

**MANUFACTURING SOLUTIONS**  
**PLANT CONTROL**

**Qualified IT solutions for integration on the shop floor.**

With a process control system tailored to your requirements and conditions, the various parts of your plant can communicate effectively with one another. Volvo IT has many years of experience and industry competence in this area. We can help you with everything from independent experts in connection with purchase transactions, to a total commitment for development, enhancement and maintenance.

To create real integration on the shop floor between different areas and pieces of equipment, solutions must be carefully planned and designed from a general perspective. The crane warehouse needs to communicate with the MPS system, AGVs need to communicate with the operator's hand-held, a robot needs to communicate with the measuring system and so on.

We have assembled our competence about the plant's various process control systems in the area of Manufacturing Solutions, and we can provide services, systems and applications for the shop floor in three main areas:

- Systems acquisition – Systems project management and technical systems work in connection with the purchase of new production systems from external suppliers.
- Systems development – Development of customer-specific system solutions.
- Systems management – Management of both internally developed systems and standard systems that have been purchased.



CMS secures quality, here as part of an engine assembly line on an AGV.

These services can be tailored to your requirements and conditions.

**Support with systems acquisition.**

The amount of IT in production systems is continuously on the rise, and when it comes to purchasing, this makes it important to pay just as much attention to IT issues as to more traditional concerns. In order to ensure the best possible purchase transaction, Volvo IT can provide you with qualified support in connection with the purchase and modification of acquired standard and specialised systems.

We can work with stand-alone systems or systems integrated with the factory equipment.

# ATION TECHNOLOGY

When you procure production systems, machines or complete production lines, Volvo IT, as an independent party, can take responsibility for the portion including IT, data management and PLC, robotics and NC programs.

## **A partner in systems development.**

Using our knowledge of operations and our understanding of the interaction between equipment and IT, we are able to undertake a variety of systems development tasks; for example, systems for assembly assurance or post-production follow-up.

When developing systems, we work with analysis, design and implementation phases.

- The analysis phase includes inquiries to determine what requirements you have for the system being developed.
- The design phase includes the detailed specification of system functionality and the selection of a suitable technological platform and infrastructure.
- The implementation phase includes the realisation and implementation of the system solution. We also help here with the integration and start-up of purchased systems.

Wherever appropriate, these system solutions build on standard products developed by Volvo IT, which are supplemented and modified depending on the system and function; for example, CMS and PCOM. We also apply any international standards existing in a given area; for example OPC.

## **Long-term experience with systems management.**

Volvo IT has been responsible for the systems management and enhancement of installed process control systems associated with various plants in the

Volvo Group for a long time. This experience allows us to help you with qualified systems management of both internally developed systems and standard systems that have been purchased, including:

- Maintenance
- Enhancement
- Support

## **What your company stands to gain.**

- A support resource which will act as an independent expert in connection with purchase transactions.
- The option to outsource development and administration to Volvo IT.
- Learn from Volvo IT's many years of experience and industry competence in this area.
- A partner who is accustomed to working on projects together with clients that have a clear need for results with respect to time, cost and quality.

**CMS** is an assembly assurance system developed by Volvo IT which supports and safeguards the work of an assembly-worker. The assembly-worker has access on a display to assembly support information specific to the assembly sequence that he or she has to perform. CMS helps assembly-workers pick the right material, use the right number of screws and take the right steps in the right order.

**PCOM** is a communication interface between host systems and control systems, robots and similar equipment on the plant floor. PCOM makes it possible to develop host systems without requiring the application programmer to be familiar with the communications protocols for individual machine control systems.

**OPC** stands for OLE for Process Control and involves a standardised method of communication among equipment.

# **VOLVO**

**Volvo Information Technology AB**

[www.volvoit.com](http://www.volvoit.com)

Volvo Information Technology provides the Volvo Group, Volvo Car Corporation and selected customers with specialised skill and cost-effective solutions for all areas of industrial IT, including superior data centre operations and infrastructure.