



M.E.S. Software

MANAGEMENT, CONTROL
AND DATA CAPTURE IN
PRODUCTION PLANT



PRODUCTION
QUALITY
SCHEDULING
MAINTENANCE

Powering your Process



PRODUCTION QUALITY SCHEDULING MAINTENANCE

We present the state-of-the-art M.E.S. platform, which will enable you to globally control and manage the information from all of your production plants and will ensure the perfect integration of the data with your ERP.

The Mapex M.E.S. system is based on the powerful Mapex Business Platform (MapexBP) which integrates several functional modules in a very easy, quick to implement and user-friendly environment.

The Mapex M.E.S. solution has vertical solutions for the most important industrial sectors:

- Automobile
- Metallurgy
- Mounting and assembly
- Food
- Pharmaceutical and Chemical
- Graphic arts, paper and textile
- Energy and environmental
- Mining and Forestry



The most important technologic features of all modules:

- Independent of the database, including Microsoft SQL Server and Oracle as standard.
- The modules are open source code solution, which makes it possible to customize and expand the standard functions without any limits.
- It includes the latest R.A.D. technologies (Rapid Application Development) to quickly customize or develop all the project requirements.
- The application itself includes all the necessary tools and editors: form editors, databases, queries, views, formulas and of Visual Basic .NET code editor.
- Microsoft Thin Client technology which does not require installation on the client's computers and therefore reduces the time to deploy and update of new versions.
- Microsoft Reporting Services to publish the information online in WEB format.
- Microsoft .NET Framework environment compatible with all 32 or 64 bit Microsoft operating systems

Data capture for Production Control

Mapex Production Manager

The software which monitors your production and generates profits

Clients demand products which are more affordable and of a higher quality. Only those companies which manage to optimise their production resources will become leaders in such competitive markets.

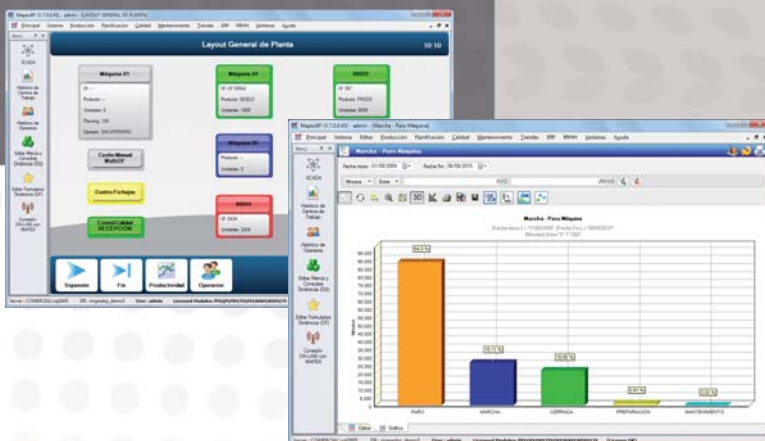
Mapex PM is a comprehensive solution to globally control and manage your production plants, totally integrated with your current ERP.

The solution connects to any machine and automatic data capture in order to obtain objective and reliable data in real time.



The production module will enable you to manage:

- Productivity of machines, lines and manual labours.
- Setup times, production, downtimes, breakdown and maintenance times.
- Operators and workers.
- Work orders, operations, stages and components.
- Defects, rejects or scrap.
- Analysis of the most common K.P.I.s: O.E.E., availability, efficiencies, productivity, quality, etc.
- Document management: processes, instructions, videos, etc.



Scheduling

Mapex Work Order Manager

Your production always on time

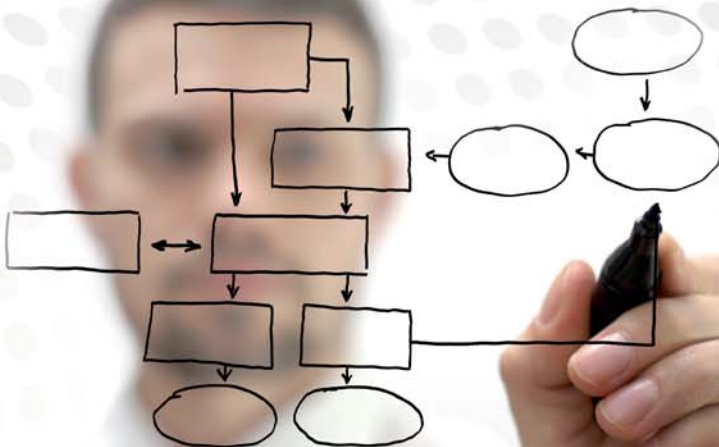
The demands of the market oblige companies to fine tune their production schedules and to adjust their delivery deadlines as much as possible, requiring a swift reaction in the event of any incident on the plant and the simple management of emergencies.

Mapex WOM is the ideal complement to the production module, which will allow you to organise the workload and scheduling of all of your work centres, giving online notification to everyone in the organisation of any delay which might affect the production process or to the client if it might affect the delivery dates.



Main features:

- ④ Simple and intuitive management and organisation of operations in Gantt format.
- ④ Real time visual tracking of scheduling.
- ④ Configuration of the production resources' schedules (working days and holidays, shifts, scheduled maintenance, cleaning, etc.).
- ④ Visualisation of the workload of each centre or area, helping with the distribution and balance of the tasks.
- ④ Generation of automatic alarm notifications by SMS or email to inform you of delays or incidents affecting the schedule.
- ④ Bidirectional information link with the ERP or other MRP programs.



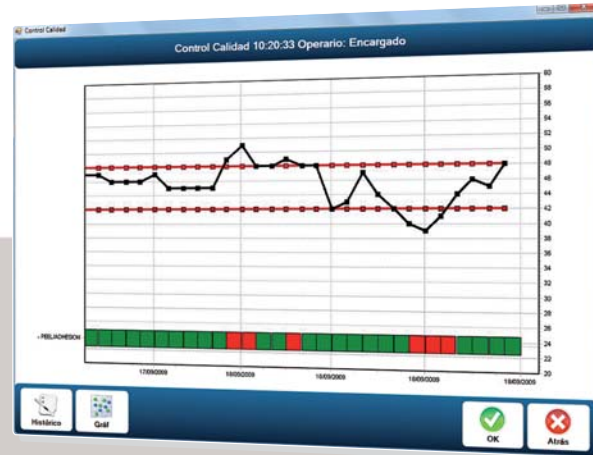
Quality and Traceability Control

Mapex Quality Manager

Guarantee the highest quality from your products

The quality control of the product, the production process and control of the raw materials ensure that the best companies are highly competitive.

MapexQM is a quality and traceability control module which provides all of the tools necessary to improve the management of the quality control department.



Main features:

- ④ Configuration of the internal quality control plan.
- ④ Configuration of the frequency and types of controls, automatic generation of alarms.
- ④ Management of the traceability of components, raw materials, batches, semi-finished products, with a labelling option.
- ④ Connection to various measurement equipment, such as computer vision systems, scales, callipers, etc.
- ④ Control of the acceptance and approval of raw materials.
- ④ Advanced statistical analysis of the information (SPC).
- ④ Integrated management of the documentation in order to be able to dispense with paper on the plant and control the versions.

Operario	Fecha	Hora	Valor	Unidad	Estado	Acción
Operario: Encargado	10/08/12	10:20:33	OK		OK	Entrar
Operario: Encargado	10/08/12	10:20:33	Alerta		Alerta	Entrar
Operario: Encargado	10/08/12	10:20:33	452.452.452.452	mm	OK	Entrar
Operario: Encargado	10/08/12	10:20:33	452.452.452.452	mm	Alerta	Entrar
Operario: Encargado	10/08/12	10:20:33	2708.2708	mm	OK	Entrar
Operario: Encargado	10/08/12	10:20:33	2708.2708	mm	Alerta	Entrar



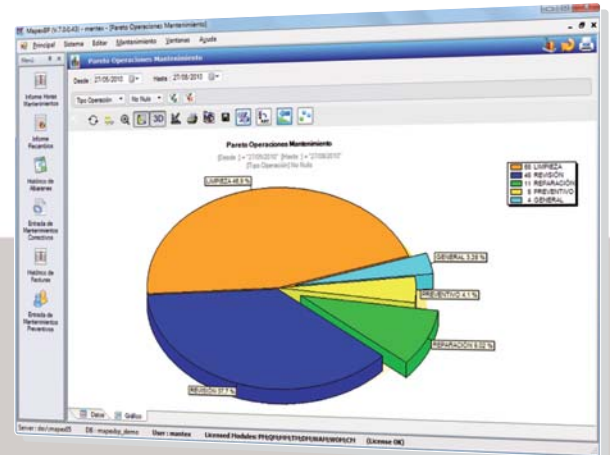
Maintenance Management

Mapex Maintenance Manager

Complete management of your maintenance department

The demands of decreased delivery deadlines, reducing costs and improving quality require the production resources to be available at all times and their optimal performance throughout their life cycles.

Mapex MM is a Computerised Maintenance Management System (C.M.M.S.), designed for the correct management of maintenance, gearing it towards achieving maximum competitiveness with a minimum of effort.



Main features:

- Detailed control of all of your technicians' shifts and all of their timesheets.
- Control and management of spare parts (stocks, orders, delivery notes, costs, etc.).
- Scheduling of preventative maintenance.
- Management of corrective maintenance.
- Optional connection with machines, capture cycles and time counters directly from machines.
- Automatic creation of work and tracking Orders.

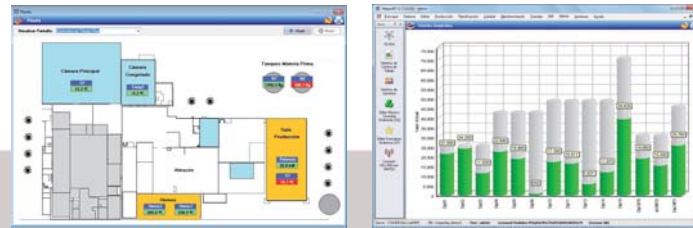


Control and Supervision of Process Variables

Mapex Trendex

Obtaining objective information in real time is a factor which makes it easier to make decisions and minimise response times.

The Mapex Trendex module is a system which captures data and registers all of the process variables of your plants, connecting with the most standard measuring equipment, PLC, or any device with OPC technology.



Main features :

- ④ Connection with any field device with direct drivers or with OPC technology.
- ④ Registering of unlimited variables in real time, both digital and analogue (temperatures, weights, electrical consumption, counters, etc.). Process graphs, with limits, filters and categorisation.
- ④ Control and management of Alarms, with SMS or emails notifications.

Business Intelligence

Mapex Dynamics

The competitiveness of companies, and therefore the increase in their profits, is only achieved by applying the criteria for continual improvement to every area and by equipping the organisation with all of the tools necessary to make the right decisions at all times.

Mapex Dynamics provides the ultimate tool for managing the thousands of pieces of daily data from the various different sources of information, and which enables the analysis of the company's critical indicators in order to continually improve.

Create your dashboard, analyse the Key Performance Indicators (KPI) which best represent your sector, manage the information, categorise, filter and display it in the format of your choice.

Main features:

- ④ User friendly and easy to use for the end user.
- ④ Dynamic analysis of the information, filters, views, graphs, conditional formatting and user forms.
- ④ Can be exported to Microsoft Excel or PDF.
- ④ Access to any external database, via direct connectors or with ODBC technology.
- ④ Creation of WEB reports with the integration of Microsoft Reporting Services.
- ④ Configuration of users, permission and profiles.





Powering your Process



Contact your nearest dealer in...

www.mapexsoftware.com

Europe : emea@mapexsoftware.com

Asia : asia@mapexsoftware.com

Africa : africa@mapexsoftware.com

North America : na@mapexsoftware.com

South America : sa@mapexsoftware.com

Worldwide : international@mapexsoftware.com