

Stay one step ahead with complete, integrated Plant Maintenance

GMP Plant Maintenance for Microsoft Dynamics AX: Optimize production, costs, and quality control with a solution that fits seamlessly with your business

Solution Benefits

Improve performance by improving insight

Monitor production and address issues proactively, based on KPIs that include:

- Equipment Uptime
- Meantime between Inspections (MTBI)
- Meantime between Failures (MTBF)
- Return on Investment (ROI)

Optimize production capacity and reduce breakdown risks

Count on realistic production planning, reliable order-to-delivery schedules, and optimize capacity. Quick access to equipment overviews and robust maintenance features ensure that machines are monitored and serviced to optimize usage with minimal downtime.

Manage spare parts and consumables for production equipment

Control and monitor complex maintenance and cost variations with complete tracking for spare parts consumption and inspection needs, including calibration for scales and other instruments.

Work with one integrated solution that drives efficiency, accuracy, and ROI

GMP Plant Maintenance is built on top of Microsoft Dynamics AX, with cross-module integration that minimizes additional third-party investments, connects costing and billing across your ERP system, and lets users work within a single, familiar interface.

Easily support specialized requirements

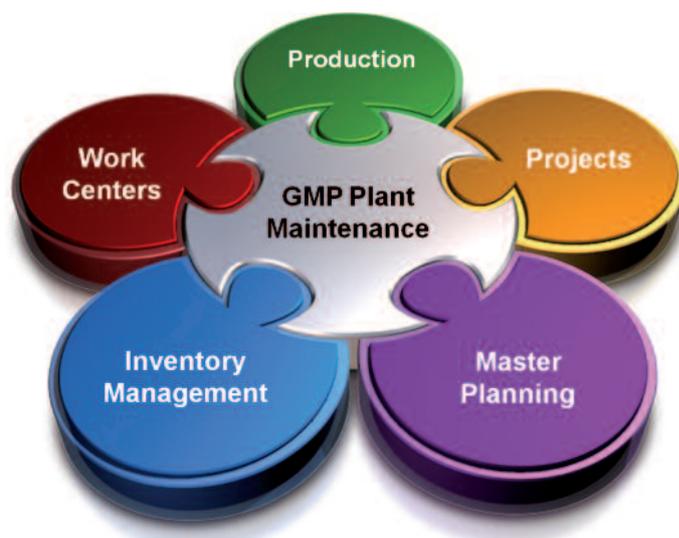
Along with robust equipment management capabilities, GMP Plant Maintenance offers applications to support service and maintenance contracts for machine producers.

Efficient administration and control over plant equipment and other assets plays a critical role in production and ultimately, profitability. Success depends on multiple variables—daily oversight, regular inspections and service, diligent management of specialized maintenance activities, and compliance with GxP guidelines.

GMP Plant Maintenance for Microsoft Dynamics AX offers the ideal solution for these challenges. For Pharmaceutical, Chemicals, and Life Sciences companies that focus on planned maintenance of production plants and equipment, GMP Plant Maintenance helps ensure timely, cost-effective production, optimal delivery performance, and full traceability for critical and regulated equipment.

GMP Plant Maintenance integrates fully with Microsoft Dynamics AX to help you:

- Manage and track plant and equipment maintenance for machinery, scales, instruments and other critical assets.
- Generate preventive and ad-hoc work orders for servicing plants and equipment.



WHAT'S NEW IN AX FOR PHARMA

- ✓ New release for Microsoft Dynamics AX2012 R3 since July '14.
- ✓ Many **new features** for Multi-level Object Control, Integration between Plant Maintenance and Master Planning / Production scheduling ...

See **Key Features** on the next page for more details.

Automate, connect, and extend plant maintenance in Microsoft Dynamics AX to bring together teams and operations, and ensure equipment management fits seamlessly with your business practices and your full ERP solution.

Key Features

Multi-level Object Control	<ul style="list-style-type: none"> ✓ Flexibly manage complex equipment maintenance with intuitive, multi-level object control. Objects can be built up as a tree, making it easy to navigate different levels and at the same time maintain an overview of the entire structure. Users can render statistics for individual levels or as a sum of all underlying levels.
Preventive Maintenance	<ul style="list-style-type: none"> ✓ Automatically create the base for preventive maintenance by attaching any object to one or more planning sequences. Planning data is collected in a calendar that serves as a base for executing work orders.
Material and Resource Planning	<ul style="list-style-type: none"> ✓ During preventive maintenance planning, the production plan is automatically taken into consideration. Preventive maintenance planning automatically includes known or potential impact on production plans; for example, if maintenance for specific machines will stop production, that information is entered into the plan. With preventive maintenance, users can also assess a future production plan to calculate the expected number of hours that an object/machine will need for maintenance.
Spare Parts Management	<ul style="list-style-type: none"> ✓ Master Planning includes any type of planned maintenance, helping ensure that all spare parts are in stock at the right time.
Workflow and Electronic Signatures	<ul style="list-style-type: none"> ✓ A work order is based on one or more job types. A workflow can be created on a job type to ensure that a work order always follows specific processes. Setup options include the ability to prevent users from deviating from a workflow. Any stage in a workflow can be illustrated with colors and/or a graphical representation. ✓ To assure control and traceability of maintenance activities for critical pieces of equipment in regulated environments, work order processing can include electronic signature requirements in compliance with 21 CFR Part 11.
Spare Parts Documentation	<ul style="list-style-type: none"> ✓ Registering spare parts consumption triggers the system to automatically document and track all used spare parts. Users can quickly access an overview of consumption and a full history of which spare parts are previously and currently connected to the object.
Inventory Management/Maintenance	<ul style="list-style-type: none"> ✓ When planning preventative maintenance, stock control will automatically record specific maintenance for any given period. Spare parts consumption will be planned in advance to minimize stock-out risks. GMP Plant Maintenance also offers advanced inventory management functionality.