going nuts**

My brief sojourn in the wood and forestry sector has opened my eyes to the realm of a living commodity – although I am loath to even address trees as a ‘commodity’.

I have come to love the subject matter and my fondness for our (often giant) forest friends has only grown during my tenure as editor of this publication. I look at eucalyptus plantations beyond the visible, imagining all that soaking up of water happening beneath the ground and ponder how, without them there would be vast tracts of sodden, non-arable land as a result.

That said however, SA forests are being cleared for what has been termed ‘The dark horse of SA agriculture’, namely, macadamia farming. Paul Makube, senior agricultural economist at FNB, stated in 2017 that the demand for appropriate land for macadamia nut farming has increased remarkably, with orders almost two years ahead at nurseries for plant supplies. He believes macadamia nuts are, without a doubt, the dark horse in South African agriculture.

Tree nut consumption has increased by 60% globally, as more and more people are consuming them to not only supplement nutrition, but also as a luxury item. As a result of its taste and health benefits, growing demand for macadamias has seen 112% exported across the world over the last ten years, according to Valley Macadamia chairman, Alan Sutton, mainly fuelled by China’s growing appetite for macadamia nuts, supplying 10 cracking factories.

"In terms of output, the industry has seen an exponential growth in the last 10 years, growing production from 4,600 tonnes in 2015 to 38,000 tonnes nut in shell (NIS) in 2016," says Makube.

CEO of GNFC, Jill Whyte, said that the global macadamia industry is worth $822-million (over R9-billion) and, since South Africa is the largest producer and exporter of the nut, the country is in a prime position to capitalise on the popularity of the crop, predominantly spread over three provinces, Mpumalanga, (49 percent), Limpopo (21 percent) and KZN (20 percent). Where this leaves our forestry sector, only time will tell.

And on that rather sombre note, I wish you all adieu. However, as I will remain in the trade and technical sector, I am sure our paths will cross. Thanks for the time together.

"The shear growth in this [macadamia] sector makes it a product worth watching, it is more than doubling in organic growth on a year-to-year basis and with that are new jobs and income streams finding their way into the sector."

Paul Makube, senior agricultural economist at FNB
Forestry

FP&MSeta supports forestry sector

Since Felleng Yende took over the leadership of the FP&MSeta in 2013, its performance has improved tremendously. Her re-appointment as CEO of the Seta until March 2020 is welcomed,“ – Forestry SA

Speaking at a recently held stakeholder meeting, Felleng Yende reiterated the Fibre Processing and Manufacturing Sector Education and Training Authority (FP&MSeta) support for training and education initiatives in the forestry sector. There is approximately R29-million available with an additional R3.3-million accessible for mandatory grant applications for the current fiscal year.

The FP&MSeta focuses on facilitating development projects that contribute to the skill levels of the forestry sector’s employers and employees. At the same time, it strives to make a difference in reducing the gender gap in the workplace, uplift women in society and create a capable workforce that is a fair representation of the country’s demographics.

“Since my appointment as CEO the organisation has achieved a number of consecutive unqualified audit opinions from the Auditor-General of South Africa,” she explains.

“I introduced a highly strategic business model that paved the way for a complete turnaround and streamlining of the Seta’s operations & processes. This includes strict financial controls. The overall performance of the organisation has increased to nearly 90% and it has become a best practice organisation that has met and exceeded government objectives and performance standards.”

Funds for virtual reality initiatives

Felleng says the FP&MSeta supports the use of innovative technologies that enhance the way in which skills development takes place. By way of example, she cites the Seta’s partnership with Forestry SA (FSA) members and industry service providers to develop and launch the virtual reality (VR) chainsaw training app.

FSA’s partners in the project are the FP&MSeta, ICFR, Husqvarna in Pietermaritzburg, Husqvarna-Sweden, IPA Fraunhofer-Germany, United Nations Industrial Development Organization (Unido), Stihl, and FSA members.

The Seta provided R3-million grant funding for the project. Husqvarna provided access to the 3D models of a chainsaw used in the application, and also donated a brand new 572XP chainsaw. The training app is being developed by a South African-based company, Speak Geek?.

The project steering committee members are Norman Dlamini (FSA), Andie Immelman (Sappi), John Eggers (Mondi), Lynne Miller (BizVantage Advisory Services), Roger Jackson (Husqvarna), Shamim Bodhanya (Leadership Dialogue) and Simon Ackerman (Stellenbosch University).

“This project uses 4th industrial revolution technology to improve the quality of training in our country. We immediately supported the FSA’s proposal for us to fund this initiative because VR is the future of training and skills development,” Felleng says.

The app is not designed to replace the practical component of chainsaw operator training. It is a cost-effective tool to bridge the gap between the classroom and the plantation by creating a virtual forest within which the learner can learn and practice the correct chainsaw operating techniques and procedures in a safe environment.

All that is required to run the app is a dedicated computer, VR headset, a specially adapted chainsaw with sensors and a customised, mobile gazebo.

The FP&MSeta consists of 13 sub-sectors: clothing, footwear, forestry, furniture, general goods, leather, packaging, printing, print media, publishing, pulp and paper, textiles and wood products.

Trade unions and industry organisations are against the latest proposals by the government to amalgamate this Seta with the Manufacturing, Engineering and Related Industries Seta (MERSeta).

“We immediately supported the FSA’s proposal for us to fund this initiative because Virtual Reality is the future of training and skills development.”
Bush-clearing made easy

Willem van Der Merwe, MD of WP Chipper Hire & Sales t/a Africa Biomass Company (ABC) specialises in the recycling of waste wood and has a fleet of forestry-specific vehicles to assist with operations

An avid fan of South African manufacturer, Dezzi Equipment, Willem has a number of these robust and hardy machines in his mixed fleet. Among which is an easily recognised Dezzi tri-wheeler for forestry application, four H80TF forestry-specced haulage tractors, an H120T and an H80T haulage tractor. Complementing the half-dozen Dezzi machines is a 2500 Front-end Loader.

The company was selected as the Western Cape Dealer for the home-grown OEM and as Willem points out, “We have been a Dezzi Dealer for a short time, six months in fact, but my experience with the OEM has been over five years.”

He explains that ABC has three points of focus, contracting, clearing and chipping. “Contracting mainly takes place in the Western and Eastern Cape provinces, where we remove old fruit orchards that have reached the end of their lifespan and need to be recycled into mulch or woodchips, for compost or energy purposes.”

For clearing the orchards, the Dezzi Front-end Loader is deployed, with the bucket replaced by the recently launched “high-volume bush grab”. He adds, “It’s not a normal Front-end Loader with a solid bucket used to move earth, but a grabber built by Dezzi.”

In traditional mechanised land clearing, trees are uprooted by either an excavator or a back-hoe on a TLB. The trees are then stacked in piles to be collected later. The bucket of the TLB however can only load a small quantity of brush into the transport trucks at a time, with much of it falling out of the load, resulting in the necessity for manual labour.

This is where Dezzi’s Eco-Grab makes its mark. The grab can be fitted to a TLB or a Front-end Loader, in Willem’s case. Attached to the front of the loader, the hydraulic system that operates the grab gives it greater strength and increased flexibly. Fully extended, the grab opens to just over a metre with a jaw width of more than two metres, allowing it to pick up large amounts of brush to load into the truck.

“Where Dezzi makes a significant difference in our business is supplying us with very reliable, durable haulage tractors to short-haul the chips to either final destination or to roadside for long-distance transport.”

He believes that it’s the simplicity of design that sets Dezzi machines apart from other OEMs. “They use high quality components and over-specify the machines to ensure that they never under produce. For example, if I need a tractor that can haul 20-tonne loads, Dezzi will supply a machine that can cope with a greater load, always staying within the design parameters of the machine.”

In addition to the robustness of the machines, Willem says that in general, the Dezzi tractors offer “exceptional

The Dezzi Front-End Loader with the bespoke Eco-Grab attachment in place, deployed to clear land.
The distinctive Dezzi tri-wheeler for forestry application, hard at work.

lifetime on the frame and the drivetrain, with very little or no maintenance and repairs necessary before they have reached up to 10 000 hours of operation.” He continues, “There are some machines that we bought two or three years ago that haven’t had any mechanical repairs whatsoever.”

In addition, while he stresses that he cannot cite exact figures, on the H80TF tractors fuel savings are noticeable, and “are on the lower side of consumption.” He adds, “I have run haulage tractors of various makes and Dezzi’s tractors’ fuel consumption is of the lowest I have ever encountered, for the size of the tractor.” He also says that this observation is based on comparing the Dezzi tractors with three other OEMs’ machines, two of which were agricultural tractors and the other, a haulage tractor. While Willem maintains that there have been “very few” issues with the Dezzi...
ABC of Woodchip Mulch & Biofuel

Recycling is a growing trend as wood shavings, wood chips and general timber waste is recycled into woodchip mulch and biofuel.

Africa Biomass Company (ABC) specialises in the recycling of waste wood. Since 2004, Africa Biomass Company has been in the forefront of the development of biomass processing such as wood chips, biofuels and more in Southern Africa.

Previously waste wood would have been discarded by burning it or unknowingly throwing away a natural gem. ABC offers a viable cost-effective solution for its customers to recycle this unwanted woody biomass into usable forms. Says Willem van Der Merwe, MD: “We have three points of focus, contracting, clearing and chipping. Contracting mainly takes place in the WC and EC, where we remove old fruit orchards and windbreaks that have reached the end of their lifespan and need to be recycled into woodchip mulch, for mulching, compost or energy purposes.”

To enable this facility, the trees have to be cleared and stockpiled, then processed through a woodchipper after which they are transported short-haul, to either the end-user or the roadside for long-haul for use as woodchip mulch or fuel at a factory or other such operation.

Willem explains that the loader is used to transport biomass in-field to the chipper. “This is a new concept, never been done before, but the initial trials look very promising,” he assures.

“For chipping we use the Bandit range of equipment as we are the agents for Bandit industries in Southern Africa.”

Towards the end of 2008, the need and demand for the chipping of orchards increased to such an extent that the strategy of hand-fed chippers was switched to that of horizontal grinders, fed by a mechanical loader.
In collaboration with Môreson Grondverskuiwers, Africa Biomass Company now offers a full range of services.

**Massive water savings**

In 2017, Africa Biomass Company was involved in many projects including removing the invasive eucalyptus trees in the Breede River & Berg River systems. The company harvested alien trees, old or unwanted orchards, vineyards and windbreaks and recycled them into wood chips. The chips were spread as mulch in new and old orchards and vineyards, which led to a massive water saving that is equal to the amount of water usage of 50 000 households for one year.

Since 2008, Môreson Grondverskuiwers, in association with Africa Biomass Company, ventured into the very important new territory of “green” agricultural practices and has since acquired a fleet of the world’s best recycling equipment for the processing of various kinds of green waste that were previously burnt. Fruit trees, vineyards, unwanted windbreaks, municipal green waste and sawmill waste are now converted into mulch for ground cover, compost or useful boiler fuel.

The company recently started harvesting and processing alien trees from the water catchment areas of the Western Cape.

The fleet of recycling equipment has been increased to 8 x Beast Recyclers, 20 x Loggers, 1 x Boiler Fuel Chipper, 1 x Whole Tree Chipper, various tractors, trailers, chip spreaders, forestry mowers, and other logging equipment.

Current monthly material produced for composting, biofuel and mulch exceeds 50 000m³ in the Western Cape, and the Eastern Cape, with 100% local consumption of the product. The company is fully equipped to convert wood chips to mulch and biofuel, supplying it as required by the client, anywhere in Southern Africa.

**Processes that can utilise biomass waste**

- Direct combustion replacing coal and oil fuels – to generate heat, steam and electricity
- Lower quality industrial wood pellets
- Manufacturing of charcoal
- Biochar that can be used as fertiliser additive
- Briquetting of wood waste or charcoal
- Livestock bedding and for use in stables and poultry sheds
- Packaging and filling material
- Biogas production as a by-product of biochar manufacture

A Bell tri-wheeler loads a Bandit chipper.
Updated Bell stump grinder hits the mark

Since the founding of Bell Equipment, the company has listened to customers' needs and developed appropriate solutions.

When an independent contractor turned to Bell to develop a machine to enable him to de-stump for a major forestry company, the OEM delivered a product that met the needs of both the customer and his client.

Bell Equipment’s, Dawid Ras, takes up the story: "Various imported machines have been trialled in recent years but it was found that they were not designed for South African conditions and after-sales support was also an issue. We’ve previously had success with a Stump Grinder so we updated our machine to meet the requirements of today’s forestry operations."

“We worked together with foresters and engineers from Mondi to achieve the key objectives of improving operator comfort and ergonomics, visibility, stability and serviceability,” adds Bell Equipment Product Designer, Sphamandla Ndwandwe.

Bell retained the standard E-series Tri-Wheeler driveline, which was found to be the most feasible in order to accommodate the larger, air-conditioned cab, which was a prerequisite for operator comfort. “In terms of ergonomics we changed the driver position and seat to improve comfort, stability and serviceability of the machine. The new driver position ensures the operator’s hands and feet are correctly positioned for the controls and pedals while providing great visibility to the front of the machine,” explains Dawid.

“Inside the cab the standard control levers have been updated to an electronically operated joystick for ease of operation of the grinding head. We’ve piggy-backed on the Bell basket of approved parts and used our Bell CCU2 control system, which has been used extensively on our Articulated Dump Trucks.”

Bell chose the Bellaco head with its narrow blade disc with teeth to pulverise the stump, unlike the alternatives on the market that have a rotating drum. This gives the Stump Grinder the advantage of being able to de-stump even if the stump is recessed. “The operator is able to swivel the head to direct the disc at the stump for direct application while the rotation of the disc directs debris away from the operation to promote safety,” says Sphamandla. Another plus is that the narrow blade disc is fitted with replaceable tungsten tips.

According to Sphamandla the fuel tank has been positioned at the front of the Bell Stump Grinder for optimal weight distribution. “We’ve also fitted an extra hydraulic tank so that the head has its own, dedicated tank and wider wheels on the rear have improved ground pressure.”

Ground level maintenance has been achieved to improve safety while hydraulic coolers have been positioned upright for easier maintenance and unhindered access to the engine.

Currently the Stump Grinder works three shifts for the independent contractor and has therefore been fitted with four forward lights and two rear lights with a total of 3 500 lumens. Lights have also been installed in the engine and pump bays should access be required during night shifts.

The upgraded Bell Stump Grinder is capable of handling more than 100 stumps per hour depending on the type of trees.

“We’ve also fitted an extra hydraulic tank so that the head has its own, dedicated tank and wider wheels on the rear have improved ground pressure.”
ANOTHER WORLD FIRST WITH THE STIHL MS 500i

STIHL has unveiled its latest chainsaw, the MS 500i, and it’s a game-changer! STIHL’s ongoing R&D ensures that its products lead the field, and the MS 500i is the world’s first ever chainsaw with STIHL Injection Technology. In a nutshell, the carburettor has been replaced with fuel injection, which dramatically improves the startup (there’s no choke), and has made the acceleration breathtakingly fast. This new STIHL beast is designed for the harvesting and processing of large timber, and has been tested on everything from light felling to heavy logging.

Yet despite its show-stopping power, it still handles like any other STIHL chainsaw. It has the best power-to-weight ratio on the market, is lightweight despite its performance at 6.2kg, and is very simple to operate. Its features include new bumper spikes, an HD2 filter for extended service life, a captive nut on the sprocket for easy chain change, controlled delivery oil pump, and a tool-free fuel cap for convenient filling. Trust STIHL to change forestry forever.

Like any premium item, STIHL products are only available at specialized dealers nationwide, for expert advice and superior after-sales service.
Road Transport Costs: What does 2019 hold? By James van Zyl, NCT’s Commercial Manager

This article endeavours to update NCT’s growers and transport service providers of the latest developments on important aspects within the road transport industry, which will have an impact on the ultimate cost of delivery of timber to the mill in 2019.

**Fuel price**

Diesel fuel costs can make up to 40% of the total cost of road transportation. Currently, the diesel fuel price is around R17/litre with economists predicting R20/litre by mid-2019. Key drivers of this anticipated fuel price increase is an expected rise in the Crude Brent Oil price to US$80/barrel due to instability in the Middle East.

Furthermore, it is expected that the South African rand will weaken steadily against the US dollar because of increases in the SA budget deficit and negligible GDP growth.

This could lead to a further downgrade by credit rating agencies. A high US$ oil price, coupled with a weakening ZAR vs US$ currency, translates to an increasing diesel fuel price in South Africa.

**Carbon tax**

It is common knowledge that almost 35% of the current fuel price consists of taxes and levies. The then finance minister delayed the introduction of the carbon tax in the March 2018 budget speech to March 2019. Speculation is rife: this tax will add an additional 20c/litre to 45c/litre to the fuel price.

Unfortunately, this ‘tax’ will not be spent on mitigating carbon emissions or to incentivise operators to reduce emissions, but will be added to the general fiscus in an effort to reduce debt.

**AARTO (Administrative Adjudication of Road Traffic Offences)**

AARTO, also known in layman terms as the ‘points-demerit-system’ endeavours to settle general traffic offences via an
‘administrative’ process rather than through the criminal justice system currently in place.

An additional benefit will be the un-clogging of SA’s criminal courts by removing most traffic offence matters. AARTO ran as a pilot project for the past 18 months in Gauteng province, and in particular the metro cities of Tshwane and Ekurhuleni.

The reality is that, none of the metros could administer the system and its regulations properly and will probably not be in a position to do so for some years to come. The likelihood of a nationwide rollout of AARTO, in its present form, is unlikely to happen in the near future.

**Driver wages**

The remuneration of drivers and support staff of most medium and large transport operations in South Africa, is governed by agreements reached by the National Bargaining Council for the Freight and Logistics industry.

At the bargaining council, the transport industry is represented by elected transport operators to negotiate on behalf of the industry with representatives of various unions on a wide range of matters, from remuneration to conditions of service.

Unions, such as the SA Transport & Allied Workers Union and the Motor Transportation Workers Union are represented at the council. During September 2018, the national bargaining council settled on a multi-year wage settlement for the next three years with the following increases: 2019-8%; 2020-7.5%, 2021-7.5%.

Many other aspects, such as overtime, subsistence allowances, night shift allowance, dual driver allowance, etc., are also covered by this agreement. (Please contact the writer for more detail on this topic).

**PBS trucks and other**

The future of the PBS truck project is uncertain as the pilot project period has now lapsed and the National Department of Transport has not renewed or extended the project at the time of writing.

Also awaiting completion is the moratorium on the prosecution of high cube containers and e-tolls in Gauteng province. An important matter which directly affects utilisation of heavy vehicles, which awaits resolving, is the limiting of operations of heavy vehicles during peak hours in the morning and the evening in all built-up areas.

**Conclusion**

Considering the aspects touched upon above, it is expected that transportation inflation will be higher than the average consumer and producer inflation figures for 2019.

It is worthwhile that timber growers and transporters make sure that they employ the correct type of vehicle with the best possible payload vs expense ratios and newer fuel-efficient technology where possible.

NCT continues to offer a road brokerage service to its members in various areas and will ensure that the most cost-effective vehicles will be deployed in the execution of this service.

Furthermore, NCT continues to engage with Transnet Freight Rail to find rail-friendly timber origin-destination routes from its timber growing areas to bring more volumes back to rail, since rail transport does have a slower long-term tempo of inflationary increase when compared to road transportation.

The future of the PBS truck project is uncertain as the pilot project period has now lapsed and the National Department of Transport has not renewed or extended the project at the time of writing.
Balancing the load

The timber transport sector requires equipment and machines, trucks and mindsets to adapt to both off-road and on-highway environments, ensuring that safety is top-of-mind.

One such company that is on the move is T3 Timber and Transport, owned by Morne Els. The company operates within long-haul and within the timber sector, operating in Mpumalanga, Gauteng and KwaZulu-Natal.

The main focus of the company’s timber business is trading, where they procure timber from farmers and resell it to customers such as Sappi and Mondi.

With a fleet of seven trucks, another side of the business is timber transport, moving the product for large companies and private partners.

While running a successful timber transport company has many aspects to it, Els believes that safety comes first, with timely maintenance and he emphasises that to achieve maximum return, the company needs to be run as economically as possible, achieving maximum payload per trip with the cost per kilometre (CPK) as low as possible.

This entails investing in the right equipment, among which is the Loadtech Onboard Weighing system, which is fitted to the vehicle.

The system allows the driver to control the weight being added during the loading process.

Neels Botes, VIGIA and Onboard Weighing brand executive at Loadtech explains, “Once the truck has moved off the loading zone, it is unlikely to return for load adjustment, meaning that there is a small window of opportunity while the truck is being loaded to ensure that the load is correct.”

With the system, the suppliers are assured that the truck is not overloaded, and that the mill receives the correct load. He adds, “At T3 this is exactly the case; the Loadtech systems are fitted to the flat-deck trailers, and they help in numerous way.”

Els points out that this includes deriving maximum payload from the rig. So, if the customer is under loading, the full price can be demanded because he doesn’t have enough timber on site. “The scales also help us stay within specifications of the National Road Traffic Act. We can ensure that each axle is loaded correctly and that the rig is not overloaded,” he adds.

Being an onboard scale, via a monitor, the driver can oversee the loading from inside the cab and then produce a printout. “He can see exactly what is loaded on each axle and the total weight of the truck,” Els says.

Using the system has save money for T3. Els notes that weighing trucks on weighbridges each time to check they are within specification can amount to significant cost.

With the system onboard, these costs have been avoided.

- This article first appeared on pg 14 of issue 4 (2018) of Focus on Transport and Logistics.
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Lonza celebrates a proud 24-year journey with Sabie Poles

This year commemorates the 24th anniversary for Sabie Poles and concurrently celebrates a long-standing 24-year relationship with Lonza Wood Protection

Sabie Poles has a strong heritage as a Tanalith® C treated pole supplier and by understanding the dynamic nature of their business and wide product range over the years, Lonza has been able to support them in achieving their desired goals and dreams for their business.

“We have proudly watched them grow from humble beginnings to where they are today as a leading supplier of Tanalised® wood preservative products,” says Senior Business Manager of Lonza South Africa, JJ du Plessis.

Owner, Marina Daniel, established Sabie Poles in 1995 and poured her energy into the development of a company that has grown from a small operation of five staff members to a nationally recognised and respected player in the pole treatment industry. Reflecting on the journey, Daniel, says that she wouldn't have been able to do it without the support of Lonza who was by her side in getting the business started with the commissioning of the first Tanalised® wood preservative treatment plant.

She adds that she also counts her blessings to have had her father, her husband Peter (then boyfriend) and a team of loyal hardworking employees with her every step of the way, some of whom have been with her for 22 years.

“I strongly believe Lonza got to see my impeccable work ethic while working at another treatment plant and when the plant owner sold the business, I felt it was the right time to start my own business. I approached Lonza for their help and was overwhelmed by the tremendous support they were willing to give me - something I will always be grateful for and never forget,” says Daniel.

Du Plessis recalls how Lonza’s then business manager, Doug Sayce with the assistance of sales manager Dave Mullin responded to Marina’s short deadline to get her business up and running by working through the Christmas holidays to get the first Tanalith® C treatment plant commissioned.

“It was this ‘Christmas installation’ and Lonza’s commitment to doing whatever it takes to provide customer service excellence that planted the seed of a flourishing relationship that has spanned over two decades,” said du Plessis.

“Lonza has always been there to answer difficult questions from customers and to provide expert technical and marketing support. The highlight for both of us was probably when we approached them to install a second Tanalith® C treatment plant to specifically treat H2 and H3 timber. This felt like we were growing and meaning business,” elaborates Daniel.
Suppliers of (SABS & NRCS approved):

* CCA Treated Poles, Lathes, Droppers, Slabbed bearers & Squarecut-poles
* CCA Timber
* Structured Timber/Planks
* Mouldings
* Plywood

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Since then acquiring their own timber farm in 2005 was another major stepping stone in the growth of Sabie Poles. “This was a huge blessing to us, because we could ensure timber security as well as timber quality in order to provide the service needed for our customers. There have also been and still are many other huge projects that our faithful customers have been involved in over the years. We also have a very good working relationship with BUCO Hardware Buildware, whom we refer a lot of our customers to, so literally we are paying it forward – a concept which we strongly believe in,” she said.

In 1997 Sabie Poles received the SABS mark of approval on their product and in 2017 they were granted the NRCS approval as a reputable treated pole manufacturer. Sabie Poles was also the very first treatment plant to receive the SA Wood Preservers Associations environmental competence certificate in August 1997, which certifies that they are voluntarily fulfilling the SABS code practice 0255 - Reduction of Environmental and Human Health Hazards of Wood Preservation.

While celebrating their long history, Sabie Poles are also focused on the future. The installation of a new moulding plant means that customers can now enjoy a full one-stop service.

Daniel explains, “Because our customers have come to rely on our service and quality, they started requesting timber alternatives using Lonza’s wood preservative, Tanalith® C - such as construction timber, decking, cladding, ceiling and flooring, etc. After reaching an agreement with York Timbers that we could be their ‘out sales’ in the Sabie area for the smaller customers who didn’t want to buy huge wholesale, the installation of the moulding plant went ahead”.

“With 24 years’ experience under the belt, Sabie Poles has been a leader in opening markets for Tanalised® treated timber, especially with the introduction of other competitive products to the market over the past two decades. Through their standing as a preferred treated pole supplier in the traditional market, they have further positioned Tanalith® C wood preservative as the preferred choice for structural and agricultural treated timber,” concludes du Plessis.

About Lonza

Lonza is one of the world’s leading and most-trusted suppliers to the pharmaceutical, biotech and specialty ingredients markets. We harness science and technology to create products that support safer and healthier living and that enhance the overall quality of life.

Not only are we a custom manufacturer and developer, Lonza also offers services and products ranging from active pharmaceutical ingredients and stem-cell therapies to drinking water sanitizers, from the vitamin B compounds and organic personal care ingredients to agricultural products, and from industrial preservatives to microbial control solutions that combat dangerous viruses, bacteria and other pathogens.

Founded in 1897 in the Swiss Alps, Lonza today is a well-respected global company with more than 40 major manufacturing and R&D facilities and approximately 9,800 full-time employees worldwide. The company generated sales of about CHF 3.64 billion in 2014 and is organized into two market-focused segments: Pharma & Biotech and Specialty Ingredients. Further information can be found at www.lonza.com.
PROMOTING TREATED TIMBER AND THE USE OF TREATED TIMBER PRODUCTS PRODUCED BY SAWPA MEMBERS

CHOOS THE CORRECT HAZARD (H) CLASS:

H2 – Low Hazard: Inside above ground
H3 – Moderate Hazard: Outside above ground
H4 – High Hazard: Outside in ground
H5 – High Hazard: Outside in contact with heavy wet soil or in fresh water
H6 – High Hazard: Prolonged immersion in sea water

FOR MORE INFORMATION ON ANY ASPECT RELATED TO TREATED TIMBER PRODUCTS AND THE CORRECT USE OF TREATED TIMBER, OR WHERE TO CONTACT SAWPA MEMBERS, PLEASE CONTACT:

Tel: 011 974 1061
admin@sawpa.co.za
www.sawpa.co.za
Conclusions on waste disposal

By Bertus Coetzee

Dolphin Bay has been investigating the best methods of processing and disposing of our clients’ CCA waste in instances when the concentrations of contaminants in the leachate surpass the limits accepted by licenced landfill sites.

With the help of two engineering students and waste expert Dr Dave Baldwin, we have reached the conclusion that cementation is the best way forward. Properly formulated combinations of cement and additives such as coal ash will stabilise any contaminants and solidify the waste, making the material acceptable for disposal.

This is an internationally recognised means of hazardous waste treatment, although Dolphin Bay will be the first company to introduce it to the South African timber treatment industry.

Our research follows the introduction of stricter regulations governing waste treatment and disposal, as the authorities increasingly enforce the principles of “reduce, re-use and recycle” and implement stricter controls over the level of contaminants that can be disposed to landfill. These days, only CCA waste with marginal levels of leachate passes the tests at hazardous waste landfill sites.

Properly formulated combinations of cement and additives will stabilise any contaminants and solidify the waste.

Students Marli de Lange and Christiaan Rabie investigated the issue during their practical work at Dolphin Bay over the December-January period. They visited a client’s plant to assess the nature and concentrations of typical batches of waste, researched the best methods available and, finally, discussed their conclusions with Dave and the Dolphin Bay team.

Dave’s many roles include having been the lead hazardous waste consultant in the drafting of the latest regulations for waste classification and disposal at landfill sites in South Africa. “Our regulations are largely based on the Australian approach, as their industries are similar to ours,” he told the Dolphin Bay Brief. “Cementation is used all over the world and, for a chemical like CCA, is the best way to go, both to protect the environment and for reasons of cost.”

Christiaan is in his third year of Mechanical Engineering, and Marli in her third year of chemical engineering, both at Stellenbosch University. With Dolphin Bay’s help, they completed a trial project, stabilising a sample of the waste and letting it cure for about a week. Dave then helped inspect it and prepare it for analysis.

“If our clients are satisfied with our procedure of cementation, this will definitely be a viable solution for hard-to-dispose-of waste,” said Bertus.

“Cementation is the best way to go, both to protect the environment and for reasons of cost.”

Waste needs to undergo preparation before the cementation that stabilises it. A sample of the cemented waste product is always analysed to confirm that the product is stable and meets the required standards, before it is disposed of.

Once the correct formulation is found for a particular waste stream, it will be mixed with the cement in a drum and allowed to solidify. A small sample will be taken and, provided it passes the leaching test, the drum will be closed and taken to the landfill.

“We knew we simply had to find a solution, and if cementation hadn’t worked, we would have persevered until we had found something else,” said Christiaan.

“It was a great project to be involved in, an engaging and satisfying one,” said Marli. “We had to apply our minds and the knowledge we have built up over two years of engineering studies.”

Both Marli and Christiaan intend to work as engineers for a few years, then study and move into business management, to "combine the engineering way of thinking with business”.

Properly formulated combinations of cement and additives will stabilise any contaminants and solidify the waste.
Little time left to prepare for LIGNA!

This May, over 1500 companies will be gathering in Hannover, Germany, to demonstrate the future of the woodworking and timber processing industries.

Whether it’s about digitisation, automation, IoT platforms or collaborative systems, the biennial LIGNA show is where innovations and digitally integrated processes and systems built around machines are revealed for the first time, on an unrivalled scale.

"From 27 to 31 May 2019, exhibitors from over 50 countries will gather at the Hannover Exhibition Centre to showcase state-of-the-art processing solutions, applications and concepts for the entire forestry and wood products sector. No other fair compares in terms of international appeal," explains Dr Andreas Gruchow, managing board member at Deutsche Messe.

Visitors can expect to see innovations across all display categories, from forestry technology, furniture, and window manufacturing, through to tooling systems and surface technology. There will be live demonstrations of fully functional furniture production plants, the opportunity to learn about the internet of things (IoT) platforms for Industry 4.0 plants and the latest research and development projects.

LIGNA 2019 has three focus themes:

1. Integrated woodworking technologies – tailored solutions
   The focus will be on the IoT applications, like machine condition monitoring and predictive maintenance, that can boost the efficiencies of all sizes of production plants. Humans remain an integral part of the production process and are supported by cyber-physical assistance systems, such as: robots, automated guided vehicles and smart worker support technologies.

2. Smart surface technology
   The surface finishing exhibits at LIGNA 2019 will span all the intelligent processing solutions needed to cater for today’s surging demand for haptic, matt and reflective surfaces. That’s digital printing and decorative gravure printing systems, inspection systems, the latest generation of spray coating machines, robotics systems, and much more.

3. Sawmill technology – innovations and trends
   A fully automated film wrapper for timber packs, software solutions for optimising the spinning of logs, and analysis of bottlenecks and breakdowns in the handling and conveying of lumber – these are just some examples of the full range of sawmill technology that will be on display.
NUKOR’s LIGNA legacy

Nukor first attended LIGNA around 1970 and have been attending ever since. It is a way for us to spend extended time with our supplying partners as well as possible new ones. LIGNA helps us discover developing ideas and technologies in the woodworking and timber processing industries.

The Nukor Post LIGNA tour allows our customers to experience first-hand the magnitude of the timber industry in Western Europe. Our visits to timber processing facilities introduces the latest technology to our customers where they can observe and discuss with factory owners and production staff independently from the equipment suppliers all factors related to processing.

To emphasise equipment reliability, we also visit installations where lines have been running for more than 30 years.

From family-owned businesses where father and son run framesaw lines, to corporate mills cutting 1,000,000m³ of round log per annum.

There has been a steady increase from our customers to visit sawmills that generate their own electricity from by-products (Bark, sawdust and chips).

Most installations are CHP (Combined Heat and Power) plants generating from 1MW up to 24MW where thermal generation (hot water) is used in the kilns.

The woodworking and timber processing industries are developing rapidly, and we aim to be able to compete with our European counterparts.

We always welcome anyone interested in joining us.
GreCon – Slim and powerful

GreCon SUPERSCAN is an innovative illumination system with registered embossing monitoring

Slim and powerful. With an installation depth of only 200mm in direction of production, the new SUPERSCAN finds its place in every production line of wood-based panels. This small installation depth has become possible thanks to an innovative LED lighting concept.

The SUPERSCAN analyses the photometric and structural properties of the surface of wood-based panels with a high resolution. A detection of low contrast defects, as e.g. folds in decor paper, is possible. Dust and decor shreds do not impair the detection performance, but are classified as pseudo defects and are not taken into account when analysing the quality.

The SUPERSCAN achieves impressive results in registered embossing monitoring. With registered embossing, the surface structure which is embossed by a press plate into a floor panel or a furniture board matches the decor pattern. For high quality appearance, the structure must be positioned on the decor pattern with high precision. The SUPERSCAN supports adjusting the press and continuously monitors the synchronicity of structure and decor. Consequently, an early intervention to correct the production process is possible.

GreCon-Performance-Centre allows easily analysing and assessing the processes of all production lines equipped with a SUPERSCAN. Thus, the Performance-Centre complements the user-friendly and intuitive operation of the SUPERSCAN praised by the users. Another step towards digitisation of quality assurance has become possible. The new SUPERSCAN will be presented in operation on the Ligna 2019 in hall 26 Booth No. C42.

Fagus-GreCon Greten GmbH & Co. KG is a privately held company located in Alfeld/Hanover, Germany. The GreCon product brand is one of the leading brands in the development and manufacturing of fire protection systems, measuring equipment and inspection systems for many types of industries - including the wood-based panels industry. The Fagus business unit belongs to the leading suppliers of the footwear industry because of the worldwide unique combination of design, lasts and moulds. All business units operate worldwide and offer customer support on the job-site. The Fagus Factory, built in 1911 by architect Walter Gropius, is one of the first examples of architectural modernism and was declared as UNESCO World Heritage Site in 2011. The Company Group counts more than 600 employees all over the world.
LIGNA 2019 – Discover the best!

Bandsaw Technology – convincingly strong
Discover at Ligna 2019 the variety of applications of EWD bandsaw technology and the world of log bandsaw headrigs, bandsaw lines and special applications in resawing and remanufacturing.
A “walk-in access” of the quad bandsaw EBT 4-1800 will provide a glimpse into the heart of a bandsaw line.

Edger Optimiser Technology – a class of its own
The proven EWD high performance edger system OPTIDRIVE is now complemented by the fully automated version, running without an operator.

Performance and quality on the highest level.

EWDconnect – the app for users
Mobile application for smartphones and tablets, specially developed by EWD. Availability data of an EWD sawline can be viewed mobile and online at any time.

New dimensions – expansion of our product and service portfolio
- Planning of customer-based conveying technology for new plants.
- Support for the extension, modernisation and improvement of existing plants.
- Assessment (bottleneck and failure analysis) e.g. to find proposals for the improvement of the material handling.
- Potential analysis to achieve targets which have been defined together with the customer.
- Process simulations and their analysis to develop and optimise production sequences.
- Lumber sorting plants with smooth handling and high productivity at the same time.

EWD-Service – you are in good hands
At Ligna 2019 we will have a central meeting point of the After Sales and Support department. Come and meet face to face our service technicians.

Reliability, confidence, technical competence and a close contact with the customers make us your strong partner.

Does this sound interesting for you? Then we would like to invite you to our EWD World!

We welcome you at our Stand F49 in Hall 25.
Ligna 2019: Tool sharpening with Industry 4.0

Under the motto "Shaping Success Together", the sharpening specialist VOLLMER presents its product and service portfolio at this year's trade fair for the forest and wood industry Ligna.

At stand B60 in Hall 27, the Swabian company showcases its grinding and eroding machines for the wood processing industry, designed to sharpen circular saws as well as rotary tools. The focus is on the digital networking of man and machine in production. Here VOLLMER presents its digital initiative V@dison, which gives tool manufacturers a gradual and feasible entry to the topics IoT and Industry 4.0. From 27 to 31 May 2019, trade fair visitors can see the erosion machine VPulse 500 for PCD-tipped rotary tools, as well as the grinding machine VGrind 360 for carbide tools, live in action. VOLLMER sets new standards at Ligna with the performance package for the QXD 250 erosion machine, which offers a significant increase in efficiency of the machine can be achieved.

At Ligna 2019, the trade fair for the forest and wood industry, VOLLMER showcases efficient complete solutions for sharpening circular saws and rotary tools for the wood industry at Stand B60 in Hall 27. The focus is on the new digital initiative V@dison from VOLLMER, with which the machine builder integrates its grinding and erosion machines in an IoT environment (Internet of Things) in order to support tool manufacturers with the implementation of Industry 4.0 projects. For this, VOLLMER developed the IoT gateway, which makes it possible to exchange data between sharpening machines and different IoT platforms. The IoT gateway is based on open source standards and its services are platform-independent in order to visualise and process data of VOLLMER machines and third-party providers.

QXD 250: Faster machining of PCD tools
Diamond-tipped tools – those that feature polycrystalline diamond (PCD) – are vitally important in the production of wood and composite materials. The QXD 250 disc erosion machine from VOLLMER is on show at Ligna. Thanks to a modified generator and extended programme functions, it is more efficient and faster in the machining. With the pallet conveyor magazines HC 5 and HC 11, the machine can be extended by up to 28 or 64 workpiece places.
"We use Ligna for the in-depth exchange of information and ideas with customers and partners in the wood industry", says Dr. Stefan Brand, CEO of the VOLLMER Group. "Apart from efficiency, precision and customisation, the topic of digitisation plays an important role this year. Our sharpening machines and services are adapted to Industry 4.0 and IoT, thus providing more quality for circular saws and rotary tools."

About the VOLLMER Group
With its comprehensive range of machinery, the VOLLMER Group – which has sites in Germany, Austria, Great Britain, France, Italy, Poland, Spain, Sweden, the USA, Brazil, Japan, China, South Korea, India and Russia – enjoys global success as a tool machining specialist in terms of both production and service.

The technological leader’s range of products contains the most advanced grinding, erosion and machine tools for rotary tools and circular saws in the woodworking and metalworking industries, as well as for metal-cutting band saws.

In offering this, VOLLMER relies heavily on the company’s tradition and its strengths: Local contacts for efficient communication channels, quick decisions and rapid action by a family-run company.

The VOLLMER Group currently employs approximately 800 workers worldwide, with around 550 of these at the main headquarters in Biberach alone, including more than 50 trainees.

The company invests around eight to ten percent of its turnover in the research and development of new technologies and products.

As a provider of technology and services, the VOLLMER Group is a reliable partner to its customers.

With the QXD 250 VOLLMER also worked on process optimisation: The company now offers a new performance package consisting of software and hardware, with which the machine performance can be improved significantly in terms of efficiency. This is achieved with seamless interaction of generator technology, process parameters, gap analysis, as well as drive technology. The performance package is one of the first products of the new digital initiative V@dison from VOLLMER.

VPulse 500: Wire erosion for precise tools
VOLLMER also offers wire erosion machines for machining PCD tools. At Ligna the company presents the VPulse 500 wire erosion machine. With its eroding generator and advanced technology, it can manufacture high-quality PCD tools in large volumes. Modern machine kinematics ensure high profile accuracy in both production and maintenance. With the VPulse 500 operating concept, the touchscreen allows you to easily programme and control the tool for quick, error-free work.

With the VGrind 360, VOLLMER provides tool manufacturers with a solution for rotary workpieces of varying geometries.

VGrind 360: Manufacturing tools in large quantities
The VGrind 360 grinding machine is also on board from 27 to 31 May 2019 in Hanover. It is ideal for machining carbide tools such as drills and milling cutters, which are also used in timber construction and furniture making. Thanks to two vertically positioned spindles, the VGrind 360 machines and finishes rotary tools in large quantities quickly and precisely. With the VGrind 360, VOLLMER provides tool manufacturers with a solution for rotary workpieces of varying geometries.

CP and CHX: Sharpening circular saws for woodcarving
The CP 650 sharpening machine is one of the other technology highlights. It is suitable for sharpening tooth faces and tooth tops on carbide-tipped circular saw blades between 80 and 650 millimetres in diameter.

What’s more, VOLLMER will be available to provide information about the new CHX 840 and the CHF 270 which can be used for sharpening services or in filing rooms at sawmills – simply pay them a visit at their Ligna stand.
URBAS Biomass Plants

URBAS is a privately owned Austrian company which operates internationally in three main business fields, steel construction, steel hydraulic engineering and energy technology.

The company was founded in 1929 and has since then maintained its tradition of high competence in all aspects of steel construction.

The youngest section of the company, Energy Technology, has been utilizing this experience combined with the latest scientific findings to realize the complete potential of biomass technologies.

Being internationally highly successful in the field of Biomass Energy Technology more than 400 employees plan, manufacture, install and maintain the URBAS Biomass Plants.

URBAS products in the field of Energy Technology are mainly turnkey products:
1. Hot water plants: Plants which generate hot water for the supply of industrial and district heating networks.
2. Process steam plants: Plants designed for the generation of high and low pressure steam used in production processes.
3. CHP plants: Heat and power from waste wood, based on steam cycle or wood gasification

Power generation range: 0,15 MWel to 30 MWel. URBAS has been designing, building and pioneering energy systems for the intelligent use of biomass fuels for over 20 years, thriving to achieve maximum sustainability through both economic and environmental objectives.

The systems are specially designed to extract energy from even the most wet and coarse wood fuels from sawmills, woodworking factories and general forestry thinning.

BRUKS Siwertell

will be at Ligna

BRUKS is a global leader in mechanical-engineering and equipment supply for the wood-working industries. Customer service and product performance are at the heart of our corporate culture.

We provide specialised customer solutions, including the development of custom machines and systems.

Our comprehensive services include project engineering, technical support, start-up training, and remote-monitoring/servicing of machine functions.

The BRUKS product portfolio offers a wide variety of customisable machines and system solutions for the wood working industries.

In summer 2018, Bruks has entered into an agreement to acquire the company Siwertell and merge the two company’s organisations, thereby forming the new holding company Bruks Siwertell. This strengthens Bruks position in the market.

We are continuously optimising our products and further develop these. Bruks is going to exhibit at the LIGNA show in Hannover and will present their new state-of-the-art “The Belt Conveyor” during the show.

The BRUKS product portfolio offers a wide variety of customisable machines and system solutions for the wood working industries.

Visit us at the Ligna show in Hannover in hall 26 at stand E07 and we show you how to achieve more.
New generation of measuring devices and air humidification systems

With the VISCORE air humidification system and the extensive functions of the HM9 wood moisture measuring meter series, Merlin Technology is highlighting its latest product development at the LIGNA trade fair in Hannover. Noticeable simplifications and reliable results are guaranteed for wood processing companies. A world first in the field of measurement technology is also making its debut.

The relative humidity in a room has a serious effect on wood and its processing properties. This is where consistency is in demand. Merlin Technology will be demonstrating at LIGNA how efficient and flexible an easy-to-operate humidification system can actually be. "Our modular VISCORE system can be adapted completely individually to the application site and follows an unmistakable logic," emphasises merlin® president Johann Reisinger. The intuitive menu navigation on the central PLC control, the high-pressure interval switching and the free controllability of each individual zone are trend-setting for the market. The VISCORE system is even suitable for self-assembly and is particularly low-maintenance.

Versatile measuring device in a new design

The development department at Merlin Technology is also very active when it comes to measuring technology. Since its premiere last year, the HM9 wood moisture meter series has made a great start and successfully replaced its predecessor, the HM8 series.

The series offers instruments with measuring depths of 0.5 – 3 mm, 8 mm, 20 mm and 40 mm, for various applications such as veneer or furniture, and provides meticulously accurate values with 21 wood moisture curves.

The wood thickness pre-selection of the HM9 WS1 offers a special feature: 6 adjustable measuring depths from 0.5 to 3 mm for an even more accurate measurement at low thicknesses.

A look at the new design is also worthwhile. A housing with rubberized handle sides provides perfect grip and protection. With its clear, high-quality and understandable design, the HM9 wood moisture meter is recommended for all industrial applications.

Next world premiere of merlin®

The latest innovation in the series: the HM9 DUO. The new wood moisture measuring device celebrates its world premiere at LIGNA.

The instrument has 2 integrated sensors with different measuring depths of 8 mm and 40 mm for a wide range of applications – from parquet flooring to cutting and chipboards – creating a 2-in-1 miracle. In particular, the revolutionary frontal sensor is an absolute advantage for use on narrow workpieces.

Company

As a specialist for humidification systems and measuring devices, Merlin Technology, whose roots go back to 1995, stands for excellent quality and top service. We guarantee optimal climatic conditions for humans, materials, and machines and create the perfect prerequisites for increasing productivity, success, and well-being.

With innovative technologies and industry-specific know-how, we set new standards. Which is why merlin® humidification systems are used by renowned companies around the world.

When it comes to controlling moisture content, merlin® is one of the leading suppliers of non-destructive measuring devices for wood, paper, and building materials. Our portable measuring devices have enjoyed an outstanding reputation for 20 years and are exported to more than 70 countries.

Visit us at the Ligna show in Hannover in hall 13 at stand B20 and we show you how to achieve more.
Weinig Luxscan at Ligna 2019

For the first time at Ligna Weinig will show a fully integrated optimising line with not one, but two Luxscan Combiscan scanners. Previous shows have seen smaller production lines, but never on this scale incorporating ripping, cross-cutting, moulding, robotics and a fully functioning finger joint line.

At the infeed the pieces are scanned on a Combiscan Evo R200 and optimised for width. The 2D rip optimisation takes into account the required widths, important later in the process for finger jointing, and provides a prediction of the expected cross cutting result based on the quality and width parameters.

The R200 has top and bottom laser and colour cameras as well as grain angle measurement, providing reliable detection on both hard and softwood. Options such as x-ray detection provide further possibilities. The optimising result is passed to a Profirip 340M from Raimann, and cut into the required strips, which can be stacked according to width.

The strips are then transferred by robot to the cross cutting part of the line, and are first moulded on a Hydromat 3000 from Weinig. Then they are scanned by the latest generation Combiscan. This machine features four side laser and colour detection and, as a first, x-ray detection in combination with detection for hit and miss (skip).

This is made possible by a new design which allows the combination of both sensors, ideal for use in rough sawn applications, which could previously not be combined.

Customers can now choose both, where before only one or other was possible, and they are also available for random width applications.

Grain angle measurement and angle crack detection complete the package.

Once optimised, the results are passed to the Opticut 550 Quantum from Dimter and are cut into fix and variable lengths – which are fed automatically to a Turbo S, from Grecon, completing the overall competence of the Weinig group.

In addition to the automated line, visitors will also be able to see a simple cross cut line featuring an Easyscan+ inline with an Opticut 260.

The Easyscan+ features four side laser, colour and grain angle detection, as well as the Variospeed option allowing it to match the infeed speed of the saw, minimising the gap and maximising throughput. Finally, Luxscan will also share with visitors a look back at the last twenty years featuring some highlights and images from the start of the company in 1998 up until the present day, culminating in the Luxembourg Export Award in 2018.

The “20 years of Luxscan” can be found opposite the infeed to the cutting line.

For further information please do not hesitate to contact us, and we look forward to seeing you in Hannover.

Visit Weinig/Holz-Her in Hall 27.
USNR exhibits advanced technology at LIGNA

Visit us at LIGNA to experience the future of sawmilling and engineered wood manufacturing technology. On display in the Sawmill Hall 25 Stand D65, you’ll find advanced scanning, optimisation, and grading systems along with flexible debarking options and lumber handling solutions. Our engineered wood display in Hall 26 Stand D08 showcases significant advancements in high-production veneer drying and grading.

CamShift Debarker

The CamShift system combines debarking and flare reducing in a single, modular machine that is available with one or two debarking rotors in three sizes, for feed speeds up to 130m/min. (425 feet/min.). CamShift 600 offers both log-releasing tools and tool pressure adjustment during operation.

The manually adjusted flare reducer rotor is infinitely adjustable for reduced diameters up to 560mm (22”). Its modular, pull-out design makes set-up and tool changes a breeze!

Carriage Scanning and Optimization

USNR’s Carriage Optimizer delivers unparalleled accuracy and simultaneous front and back side scanning. It’s the only system capable of full log breakdown grade sawing that can also be configured for hardwood MOF applications. Full coverage 3D LASAR2 sensors have exceptional resolution and data density, providing more accurate log volumes and better yield and overall mill performance.

Transverse High Grader

The Transverse High Grader (THG) uses time-tested technology from the Lineal High Grader, combining it with the most advanced sensor available today. BioLuma 3900LVG+ integrates GrainMap, XHD colour vision, and HD laser profiles with bright LED illumination.

It collects ultra-high-resolution images with precise geometric and grain angle measurements on all four surfaces of the boards.
THG accurately detects, measures and classifies: bow, crook, twist, skip, wane, knots, pith, stains, decay, bark pockets, splits, shakes, worm holes.

**Renowned Veneer Dryers**

Our Coe-brand veneer dryers are renowned for consistently producing high-quality veneer with a uniform dry moisture content and an aesthetic appearance that is supple enough to minimize damage during stacking.

Our dryers offer the highest efficiency, using the least amount of thermal energy and producing a minimum volume of dryer exhaust.

USNR was awarded 2012 Innovator of the Year by EWTA/APA for the revolutionary installation of a 6-deck jet veneer dryer in Chopin, Louisiana, that expedited the entire dryer installation to a mere 3-week timeline.

**The New Vision Green-end Scanner (NV4g)**

The NV4g accurately separates voids, splits, and closed defects in a broad range of veneer species. Accuracy, consistency, and reliability separates the NV4g from competitors.

The system enables users to adjust clip solutions to optimize grade recovery, or sort clipped veneer by grade. Clipping algorithms can be customized.

Clip parameters are fully adjustable for trash, FT, random, small panel, and large panel.

**Sawmilling Experts. Millwide. Worldwide.**

USNR is the world’s largest, most comprehensive supplier of equipment and technologies for the wood processing industry. The 2015 acquisition of Söderhamn Eriksson expanded our portfolio to include high-quality European-style log lines, edger systems, and Cambio debarkers. We supply systems, service, and support around the globe. Find out if we have a solution that’s right for you.

Visit multisaw-sawmilling.com | Neil Murray 082 569 2430 | Allan Pierce 082 312 5567 | usnr.com
Holtec at Ligna

HOLTEC GmbH & Co. KG welcomes you at this year’s LIGNA in Hanover – the leading fair for machines, systems and tools for the woodworking industry from May 27th – 31st, 2019

We show new and established solutions regarding the lead topic “More out of wood”. The second time now you can find us at two different booths.

In hall 25 booth D50 innovations concerning log handling are in the focus. Solutions for optimising the operating costs are much asked for. Here HOLTEC offers the tried and tested chainless concept.

Solutions for separating and accelerating logs with a minimum of wear are the core issues of every log yard for which HOLTEC sets benchmarks for many years now. The accelerating rollerway log runner is shown at the exhibition stand as well as demonstrations to the topic chainless drive-technology.

In hall 26 booth C27 HOLTEC displays solutions for complete log yards with regard to every wood-based material. We show new dimensions in the chip production as well as innovative solutions for debarking and conditioning logs for the LVL and plywood production.

Welcome to Hanover!

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Sawblades & Sawmilling Equipment

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WITH 70 YEARS OF EXPERIENCE IN THE INDUSTRY, WE URGE YOU TO CHALLENGE US WITH YOUR PERSONAL REQUIREMENTS

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- TCT Blades
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- Plate Bandsaws
- Food Grade Stainless Steel

authorised reseller of saw maintenance and saw milling machinery
HewSaw’s Latest Technology Showcased at Ligna 2019

Located just a couple of hours from Helsinki, the HewSaw factory and workshop is in the small town of Mäntyharju, which is well known for its outdoor recreational amenities and scenery.

Over the past 55 years, more than 400 HewSaws have been delivered worldwide to sawmills in well over 30 countries and on six continents, including Africa.

HewSaw will showcase the newly improved R200 A.1 single pass machine. This machine is based on the original HewSaw that was developed by four brothers who founded the company and whose families still run HewSaw today.

This latest version of the R200 A.1 was manufactured with the help of 3D Design technology and robotic welding. With robots looking after the welding, HewSaw has been able to improve the quality of the welds by using heavier and more durable materials. And as an added bonus, the robots have not had any bigger impact on employment numbers at the factory as having them deal with the mundane welding allows the company’s dedicated specialists to focus on other components for the machine and creates an environment of enthusiasm for quality control in the workshop.

HewSaw works together with ABB in developing and supplying custom build robot cells for sawmilling demands. References can be seen in HewSaw’s own factory with a chipping knife sharpening cell and other applications where the ‘out-of-the-box’ robot has been built to fulfill the demand and to provide a turn-key process with security logic included.

Back in Hannover at the HewSaw stand (D24) in hall 25, the HewSaw R200 A.1 HewSaw is presenting the company’s commitment to ergonomics and work safety for the 2020s. Tests have shown HewSaw’s latest chipping knife design and manufacturing materials can play a major role in reducing your mill’s electricity requirements through decreased energy consumption. The capacity for the HewSaw at stand starts from minimum 40,000m³ of logs annually.

A HewSaw SL250 size chipper head will also be on the stand. This larger head is used when processing larger log sizes - Just in case you need to process large quantities – even over 1,000,000m³ of logs annually.

Come and See the Renewed HewSaw R200 A.1 at Ligna 2019

Visit us at Ligna 2019
Hall 25, Stand D24
HewSaw

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Wood-Mizer releases MP200 two-sided Planer Moulder

Wood-Mizer’s Woodworking Machine range has received a further boost with the recent addition of the MP200 two-sided planer and moulder.

The release of the MP200 follows on the launch of Wood-Mizer’s four-sided planer moulder range in 2018.

The company’s Woodworking Machine range now consists of three planer moulder models – the MP200 two-sided planer moulder together with the MP360 and MP260 four-sided planer moulders.

The earlier release of the four-sided models gave new and existing producers access to technology that was previously unaffordable with improved production capacity, quality, ability to compete in new sectors and extended profits some of the benefits.

The MP200 two-sided planer moulder continues this legacy by matching affordability to high levels of innovation to deliver a solution that sets a new benchmark for competitively priced planing and moulding machines.

**MP200 – Innovate to the next level**

The MP200 is a robustly built, easy to use machine that is designed for manufacturers that want to produce mouldings, flooring and other wood products quickly, affordably and efficiently.

Its compact design and wheel-mounted frame slots easily into existing work areas or congested spaces.

The unit has one horizontal and one vertical spindle that can hold planing or profiling knives. This makes it possible to plane and mould on one or two sides in one pass to produce mouldings, flooring or planed components for manufacturing or resale.

The MP200 can plane components with a maximum height of up to 260 mm high and 410 mm wide. The maximum moulding height is 100 mm high by 310 mm wide.

The MP200’s ability to profile and plane in one pass is provided by an innovative centre mounted fence that allows for processing on either side of the fence.

The fence references off two guiderails to provide for accurate and square in-feeding with three side pressure rollers on the opposite...
Sawmilling

Wood-Mizer releases ...

The centre mounted fence for processing on either side of the fence. Three side pressure rollers assist to squarely hold the component up against the fence.

A handy ruler scale mounted above the fence ensures the accurate, and on-size repositioning of the fence.

A four-post table height adjustment system ensures the square and level, up and down movement of the table. A manual crank handle adjusts the initial table height with a micro-adjustment dial providing for final size adjustments.

Two overhead steel-grooved rollers and a third polyurethane roller at the outfeed-end feeds the component through the machine flat and true. The polyurethane roller ensures that the planed surface is not damaged as it exists the unit.

An anti-kickback finger system at the infeed-end ensures the safety of the operator and also to align the component squarely as it enters into and through the unit.

An easy-to-use control panel consists of two separate buttons that control the top or side spindle. The feed speed, that is pinned between 2 and 12 m/minute, is also regulated from the control panel.

Each spindle has a dust extraction point to remove residue from the unit while it is working.

A cut-off switch mounted on the top cover of the machine prevents access to the machine while it is running.

Top line specifications:
- Planing width: Up to 410 mm
- Planing height: Up to 260 mm
- Moulding width: Up to 310 mm
- Moulding height: Up to 100 mm
- Horizontal Spindle: 3 kW, 3-phase electric motor
- Vertical spindle: 2.2 kW, 3-phase electric motor.

A four-post table height adjustment system ensures the square and level, up and down movement of the table. A manual crank handle adjusts the initial table height with a micro-adjustment dial providing for final size adjustments.
HOLZ-HER will Plug & Play at LIGNA

Digitisation has been changing our working world at an incredible pace for years. From the beginning, HOLZ-HER focused not only on increasing efficiency for the customer, as a matter of course, but also on a high degree of transparency of production processes and particularly user-friendly new applications. “Plug and play” is the number one requirement for all new developments. HOLZ-HER will present its solutions and products at LIGNA 2019 with live demonstrations to prove that this is possible.

Automation with high customer benefits
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Automation Pro
The next big step in automated production at HOLZ-HER is called Automation Pro. This concept is the logical continuation of the innovative NEXTEC solutions. It interconnects the entire production process from the STORE-MASTER panel storage system to finished pieces of furniture across the entire HOLZ-HER machine inventory, even in large interior fitting companies and in industrial production.

Our own, pre-installed solution defines the production route. The HOLZ-HER Warehouse has a key function here. Released orders are transmitted to the HOLZ-HER Warehouse for management, and processing instructions are distributed to the relevant HOLZ-HER machines such as saws, nesting machines and edge banders. New HOLZ-HER machines can of course also be integrated.

NEXTEC 4.0
With the NEXTEC 4.0, HOLZ-HER has taken the NEXTEC workshop of the future one step further. The new NEXTEC 4.0 office software module is a standard feature of the Push, Automatic and Lift Edition machine versions.

For the customer, this means that the software and database for production control as well as the CabinetSelect software are already pre-installed.

Another component of the package is the HOLZ-HER Warehouse designed for managing orders directly at the machine or in the office. The integration into the customer’s company network can be performed easily.

Upon request, an additional module serves as an interface to the HOLZ-HER edge banders.

EVOLUTION series
Efficient production is hardly conceivable without a CNC processing center, even in smaller carpentry businesses. And there’s room for it even with the minimum of space: With its EVOLUTION series, HOLZ-HER offers complete vertical processing with a small footprint.

The processing capabilities of the vertical CNC processing centers from the EVOLUTION series are almost unlimited.

Even with the new EVOLUTION 7402 4mat you can benefit from four-sided formatting. Even the standard version of the drilling and formatting center is equipped with a powerful 5.6 kW spindle, making it ideal for cut-outs and pockets. A fully equipped drilling head (15 spindles) incl. a grooving saw are available to cover all drilling requirements. Optionally, the system can be equipped with even stronger spindles and larger drilling heads.
COVER STORY

from page 35
HOLZ-HER LIGNA ...

The 7405 4mat can do even more with the integrated 6-position tool changer: For example milling, cut-outs, engraving, profiling, furniture joints.

New is the ingenious door package “Doors Ready”.

It consists of a specially developed angular gear for lock mortises and a lock mortise cutting unit.

The package allows for complete processing of door leaves up to 70 mm thick.

TECTRA 6120

With its new appearance in dark grey, the HOLZ-HER TECTRA 6120 pressure beam saw matches the design of the HOLZ-HER machines perfectly. It offers a maximum of performance and quality for perfect panel splitting.

The standard electrical adjustment of the 2.2 kW scoring saw saves a lot of time and offers a precise adjustment of the scoring saw blade. A bidirectional grooving device is another standard feature.

The TECTRA variants range from the Classic or Power versions for manual loading, through the Lift variant with lifting table to the Dynamic, which is operated via the STORE-MASTER storage system.

In HOLZ-HER machines, the collets are float mounted on linear guides, preventing pressure marks on the material. The 7.7 kW main saw motor can handle jobs at top speeds of up to 130 m/ min. The EasyPlan software allows parts to be optimised and moved, and it even supports the representation of furniture fronts.

RETURN-MASTER 5920

Even in smaller workshops, automation is becoming increasingly important in order to remain competitive and to operate profitably. The RETURN-MASTER is a component for automated edge processing, whether in series production or for single-item batches.

The return unit from HOLZ-HER enables efficient single-operator use for increased productivity and maximum flexibility.

This makes the RETURN-MASTER 5920 the perfect supplement to all HOLZ-HER edge banders. In comparison with many competing products, the RETURN-MASTER with its 2 tons of dead weight is characterised by a particularly stable design.

Further quality features are the tilting air pad table and the certified safety package for a safe workplace.

With its high-quality drives and guides, the RETURN-MASTER is very low-maintenance and extremely durable.

LUMINA 1596

The edge banders of the LUMINA series stand for perfect zero joint technology with laser edging and PUR. The LUMINA 1596 4.0 edition convinces with further highlights.

The NC servo axes of the latest generation ensure lightning-fast changeover to different applications and guarantee a high level of repetition precision, accuracy, and longevity.

Another hot topic for efficient edge banding is “Equipping in the gap”. This allows different processes to be carried out simultaneously on the edge bander. For example, the corner copying unit can be switched on intelligently without having to idle the machine for set-up.

The new intelligent operator guidance allows an even more intuitive adjustment of all cutting and scraping operations.

The operator can perceive visually at any time which corrections are being made in which direction.

The values entered at the control for horizontal and vertical
tool adjustment are automatically converted to the actual axis values in the background and can be re-applied with a high level of precision at any time.

Test workpieces are now almost a thing of the past. ■

“Plug and play” is the number one requirement for all new developments. HOLZ-HER will present its solutions and products at LIGNA 2019 with live demonstrations to prove that this is possible.

Sole Agent -
Hüster Machinetool Co. (Pty) Ltd

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**COVER STORY**

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**Power**
Options: 23HP Petrol Electric Start | 11 Kw 380v

**Cutting Capacity**
Length: 8m (4 segments: 2m each) | Diameter: 900mm
Max. width of cut: 700mm | Sawmill head features
Power up/down manually | Blade Guide Arm | Blade Tension system | Hand crank feed system rack and pinion | Blade lubrication tank | Roller blade guides Sawmill bed features & options

**Standard:**
4 log backstops | 2 log clamps | 4 bed sections (2m sections) | 16 adjustable levelling feet

**Optional:**
Bed extensions 2m | Log loading ramps | Log taper wedge | Cant Hook Blade | Lengths: 32-35mm | Blade Wheel Diameter: 415mm

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**SUPPLIERS OF QUALITY PRE-OWNED AND NEW MACHINES**

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**INTRODUCING THE RHINO 700 HORIZONTAL BAND LOG EDGER**
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Biesse at Ligna 2019

Biesse presents the future of Industry 4.0 at Ligna, with 6,000 square metres of innovation, highlighting robotisation and digitalisation in technology

Ligna, a biennial event, will be held at Hanover from 27 to 31 May 2019, it is the leading trade fair when it comes to machines, facilities and tools for the processing of wood and is, for Biesse, the ultimate place for sharing about the opportunities provided by robotisation and the advantages offered by new technology.

Thanks to years of investments in services and technology designed to help develop digital factories, Biesse is framing its new business strategy by placing people at the centre of its approach to designing machines. Guided by the Automaction concept, a guiding principle that fully describes the tangible impact of Biesse solutions on automated and interconnected production, Biesse confirms and further strengthens the bond between man and robot, not just by presenting a greater number of solutions that make use of robots on the stand, but also by demonstrating how people can benefit from them, validating their work and making production more efficient.

The use of robotic systems in factories guarantees maximum production efficiency and helps simplify processes.

The Biesse stand at Ligna will present three process solutions that have been automated from the raw material to the finished product. Several integrated lines and several robotised cells will also be present, offering incomparable levels of customisation, modularity and flexibility for the facility, fundamental requirements for contemporary production.

In order to constantly make the factory more efficient, Biesse pairs robotisation and digitalisation with the development of new software and continues the innovative journey that started with SOPHIA, the IoT service platform, expanding its functionality to embrace predictability, which will greatly improve the customised interaction with the customer when it comes to the machine and will significantly reduce the time required for assistance.

Visitors to LIGNA will be able to experience the cutting-edge technological innovation that characterises Biesse, test the tools that enable customers to obtain greater value from machines, and see how SOPHIA can revolutionise and simplify everyday work.

Fifty years after it was founded, Biesse is prepared to face another fifty with its eyes on the future and its mind on the customer: with this perspective, investments in innovation, automation and services for the customer are also set to continue.

“Our objective is always to achieve customer satisfaction and loyalty, which is why, thanks to the new technology and services we offer, we are able to create a solid and functional bond between ‘human&robot’, thanks to the privileged position occupied by people, who are at the centre of our business strategy. Biesse accompanies the customer through every phase of day to day work, starting with the dissemination of the automated digital factory in the world of manufacturing and providing necessary tools for..."
efficient production,” states Federico Broccoli, Wood Division/ sales director and Subsidiaries Division director.

“The tools we offer customers also include services, envisioned as an opportunity for close collaboration with the company, its professionalism and its skills. That’s how ONE SERVICE came to be, aiming to reorganise Biesse Service and outline approaches to work that remain constant throughout the world, to work more effectively and efficiently.

A confirmation of the importance of services was the creation of the Biesse Academy for Service, a training centre for the entire Biesse Service network, which includes specialists at HQ, Branch Offices and those who work for retailers as well as our customers’ Operators/Maintenance Workers, with the objective of creating skills and empowering the next generation.” Over its fifty years Biesse Group has never stopped growing and expanding geographically, to strengthen its international standing and constantly improve every aspect of support and service and of the machinery offered throughout the world. In keeping with this approach, the new Biesse Deutschland branch has been expanded to double the surface area.

The new Campus, which occupies 6,000 square metres, is located in Nersingen, not far from the current office, and will benefit from 1,600 square metres of showroom, an ideal space for introducing customers to innovative machines and technological facilities.

LIGNA and the inauguration of the new German Campus, planned for autumn 2019, are part of FUTURE ON TOUR, a schedule of celebratory events through which we will celebrate 50 years of Biesse Group with our Customers around the world. The schedule includes two other Grand Openings inaugurating our new Campuses: in Brianza (Italy) and in Sydney (Australia).

“We believe in the Future and in the work of the people who, over these 50 years, provided crucial support for the international growth of Biesse. Which is why we wish to dedicated the 50 years of Biesse to the Future and to those who have made Biesse the Group it is today,” states Raphaël Prati, Corporate Marketing Communications director.

See Biesse at Ligna 2019: HALL 11, a real experience of the future.

BIESSE S.p.A. - Biesse Group is a global leader in technology for processing wood, glass, stone, plastic, and metal. It designs, manufactures and distributes machines, integrated systems and software for manufacturers of furniture, door/window frames and components for the construction, ship-building and aerospace industries. It invests an average of €14-million per year in R&D, boasting over 200 registered patents. The company operates through 12 industrial sites, 39 branches, and 300 agents and selected dealers, exporting 90% of its production. Its customers include some of the most prestigious names in Italian and international design. Founded in Pesaro in 1969 by Giancarlo Selci, Biesse SpA has been listed in the STAR segment of the Italian Stock Exchange since June 2001 and is currently included in the FTSE IT Mid Cap index. It currently has 4300 employees worldwide.
WEINIG at LIGNA 2019
Innovative cutting-edge technology for every requirement

Under the motto THINK WEINIG, more than 50 exhibits await customers in Hall 27. A special highlight of the stand is a complex production line in which all areas of competence of Weining AG are directly or indirectly integrated. All machines and systems will be demonstrated live in action.

New moulders for the high-performance segment
Weining will present three new developments in its product unit Planing and Profiling. In the high-performance sector, the new Hydromat generation will celebrate its world premiere. The machine series has a performance potential of up to 300m/min. Feeding is performed via the new SF 200 accelerator. The modular system allows pre-planing with high wood yield, as well as finish planing with high surface quality. The features of the new Hydromat series also include high-precision profiling and splitting for even higher performance.

The new control generation WMC (Weining Machine Control) will be used as standard in the Hydromat class in the future. The highlight is an individually configurable dashboard that shows all essential production data at a glance. The simple, intuitive WMC control system for Hydromats will be presented for the first time at LIGNA.

The Powermat 2400 3D is the second innovation in the product unit Planing and Profiling. It allows the production of furniture parts or designed workpieces by contour milling from the right and left during through-feed. Until recently, it was not possible to manufacture such parts during through-feed. However, Weining has achieved a technical breakthrough with the Powermat 2400 3D.

Another innovation at LIGNA is the Powermat 3000 for feed speeds of up to 100m/min. This moulder covers every requirement - from pre-planing with hydro technology to built-to-order production. PowerLock tool holders and jointers ensure an immaculate multi-knife finish. In the broad target group between ambitious small businesses and industry, industrial bead production is of particular importance.

Tools and tool grinders ensure independence from service providers and allow fast response to orders. New at LIGNA is the Rondamat 985. This machine is particularly suitable for large planer heads and knife shafts as well as for large finger-jointing cutters. For the Rondamat 985, a special OptiControl system is available for measuring the tools.

World premiere in Weining CNC centers
The fully automatic CNC system Conturex has long been the benchmark in window manufacturing. Weining has now added two new models to this successful range. The Conturex Vario S is aimed at customers from the industrial sector. With new profile systems and added processing for smart home window solutions, this machine is Weining’s answer to increasing demands on production technology. The domain of the highly productive Conturex Vario S is window manufacturing.
But the new CNC centre also offers more flexibility for other applications, such as furniture and frame construction.

With a capacity from 7 window units per shift, the Conturex Artis is positioned below the previous entry-level machine, the worldwide popular Conturex Compact. Technically, it has all the features that make up the current success of the CNC series. In particular, the machine offers the user limitless options in terms of window systems.

Its highlight is the patent pending RePos easy reclamping process. It enables variable part clamping and automatic movement of the workpieces in the machine. The workpieces remain clamped throughout the manufacturing process, thus achieving maximum precision and quality. For complex clamping situations, PowerGrip RePos easy also enables clamping in the fold.

At LIGNA, both machines will be integrated into the Weinig cross-cutting and pre-planing system.

Evolution in cutting

The OptiCut 150 for hardwood users will be presented for the first time at LIGNA. The ultra-fast through-feed saw OptiCut 550 Quantum, which in its latest version features even greater speed, has undergone decisive modifications. The new OptiCut 260 with EasyScan scanner is also available for performance-oriented cross-cutting.

The EasyStop positioning aid, which can also be retrofitted to many types of saws, provides an entry into automation. The simple processing of orders is guaranteed by the OptiPal packaging software. Weinig offers a completely redesigned ProfiRip 340 for ripping, which achieves feed speeds of up to 120 m/min with a divided chain.

The compact ProfiPress LB gluing press with automatic packaging system will be on show for the first time in Hanover. The compact and flexible press works with high-frequency technology and is ideally suited for operations with a capacity of up to 20m3 lamellae per shift.

Novelties also in jointing technology

The focus of the product unit Jointing Technology in Hanover is on short wood lines. New is the patented Turbo S 1000 milling combination to produce horizontal and vertical joints. Its outstanding features are the high capacity and the individual adaptability.

The Turbo S 1000 will be integrated into the Weinig production line. The shaper combination automatically forms packages. Dividing saws ensure precise output lengths.

The Weinig highlights in the area of jointing technology are completed by a model from the new high-performance finger jointing line of the VS series, which will soon be launched on the market.

As in previous years, the Weinig Grecon production site in Alfeld near Hanover will be opening its doors at LIGNA for a supplementary special exhibition about jointing technology. The focus is on the powerful new generation of PowerJoint 12 and 18 finger jointing lines. In addition to these two exhibits, which will be presented live in action, another 10 systems under construction will be on display.

Digitised systems technology for the future

Weinig’s competence for large-scale systems is increasingly in demand on the market. Against this background, the “Automation & Digital Business” unit was recently integrated into Weinig Concept GmbH. It brings together the entire know-how of the Weinig Group. At the LIGNA stand, visitors can experience a complex production line consisting of eight interconnected Weinig components live in action.
TIMES ARE CHANGING.
AND WHAT ABOUT US?

THINK WEINIG

Batch size 100 today, a single item tomorrow, and get everything done by the day after tomorrow. In times of great change there are new challenges daily. I need a partner who not only sells me a machine, but who also guides me into the future with comprehensive personal advice and scalable, flexible solutions. WEINIG offers more.

Your first step forward: think.weinig.com

Discover WEINIG live:
LIGNA 2019 || Hall 27
In daily demonstrations, the complete processing line from the raw material to the end product will be shown.

The networked processes represent the spectrum of the Weinig standard W4.0 digital under realistically simulated production conditions.

This system uses robot technology and Weinig scanner technology. The new models CombiScan Evo R200 and CombiScan NextGen will be presented. The software RaiNet is used for automated geometric measurement of the wood.

All components are centrally controlled via the new Weinig Central System Control. This is a single-operator solution that establishes a connection between the customer’s in-house IT system (ERP) and production cells.

The production cells receive the necessary order-related data and report operating data back. In Hanover, semi-finished products will be manufactured live as instructed by the Central System Control unit and will then be further processed directly in various applications at other stations of the Weinig stand.

The new business unit “Automation & Digital Business” will present the current version of the Weinig App Suite alongside the Weinig live demonstrations in Hanover.

The Weinig App Suite is integrated into the cloud-based Siemens IoT operating system MindSphere, which serves Weinig as the basis for a new standard in networking, forward-looking services and the application of production technology.

Using secure data communications, MindSphere guarantees manufacturer-independent connection of machines, applications and apps.

Weinig Concept: The CLT success story
The engineering specialist Concept focuses its LIGNA presence on CLT competence. A current customer project will be presented.

Specific processes of the individually configured production line for timber construction will be integrated into the large-scale system at the Weinig stand. Demonstrations will be held to support the presentation of the overall concept.

With a capacity from 7 window units per shift, the Artis is positioned below the previous entry-level machine, the worldwide popular Conturex Compact.
Paolino Bacci at Ligna 2019

It is with enthusiasm and confidence in the future that Paolino Bacci announces its participation at LIGNA 2019 (Hall 27, Stand F50).

For their company, LIGNA has always represented the most important event to show their woodworking machines. Bacci has been continuously present at LIGNA since 1958 and here they have always unveiled their technical innovations.

This edition is however particularly important for the Bacci group: they will participate with relevant news and Bacci Automation, the new company inside Bacci group specialising in robotic automation.

The Bacci group therefore doubles its presence at the fair:

- Paolino Bacci, which will exhibit some of its innovative machines, dedicated to the production of chairs, tables, doors, cabinets, stairs (7 CNC machines in total)
- Bacci Automation, which will present robotic solutions for feeding and outfeeding two different CNC machines, one for solid wood and one for flat panels

Bacci firmly believes that in the coming years efficient industrial furniture production cannot do without an integration of advanced CNC cutting solutions and robotic automation.

In total the space occupied by the BACCI group at LIGNA 2019 will be about 1000 square metres, doubling the space previously occupied.

This is a further confirmation of the Bacci group growth process, which today consists of an articulated reality: Paolini Baci, Bacci America and Bacci China (the North America and Far East subsidiaries), Bacci Meccanica (the supplier of metal frames machining) and, today, Bacci Automation.

This growth will consolidate from a production point of view into a new plant, whose opening is scheduled for the coming summer.

In the new complex they will be able to produce even larger and more innovative machines and solutions, as they have always done in their 100-years history, thanks to the four generations of the Bacci family.
Leitz at Ligna

At the Ligna, Leitz will present convincing, field-tested service concepts, once again demonstrating its special flexibility and customer orientation as a manufacturing service provider.

The figures of the Leitz Service alone are impressive. Around 15 million tools per year are efficiently and flexibly serviced in Leitz’s worldwide service centre – tools of any kind and any manufacturer.

120 service locations all over the world, including 45 diamond competence centres, form a dense, highly productive network of contact points for the reconditioning of tools of all kinds; and each time the Leitz specialists manage to deliver them to the customers in the same quality and efficiency as they were in new condition.

But the Leitz Service does not only play to its strength in the conventional pick-up and delivery service. Leitz has also been a pioneer in the field of accompanying services for a long time.

Last year, for example, the LeitzXPress Button was presented at the Holz Handwerk trade fair. A technical service concept, that enables Leitz customers to contact Leitz quickly and easily at the touch of a button via an online interface. The responsible Leitz service employee receives a notification per e-mail and contacts the customer personally within an hour, helps to solve problems, accepts service orders or arranges an on-site application specialist for complex challenges.

As a second service concept, Leitz presents its flatrate for tool service at the Ligna. Here, the world market leader targets directly medium-sized to large companies from industry and trade, who want to design their processes in the field of tool preparation and tool management efficiently and transparently.

Depending on the size of the company and the amount of tools, Leitz offers various billing models that can be variably and above all individually adapted to the situation of the customer.

The premium offer in the service sector is Complete Care, an “all-round carefree package“ from Leitz that optimally combines various service offers with each other. With Complete Care, the customer does not have to worry about the procurement, management and reconditioning of his complete tool inventory. Leitz handles the complete tool management: All the small and time-consuming processes involved in selection, disposition, procurement, provisioning and stocking are thus eliminated on the part of the customer.
This year Leitz presents its “Solutions in new dimensions” at the Ligna also in the business unit “Digital Services”.

New dimensions means that the specialists from Oberkochen will be translating their industry knowledge from more than 140 years and their knowledge of customers’ needs into high-performance and forward-looking tool concepts. For users of Leitz products, this means an increase in productivity, more efficiency in work processes, conscious and careful handling of resources and employees as well as a particularly high flexibility in use.

• Just in time for Ligna, Leitz opens a new chapter in the success story of the ProfilCut product family. Leitz developed the latest members of the family under the name ProfilCut Q Plus and ProfilCut Q Premium Plus with resharpenable, diameter and profile-constant cutting edges especially for the window construction industry or also for companies that process solid wood, plastic or MDF panels. The incentive for these new developments was the manufacturing costs due to the use of disposable knives for profiling. The Leitz solution is a tool system, which, like all ProfilCut tools, convinces above all by its high productivity. Due to the high speeds, large quantities of material can be processed quickly and cleanly.

• The new compact hogger generation is ideally suited for batch size 1 production as well as for processing large quantities in furniture production. It is the solution for increasing productivity thanks to its longer service life and increased efficiency thanks to guaranteed constant cutting width. In addition, the resharpenability is also a great advantage from an economic point of view and the optimised chip collection increases productivity due to shorter machine downtimes, reduces dirt on the plate and extends tool life. In addition, the tool design has been modified in such a way that a significant noise reduction can be measured.

A further innovation of this year’s Ligna is the swivelling bevel cutterhead with exchangeable cutting systems. Due to the increasing variety of materials used in the construction of buildings and interiors, the tools are subject to high stresses. This can be seen above all in an excessively large variety of tools required, fast wearing cutting edges and correspondingly low cutting quality. In small or medium-sized companies, the resulting tool or material costs often make production a tightrope walk in economic terms. This makes the choice of the right tool all the more important. The new Leitz solution offers users several possibilities to optimally coordinate their tooling requirements.

With the LeitzXPert concept Leitz is convincingly demonstrating the combination of proven technologies and technical applications with new concepts. This resulted in a complete package that makes the digital workflow and thus the possible advantages of Industry 4.0 available to both, industrial customers and customers from small and medium-sized craft businesses. The Leitz App stands for more efficiency and productivity in production and absolute flexibility and transparency of upstream and downstream processes.

Components of LeitzXPert are solutions that partly already exist in their original form as proven “individual solution”. What is new is the creation of a uniform, digital service
Leitz at Ligna...

The LeitzXPress Button enables Leitz customers to contact Leitz quickly and easily at the touch of a button via an online interface.

The Leitz new products range at Ligna 2019 once again clearly focuses on customer benefits and the realizable added value for the users. Following the motto “Solutions in new dimensions”, the engineers from Oberkochen have clearly focused their new developments on increasing productivity, efficiency, flexibility as well as sustainability and quality in the end product of the customers. The trade fair appearance of the world market leader is rounded off by its trend-setting service approaches on the one hand and its forward-looking solutions in the field of digitisation and networking on the other – a complete range that sets standards.

Red oak renaissance

There has never been a better time to buy American red oak. That’s because it’s in plentiful supply, and is affordable

American Hardwood Export Council technical consultant Neil Summers acknowledges that both these positives for the overseas buyer are to some extent the consequences of a negative; the fact that China, as part of ongoing trade arm-wrestling with the US, last year imposed a 10% tariff on American hardwood imports.

The Chinese are by far the biggest buyers of US hard woods, with red oak, recently accounting for up to 60% of American exports. The tariff, which may be cranked as high as 25% when reviewed in early March, has resulted in many red oak seeking customers.

However, going into 2019 AHEC aims for price and availability to be far from the only attractions of the species on the South African market. Backed by the efforts of its
American hardwoods. Endless possibilities.

Architects and designers all over the world have embraced American hardwoods for the range of colours, grains and textures they offer, as well as for their consistency in grade, quality and supply and their sustainable credentials.

For more information visit www.americanhardwood.org
A red oak ... sawmill members themselves, it is focusing promotional and communications resources squarely on it.

It is working with designers, makers and furniture students to highlight red oak’s versatility, aesthetics and technical performance. The timber is being taken in new directions in terms of processing, finishing and end use and it will take centre stage at exhibitions. The marketing campaign will also feature showcase projects across the world, including last year’s massive use of red oak for flooring, acoustic cladding and glulam at the new European HQ of financial data and media colossus Bloomberg in London.

There will be a major stress on the species’ sustainability credentials too; the fact that it is America’s most prolific hardwood, with two cubic metres growing in the forest every second, and total growth exceeding harvest by 21 million-cubic-metres each year.

Summers doesn’t deny that Chinese tariffs pose a challenge for US hardwood mills. It has reduced prices with some sizes now 40% cheaper than the equivalent European wood. The price gap with American white oak has also widened.

“It is being thermo treated which, of course, makes it more durable, but also very attractive and a natural substitute for US ash if supply continues to decline due to the Emerald ash borer,” he said. “There is also a trend to painting oak kitchen furniture, which also logically opens the way to more use of red oak.”

Resistance of certain export markets – Europe, Australia, South Africa - to the species, Summers feels, has been to an extent down to inertia and conservatism.

“It’s more porous than white oak, so not suitable for barrels! But it machines just as well and finishes perhaps better, it bends more easily and takes treatment well for external use. It can also perfectly well substitute a species like meranti, with its similar density, permeability and grain.”

Among the red oak showcase projects this year, leading designer maker Sebastian Cox will be making a circular bar area for the Wallpaper magazine Handmade feature at the Milan furniture show.

“One of his innovations will be to force dye into the vessels of the wood under pressure,” said Summers.

Additionally, AHEC will be working with Polish furniture designer Tomek Rygalik on a red oak showpiece, which it hopes to bring to the London Design Festival, and it will also be challenging students at the Building Crafts College to fashion a table out of two cubic feet of the timber each. This project follows the success of AHEC’s design initiative with students at Ryecotewood Furniture Centre in Oxford last year.
Their challenge was to make a storage unit, also out of two cubic feet of red oak.

Consequently they steamed, bent, planed, turned, oiled and stained the timber, transforming it into everything from a coffee table with a miniature oriental garden under glass, to a shoe cabinet comprising painted woven red oak veneer strips.

Interestingly the students said they’d be happy to use the timber again, as did Michael Jones, project architect on the Bloomberg building at Foster+Partners – and it used 37,160m² of red oak for the flooring, 1,858m² for the panelling and 1,350m³ for the glulam.

AHEC is also currently working on plans for an entirely red oak installation at Denfair in Melbourne in June and is in discussions with one of South Africa’s leading furniture designers about a new collection of outdoor furniture in thermally-modified red oak to be launched at 100% Design SA in Johannesburg this August.

The next major European airing for US hardwoods generally and red oak in particular will be the Interzum show in Cologne in May. Here AHEC will feature red oak exclusively on its stand. The aim at the show will be for more visitors to discover the untapped potential of red oak, with the emphasis that there’s never been a better time to do it.

Piece by Mike Jeffree, courtesy of TTJ
Innovative. Creative. Inspiring. interzum 2019

From 21 to 24 May, interzum 2019 in Cologne brings together everything you need for real innovations and resounding market success: visionary technologies meet novel materials and innovative design. See over 1,800 suppliers from around 60 countries showcase the best ideas and the latest trends for the furniture industry, interior construction and mobile living environments. Extensive. Inspiring. At the top of its class

Only interzum provides such a comprehensive picture of the breadth of the global market – from fittings, glass elements and lighting to surfaces, wood-based materials and natural materials to leather, upholstery fabrics and production equipment for furniture fillings and mattresses. Key players, trendsetters and trailblazers travel from all over the world to shape the future. You too will find valuable new inspiration for the future of your business in Cologne.

Focusing on current issues affecting the industry International market and opinion leaders gather at the top-class events. Seize the opportunity to establish contact with renowned experts, discuss current issues and share knowledge.

Event highlights
Piazza in Hall 3.2: "Digitalization: Focus on Consumer Trends!"
Piazza in Hall 4.2: "Disruptive Materials"
Piazza in Hall 6: "Trends in Surfaces & Wood Design"
Piazza in Hall 10.1: "Mobile Spaces"
Hall 3.2: "Digital Printing"
More information at: interzum.com/piazza.

Boulevard and walkways between halls: "Interzum award"
Boulevard: "Tiny Spaces – Living in compact homes"
Boulevard: "60 years interzum"

It’s not only the trade fair that makes a visit to Cologne well worth the trip. As a city that is alive with art and culture, commerce and joie de vivre, this metropolis on the Rhine has a lot to offer, 24 hours a day. Step into the vibrant atmosphere of a global meeting point. Gain new inspiration – and leave your competitors behind.

GRASS Movement Systems

During the last few years GRASS showed positive results from the Interzum exhibitions, with visitors as well as trade partners enthusiastically welcoming the latest innovations and products that give designers endless freedom to design and create masterpieces

A globally successful group of companies, a fresh brand with tradition and an extraordinary diversity of perspectives – that’s GRASS in a nutshell. With over 1,800 employees at 18 locations and more than 200 distributors in 60 countries, GRASS ranks among the world’s leading specialists in movement systems. As development partner and systems supplier to the furniture industry, GRASS has been creating products which inspire its customers for over 70 years.

GRASS slide and drawer systems, hinge and flap systems are brand name products that move the furniture of prestigious brands.

With 69,000 visitors from 152 countries during Interzum 2017 surpassed all expectations. With these statistics, the exhibition has impressively demonstrated its position as a globally leading event. A positive aspect for GRASS is the fact that, these days, movement systems are recognised and used by the industry as a device for creating differentiation. As in previous years, one of the big themes at Interzum was the end customers’ demand for personal styling in their interiors. For furniture manufacturers this is one of the critical drivers of development. Therefore, at Interzum, customers are trying to find suppliers with innovative products that could support this trend.

All innovations launched during the 2017 Interzum exhibition showed positive sales growth over the past two years, including our new Tavinea Sorro interior accessory system, the closed H250 drawer of the Nova Pro Scala drawer system intended for design-conscious customers, the concealed Tiomos Hidden hinge and the Tipmatic Soft-close system for Dynapro and Novapro.

Interzum 2019 will be another spectacular opportunity to showcase our latest innovations and we look forward to welcome you, our industry partners to our stand in Hall 7.1.
TAVINEA SORTO INTERIOR ACCESSORY SYSTEM


Function, form and colour make the perfect match. Dimensional stability in steel: two frame units with slender 6 mm sections and one length divider create a structure that harmonises with Nova Pro Scala in material, form and colour.

Tavinea Sorto provides the systematic finishing touch to the new drawer generation Nova Pro Scala. No matter whether it’s in the kitchen, bathroom or living room, Tavinea Sorto organises every drawer with graphic elegance. A small number of elements are all it takes for Tavinea Sorto to offer maximum variability. Easy to insert and hygienically ideal to clean. Aesthetic design becomes a functional eye-catcher.

www.grass.eu
“Moving ideas”
Blum unveils new brand promise at interzum 2019 with innovative products and solutions

Listening to customers, exchanging ideas and developing products that meet their needs - that’s what Blum understands by “moving ideas”. Austrian manufacturer of fittings, Blum aspires to develop innovative ideas and enable customers to implement theirs - by working in partnership to meet challenges and needs. On more than 1,300 metres of newly designed exhibition space, Blum will unveil its new brand promise and present new products and inspirations for greater quality of living. The company will also take part in interzum’s special exhibition “Tiny Spaces - Living in Compact Homes”.

What are the furniture trends of the future? Can new ideas be implemented? And what is more important, what will customers get out of these ideas? These are the questions that manufacturer of fittings, Blum is interested in. Starting from customers’ needs, the long-established company works closely together with its customers to develop new ideas and solutions for greater quality of living. Blum observes global trends, conducts its own research and passes on findings to its customers, for new insights provide furniture makers with inspiration and ideas.

Blum will make the most of interzum in Cologne from 21 to 24 May 2019 to present unique products which underpin its new brand promise of “moving ideas”.

Developing ideas and realising them with Blum products
As a partner of the furniture industry, Blum will display its latest solutions in the field of lift, hinge and pull-out systems and present innovative assembly devices and services. Visitors can also look forward to a new product in the field of special solutions. How to create bespoke furniture, make optimal use of small and large living areas and inspire customers with surprising solutions - these are the questions that the Austrian company will answer at the trade show.

Festool’s 4-in-1 sanding options
Festool’s new portable sanding machine, the Rotex RO-90 DX-FEQ offers four devices in one

Woodworkers investing in the Festool RO-90 DX-FEQ will be able to perform jobs that require:

- coarse sanding
- fine sanding
- delta sanding
- polishing

And according to Vermont Sales, the Festool distributor in South Africa, that is not all the versatile tool is capable of.

Aided by its Rotex rotary motor and FastFix interface, the sanding or polishing round head pads can be exchanged with a triangular attachment that transforms the RO-90 into a delta sander. This makes quick work of sanding in corners. The Festool Protector allows the user to sand safely against abutting edges without the risk of kickback.

The FastFix sanding pad system is toolless for quick and easy changes that saves time and the user does not have to search...
for dropped or lost tools. The sanding pad brake prevents the sanding pad from turning upwards. This also prevents the surface from being scratched during sanding, which eliminates the need for rework.

The high-performance motor and its combination of eccentric and rotary motion remove significantly more material than a conventional random orbit sander. The durable eccentric bearings, double-sealed gear unit and the dustproof switch extend the service life of the machine.

The combined eccentric and rotational movements achieve a high rate of material removal in coarse sanding and an excellent degree of gloss when polishing high-gloss surfaces. Festool also makes a range of polishes and polishing sponges that produce gleaming results without heating the surface significantly and prevents the polish from clouding or spraying off. The RO-90 DX-FEQ can, like all Festool products, be hooked up to any of the Festool CT-series mobile dust extractor units. The efficient dust extraction using the Jetstream principle transports the dust directly to the CTL-SYS. The appliance socket with automatic switch-on/off activates the CTL-SYS as soon as the power tool is switched on.

Vermont Sales recommends this versatile power tool because it is four tools in one and it comes in the unique Systainer SYS2T-LOC holder. The design of the tool places the user’s hands in the ideal grip position and it only weighs 1.5kg. This package makes on-site work accessible, and cost-effective because there is less to carry, and it is quick and easy to use.

Contact Vermont Sales directly or your nearest Festool dealer to find out more about the Festool RO-90 DX-FEQ sander and its accessories.

Successful open days
The annual Vermont Sales open days were once again a huge hit for professional and hobbyist woodworkers. Visitors had the chance to meet Vermont sales’ international experts and local sales staff. The German power tool leader, Festool, had a huge display with new innovative models and upgraded units along with its recently launched ISC-240 cordless insulation saw.

Ed: More on the open days in the April issue.
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