

Put a Face to the Name



Terry Duff Contracts Manager.

After leaving the RNZAF after 7 years as a qualified aircraft mechanic working on a variety of engine and airframe maintenance tasks, Terry gained the position of Production Engineer with Simpson Appliances. His main focus in this role was undertaking production improvement projects. Then came a 12 year tenure with Lyttelton Engineering as Project

Engineer and Quality Manager. This encompassed project and contract management plus design work and estimating for a variety of fabrication projects for civil construction companies and industrial plants, among them materials handling jobs and 1 to 16MW boiler projects.

Terry holds a BE Hons (Mech), a NZCE (Mech) and is currently half way towards completing a Diploma of Technology Management. He is married with three young children.



Paul Kempt System TM Service Engineer

Paul joined SCE after an extremely varied career in a number of different sectors. After gaining trade qualifications in the printing industry he progressed to a production co-ordinator role for an international print marketing company, followed by over 10 years managing a small marketing business. On and off over the past two decades he has also been involved in

farming. Paul's engineering background includes heavy fabrication, fitting, machining & welding (he has held several tickets) and he is a competent CNC programmer and operator. He is married with four children.

MAXIMAC MOULDERS POPULAR DOWN SOUTH.

As exclusive Australasian agent for the Leadermac range of moulders, Southern Cross Engineering was pleased to complete two new installations recently in the South Island – one at Sutherland & Co. Ltd in Kaiapoi just outside Christchurch and City Forests of Dunedin.

Kevin Everest, SCE's Leadermac Product Manager, sat down with both parties to jointly discuss machine specifications which would best suit their individual requirements. In general this process has proved to be invaluable in establishing optimum cost/performance parameters. In the face of exorbitant European pricing, some customers have felt the need to down-spec their expectations to meet budget considerations. However in most cases SCE's competitive edge has enabled them to get to take delivery of exactly the machine they want at the price they can afford with absolutely no compromise.

Originally the company was asked by Sutherlands to quote for a new Hypermac 6-spindle 623, but ultimately supplied and installed a new Maximac for the same price, resulting in a saving of around \$30,000. This top-of-the-line 300mm wide 6 head machine features straight jointing on vertical and horizontal spindles and has a feed speed of up to 36m/min. Also included in this contract was a new Wadkin Grinder package including the new NNV 300 combo version especially specified for Australasian requirements.

Further south, City Forests Limited, a trading enterprise of the Dunedin City Council, who owns and manages approximately 15,400ha of plantation forest in Otago, ordered a 230mm Leadermac Speedmac for their new greenfields site which is due to start operation shortly. After assessing their needs, SCE suggested an upgrade to a purpose-built, dedicated 300mm wide Maximac. This 7 head machine incorporates both profile and straight knife jointers. With the bulk of City Forests production focused on supplying the domestic and export board and mouldings markets, they also required a new filleting and defilleting handling line plus a new Wadkin Grinder and grinding room equipment. SCE was able to supply all their needs, with the substantial installation and commissioning being undertaken by an SCE service technician. Wood Processing Manager, John Speirs, is extremely positive about the final result. "We were very happy with the whole Leadermac commissioning process. SCE's Daniel Coombes even remained on site to ensure that our machinist was completely confident and up-to-speed on all aspects of operating the new Maximac."



EXCLUSIVE SICAM SYSTEMS AGENCY PROVING VALUABLE ADDITION.



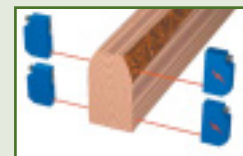
SiCam System Corp of Canada is internationally recognised as pioneers and leaders in the field of real-time, on-line timber saw monitoring technologies. Their technical expertise covers areas such as bandsaw deflection monitoring, timber size control and sawing centre predictive maintenance. Recently Southern Cross Engineering entered into a partnership agreement for the exclusive Australasian agency covering this range of advanced equipment. Keen interest has been shown by key industry players. The most comprehensive installations SiCam Systems has completed 'down under' are at Carter Holt Harvey's Mount Gambier and Morwell sawmills in Australia. The system is currently running at over 25 individual sites in North America and Australasia.

On-line measurement is a tool to help optimise mill processes. SiCam RealTime systems deliver increased green fibre recovery, grade out-turn and machine uptime. When every saw cut or shaving has the potential to contribute towards maximised returns, it is small wonder that this new technology is attracting a lot of interest worldwide. But it is also a valuable tool in terms of staff resources. Repetitive manual checking, measuring, reporting and adjustment can be time-intensive and can result in production downtime. Once installed and calibrated, SiCam systems are virtually infallible in terms of reliability. With all the benefits combined, this technology generally delivers a payback of 6 months or less.

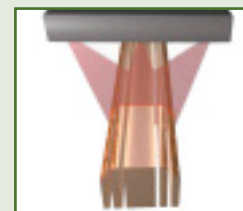
CCH Mount Gambier Operations Manager Michael Thomas said "Being the best in timber size control and gaining the related recovery, grade outturn and production improvements that are available in our mill is critical to ongoing success. We understand that real-time timber size control is a cornerstone technology for today's competitive sawmill and we wanted to be a leader to gain that competitive advantage."

The SiCam system uses various state-of-the-art laser-based scanning systems to monitor production at critical points in a mill's operation. Information from these scanners gives key feedback on the 'health' of the machinery and production process. Single or multiple pieces scanning is no problem. The technology can be adapted to apply in almost all situations and industries where size control is a key function.

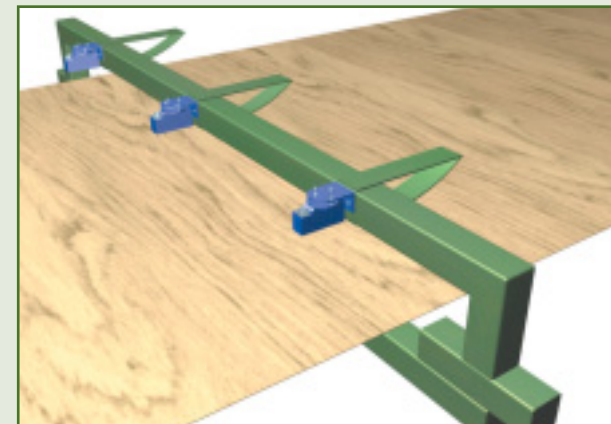
Full on-site training covering usage, maintenance and safety is standard with supply, install and commissioning support services.



An example of two lineal scan zones with 4 LRS Lasers



One lineal scan zone with 1 top view MPP scanner.



The SiCam™ Veneer and Panel Thickness Gauge is typically installed in a six laser (3 top and bottom), differential, three zone configuration.



SCE's dedicated in-house Leadermac technician Daniel Coombes (right) stands beside Owen Jenkin, head machine operator at Whillands Sawmill in Victoria. Danny oversaw this installation featuring a 6-head plus universal Leadermac Hypermac moulder. Whillands produces a range of assorted hardwood products, including structural flooring.

SCE SORTS MECHANICAL HANDLING SOLUTION FOR AKD SOFTWOODS.

Southern Cross Engineering of New Zealand won the contract to design, manufacture, install and commission a new integrated Multi Saw Trimmer and Sling Sorter system for the AKD Softwoods sawmill at Colac, Victoria. This NZ\$4 million turnkey project took around 6 months to complete, and was installed within deadline and on budget. All fabrication was undertaken at SCE's own manufacturing facility in Christchurch, and shipped to the site ready for assembly.



View of Sling Sorter from the infeed perspective.

The new system eliminates much of the difficult and sometimes dangerous tasks of manually handling the lumber exiting the sawmill, which was previously sorted on a single round table. Now the whole process is mechanically focused and can accommodate sizes of up to 200mm x 150mm x 6000mm and 300mm x 100mm x 6000mm. It starts with a timber unscrambler through lug loader then enters a shark fin grading section. Next timber passes through a sensing zone where the

timber is scanned for grade and also length and thickness before passing through the multi saw trimmer and being cut to pre-programmed lengths in 300mm increments. It then enters the sling sorter area. The AKD multi saw trimmer has the distinction of being the heaviest in the Southern Hemisphere, capable of cutting 160mm deep and can produce up to 50 pieces per minute. Each of the 40 sling sorter bays can hold an impressive 12,000kg.



Part of the impressive 40 bay Sling Sorter under construction.



Each of these 40 sling sorter bays can hold an impressive 12,000kg.

AKD Softwoods CEO John Hayden said, "I was very pleased with the outcome of the project. The commissioning of the sorter was done with a minimum of disruption to production and Southern Cross Engineering staff were very responsive to any concerns we had during construction and commissioning. The increased productivity, elimination of manual handling and better trim solutions is now evident in the increased performance of our large log mill at Colac."



NEW WADKIN GRINDER DELIVERS FASTER SET UP.

Ask Steven Schiffke about the new Wadkin Visage NNV Profile Grinder which Southern Cross Engineering supplied to his sawmill recently, and you'll get a very enthusiastic response.



"This new machine is so much faster and easier to set up and includes many new advanced features, says Steven. "For example there is no need for a straight knife template as this is now done through the linear bearings, which is a much more accurate, easier and faster way to change from the straight knife profile and back again. There's also a better wheel dressing unit, not

available with our previous NV model which was about eight years old. It is simple to use, highly accurate and has helped up our productivity performance." Darrin Milnes of SCE Australia traded Schiffke Sawmills' existing machine for the new profile grinding centre.

The Wadkin Visage NNV is a single head profile grinder which features high precision linear bearings, heavy duty arbor bearings and supports, a tungsten carbide tool rest, a quick adjusting stylus and Wadkin's unique and easy to use diamond dresser assembly which ensures that the knife is always at the correct datum point (so critical in achieving accurate grinding and repeatability). It has a full 300mmx350mm grinding capacity and achieves the same high levels of accuracy to be found on fully automatic machines.

There are over 260 Wadkin grinders in use in the Australian and New Zealand markets. Other current models include the simple-to-use and highly productive Silhouette which combines profile grinding, solid profile cutter resharpening and straight knife grinding operations in one machine. Central to the design of the Silhouette is a twin grinding head which enables extremely fast changes from profile to straight knife grinding or solid profile cutter resharpening. The NZ 300 is a fully automatic straight knife grinder that gives long-term grinding accuracy for the toolroom whilst reducing the need for cutter resharpening. Simple to operate and truly automatic, the NZ 300 incorporates many time saving features which allow the operator to "set and forget".

SCE not only supplies the product, but also professionally installs them and provides instruction on their use. Every new machine comes with a full 12 months warranty plus the company offers full back up support plus on-going service contract options.



New Stenner ST80 stand alone bandsaw.

Stenner released its new ST80 bandsaw at the international Ligna show in May 2005 which features all the advanced attributes the industry has come to expect from this high profile manufacturer.

The saw is targeted for the smaller remanufacturing plants, including joinery and pallet manufacturers. The ST80 is a stand alone unit with no requirement for a pit, and merely needs only power and air supply to be ready for production.



ST80 bandsaw

The saw pulleys are 850mm diameter and will carry an 80 mm wide sawblade (disposable or stellite), with thin kerf being paramount to the efficiency of the machine.

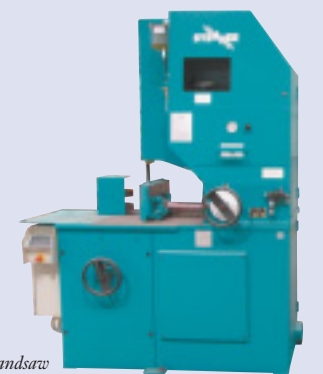
The pneumatic saw straining and the pressure sawguide system makes operator set up fast and easy. Variable feed speeds range from 5-60 m/min and the machine is completely interlocked with DC braking to fully satisfy safety requirements.

Doug Shopland from Stenner said "We are pleased to offer the industry a cost effective machine with all the qualities that have given Stenner a reliable name in the timber industry for over 100 years".

Southern Cross Engineering took delivery of the first shipment of new machines last September which are available for demonstration to prospective customers.

Another new product from Stenner is the high strain, stand alone ST100r which is particularly suited to the flooring market or specialised niche industries such as musical instrument production. The high strain saws gives an extremely accurate cut with a very smooth finish.

"We expect both the ST80 and ST100r to complement the other popular bandsaws and horizontal resaws in our high-volume selling Stenner range", says SCE Australia's Scott Dixon.



ST100r bandsaw