

Manufacturing Efficiency



Manufacturing Efficiency

The Complete **COMPANY-HUB** Software System

C21 is a highly innovative, modular software suite designed to substantially improve work-flow, performance and profit across a wide range of industries.

O<mark>ur</mark> software modules can be used individually. However, if multiple modules are utilised then a C21 'Site HUB' can be created, delivering 'Live', dashboard driven insights to your whole operation.

Multiple sites can also be linked to create a C21 'Group HUB' with inter-site analysis of your whole operation at a glance, right at your fingertips via PC, iPhone, iPad or Android devices.

Each module has advanced features, many of which cannot be found on other software solutions.

C21 Systems believe that a great system is build around the 'end user' experience. From shop floor to boardroom, C21 has a very strong user focus right from the very core of design.

A complete system which people actually enjoy using everyday.

Such a concept generates efficiency which re-generates throughout the entire working environment.

C21 Systems' client base is rapidly expanding throughout Australia and New Zealand as more and more companies realise how a software system should perform - for them!

Easy, Simple, Live, Fast, Powerful but ultimately a system made for the user, whatever their role may be.

Available Modules are briefly listed overleaf.

Call C21 Systems or visit our website for further information.



Introducing our new 'Plug and Play' Live Data-Capture Unit.

'Live' Production Capture and Analysis has never been easier. Simply plug your own sensors or contacts into our unit for instant / Live monitoring and analysis of whatever aspects you desire, all sent through it's own 4G or Wi-Fi connection. It can also capture Analogue signals or gather your data from an existing PLC. See your operation running Live with full Analysis, Tracking and Trending via



Browser Dashboards or our Smart-Phone Apps. Yet another great innovation from C21 Systems.

Production Analysis

With C21 at your fingertips, all Performance Data is just a click away, wherever you are located. C21 can also link all sites across your organisation to give great inter-site (Group) analysis too.







Inventory Control

The future of Inventory Control is here! Modern, Powerful, Highly Efficient yet Simple and Easy to use, which is the C21 core ethos.



Photo-Navigation

Locate Machinery Parts by 'virtually navigating' your machinery, opening guards, removing pieces, exploding assemblies all on a mouse click.

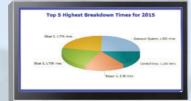




C21 TV

A new and exciting communications concept. Broadcast live, dynamic company information, performance charts, messages, stats, directly to your employees, clients or customers anywhere across the globe.





Machinery Breakdown Analysis

Record, Analyse and Display all Unplanned Stoppages throughout your entire operation.

Successful Maintenance can be acknowledged as your Breakdown Trends reduce and your Efficiencies begin to soar.





Planned Maintenance (CMMS)

Using the latest programming technologies, C21 provides fast, highly effective solutions for your everyday Maintenance Planning activities.

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Knowledge Module

An Electronic Knowledge Vault to store useful information with easy access for your employees. Risk Assessments, Machine Settings, Drawings etc. Also Video-Enabled to bring your procedures to life!



Automatic Purchasing & Delivery System

APDS is a super-efficient delivery add-on for the C21 Inventory Control Module.

We can monitor your Inventory, order and deliver your items for you, directly into your stores area.





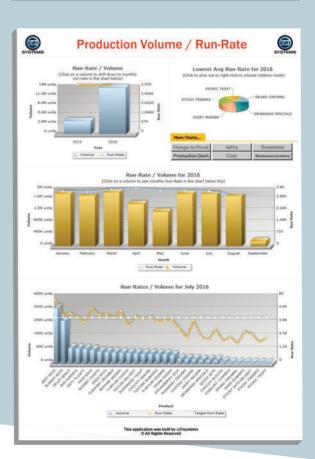
Manufacturing Information System



With the C21 MIS at your fingertips, all Performance Data is just a click away, wherever you are based. C21 can harvest this data with it's own systems or interface with your existing ERP system, giving you all kinds of great dashboards and interfaces. C21 is Cloud Based, meaning these reports are available anywhere across the globe. Whether checking production from Home, or in your Factory Meetings, or on screen in your Director's Boardroom.

And remember, C21 can link all sites across your group to give great cross-site (Group) dashboards too.

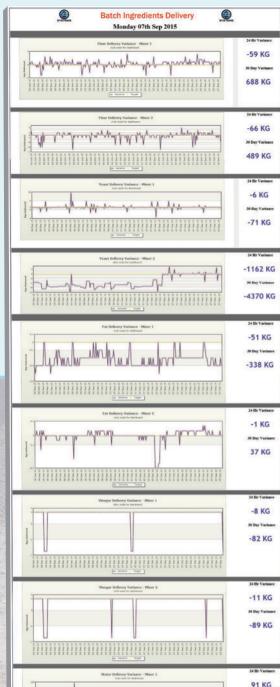




Some examples of Waste Product Tracking.



This Application was built by C21 Systems - www.c21systems.com.a All Rights Reserved

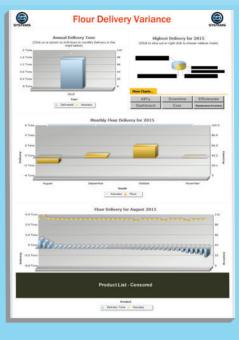


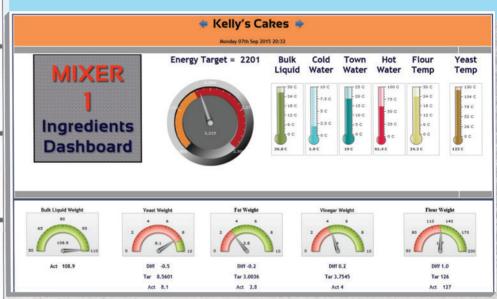
C21 Data-Logger for MIS

The C21 Data-Logger can be utilised to capture all kinds of live data, to create great, interactive dashboards. For example, Batch Ingredients Delivery can be trended. When referencing this against your

Recipe Expected Delivery, we can trace material give-away for the whole year, tracking give-away by product down to each individual mix.

Also, if a bad batch is produced then we can recall the batch dashboard of all weights, temperatures, energy used etc. to establish the cause of the problem. This is great for Quality Assurance too. C21's flexibility can be adapted to suit almost any type of operation.





Available Mödules

Manufacturing Information System

- Machinery Breakdown Analysis
- Planned Maintenance 44333 KG
- Inventory Control
- Photo-Navigation
- C21 TV
- Knowledge Module

Automatic Purchasing & Delivery System (APDS)







Machinery Analysis Module

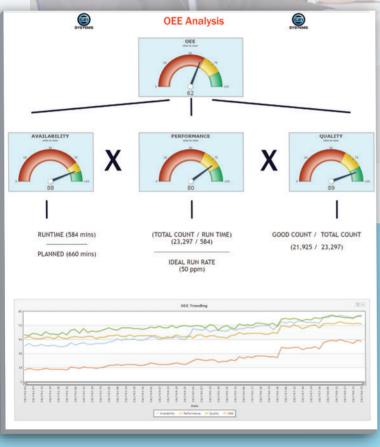


C2I's **Machinery Analysis** is a module for recording, analysing and displaying Unplanned Stoppages for your entire Production/Processing Machinery. Presented through extremely user friendly interfaces, the module gives live, instant, dynamic, graphical displays of all issues past and present. Identifying problematic machinery is as simple as point and click. Successful Maintenance can be identified as your Breakdown Trends reduce and your Efficiencies begin to soar. Data can be captured very easily with the C21 Instant Analysis unit.

This is a 'Plug & Play' device which can utilise it's own sensors or read from existing sensors, relays or PLC devices.

Advanced analysis is presented 'live' with full **Utilisation** and **OEE** Tracking. Alternatively, your Maintenance Crew can record Breakdowns live via the C21 iPad/ iPhone Apps as they work.

This method is both none intrusive and covers plant outside of the production areas.







A great feature of C21 is how each of your machines are given their own dynamically generated 'Home Page'. All information regarding your machine is available from here. This includes:

- Pie chart of the machine's Top 5 'Worst Faults' .
- Maintenance Logbook All entries from the log for this machine. Fully Searchable.
- Machine Breakdown Stoppage charts fully interactive and drill-able charting, taking you further
- into the machines problems with interactive tracking of all problems. - Unplanned Maintenance charting for this machine.
- Again, with drill-able dashboards.
- 'Breakdowns VS Planned Maintenance' charting. Instantly see if your machine is receiving an adequate Planned Maintenance allocation.
- Photo-Navigation. An innovative C21 feature to 'Virtually Browse' your machine (see other modules).
- Machine Spares List. Auto-Generated from Photo-Navigation.
- PM Readings with full tracking and trending of all measurements.
- Information Section Store Drawings, SOP's, Settings etc. Every machine has its own area.



Many interfaces are included with the Machinery Analysis Module. These show live and current data, accessible anywhere across the globe.



Available Modules

- Production Analysis System
- Machinery Breakdown Analysis
- Planned Maintenance
- Inventory Control
- Photo-Navigation
- C21 TV
- Knowledge Module
- Automatic Purchasing & Delivery System (APDS)



Planned Maintenance Module



C21 is a highly efficient solution to planning, capturing and analysing your everyday and long-term Maintenance Tasks.

Using the latest programming technologies, C21 is able to increase work-flow and efficiencies within

your Maintenance Department whilst keeping your system extremely user-friendly and popular to use.

The C21 Apple & Android Apps give your operation full flexibility to maintain and report upon equipment 'live' from anywhere on-site, remotely or multi-site.

Our built-in analysis algorithms will notify your managers instantly if a machine is found to be running out of spec, all without your crew having to analyse any data themselves. Your Managers will also have a 'live' running of where your crews are with their daily tasks and the ability to adjust their quota on the go.

Your crew will sign off their own tasks electronically. With our Apps, your managers can also see all issues your site is having as it happens with full details of who and how long your crew have been with the issue.

Fast, Efficient Modern Maintenance

- Slick, calendar style scheduling for PM Tasks and Crew Rosters.
- Easy task assigning with 'Crew On Shift' indicators.
- Colour Changes for 'Quota Reached' and 'Quota Exceeded' for each crew member.
- Over-Due task management with easy re-assign.
- Easy management and tracking of Work Requests.
- Live tracking of task completion.
- Live / remote assigning of new tasks.
- Ability to remotely manage multi-sites / multi-crews from any location.





Crew Home Page

Your crew can now work completely within the digital-domain.

- Tasks are sent direct to their Tablet or PC Terminal with full task details.
- Measurements such as Temperature, Amps, Resistance, Chain Wear, Vibration, Noise, in fact anything can be entered directly into their Tablet or PC.

Your crew will not need to analyse any measurements taken because this is done autonomously from within C21.

Any 'out-of-spec' measurements will be instantly recognised by C21 and your crew will be alerted, potentially capturing an imminent breakdown before it happens.

- Also, if a crew member reports any 'Further Work Required' during a Task, C21 will automatically generate a new Work Request for them.
- Your crew can view and manage their own Tasks and Performance Stats via their own 'Home Page', of which every crew member has their own.
- Photographs to illustrate anything, such as machine problems can be taken with the App and are included in their reports.

Machine Home Page

A great feature of C21 is how each of your machines are given their own dynamically generated 'Home Page'.

All information regarding your machine is available from here. This includes:

- Pie chart of the machine's Top 5 'Worst Faults' .
- Maintenance Logbook All entries from the log for this machine. Fully Searchable.
- Machine Breakdown Stoppage charts fully interactive and drill-able charting, taking you further into the machines problems with interactive tracking of all problems.
- Unplanned Maintenance charting for this machine. Again, with drill-able dashboards.
- 'Breakdowns VS Planned Maintenance' charting. Instantly see if your machine is receiving an adequate Planned Maintenance allocation.
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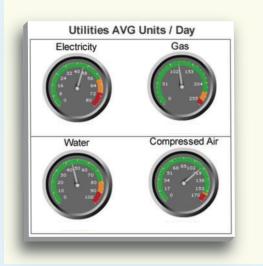




Utilities can also be tracked by entering meter readings.

C21 trends the total usage and also calculates your **'average daily'** consumption.

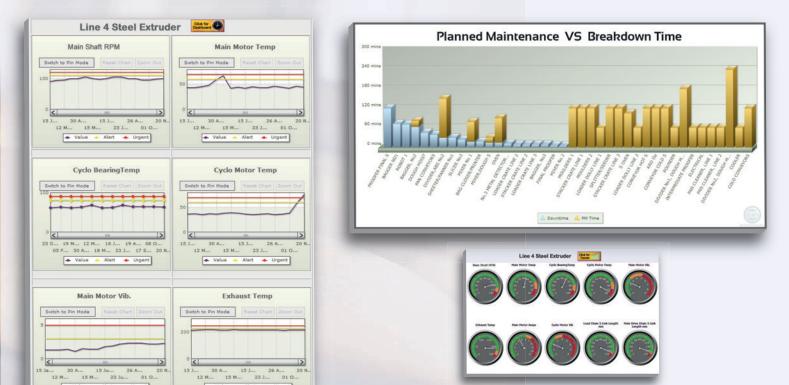
Again, alarm triggers warn if daily usage runs high.





Live / Dynamic Reporting

- Full Dashboard Driven / Interactive Charting & Reporting with a firm focus upon the stats that really matter and advanced analysis to continually improve your plant.
- Full reporting of crew allocation, completion rates etc.
- Full reporting of PM Effectiveness.
- Live tracking of crew daily task status.
- PM vs Breakdown tracking for every machine.
- Full OEE reporting and tracking also available through the C21 Machinery Analysis module.



Paper Maintenance Logbooks are now a thing of the past.

As your database builds, the more powerful and valuable it becomes.

C21's on-board **Electronic Logbook** stores all Maintenance entries as they happen.

The Logbook is also on our App, giving your Managers the ability to see any issues your site has experienced whilst away from site. A good 'heads up' before arriving at site too.

The logbook's entire history is searchable.

Solutions to problems previously encountered can be easily recalled should the same problem re-occur, sharing the knowledge between all of your crew.





There are many more advanced features on-board the C21 Maintenance Module.

The Maintenance Module will also interface seamlessly with other C21 Modules.

C21 can also interface with many other software systems to bring your entire operation or group into a single, central HUB.



Contact C21 Systems for more information.





Inventory Control Module



The **C21 Inventory Control Module** has been designed, developed and constantly updated to be the best inventory system available.

An efficient inventory must be very smart whilst being incredibly easy to use.

Item locating and issuing must be as fast and easy as possible.

This is important to maintain accurate stock levels.

A fully 'live', electronic, paper-free system which is a pleasure to use.

With C21 a fast Return On Investment is guaranteed through greater plant utilisation and more efficient stock levels.

Reliability Tracking of machinery items is also on-board.

Implementation and Maintenance is fast and easy with the use of our C21 Inventory Apps for Apple and Android devices. Items can be photographed and added to your system in less than one minute.

C21 has developed an **advanced search engine** to cover any type of search criteria.

The Internet Style **'Super Search'** allows you to type any criteria, spare codes, OEM codes etc, which predictively calls up a list of items matching your inputs, narrowing down as you type. Search results show a **description** plus **information** and **photograph** of your items for fast and easy **identification**.

Items can be instantly issued on screen, or via iPhone App, or by using one of our **wireless**, hand-held scanners. Your database is **instantly updated**, automatically adjusting stock levels live.

Multiple sites can be linked to reduce stock-holding.













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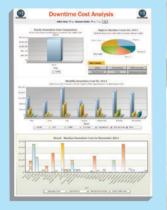
When dealing with **multiple departments** or **multiple contractors**, for instance at a mining site, you will use the **Sub-Inventory** feature. This creates a central inventory system but with the ability to issue items to contractors or other departments. The contractors then have their own **C21 Sub-Inventory**. You can then manage your central inventory by itself or include your contractors Sub-Inventories to manage your entire stock across the board.

A great feature is the C21 iPhone / Android App. This provides remote, in-situ searching of your stores. Find the item you need whilst still at the machine. The App also has an in-built scanner to easily scan the item from of the stores.



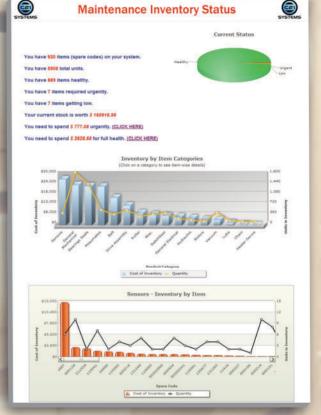


Cost Analysis linking Inventory to Machinery



C21's **Photo-Navigation** module makes finding parts even easier.







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Available Modules

- Production Analysis
- Machinery Breakdown Analysis
- Planned Maintenance
- Inventory Control
- Photo-Navigation
- C21 TV
- Knowledge Module
- Automatic Purchasing & Delivery System (APDS)

Call:



C21 Systems: PO Box 827, Canning Bridge, Applecross, Western Australia, 6153. ABN: 47 618 311 425

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www.c21systems.com.au



Photo-Navigation Module

Photo-Navigation is another module which sets C21 apart.

Finding spare parts for machinery is often frustrating, time consuming and in the event of a machine breakdown, costly.

C21's Photo-Navigation makes this process simple and easy.

Spare parts are found by **'virtually navigating'** your machinery, opening guards, removing pieces, exploding assemblies, all on a mouse click.

Your items are then identified with their exact location within your stores system being displayed. Even non-technical employees can find and fetch a machine part whilst your technicians concentrate on removing the faulty part, saving time and money every time.

This is also great for locating items within Hazardous Areas and Electrical Panels where the machinery would typically need to be stopped or a permit issued.

Your **Operational Efficiencies** and **OEE** will be instantly and positively impacted!

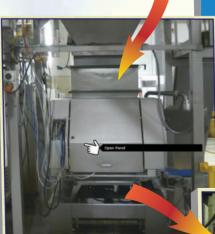


Photo-Navigation is available from your **'Machine Home'** page.

Every machine within your plant will have it's own home page where all aspects of your machine can be found including Reliability Tracking, Maintenance Logs, Maintenance Readings, Spares Lists, Photo-Navigation, Machine Drawings, Machine Settings, Operation Manuals, SOP's etc.



Simply select your machine from your dynamic list.



'Virtually' browse your machine. Click to Move Around or Open Guards.



Click to drill further into your machine.



Photo-Nav is dynamically linked to your C21 Inventory System.

As your mouse passes any item stored within your inventory it will be instantly displayed with a photograph and description.

Click on any item for a detailed view including further options.



A **Full Spares List** for your machine is also automatically generated from photo-nav with 'live' stock level reporting at the click of a mouse.

Photo-Navigation is also a great training aid for new members of your Maintenance Crew. They are able to look around your machinery without even opening their tool bag!

And the best bit...

Photo-Navigation can be installed very easily with C21's custom installation technique. What's more, multiple machines of the same type need only be processed once to share across all similar machinery.



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Knowledge Module



C2I's **Knowledge Module** is the place to store and retrieve important information about your plant and equipment.

Whether it's **Risk Assessments, Method Statements, Machine Settings, Machine Drawings** or **Inverter Parameters, the Knowledge Module is your central information store**.

Every machine within your operation also has it's own **'Home Page'** which is also linked to your knowlege module. All aspects of every machine can be found from here including Reliability Tracking, Maintenance Logs, Maintenanace Readings, Spares Lists, Photo-Navigation, Machine Drawings, Machine Settings, Operation Manuals, SOP's etc.

What really brings the Knowledge Module to life is it's video capability. **Training Videos** can be made to demonstrate **correct maintenance techniques**, correct methods of machinery set-up or complete **Video Method Statements** of irregular maintenance tasks, giving the opportunity for the maintenance team to watch a video walk-through of any particular task before they commence work. Simply upload your video direct to your Knowledge

Your videos will set your **standards** and a **benchmark** to everyone of how to do these tasks correctly. Brain-Storming your Maintenance Crews opinions before shooting a video is a great way of finding peoples own methods which could be beneficial to everyone once the video has been completed.

Other useful video presentations can include: • Plant Operations Overview, a videovwalk-through of your plant and it's processes, great for newcomers.

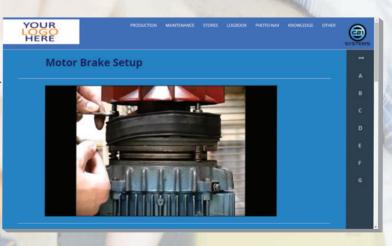
Site Induction Videos.

Vault for future reference.

• Safe Working Videos.

Or any such video presentations usefull to your specific operations.







Electric Current Electricity and Electric Charge

Formulas and calculations •

The relationship between Electrical voltage V, amperage I, resistivity R, impedance Z, wattage P

The nominal impedance $\overline{Z}=4,8,$ and 16 ohms (loudspeakers) is often assumed as resistance R. Ohm's twe equation (formula): $V=I\times R$ and the power law equation (formula): $P=I\times V.$ Per power, I or J= takes: inflam: inframe informational amounts or inframity and R-resistance. V= voltage, electric potential difference or E= electro motive force (EMF = voltage).

Voltage or volts E or V =		volts V
Amperage or current I =		amperes, amps A
Resistivity or resistance R = Wattage or power P =		ohms Ω watts W
For R take impedance Z	calculate	reset
Fundamentals: Electric La	ws - Formul	ary – Equations
Formula wheel	Impor	ant formulas
Electrical engineering laws		c engineering laws
P = power	V=	voltage
112		
V V	R×I/	
$P \times I^2 \frac{V}{R}$	$\frac{R \times I}{P}$	
$R \times I^2 \frac{V}{R}$	$\frac{R \times I}{\frac{P}{I}}$	
$R \times I^{2} \frac{V}{R}$ $V \times I \frac{V}{P}$	$\frac{P}{I}$	
V×I P	T P	
	$\frac{P}{I}$	V I
V×I P	$\frac{P}{I}$	V I

Included in the module is our **Engineering Calculations** area.

This training area explains how various Engineering Calculations are derived as well as many formula calculators to test your theories.

This section is a great tool for apprentices and is also popular with seasoned technicians.



Any important **machine settings** eg Motor Inverter Settings can be entered and recalled from the Knowledge Module.

No more 2+ hrs downtime to replace a blown inverter whilst your technicians figure out the lost settings.

No more damage to the machine because the new settings were incorrect.

Now the technician can **print** the correct settings from the Knowledge Module and dial them straight into the inverter.

Your machine will be back up to correct operating spec within minutes.

04 12 21

Available Modules

- Manufacturing Information System
- Machinery Breakdown Analysis
- Planned Maintenance
- Inventory Control
- Photo-Navigation
- C21 TV
- Knowledge Module
- Automatic Purchasing & Delivery System (APDS)

Call: 18



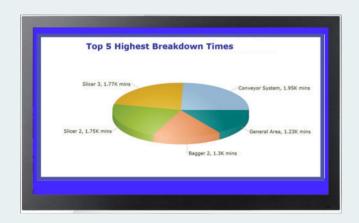
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Team Noel's Page 3



Team A Production and Slicing Team Stats Production Day 31/08 Production Efficiency = 66.84% Run rate per hour = 2408 Waste 2260 units 11.23% over all waste 19,841 units put through the divider 17,841 units sliced.

C21 TV is a new and exciting communications concept suitable for almost any industry.

Place large screen TV's around any of your company premises to stream live, dynamic company information, performance charts, messages, stats, directly to your employees, clients or customers, anywhere across the globe*.

Works Canteens, offices, reception areas, production areas, retail establishments are all ideal locations for C21 TV.

Enable your Business Managers and Directors to have regular conversation with their workforce thanks to the powerful in-built Content Management System (CMS).

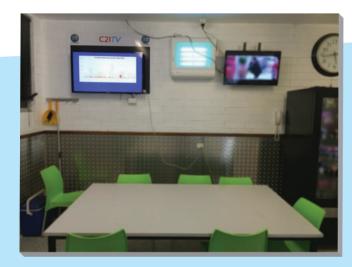
They can add messages, photographs, charts etc. From any internet enabled PC. Even from home. Their messages are beamed instantly to all sites globally, or can be site-specific if preferred.

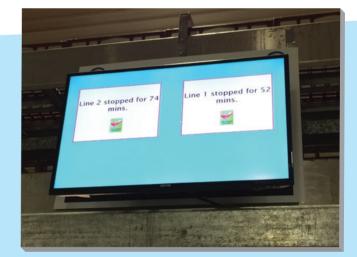
Dynamically driven performance charts can also be beamed automatically, live across your entire organisation.

Please visit our website for a video demonstration.









Available Modules

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www.c21systems.com.au

Call: 1800 04 12 21



C21 Automatic Purchase & Delivery System (APDS)

APDS is a super-efficient delivery add-on for the C21 Inventory Control Module.

APDS Key points:

- You have control of your entire database including trigger points, maximums etc.
- When new parts are required, C21 presents that order to you via a **'Shopping Cart'** style interface.
- Your Purchaser then reviews the list, adjusts quantities as required and accepts the order.
- C21 Systems will now **order** those items for you. Then, not only does our friendly delivery team personally **deliver** your items to your site, we also **re-fill** your stores with your fresh items and immediately **up-date** your inventory database.
- On your invoice you will notice a small percentage commission charge for this service.
- If you already have preferred suppliers then we can still use them on your behalf. Otherwise we have our own reliable suppliers available.

Either way, any cost savings on spares will be passed down to you.



18567	CYUNDER PISTON PUSHER DIVIDER BREAD	Current Stock 1 Supplier SMC	Min 1 Low 1 Max 2	Orser Gry 1 Change	s300.00 Each	\$300.00 Total	OrderNe
	Seniar Divider Searing.	Current Stock 1 Supplier 850 MOTION TECHOLOGIES	Min 1 Low 1 Max 8	Order Gty 7 Change	\$29.72 Each	\$208.04 Total	OrderNe
\$1533	AIRLINE GUN (MINUS NOZZLE)	Current Stock 2 Supplier SMC	Min 2 Low 3 Max 5	Order City 3 Change	\$33.28 Each	S99.84 Total	OrderNe
10122	BELT DAIVE CONVEYOR REJECT BREAD	Current Stock 1 Supplier Taemin	Min 2 Low 2 Max 5	Order Gty 4 Change	57.86 Each	S31.44 Total	OrderNe
21356	COUPLING PLEXIBLE LOVE-JOY 25-35-59555	Current Stock 2 Supplier SMC	Min 2 Low 2 Max 5	Order Gty 3 Change	\$11.36 Each	533.48 Total	OrderN
11439	BREAD LINE DOUGH CHECK WEIGH MIDPEED BELT	Current Stock 1 Supplier TASMAN BELTING	Min 1 Low 1 Max 2	Order Gty 1 Change	563.50 Each	563.50 Total	OrderN
21397	GASKET, KROIE DO- FLOW FEED SCREW BEARING HOUSING	Current Stock 0 Supplier SPX PLOW TECHNOLOGIES	Min 1 Low 1 Max 2	Order Gly 2 Change	520.39 Each	\$40.78 Total	OrderN



With APDS you can also select to have the **Emergency Parts Supply (EPS)** option. If you need a spare part in a hurry, like during a machine break down, you can call C21 Systems. We check all facilities on our EPS scheme to see if we can locate one from another site for you. If so, we will **collect & deliver** the item to you as soon as possible.

We will replenish wherever the part came from and you will be charged for the item. EPS is totally **anonymous**. You will not be told where the part came from or even who is in the EPS scheme.

EPS is a two way street. We may need to borrow an item from you for somebody else, but we will always ask first before removing any items.

EPS is optional and free to join, but a premium is charged should you need to use it.

The advantages of using C21's APDS module are clear.

- Your purchaser's work load is massively reduced.
- Your stores are kept healthy and efficient.
- Newly delivered items no longer sit around waiting to be entered into the stores.
- Rolling stock-take means higher inventory efficiency.
- Possibility of **cheaper spares** when using C21's suppliers.
- Emergency parts supply (EPS).

Available Modules

- Manufacturing Information System
- Machinery Breakdown Analysis
- Planned Maintenance
- Inventory Control
- Photo-Navigation
- C21 TV
- Knowledge Module
- Automatic Purchasing & Delivery System (APDS)



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