

ns-cmms

Computerized Maintenance Management System



NICK'S SOFTWARE

cmms

NS-CMMS Design

- ▶ *NS-CMMS* was built using modern development technologies HTML5, Bootstrap, PHP, Java and MySQL to name a few
- ▶ *NS-CMMS* is delivered as a browser based application and it doesn't require any software installation for the end user
- ▶ *NS-CMMS* has been developed using responsive design, meaning it fits perfectly on any screen size of any device – mobile, tablet or desktop

ns-CMMS Features

- ▶ Asset Management
 - Asset Register
 - Asset Documentation Register
 - Keys Register
 - Passwords Manager
- ▶ Spare Parts Management
 - Spares inventory control, locations, where used
 - Supplier details and ordering details
- ▶ Work Order Management
 - System schedules PM and Calibration WO automatically based on PM and calibration due dates, lead times and detailed job plans
 - System allows you to check allocation and WO calendar on line or it can send you email or Outlook appointments / notifications

ns-CMMS Features

- ▶ Preventive Maintenance
 - Keep track of all your PM jobs and execute them on time, on budget and in a standard way – based on clear job plans
- ▶ Calibration
 - Stay on top of all your calibration requirements and perform work orders activities JIT and without any unplanned downtime
 - Calibration Module designed specifically for the rigors of regulatory compliance
- ▶ Reporting
 - Powerful reports, charts and dashboards create an in depth view for you to take quick and best informed decisions
- ▶ Administration and Set Up
 - Powerful and customizable browser based administration
 - Anything you need is easily accessible and easily done

ns-cmms Features

▶ Mobile

- Responsive design fits on any screen, you can do now:
 - Manage assets on the go
 - Complete WO and attach pictures on the go
 - Request spare parts on the go
- Mobile App gives you a great advantage to improve productivity, profitability and workplace safety for all your asset management, preventive maintenance and calibration activities

▶ Security

- Multiple user levels – easy to update and reconfigure based on your needs
- Configure user rights for each table/form/feature

Asset Management made easy



Assets
Keys
Spare Parts
Suppliers
Schedules
Work Orders
Reports
Admin
Logout

[Home](#) / [Assets Register](#) / [Add](#)

Make and Model

Current Location

Acquisition

Footprint

Depreciation

Sale

Calibration

PM

Electrical Testing

Name *

Name

Type *

Please Select

Manufacturer *

Please Select

Model *

Please Select

Asset Category

Please Select

Serial Number *

Serial Number

Year Of Manufacture *

Year Of Manufacture

Legacy Number (TE or EQ)

Legacy Number (TE or EQ)

Asset Number

Asset Number

Status *

Please Select

Status Note

Status Note

Add

Asset Management

- ▶ The Asset Management module gives you the ability to build an asset register to represent relevant details and information for your assets, within your organization
- ▶ The Asset Register is the foundation of all maintenance management activities
 - A tool to manage and control your work management and materials management processes
 - A historical data repository to track activity over the life of an asset
 - A resource of technical information on your asset

Asset Management

- ▶ Asset Register records assets from multiple locations/sites in one single database – you can now update, sort, export (XLS, PDF, Print) all these records without any effort
- ▶ Documentation, spare parts, PM and Calibration Work Orders are all linked back to the assets and can be easily searched, accessed and displayed

Asset Management

[Home](#) / [Assets Register](#) / [Add](#)

[Make and Model](#) [Current Location](#) [Acquisition](#) [Footprint](#) [Depreciation](#) [Sale](#) [Calibration](#) [PM](#) [Electrical Testing](#)

Factory *

Building *

Area *

Location *

Sub Location

Inside Asset

Group/Workstation Name

[Add](#)

[Home](#) / [Assets Register](#) / [Add](#)

[Make and Model](#) [Current Location](#) [Acquisition](#) [Footprint](#) [Depreciation](#) [Sale](#) [Calibration](#) [PM](#) [Electrical Testing](#)

Acquisition Date

Acquisition Cost

Warranty Period

Supplier

Acquisition Note

Owned Or Leased

Owner

[Add](#)

[Home](#) / [Assets Register](#) / [Add](#)

[Make and Model](#) [Current Location](#) [Acquisition](#) [Footprint](#) [Depreciation](#) [Sale](#) [Calibration](#) [PM](#) [Electrical Testing](#)

Picture 1

Picture 2

Footprint HxWxD

Weight

Safety Note

[Add](#)

[Home](#) / [Assets Register](#) / [Add](#)

[Make and Model](#) [Current Location](#) [Acquisition](#) [Footprint](#) [Depreciation](#) [Sale](#) [Calibration](#) [PM](#) [Electrical Testing](#)

Expected Life

Depreciation Life

Depreciation Type

Market Value

Replacement Value

Depreciation Note


[Add](#)

Asset Management

[Home](#) / [Assets Register](#) / [Add](#)

[Make and Model](#) [Current Location](#) [Acquisition](#) [Footprint](#) [Depreciation](#) [Sale](#) [Calibration](#) [PM](#) [Electrical Testing](#)

Sell Value

Sell Date 

Buyer


Sell Note

[Add](#)


[Home](#) / [Assets Register](#) / [Add](#)


[Make and Model](#) [Current Location](#) [Acquisition](#) [Footprint](#) [Depreciation](#) [Sale](#) [Calibration](#) [PM](#) [Electrical Testing](#)

Calibration Required

Last Calibration Date 

Last Calibration WO

Next Calibration WO Start Date 


Next Calibration Due Date 

[Add](#)


[Home](#) / [Assets Register](#) / [Add](#)


[Make and Model](#) [Current Location](#) [Acquisition](#) [Footprint](#) [Depreciation](#) [Sale](#) [Calibration](#) [PM](#) [Electrical Testing](#)

PM Required

Last PM Date 

Last PM WO

Next PM WO Start Date 


Next PM Due Date 

[Add](#)


[Home](#) / [Assets Register](#) / [Add](#)


[Make and Model](#) [Current Location](#) [Acquisition](#) [Footprint](#) [Depreciation](#) [Sale](#) [Calibration](#) [PM](#) [Electrical Testing](#)

Electrical Testing Required

Last Electrical Testing Date 

Last Electrical Testing WO

Next Electrical Testing WO Start Date 

Next Electrical Testing Due Date 

[Add](#)

Documentation Register

- ▶ If you have lots of machines, you have lots of maintenance and operation manuals, safety work instructions and spare parts catalogues.
- ▶ Upload all of them in CMMS
 - It is easy to do it,
 - It is easy to find them later on, when you need them

The screenshot shows the 'Assets Register' interface. At the top, there's a navigation bar with icons for various functions. Below it, a tabbed interface shows 'Make and Model', 'Current Location', 'Acquisition', 'Footprint', 'Depreciation', 'Sale', 'Calibration', 'PM', and 'Electrical Testing'. The 'Make and Model' tab is active, displaying a detailed view of a 'FUJI PLACEMENT MACHINE'.

Field	Value
Name	FUJI PLACEMENT MACHINE
Type	Chip Placement
Manufacturer	Fuji
Model	CP6
Asset Category	SMT-Major
Serial Number	607
Year Of Manufacture	1994
Legacy Number (TE or EQ)	MELB-015
Asset Number	AN01509
Status	In Use
Status Note	TRANSFERRED FROM NZ

Below the detailed view, there are tabs for 'Work Orders', 'Spares', 'Movements', and 'Documentation'. The 'Documentation' tab is active, showing a list of documents associated with the asset.

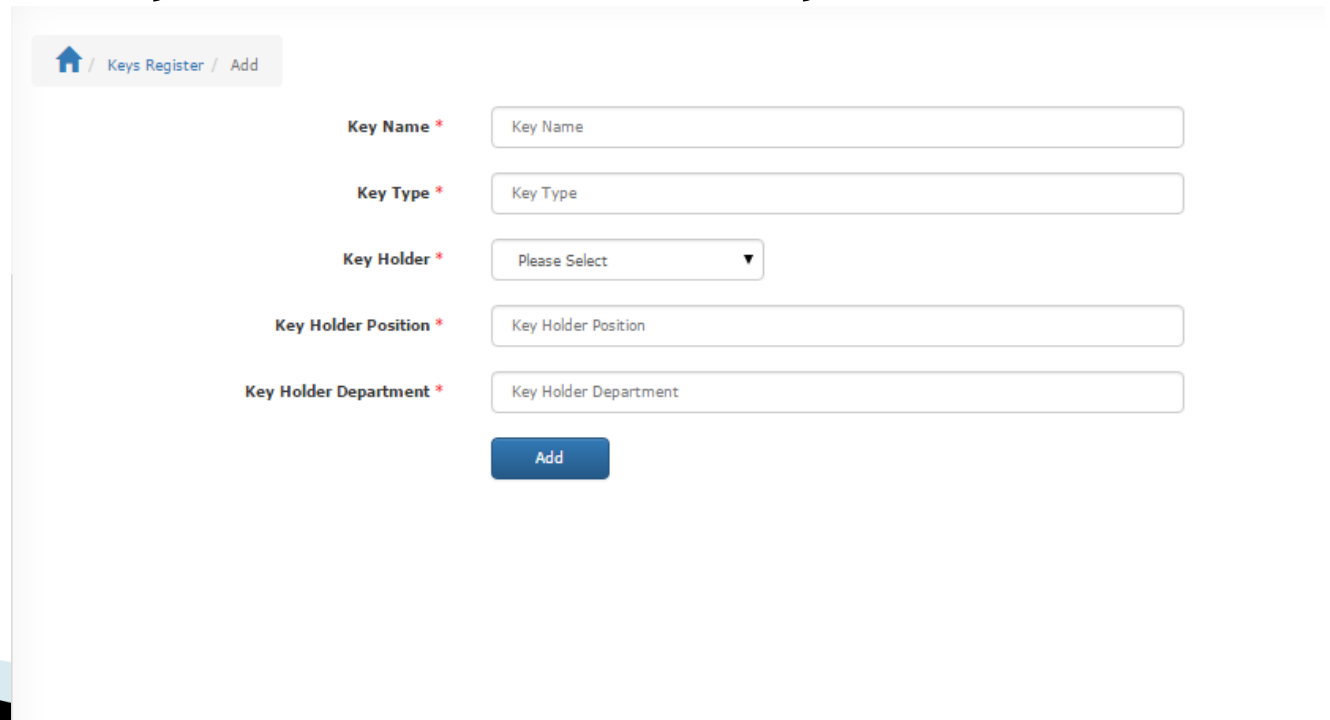
Document	Document Type	For Asset Type
cp6_series_-_operation_manual.pdf	Operation Manual	Chip Placement
cp6_ops.pdf	Operation Manual	Chip Placement
cp6-edition-1_0.pdf	Operation Manual	Chip Placement
tr3-cp6s-2_0e.pdf	Operation Manual	Chip Placement

The screenshot shows the 'Documentation' interface. At the top, there's a navigation bar with icons for various functions. Below it, a search bar is present. The main area displays a list of documents with columns for 'Document', 'Document Type', 'For Asset Type', 'For Asset Manufacturer', and 'For Asset Model'.

Document	Document Type	For Asset Type	For Asset Manufacturer	For Asset Model
u1731-u1733.pdf	Operation Manual	LCR Handheld Meter	Agilent	U1733C
amistar_label_printing.pdf	Operation Manual	Labeling Machine	Amistar	Dataplace
amistar-ch1dataplace_overview.pdf	Operation Manual	Labeling Machine	Amistar	Dataplace
d004302v1_user_manual_shake_test_rig.pdf	Operation Manual	Test Jig	Axxin	-
wck-01_spec.pdf	Calibration Requirements	wriststrap/footstrap tester	Bondline	WCK-01
m_series_users_manual_rev.1.pdf	Operation Manual	Labels Printer	Brady	
x_series_users_manual_rev.1.pdf	Operation Manual	Labels Printer	Brady	
cyberoptics-3.pdf	Operation Manual	Paste Inspection	Cyberoptics	
dek_265_installation_manual.pdf	Installation Manual	Screen Printing	Dek	LT 265
dek_265_pocket_reference_guide.pdf	Operation Manual	Screen Printing	Dek	LT 265
dek_engineering_specifications.pdf	Operation Manual	Screen Printing	Dek	
dek_temperature_control_unit.pdf	Operation Manual	Screen Printing	Dek	
gsxengsp.pdf	Operation Manual	Screen Printing	Dek	GSX 265

Keys Register

- ▶ all the keys types, key name, holder, holder position, department, site are saved in one spot
- ▶ no more guessing who has the right key



The screenshot shows a web application interface for adding a new key entry. At the top left, there is a breadcrumb trail: a home icon followed by "/ Keys Register / Add". The form consists of five labeled input fields, each with a red asterisk indicating it is required:











- Key Name ***: A text input field containing the placeholder text "Key Name".
- Key Type ***: A text input field containing the placeholder text "Key Type".
- Key Holder ***: A dropdown menu with the text "Please Select" and a downward arrow.
- Key Holder Position ***: A text input field containing the placeholder text "Key Holder Position".
- Key Holder Department ***: A text input field containing the placeholder text "Key Holder Department".

Below the input fields is a blue button labeled "Add". The entire form is set against a light gray background.



Password Manager

- ▶ Save in a secure location all the passwords for your machines
- ▶ Control who is accessing these passwords
- ▶ Easy to search and find the right user and password

[Home](#) / Machines Passwords



Page 1 of 1 Records 1 to 2 of 2

		Machine	Line	User	Password	Comments
<input type="checkbox"/>		slimkic profiler	windows XP login	smtu_per1	<input type="text"/>	
<input type="checkbox"/>		slimkic profiler	Windows 98 login	pro	<input type="text"/>	

Page 1 of 1 Records 1 to 2 of 2

[Home](#) / Machines Passwords / Add

Machine

Line

User

Password

Comments




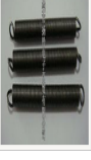
Spare Parts Management

- ▶ Organize your spare parts – record spare details, location, quantity,
- ▶ link suppliers and their contact details


Spares

Search

Page 1 of 51 Records 1 to 50 of 2511

	Part Number	Description	Manufacturer	Manufacturer Part Number	For Assets Model	For Assets Manufacturer	Picture	Status
	MPC6500	ROLLER	REDLINE	Nylon bush 8 x 8.8mm long with 6.12 bore	CP6	Fuji		In Stock
	WPH1182 (MDV-235-P-2)	CP6 Mechanical Valve	Kuroda					In Stock
	FU-59(2000)	Fiber optic	Keyence	FU-59 (2000)	SRV SMT Line	SRV SMT		In Production
	WCB0000	SPRING D=8,d=1, L=77.6 for CP W12 X P4, W12 X P8	FUJI	WCB0000	CP6 Feeder	Fuji		In Production

Spares / View

Part Number	MPC6500
Description	ROLLER
Manufacturer	REDLINE
Manufacturer Part Number	Nylon bush 8 x 8.8mm long with 6.12 bore
For Assets Model	CP6
For Assets Manufacturer	Fuji
Drawings	
Picture	
Notes	
Status	In Stock
Supplier 1	JMT/Teksun, 4 Floor, CoCo Business Building, LinCun, Tangxia Town, Dongguan City, Guangdong, China
Supplier 2	Apex SMT, 10 Admiralty Street #05-60 North Link Building Singapore 757695
Supplier 3	Redline, 27 Hinkler rd Mordialloc vic 3195

Spares Locations

Location	Quantity
feeder room cabinet D	900

Work Order Management

- ▶ The Work Order is the heart of NS-CMMS. Timing is everything when it comes to maintenance requests, so creating WO in NS-CMMS is quick and simple.
- ▶ Work Orders may be created manually, as a result of a Maintenance or Calibration Request or they may be automatically created based on the routine Job Plans previously created for the asset.
- ▶ NS-CMMS work order management includes Feature like:
 - View WO details on a single screen in multiple tabs
 - Manage Labour assignments form the WO
 - Track, materials, labour and other costs
 - View asset information associated with the WO
 - Quickly assign WO to engineers or technicians
 - Send WO notifications via email or meeting requests and tasks (ics)

The screenshot displays the 'Add' form for creating a new Work Order in the NS-CMMS system. The interface features a breadcrumb trail at the top: 'Home / Work Orders / Add'. Below this is a tabbed navigation system with five tabs: 'Description' (active), 'Tasks', 'Allocation', 'Supplier', 'Equipment', and 'Status'. The form contains several fields, each with a red asterisk indicating it is required:

- WO Manual or Automatic ***: A dropdown menu currently set to 'Manual'.
- WO Type ***: A dropdown menu currently set to 'Please Select'.
- Sub-Type**: A dropdown menu currently set to 'Please Select'.
- For Asset Type ***: A wide dropdown menu currently set to 'Please Select'.
- For Asset Manufacturer ***: A dropdown menu currently set to 'Please Select'.
- For Asset Model ***: A dropdown menu currently set to 'Please Select'.
- Allocated Schedule file**: A dropdown menu currently set to 'Please Select'.
- WO Description ***: A large text area with the placeholder text 'WO Description'.
- Special Instructions ***: A large text area with the placeholder text 'Special Instructions'.
- Safety Note ***: A large text area with the placeholder text 'Safety Note'.

At the bottom right of the form is a blue button labeled 'Add'.

Job Plans Management

- ▶ For complex jobs you need a job plan that details Safety LOTO/PPE, task and sequence, trades/crafts required, estimated Costs, materials/parts, housekeeping and disposal issues
- ▶ Job Plans help you standardize your maintenance and calibration activities
- ▶ Write them once, reuse them many times
- ▶ Job Plans exist in the CMMS library, are not attached to any work orders, you can copy, modify, reuse parts for similar assets
- ▶ Use Technician feedback and feedback form to continuously learn and improve your job plans

Schedules / View	
Schedule Name	Monthly PM - Amistar Dataplace
Schedule Type	Preventive Maintenance
Special Instructions	Wear Safety Glasses, Wear Gloves and if any safety interlocks are disabled, do not put hands inside machine in AUTO mode while machine waiting for boards.
Safety Note	Wear Safety Glasses, Wear Gloves and if any safety interlocks are disabled, do not put hands inside machine in AUTO mode while machine waiting for boards.
Tasks	<div> <div>Inspect Pressure Regulator: Adjust as required.</div> <div>Inspect & Clean Vacuum Filters, Switches and Solenoid Valves.</div> <div>Inspect X & Y Gantry Cable Tracks.</div> <div>Inspect Gantry X & Y Drive Belts.</div> <div>Lubricate Conveyor Lift Cylinders.</div> <div>Lubricate Board Stop Clamp.</div> <div>Clean & Lubricate Vertical Lift Slide Rods.</div> <div>Clean Carriage Assemblies Vacuum Filters.</div> <div>Inspect & Clean Carriage Head Quill Assemblies.</div> <div>Clean Q-Axis Rack & Spur Gears.</div> <div>Clean & Lubricate Carriage Assy. Rack Guide.</div> <div>Clean & Lubricate Shuttle Slide Rail.</div> <div>Perform Calibration for DEL XY.</div> <div>Perform Calibration for "Course & Fine Pickup Placement"(Setup Page)</div> <div>Backup Machine Database & Label Data.</div> </div>
Spares	Consumables - Cleaning IPA, Grease, Lubricating oil, Tools, Rags, Lint free cloth.
Frequency (weeks)	4
Is Triggered	No
Is Fixed	Yes
Lead Time (Days)	5
For Asset Type	Labeling Machine
For Asset Manufacturer	Amistar
For Asset Model	Dataplace
Estimated Duration (Hours)	8
Is Internal	Yes
Department/Group	Facility & Maintenance
Customer Contact	
Supplier Contact	Amistar
Estimated Labor Cost	0
Estimated Material Cost	0
Estimated Other Cost	0

Preventive Maintenance

- ▶ PM Module allows you to manage all your repetitive and routine jobs with either a time based or usage based frequency
- ▶ For any repetitive job you can use job plans or schedules to avoid entering the job details for each work order

Assets Register / View

Make and Model

Current Location

Acquisition

Footprint

Depreciation

Sale

Calibration

PM

Electrical Testing

Name

FUJI PLACEMENT MACHINE

Type

Chip Placement

Manufacturer

Fuji

Model

CP6

Asset Category

SMT-Major

Serial Number

607

Year Of Manufacture

1994

Legacy Number (TE or EQ)

MELB-015

Asset Number

AN01509

Status

In Use

Status Note

TRANSFERRED FROM NZ

Work Orders

Spares

Movements

Documentation

WO Number	WO Type	Sub-Type	For Asset Type	For Asset Manufacturer	For Asset Model	WO Description	Frequency (weeks)	Is Internal	Owner	Legacy Number	Area	Location	Start Date	WO Status	WO Closing Date	Next WO Start Date	Next WO Due Date
1358	Emergency Repair		Chip Placement	Fuji	CP6	Replaced all 20 mechanical valves	0	Yes	Gheorghe Creta	MELB-015	Production	SMT Line 3	2015-08-28	Closed	2015-08-28	2015-08-28	2015-08-28
1334	Preventive Maintenance	Major	Chip Placement	Fuji	CP6	Quarterly PM - Fuji CP6	13	Yes	Gheorghe Creta	MELB-015	Production	SMT Line 3	2015-08-21	Closed	2015-08-27	2015-11-16	2015-11-26
1322	Emergency Repair		Chip Placement	Fuji	CP6	Machine boots up error : OS Ver: 0552 R3.04e M/C Ver:V1.39 Thu Nov 02 11:13:21 JST 1995 TASK RESOURCE CPU COM SHELL ONTL_SRV1 CFRQZINTLSRV2 XYFQINTL SRV3 D1D2NC HT S HELPS FH_PRINT Remedy: Check Cycle. Start button for jammed and short circuit.	0	yes	Kah Soon Thye	MELB-015	Production	SMT Line 3	2015-08-19	Closed	2015-08-19		
1318	Service		Chip Placement	Fuji	CP6	Readjusted and calibrated wide & Narrow cameras	0	Yes	Kah Soon Thye	MELB-015	Production	SMT Line 3	2015-08-14	Closed	2015-08-14	2015-08-14	2015-08-14

Calibration

- ▶ Module designed specifically for the rigors of regulatory compliance
- ▶ Improved equipment availability via faster calibration turnaround times
- ▶ Increased productivity with paperless calibrations
- ▶ Improved workflow with configurable job plans
- ▶ Improved compliance through automation of routine tasks

Home / Work Orders / Edit

Description Tasks Allocation Supplier Equipment Status

Start Date * 2015-09-18

Due Date * 2015-09-24

WO Results Or Readings Pass after recalibration (0 ohm 2w out)

WO Results File Choose...

TE0256-HP34401.xlsx 16.31 KB Delete

WO Status * Closed

WO Closing Date 2015-09-18

Next WO Start Date 2016-09-11

Next WO Due Date 2016-09-16

WO Closed By Test Engineer

Save

Electrical Testing (Test & Tag)

- ▶ Testing your electrical appliances for faults and damages makes sense and it gives you the piece of mind that your employees are using equipment that are safe from the danger of electrical faults
- ▶ The Australian New Zealand Standard **AS/NZ 53760** *In-Service Safety Inspection and Testing of Electrical Equipment* is nationally accepted as the minimum safety protocol for the workplace, and applies to **plug-in** or **non-fixed** equipment. This Standard specifies procedures for the safety inspection and testing of low voltage single phase and polyphase electrical equipment, connected to the electrical supply by a flexible cord or connecting device, and that
 - Is new equipment placed in service for the first time;
 - Is already in-service;
 - Has been serviced or repaired;
 - Is returning to service from a second-hand sale;
 - Is available for hire.

Home / Work Orders / Edit

Description Tasks Allocation Supplier Equipment Status

WO Number 1275

WO Manual or Automatic * Manual

WO Type * Electrical Testing

Sub-Type -

For Asset Type * Universal Programmer

For Asset Manufacturer * HI-LO Systems

For Asset Model * ALL-100

Allocated Schedule file SAFETY TESTS ON UNIVERSAL PROGRAMMER, 52

WO Description * SAFETY TESTS ON UNIVERSAL PROGRAMMER

Special Instructions * Carry out power lead quality and safety tests with the unit electrical tests.

Safety Note * Power lead quality inspection required

Save

Reporting

- ▶ Dashboards, Charts, Reports –are offering you an easy way to see what is happening:
 - Spot trends on key performance measurements
 - Track work order productivity
 - Monitor equipment performance and work order completion rates
- ▶ Output reports in PDF, CSV, Excel, Word, HTML, XML
- ▶ Reports can be auto generated and emailed on pre-set schedules
- ▶ Advanced Search powerful and versatile function is available for each module and let you customize the search in the way you want it
- ▶ On line report builder allows users to create their own suite of reports and charts



Reporting

YOUR
LOGO
HERE

ns-cmms

Assets
Keys
Spare Parts
Suppliers
Schedules
Work Orders
Reports
Admin
Logout

Assets Register / Search

Make and Model
Current Location
Acquisition
Footprint
Depreciation
Sale
Calibration
PM
Electrical Testing

PM Required

Please Select

<>
<
<=
>
>=
contains
does not contain
starts with
ends with
is null
is not null
between

Last PM Date

Last PM WO

Next PM WO Start Date

Next PM WO Start Date

Next PM Due Date

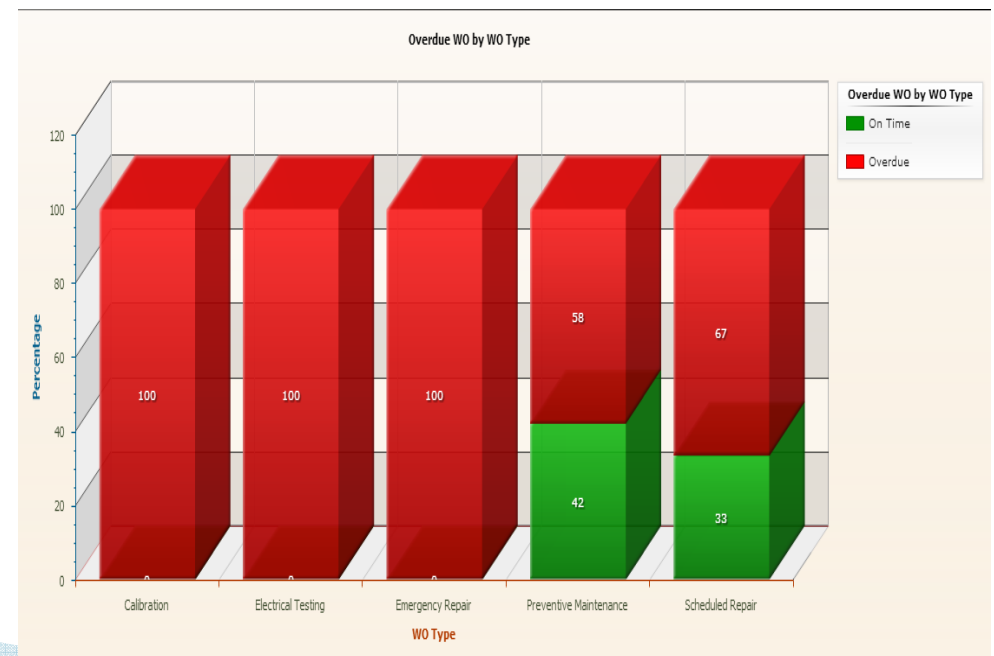
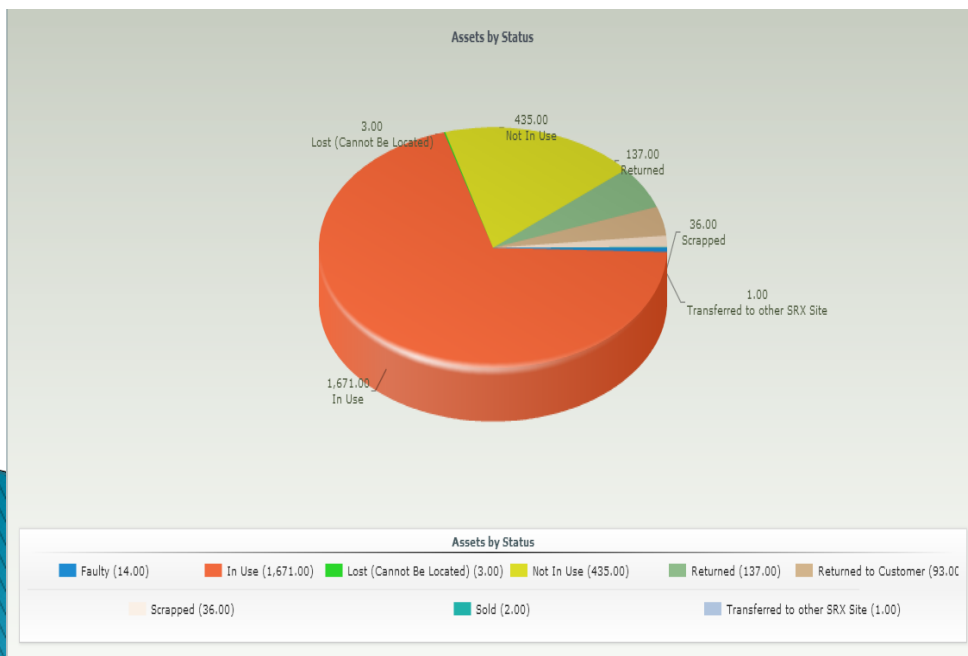
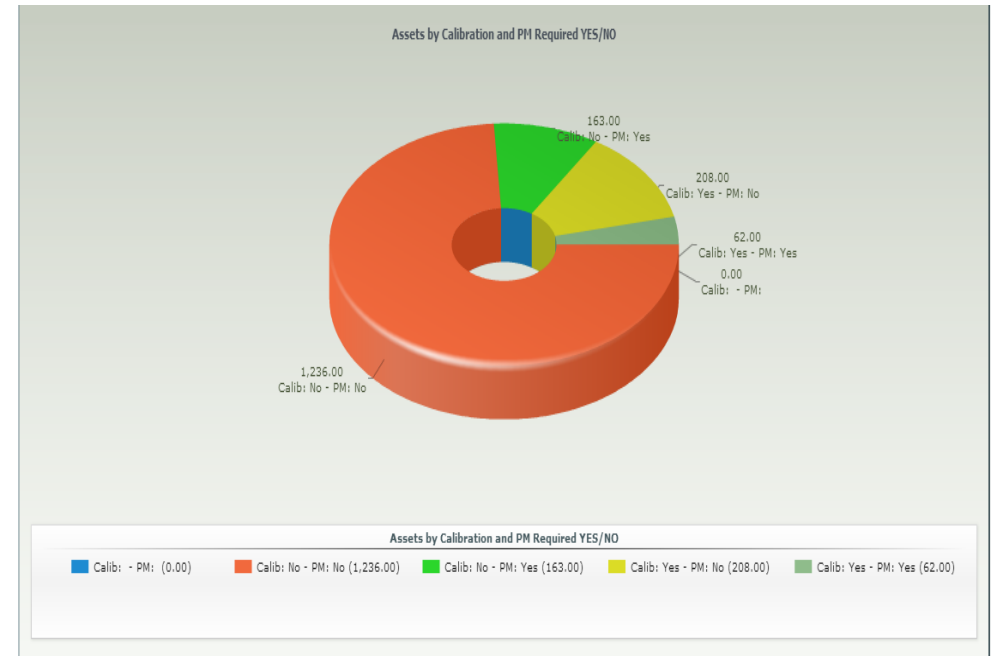
Next PM Due Date

and or

Next PM Due Date

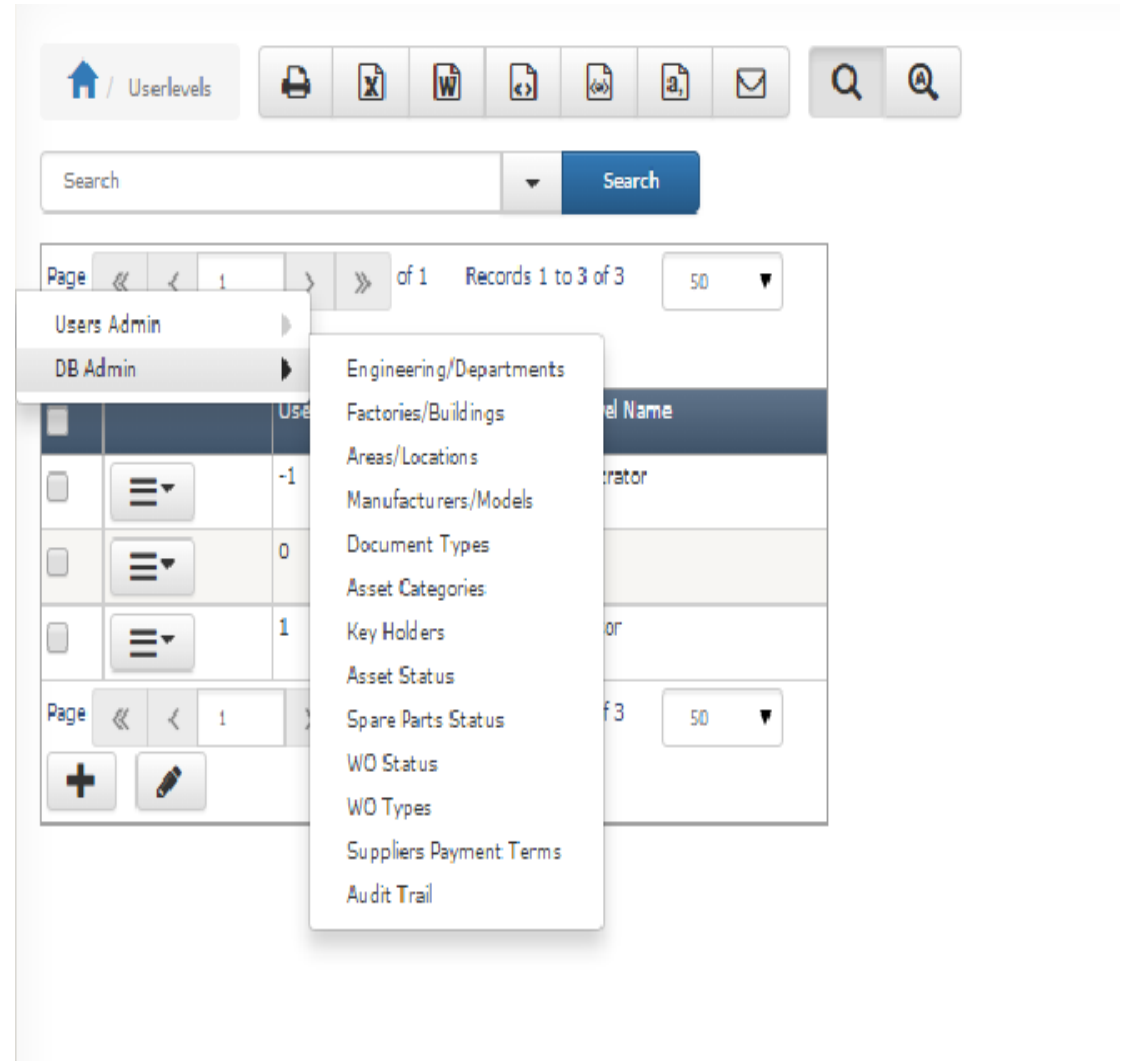
Search

Reset



Administration

- ▶ Easy to set up and customize all the dropdown boxes
 - Engineering/Departments
 - Factories/Buildings
 - Areas/Locations
 - Manufacturers/Models
 - Document Types
 - Asset Categories
 - Key Holders
 - Asset Status
 - Spare Parts Status
 - WO Status
 - WO Type
 - Supplier Payment Terms
- ▶ Audit Trail records all changes done to the data, the login details and time stamp



Users Administration

- ▶ Create multiple user levels
- ▶ Customize permissions for each level
- ▶ Add users, edit users, delete users
- ▶ Users may choose to register themselves using Registration Feature from login screen
- ▶ Users need to provide a valid email address which is used during activation process
- ▶ Forgot Password feature helps users to recover their passwords

The screenshot displays the 'Userlevels' management interface. At the top, there is a navigation bar with a home icon and the text '/ Userlevels', followed by a toolbar with icons for print, export to Excel, Word, PDF, CSV, JSON, and email. Below this is a search bar with a 'Search' button. The main content area features a table with the following data:

	User Level ID	User Level Name
<input type="checkbox"/>	-1	Administrator
<input type="checkbox"/>	0	Default
<input type="checkbox"/>	1	Supervisor

Below the table is a pagination control showing 'Page 1 of 1' and 'Records 1 to 3 of 3'. To the right of the table is a '+ Add' button. Below the table is a 'Login' form with the following fields:

User Name: Admin

Password:

Options: [Dropdown arrow]

Login: [Button]

At the bottom of the login form are links for 'Forgot Password' and 'Register'.

To the right of the login form is a 'User Add' form with the following fields:

User *: User

Password *: Password

User Type: Default [Dropdown arrow]

Full Name: Full Name

Email: Email

Activated: N

Add: [Button]

Thank you!

