



Customer-specific Complete Solutions

We integrate all components of a production line and develop in due consideration of those an integrated automation solution.

Your advantage:

By consequently merging all relevant information from horizontal and vertical levels, the conditions and the transparency are being established which are needed for a continuous improvement process with the objectives of quality assurance and efficiency.

We offer:

- PC-based Automation
- IT Solutions
- Industrial Measurement
- Human Machine Interfaces
- Consulting

Our services:

- Engineering
- Programming
- Installation/Errection
- Commissioning
- Education/Training
- After Sales Service

gesco is specialized in automation of complex manufacturing facilities. We have been concentrating on the development and realization of automation concepts since 1991.

With our experienced staff we assist our customers world-wide when erecting new plants, revamping existing plants or for in-plant optimization.

For our projects we use modern methods and technologies. We optimize the horizontal and vertical data flow using coordinated functions between the subordinate and controlling levels.

Using this procedure, the system offers the transparency and efficiency the operator needs for optimal operation. Also, aberrations are recognized at an early stage and appropriate solutions can be prefaced.



Consulting

Due to different motivations, many customers feel to be forced to upgrade their production equipment in the field of automation technology. Even though it seems to be easily at first sight, a closer look reveals problems, not least because of heterogeneously grown structures and missing or poor documentation.

We assist you with the analysis of the current situation and develop innovative and sustainable solutions to modernize your production facilities.

Our scope of supply:

- Analyses
- Feasibility studies
- Requirement specifications
- Duty books
- Project mentoring
- Evaluation of tenders

PC-based Automation

We solve challenging automation tasks with our **programmable automation controllers (PAC)**.

Based on **CompactPCI** and **IPC hardware**, we build rugged, scalable and powerful systems and equip them with **real-time operating systems** (Linux, Windows). Tailored applications are developed with powerful high level languages (C++) or with a programming environment for programmable logic controllers (CoDeSys or SIMATIC WinAC RTX). In many cases, a mixture of both is applied.

For increasing the **availability**, all systems above field-bus level can be designed **redundantly** if needed.

IT Solutions

Based on our **gesco Framework**, we develop **individual modularly structured** and easily extensible **technical application software**, level 2 systems and MES for the metal industry world-wide.

Our systems contribute with different modules significantly to **quality assurance** and **plant efficiency**. They can be applied selectively as isolated applications or as integrated solutions in combination with further modules or level 2 systems respectively MES. The following examples shall be mentioned:

- Material Tracking
- Order Tracking
- Warehouse Management
- Product Data Acquisition
- Computer-aided Quality (CAQ)
- Roll Management
- Energy Information Systems
- Technological Process Models

Customer-specific **product qualities become reproducible** and **resources will be saved** because of the integration of **technological process models**.

In conjunction with our **high available computer technology**, consistent **high efficiency** and **sustainable benefit** are ensured.

gesco Framework is a collection of useful classes and applications. With the integrated data dictionary, all process variables are being documented in sufficient extent. With this basis, the primary source code, include files and scripts are being generated.

With this procedure we, reach **short development times and startup phases**.

Industrial Measurement

We deliver and integrate measurement technology, which is needed for control technology as well as for quality assurance. By merging spread particular information from all process chains and by applying specific analysis methods, valuable information arise, which adds conclusions in terms of stability and reproducibility of processes and which is conducive to quality assurance.

With our high available computer systems, we save collected data over years and provide a platform for its analysis.

For single products, which have to fulfill specific standards, tools for analysis and report generation are being provided.

Scopes of application:

- Collection of product data
- Profile measurement of flat and long products
- Speed and length measurement
- Flatness measurement
- Thickness measurement
- Surface inspection

