

Integrated

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Integrated Systems Design Limited are specialists in sawmill process automation, offering total network solutions to meet the immediate and future needs of your business.



Based in Rotorua, New Zealand we have been involved in the timber processing industry for over 38 years, operating extensively throughout the South Pacific regions.

Our skilled and dedicated team will design, manufacture, install and commission a total automation package, with a commitment to offering all our customers the best of service and quality in workmanship in all that we endeavor to do.

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OSCAR™

by Ciris Engineering



Oscar by Ciris Engineering is an optimiser for log-carriage type headrigs.

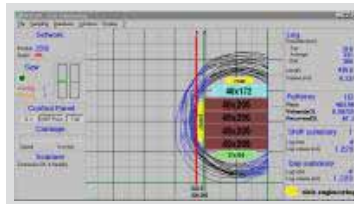
Based on the latest true shape technologies, Oscar measures logs with a high degree of accuracy, calculates the optimal opening face and the best sawing pattern, then positions wood at full speed before entering the cut.

The precision and the regularity of the solutions provided by Oscar make it possible to increase yield, productivity and value of every log cut.

Regardless of the species or equipment used, Oscar is easy to install and operate. Oscar will provide better basic data which will improve production management.

Oscars Features:

- Industrial-strength laser-based scanner heads
- Real-time optimisation
- Touch-screen for user interface and 17" LCD flat screen, located near or within operator console
- Optional log scaling
- Saw blade deviation display and recording



Optimisation Operation:

- Once a log has been dogged, the carriage starts moving toward the saw. Scanner heads take real-shape measurement of front face as the carriage is moving.
- Carriage is set so that desired opening face is obtained very accurately and with very high repeatability.
- Cutting pattern is shown on screen, and display is adjusted as further cuts are made. Oscar connects to existing Networks so that the operator does not have to perform sets.
- Optimisation and carriage knee positioning takes place before the leading end of the log arrives in the saw.

Benefits of an OSCAR log carriage optimiser:

- Is well adapted for all kinds of solutions, Hardwood or softwood.
- Optimises all types of sawing patterns
- Increases recovery
- Increases profitability
- Improve speed of production
- Reduces production costs
- Decreases chance of human error
- Personnel training made easier



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Process Automation



Integrated Systems Design Limited are specialists in sawmill automation and offer a total solution that enhances production.

- Complete new system upgrades
- Retrofit upgrade into existing systems
- Pre-designed packages
- Designed to be flexible for systems alterations and upgrades (on site or via modem)
- Custom designs
 - for site or one off operations
 - machinery
 - operator consoles

Electrical Engineering



Integrated Systems Design Limited have been involved in the industrial and commercial electrical field for over 38 years.

- Hydro electric dam service contracts
- Timber mill maintenance and service contracts
- Project installation
 - Log spray systems
 - Timber kiln wiring and control
 - Boiler fuel handling
 - Carriage setworks
 - Quarry rock cutters
 - Spring roll forming machines
 - Heavy trailer manufacturing workshops
 - Fuel pellet manufacture

Integrated Systems Design Limited is committed to high levels of quality control and performance. Site standards are always kept or improved over the length of our projects and installations.

Switchgear Manufacturing



Integrated Systems Design Limited specialise in the design and building of:

- Control Consoles
- PLC Panels
- Motor Control Centers
- Mains Distribution Boards

Integrated Systems Design Limited also has extensive knowledge in the modification and upgrading of switching panels.

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Energy Management



Energy management requires a detailed understanding of existing load and utilisation to determine if energy cost savings can be made.

Integrated Systems Design Limited offers a comprehensive range of energy analyses and cost saving solutions.

We are yet to discover an industrial / commercial site where significant energy cost savings cannot be made.



Products



Integrated Systems Design Limited is the agent for numerous products with specialist applications.

- Ciris Engineering
 - Oscar true shape log optimiser
 - Agents for New Zealand and Australia
- Merlin Moisture Meters
 - Exclusive from Merlin Technologies in Germany
- 3-D Scanners:
 - New Zealand suppliers for LMI scanners
- Citect Scada
- Lacey Harmer laser products
- Power Outlet Units:
 - I-Beam mounted to wall mounted units
 - three phase and single phase power outlets
 - circuit breakers to suit
 - Custom design and built to clients specific operation or needs.
- Cyber-Tech operator console hand pieces



Integrated Systems Design Limited will supply, service, install and train on each range of product.