

**QUIPSY®**  
**CAQ - SOFTWARE**  
ERP SYSTEMINTEGRATION · BDE SYSTEMINTEGRATION · MES SERVER



## QUIPSY CAQ software for your organisation

QUIPSY CAQ is a completely modular software system which can handle all the requirements involved in modern quality management.

With QUIPSY CAQ, quality assurance is a milestone and an initial step to a productive future. For many years the demands on operational quality assurance have been increasing and compliance with current standards and their systems is, of course, essential.

QUIPSY CAQ is a total package which unites the demands of production personnel and company management in a single, uniform system. Every day, hund-

reds of companies enjoy the benefits of fine-tuned operator checking; thousands of incoming shipments are handled every day in Goods Inwards departments around the world, swiftly and securely with high-efficiency QUIPSY CAQ.

Whether you are dealing with drill-down analyses, situative reporting, professional presentations or notes for top management: all the requirements of today's quality management are completely covered.

QUIPSY CAQ is integrated in your own ERP system, ensuring redundancy-free data exchange.

Test and inspection contracts are generated automatically, comprehensively and on time; feedback on failures is reported to the ERP system.

QUIPSY CAQ is the most important building block for a quality function which aims to be professional and forward-looking.

# Contents

The company	4
ProSeS and the MES Group	6
QUIPSY CAQ modules : an overview	7
<b>Advanced quality planning</b>	
» QUIPSY CPL (Control-Plan)	9
» QUIPSY FMEA (Failure Mode & Effects Analysis)	10
» QUIPSY PAPL (Process Sequence plan)	11
<b>Quality assurance</b>	
» QUIPSY EMPB/PPAP (initial sample inspection reports)	14
» QUIPSY infra-CONVERT (CAD data importing)	15
» QUIPSY CAQ wit the following functions :	16
Master data management / system management	17
Test / inspection planning	18
WE / LBW (Goods Inwards & Supplier Assessment)	19
SPC (Statistical process data control)	20
WA (Goods Outwards Inspection)	21
Reporting systems / Report-Editor	22
Assessments / evaluations	23
Q-FOCUS (Quality monitor)	24
<b>Measurement data logging</b>	
» QUIPSY MSP (measurement stations)	25
» QUIPSY AUTOMESS (automated measurement)	26
<b>Failure management systems</b>	
» QUIPSY RB (handling rejects)	29
<b>Test/inspection equipment departments</b>	
» QUIPSY PMV (managing test/inspection equipment)	30
<b>Integration modules</b>	
» QUIPSY PIT (PPS/ERP Interface toolbox), QUIPSY MES, QUIPSY BDE	31
Consulting	33
Project management	34
Service and maintenance	35

## QUIPSY – THE COMPANY

### A story of success for more than 25 years

QUIPSY QUALITY is one of the leading companies in the CAQ sector. More than 1200 customers in all areas of industry and commerce depend on our software and our know-how.

The company was founded in Pforzheim, Germany in 1985 as CDE GmbH. In 2002 the company name was changed to QUIPSY QUALITY, as the QUIPSY CAQ product had become extremely important in the intervening years.

The company was founded in Pforzheim on purpose: this region has many top technology companies in the automotive and automobile industry supply sectors.

The universities of Karlsruhe, Pforzheim and Stuttgart are not far away. In this environment, QUIPSY QUALITY develop CAQ products for a wide range of users. Over the years we have gained more than 1200 customers for our products and carried out over

12 000 installations. You gain from our experience!

Since November 2015 the company is part of ProSeS BDE GmbH which has more than 20 years of experience in the plastics, metal and automobile industry and whose aim is to ensure that QUIPSY CAQ software products continue to be developed further, for specific industrial sectors and on an international basis.

#### Our aim

Software projects in the MES and CAQ environment demand a high degree of engineering talent and technical know-how. The solutions we provide are de-

veloped by practical people for practical people. In the forefront is the need for user-friendliness, functionality and uniformity; complex procedures must remain in the background. Project consultancy, meeting deadlines and after-sales service ensure your continuing satisfaction and our success. You will find us a dependable partner, working for you to provide the latest technical developments and services under fair conditions.



## Perspectives

QUIPSY QUALITY has been one of the leading companies in the CAQ sector for more than 20 years. The secret of our success has been and remains a reliable and unchanging business policy. We follow only secure trends which we can put into effect at the right time in our products.

We continuously monitor changes in standards and technical innovations and include these constantly in our software. In this way we at QUIPSY protect your investment and reduce the amount of administration involved, since our products can be integrated in practically any IT infrastructure.

Our consultants and project managers will support you in the introduction of internal and external quality processes and infrastructures. We will work with you on technical projects involving software, from the planning stage through to final installation and we will support you with certifications and audits.



## QUIPSY AND THE MES GROUP

ProSeS, QUIPSY and OS data systems – a powerful partnership covering cross-system quality, production and time data management



The name MES (derived from Manufacturing Execution System) established a significant milestone in setting the requirements for outstanding production.

At QUIPSY QUALITY we have known for a long time that quality assurance and quality management must be closely linked with other operating control systems.

It was for this reason that in 2002 it was decided to form the MES Group. We started by developing an MES concept. As a partner in the MES Group, QUIPSY handles the technical data-processing aspects of quality management (CAQ) and combines these with the areas of production management (BDE/MDE), time data management and production control

centres as a single system. Integration with the business management system (ERP) enables this to be expanded on-line with operative process data.

The result is transparency, security and flexibility throughout the entire production process, together with the creation of preventive company control.

The MES Group customer-base includes many well-known names in the plastics, metal and automobile industries, firms in the electro-technical/electronics sector, pharmaceutical companies, machine-tool manufacturers, companies in the aircraft and space industries and the wood processing industry.

### An overview of the MES Group

**ProSeS BDE GmbH**  
Pforzheim / Germany  
[www.proses.de](http://www.proses.de)

**IVS Zeit + Sicherheit GmbH**  
Trossingen / Germany  
[www.ivs-zeit.de](http://www.ivs-zeit.de)

**econ solutions GmbH**  
Straubenhardt / Germany  
[www.econ-solutions.de](http://www.econ-solutions.de)

# QUIPSY CAQ

## The modules : an overview



### QUIPSY CPL

Creating & managing control plans for prototypes, pre-production and full production. File linking at control plan and process sequence level. Planning of test, checking and inspection operations for the entire added-value chain. Control plan forms to QS-9000. Automated information and change management.

### QUIPSY FMEA

Process FMEAs; Design FMEAs  
Product FMEAs/Matrix, Tooling FMEAs  
Reports in accordance with standards

### QUIPSY PAPL

Process sequence plan  
Product documentation

### QUIPSY EMPB/PPAP & infra-CONVERT

Automatic stamping of 2D drawing files; carry-over of characteristics from CAD data, tolerance tables, QS-9000 forms, VDA forms, inter-lining of measurement machines. Logging and assessment of data from individual tool impressions.

### QUIPSY CAQ mit den Funktionen

- Management of master data and system data
- Test / inspection planning
- Goods Inwards / Goods Outwards inspection
- Supplier assessment
- Measurement data logging
- Simple image processing
- SPC, qs-STAT inside
- Q-FOCUS Quality monitor
- Reporting systems; comprehensive assessments
- Process capability studies
- Machine capability checks

### QUIPSY MSP

Variable and attributive measurement data logging, configurable surface. Event-controlled reports by e-mail and SMS

### QUIPSY AUTOMESS

Measuring from files. Event-controlled reports by e-mail and SMS



#### **QUIPSY RB**

Reject logging (also web-based)  
 Internal rejects  
 Customer rejects / supplier rejects  
 Rejects management  
 Analyses of rejects and weaknesses  
 Reporting systems (8D reports)

#### **QUIPSY MGMT**

PDCA status  
 Escalation plan  
 Action monitoring

#### **QUIPSY PMV**

Reminder lists; assessments; reports

#### **QUIPSY PIT (PPS/ERP Interface)**

Standard links to PPS/ERP system: Sage  
 bäurer, SAP, Infor, ABAS, Baan, Navision,  
 XPPS, Fauser, Avista, AP, Sage KHK, Weka-  
 soft, PSI Penta, Trend and many more.

Extended integration with ProSeS (BDE/  
 MDE) and Schwer und Kopka,  
 standard links to various BDE systems



# QUIPSY CPL Control-Plan

From prototypes to full production -  
the perfect documentation for your products

QS-9000 and ISO/TS 16949 demand comprehensive documentation of the monitoring of products and processes. The QUIPSY control plan enables the user to produce documentation in accordance with standards, covering all the process operations in all the phases of development of a product.

The system covers the three phases of product creation : prototypes, pre-production and full production. Test / inspection plans which already exist can be used as forms in drawing up a control plan.

Changes to the QUIPSY Control-Plan have a direct effect on the test / inspection

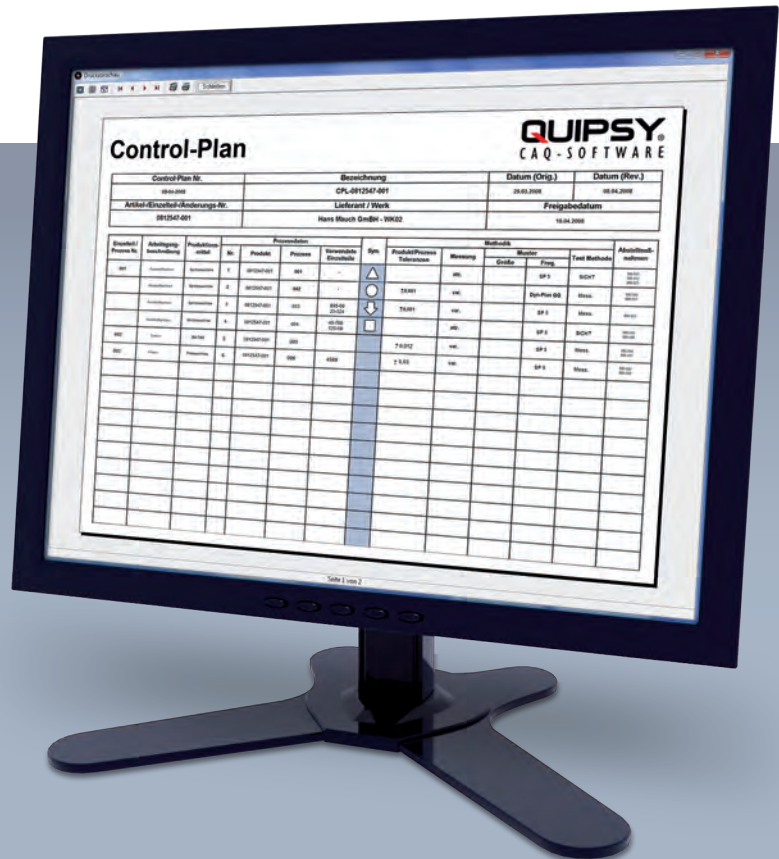
plans and vice versa. This is achieved by a direct link to the test / inspection planning module. Taking the QUIPSY FMEA matrix it is possible to extract a number of lines from the Process FMEAs to create a control plan. The characteristics are generated from the work operation and can be extended as required in the QUIPSY control plan.

An assistant function is provided for generating the various test/inspection plans (GI, SPC, GO, ISIR). This supports the

facility through to the final test/inspection plan and makes the process much easier. QUIPSY CPL can also be used without the FMEA module.

## Features and advantages

- » Overview of all control plans
- » User-friendly – extremely easy to operate
- » Status: New / Process / Release / Provisional Release / Quarantine
- » Prototype, pre-production and full production
- » User management
- » Access to old issue levels
- » Historical record of the control plan
- » Search functionality
- » Copy function



# QUIPSY FMEA Failure Mode & Effects Analysis

The flexible tool for planning Design and Process FMEAs

QUIPSY FMEA is a science-based failure mode & effects analysis using the latest technology. It uses a logical screen display with tree structures to show immediately the inter-links in the knowledge data-base. Where causes of failure are involved, a list of suggestions can be called up, assembled on the principles of similarity, as a background to the process under examination.

The action monitoring function can be used as a control instrument, calling up useful information on known data, with integrated an Pareto and risk analysis. You decide for yourself the degree of detailing in the documentation. Ease of

operation and powerful performance are the hallmarks of QUIPSY FMEA.

QUIPSY FMEA meets the requirements of VDA, QS-9000 and ISO/TS 16949. The analysis of quality risks, through to the introduction and implementation of corrective actions, is supported by QUIPSY FMEA.

QUIPSY FMEA helps to ensure the quality of products and processes before the start of full production and provides effective prevention of failures, thus minimizing risks and optimizing quality in your production. As always, an FMEA is the most important tool in preventing defects

in products and processes. QUIPSY FMEA accompanies the FMEA team in all stages of the process, through to the introduction and execution of preventive actions.



## Features and advantages

- » „Top Ten“ risks to be minimized (RPN-Pareto)
- » Easily understood tree structure
- » Reporting to VDA and QS-9000 with freely adaptable forms
- » Process matrix showing which process plays an important role for which article
- » Suggestions from a self-teaching data-base
- » Integrated action monitoring
- » FMEAs for process, design, product and tooling

# QUIPSY PAPL

## Process sequence plan

Documented product quality, clearly presented and in accordance with standards, from Goods Inwards to the shipping department.

There are many factors which influence secure product quality and these are to be found both in the manufacturing process and elsewhere in the organisation. As a product passes through the production area, it undergoes many process operations which can have an effect on its quality characteristics. These are not necessarily always directly associated with the processing of materials – they can often depend on transport and storage. It is therefore essential for advanced quality planning to take account of all the processes which the product will undergo.

QUIPSY PAPL supports the advanced planning of quality assurance from the

very start, by bringing all the various processes (including transport, storage, processing, etc...) into a documented sequence, thereby achieving „end-to-end“ quality assurance.

The plan provides both standard and also individually definable processes with related symbols. Recording the process sequence in accordance with standards is child's play, thanks to the integrated document forms, which can be modified at any time.

It is even easier with regard to integration with the QUIPSY FMEA process matrix : a click of the mouse will generate the

process sequence plan from this display – a practical feature, where existing processes are already recorded in QUIPSY FMEA. Of course, it is not essential to use the FMEA function in order to operate the QUIPSY PAPL module; however, they make an effective combination.

With the QUIPSY process sequence plan all the factors with an influence on the quality of a product are documented clearly and in accordance with standards, and can be accessed throughout the organisation.

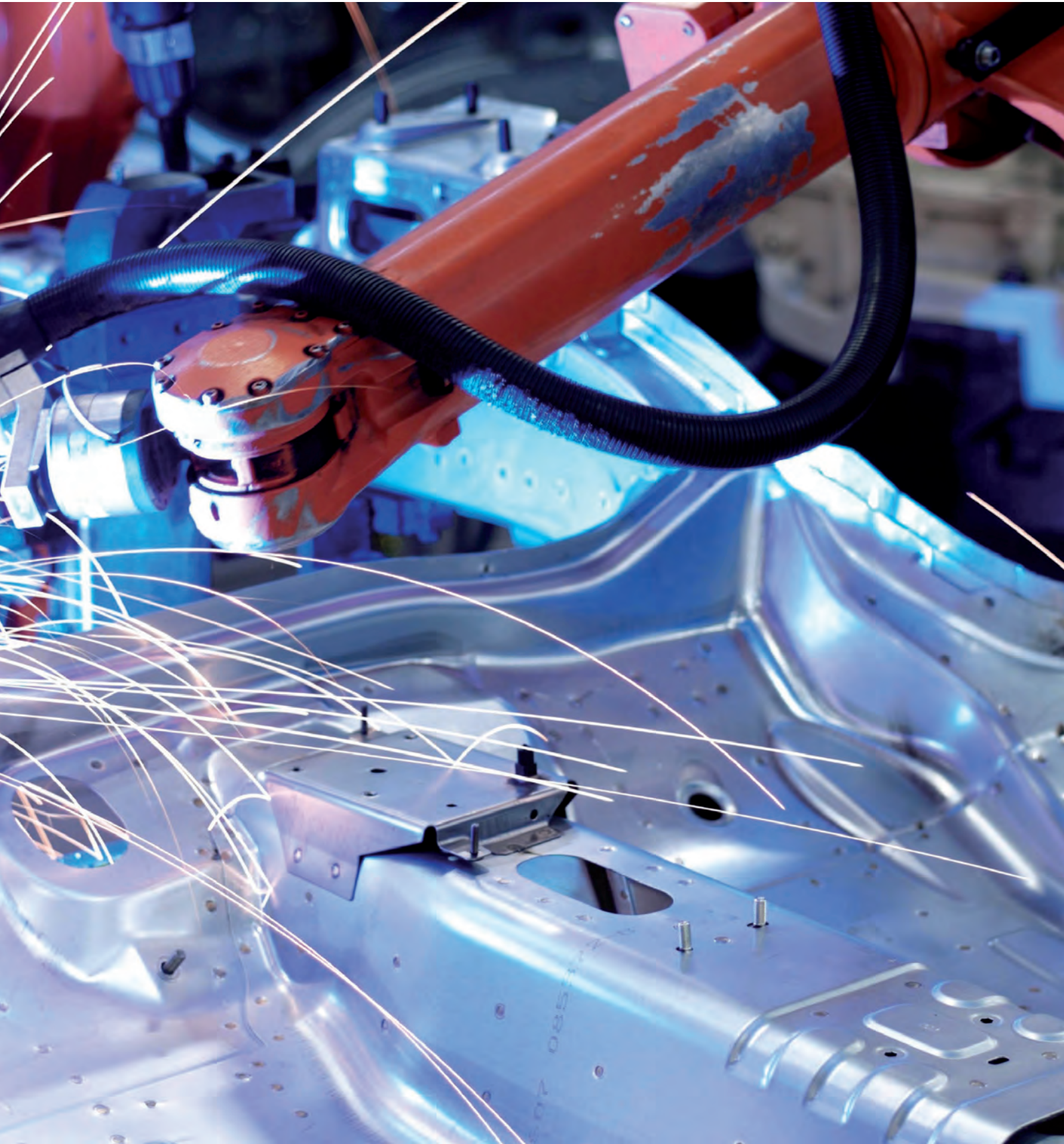
### Features and advantages

- » Documentation of the path of the product as it passes through the company
- » Overview of all process sequences
- » Optional integration in QUIPSY FMEA makes advanced quality planning a simple matter
- » User-friendly – extremely easy to operate
- » Clear presentation in tables with symbols
- » Reporting function with freely adaptable forms











# QUIPSY EMPB/PPAP

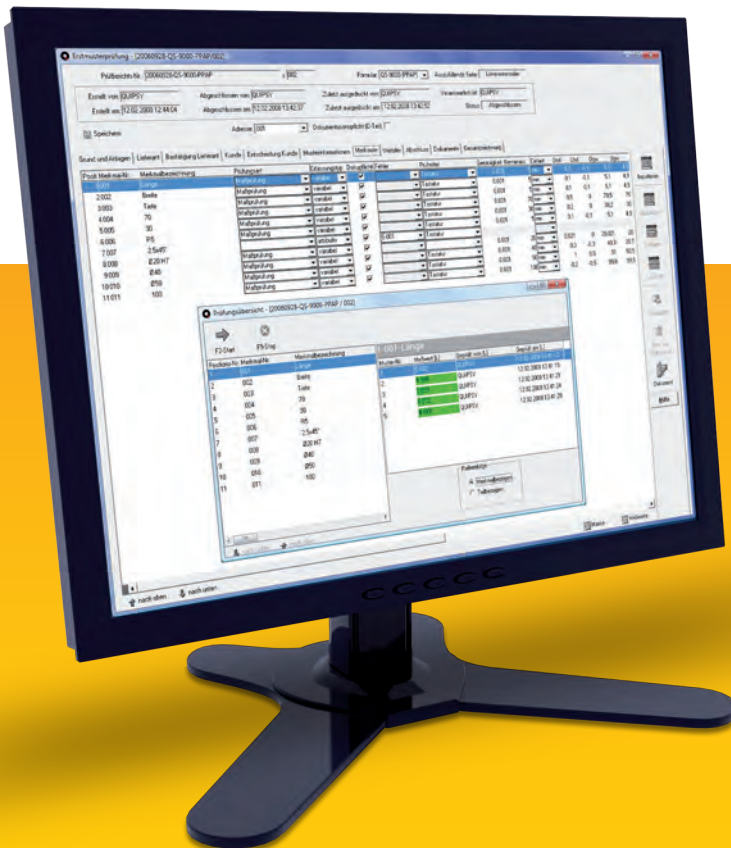
## Initial sample inspection reports

Support in the planning, execution and documentation of initial sample inspection reports

QUIPSY EMPB/PPAP supports the planning, execution and final documentation of initial sample inspection reports. In this, QUIPSY EMPB/PPAP provides both standard initial sample inspection reports and also forms which the user can define

individually, using QUIPSY Report-Editor to cover his/her individual requirements. Article data from QUIPSY EMPB/PPAP can be processed in other QUIPSY modules for later quality documentation. This can include the transfer of widely varied data, such as tolerances, to other QUIPSY modules.

With the optional CAD-Import (see following page) QUIPSY EMPB/PPAP guarantees a high degree of data integrity. Hundreds of characteristics can be included quickly and easily in the initial sample tests and stamped digitally.



### Features and advantages

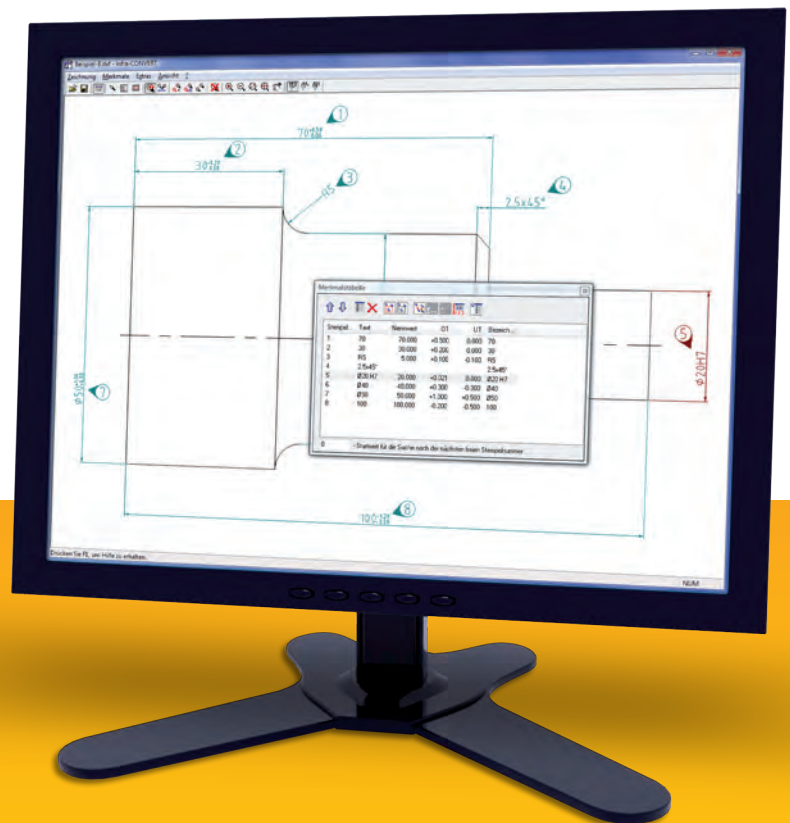
- » VDA forms
- » QS-9000 forms  
(including PPAP 4th Edition)
- » Customer and supplier presentations
- » Individual customer / supplier forms
- » CAD data adoption from Infra-CONVERT
- » Automatic creation of test/inspection plans
- » Linkage of measurement machines to adopted measurement values
- » Logging and assessment of data from individual tool impressions.
- » Transfer of article characteristics  
(e.g., for GI, shipping or SPC checks)

# QUIPSY INFRA-CONVERT CAD data importing

Automatic stamping of drawing data and transfer of data to QUIPSY EMPB/PPAP

The Infra-CONVERT module is a logical extension to QUIPSY EMP/PPAP. With this software it is possible to stamp automatically any drawings made available to you in DXF, DWG or IGES formats and to transmit data on characteristics to QUIPSY EMPB/PPAP. Here the data will be available for further processing – for example in test/inspection plans.

Infra-CONVERT is started from the QUIPSY display and offers many features which in future will make the stamping and logging of characteristic data in initial sample inspection reports very much easier.



## Features and advantages

- » Stamping DXF, DWG and IGES drawings and texts
- » Later stamping of drawings which are already stamped
- » Transfer of stamped characteristics to QUIPSY EMP/PPAP
- » Individual layout of drawings for stamping
- » The stamped overall drawing is automatically allocated to the ISIR
- » Characteristics tables for characteristics which are not tolerated
- » Transfer of additional characteristics not included in the drawing
- » Free determination of stamping sequence

**QUIPSY CAQ-Package**

- » Master data
- » Test planning
- » Goods Inwards & Supplier Assessment
- » Process data control
- » Goods Outwards
- » Reporting systems
- » Assessments
- » Q-FOCUS

# QUIPSY CAQ

## Computer Aided Quality

A comprehensive set of modules for logging and assessing quality-related measurement data

QUIPSY CAQ forms the basis for comprehensive quality assurance. With its wide range of functionalities, this module forms the central element of the QUIPSY system.

CAQ accompanies your quality management, from the initial drawing up of master data, through test/inspection planning, to the comprehensive documentation and assessment of your Goods Inwards operations, your production and the checks carried out in your shipping department. With integrated qs-STAT

you have the guarantee that QUIPSY CAQ will provide you not only with a huge range of statistical evaluations but also a written record of your quality data (for example, in the form of quality reports) for your customers.

QUIPSY CAQ also contains a Report-Editor to adapt customer-specific reports. You have full control at all times over your entire quality assurance operation and can detect trends, enabling you to take early action before processes become unreliable. Your quality will show continuous improvement ! QUIPSY CAQ is fully integrated and linked in the overall QUIPSY system.



### Individual functions in the QUIPSY CAQ package :

- » Management of master data and system data
- » Test/inspection planning
- » Goods Inwards movements (WE)
- » In-process checks (SPC)
- » Shipping movements (WA)
- » Measurement data logging
- » SPC, qs-STAT inside
- » Reporting function / Report-Editor
- » Full integration and linkage to the overall QUIPSY system

# QUIPSY CAQ

## Master data and system data

Logging and managing master data and system data as the basis for working efficiently with QUIPSY CAQ

System data and master data are the basis and the most important element for successful operations in a quality management system. The system data contain all the important setting parameters for the QUIPSY system. You can specify users, user authorisations and test/inspection station layouts here, simply and clearly.

The successful deposition of master data is crucial for working efficiently with QUIPSY CAQ. Very often master data are taken from ERP systems and processed directly. Thus, QUIPSY CAQ, even without a link to ERP/PPS, can be used to the same degree as an individual solution. Master data specific to QUIPSY CAQ, such

as defects or actions, are summarized in lists which are then available for use in all other QUIPSY modules.

In this way it is ensured that uniform terms, expressions and procedures are used throughout the system and this is extremely useful when considering assessments and analyses. The integrated image processing provides the user

with visual information on articles and / or their characteristics. Images can be processed at a later stage and provided with text and symbols.

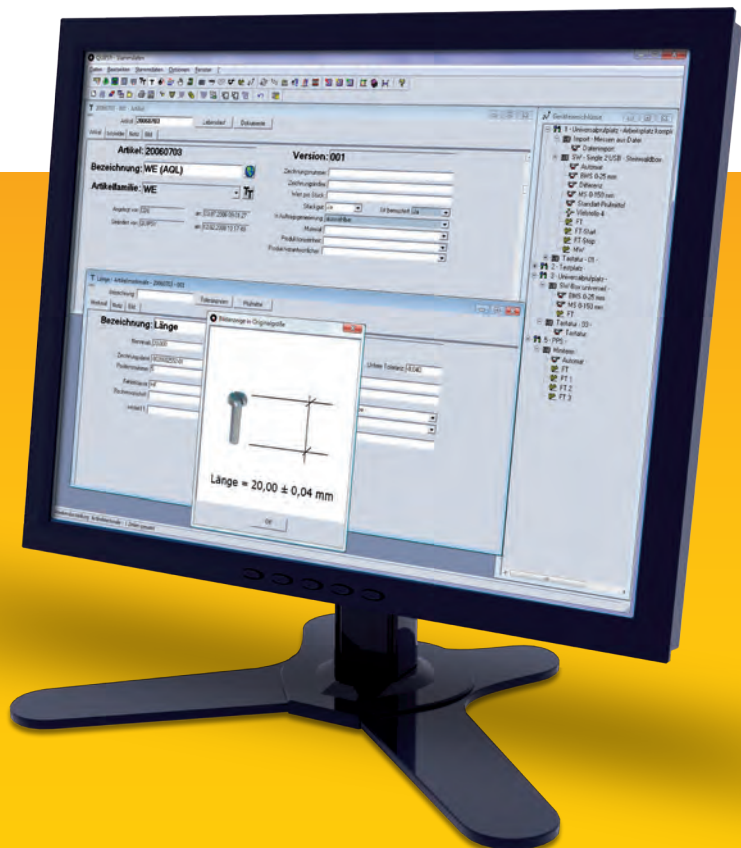
Documents for the QUIPSY system are also logged in the master data, where they are managed and made available to further modules.

QUIPSY CAQ-Package

- » Master data
- » Test planning
- » Goods Inwards & Supplier Assessment
- » Process data control
- » Goods Outwards
- » Reporting systems
- » Assessments
- » Q-FOCUS

## Features and advantages

- » Comprehensive authorisation system based on roles and personnel
- » Possible linkage to ERP/PPS systems (QUIPSY PIT required)
- » Central definition of listings
- » Article management
- » Clear display of record cards
- » Integrated image processing
- » Document management for QUIPSY documents
- » Sector-specific re-naming of field names



## QUIPSY CAQ-Package

- » Master data
- » Test planning
- » Goods Inwards & Supplier Assessment
- » Process data control
- » Goods Outwards
- » Reporting systems
- » Assessments
- » Q-FOCUS

# QUIPSY CAQ

## Test/inspection planning

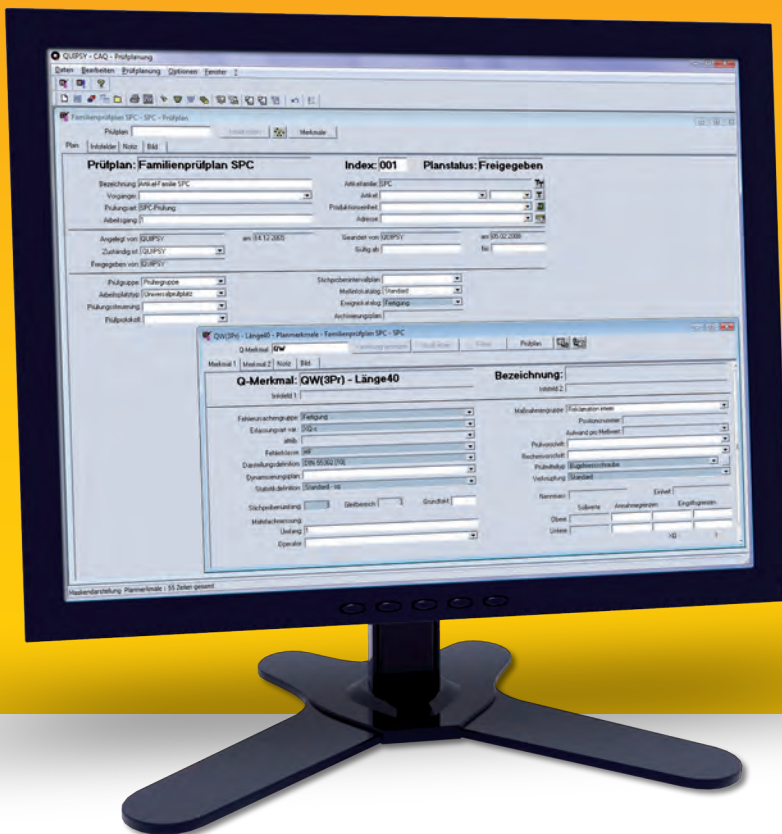
Layout of family-related and product-related test/inspection plans for Goods Inwards, SPC and shipping department

Test/inspection planning is a central building block in QUIPSY CAQ. With QUIPSY test/inspection planning you can save time and work when examining article families.

The system supports a wide range of test and inspection procedures. The test/inspection order can be generated manually or fully automatically in coordination with the ERP/PPS system. Severity levels for tests and inspection, such as the „skip-batch“ procedure, test/inspection plan history, integration of all standard listings and much more, are all taken into account in the QUIPSY test/inspection planning.

QUIPSY test/inspection planning is used equally effectively in Goods Inwards, SPC and in the shipping department. This has the advantage that different trains of thought do not need to be applied to the individual areas. As with the master data, test/inspection planning includes image processing, which enables the images displayed to be modified to suit specific requirements.

The carry-over of test/inspection plans is also included in the functionality, as is the control of complex test/inspection operations which can also be constructed at a characteristics level with graphic tools.



### Features and advantages

- » Test/inspection plans for product families
- » Article-related test/inspection plans
- » Automatic generation of test/inspection orders from ERP/PPS systems (QUIPSY PIT required)
- » Test/inspection plans can be carried over
- » Graphic control of complex test/inspection sequences
- » Integrated image processing



# QUIPSY CAQ

## Goods Inwards & supplier assessment

QUIPSY CAQ-Package

- » Master data
- » Test planning
- » Goods Inwards & Supplier Assessment
- » Process data control
- » Goods Outwards
- » Reporting systems
- » Assessments
- » Q-FOCUS

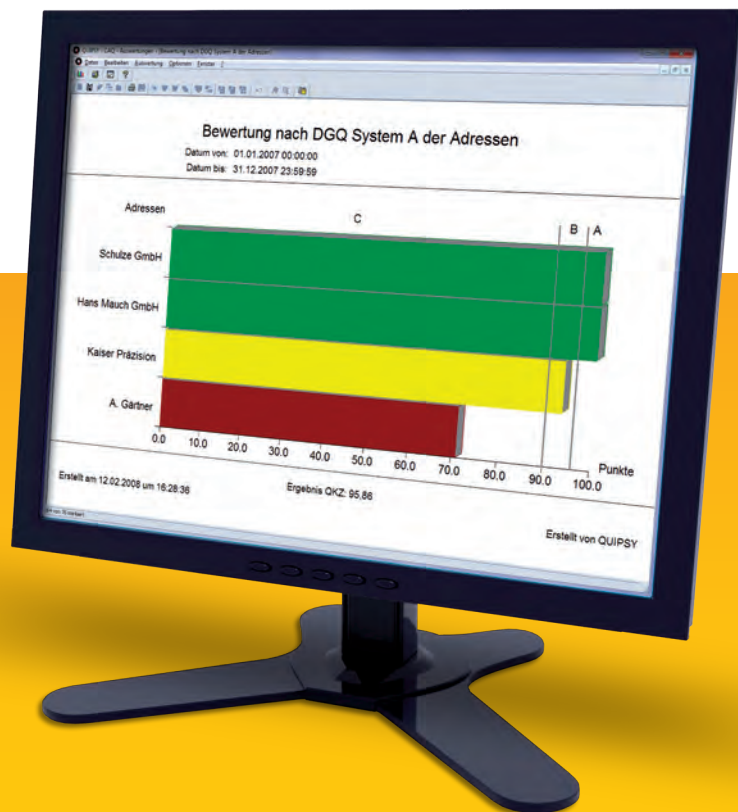
Effective checks on incoming shipments, with integrated supplier assessment to current standards and methods

Implementing QUIPSY CAQ as part of your incoming goods procedures brings the great advantage of reducing drastically the amount of checking and inspection, while at the same time increasing dramatically the stability of delivery quality.

Random sampling and dynamization procedures provide automatic support where a wide range of inspection procedures must be used for different suppliers. In association with an ERP/PPS system, goods requiring checks and inspection are prepared automatically in QUIPSY and, following successful feedback in the ERP/PPS system, are released for further processing.

In addition to the test and inspection results on the products received, general data regarding quantities and arrival times can be logged, together with additional information such as batch numbers. All the data recorded are immediately available for evaluation using statisti-

cal test procedures, Pareto analyses and other methods of calculation. The integrated supplier assessment system can be tailored for individual companies. The assessment matrix provides an overview, at a glance, of A/B/C suppliers and their associated quality metrics.



## Features and advantages

- » Fully automatic test severity regulation
- » Automatic reporting of defects and rejects\*
- » Automatic generation of test orders from the ERP/PPS system \*\*
- » E-mail advice if a delivery is rejected
- » Recording of batch and tool-related information
- » Re-evaluation of the inspection batch if defects are found at a later stage
- » Pareto analyses of supplier and products; analyses of ABC suppliers
- » ppm assessments and histograms
- » Probability networks, etc.
- » Article-specific comparison of suppliers

\* QUIPSY RB required

\*\* QUIPSY PIT required

## QUIPSY CAQ-Package

- » Master data
- » Test planning
- » Goods Inwards & Supplier Assessment
- » Process data control
- » Goods Outwards
- » Reporting systems
- » Assessments
- » Q-FOCUS

# QUIPSY CAQ

## Statistical process data control

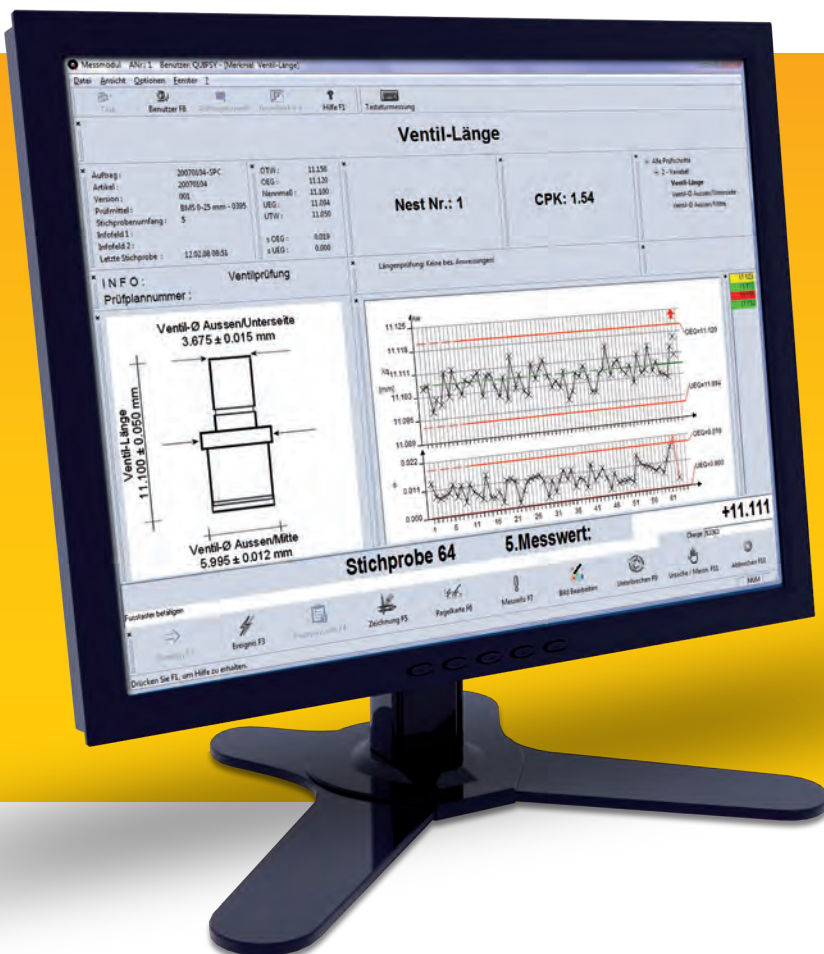
Continuous monitoring of all quality-related data in production processes

Statistical process data control provides information on the performance level of your production processes. A user-friendly interface, with links to electronic test/inspection equipment and measurement devices, results in reduced checking times and costs, as well as preventing incorrect entries.

Even unskilled users are able to work with the clearly designed user interface practically immediately. As further support, the necessary test/inspection instructions and CAD data are available at the click of a button. In addition, the user is supported with illustrations and

videos. When measurement figures are entered or adopted, a plausibility check is made to ensure that no defects have occurred in the process. Automatic warning advice as on-line messages, as well as information by SMS or e-mail, is also integrated, as is statistical process monitoring in accordance with VDA, QS-9000, ISO/TS 16949 etc.

In the SPC sector, QUIPSY CAQ operates with various modules such as QUIPSY VMESS or QUIPSY AUTOMESS. This guarantees comprehensive process data control with the facility for expansion in many directions.



### Features and advantages

- » Fully automatic control of test/inspection frequency in accordance with standards & independent plans
- » Fully automatic control of the checking frequency for individual characteristics
- » Automatic rejects \*
- » Comprehensive reporting systems
- » Process and machine capability studies
- » E-mail / SMS reporting of process deviations
- » Recording of batch and tool-related information
- » On-line CPK display
- » Automatic generation of test orders from the ERP/PPS system, etc. \*\*
- » Automatic feedback to BDE, ERP/PPS etc.

\* QUIPSY RB required

\*\* QUIPSY PIT required

# QUIPSY CAQ

## Checks on outgoing goods

- QUIPSY CAQ-Package
- » Master data
  - » Test planning
  - » Goods Inwards & Supplier Assessment
  - » Process data control
  - » Goods Outwards
  - » Reporting systems
  - » Assessments
  - » Q-FOCUS

Effective checks on outgoing goods in accordance with current standards and methods

In addition to covering comprehensive goods inwards and SPC checks, the QUIPSY CAQ module also documents checks on outgoing goods. Documentation of outgoing goods can be generated automatically from an ERP/PPS system and then quickly made available for measurement data logging via a user-friendly interface.

Data can be logged manually or with linked on-line measurement equipment. In association with the reporting function and the assessments provided from QUIPSY CAQ, the outgoing goods checks complete the test/inspection requirements in all areas of the organisation.



### Features and advantages

- » Comprehensive reporting systems with pre-definable assessments and freely adaptable forms
- » Automatic rejects \*
- » Automatic generation of test orders from the ERP/PPS system, etc. \*\*
- » Automatic feedback to BDE, ERP/PPS etc. \*\*
- » E-mail / SMS reporting
- » Recording of batch and tool-related information
- » Integrated image processing

\* QUIPSY RB required

\*\* QUIPSY PIT required





# QUIPSY CAQ Evaluations

Total analysis of all quality data

- QUIPSY CAQ-Package
- » Master data
  - » Test planning
  - » Goods Inwards & Supplier Assessment
  - » Process data control
  - » Goods Outwards
  - » Reporting systems
  - » Assessments
  - » Q-FOCUS

The assessment functions integrated in QUIPSY CAQ offer a wide range of possibilities when consolidating your quality data in different forms.

At the click of a button, pre-constructed analyses can be called up and displayed in seconds. Statistics are produced as required and in accordance with all the rules. qs-STAT inside guarantees the quality of statistical forecasts. Monthly assessments, ad-hoc evaluations, reports and lists – all these can be created quickly and easily.

Refining and splitting metrics in accordance with the „top-down“ principle

make it possible to surf graphically through the quality situation.

When combined with comprehensive filter and sort functions, QUIPSY CAQ represents a powerful tool which will present you, quickly and reliably, with the quality situation in your organisation.

## Features and advantages

- » qs-STAT inside guarantees the integrity of the metrics provided
- » Answers at the click of a button, based on pre-constructed assessments
- » Fine-tuning assessments on the „top-down“ principle
- » All data, down to individual measurements, can be called up and evaluated in a matter of seconds
- » Comprehensive analyses, such as process analyses, quality reports, Pareto information, etc.
- » Support for regular analyses (monthly evaluations and ad-hoc interrogations)
- » Over 100 pre-constructed assessments in the standard package





## QUIPSY CAQ-Package

- » Master data
- » Test planning
- » Goods Inwards & Supplier Assessment
- » Process data control
- » Goods Outwards
- » Reporting systems
- » Assessments
- » Q-FOCUS

# QUIPSY CAQ

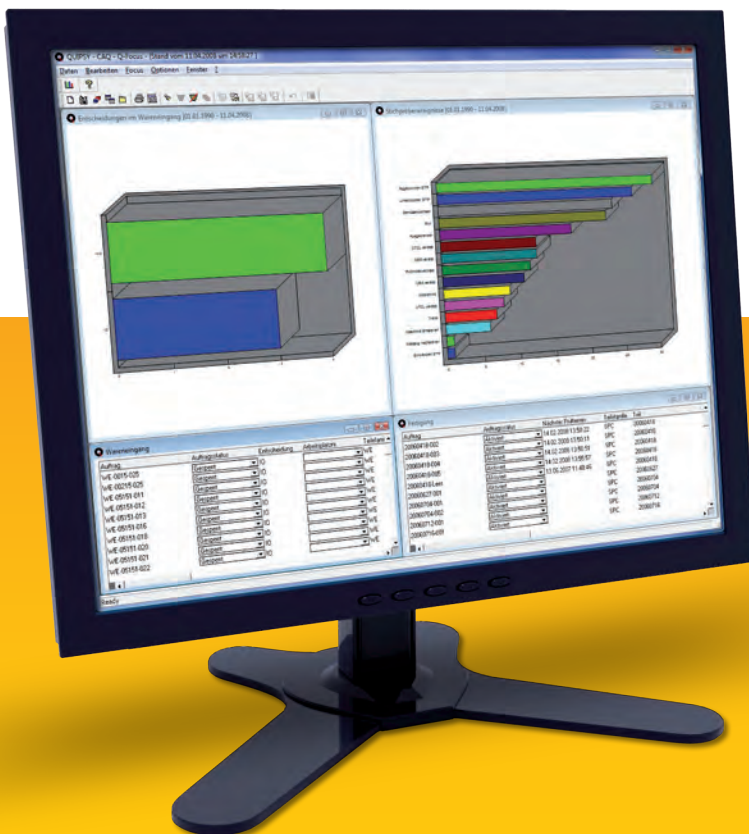
## Q-FOCUS quality monitor

Graphic presentation of the current situation in Goods Inwards, production and the shipping department

The purpose of QUIPSY Q-FOCUS is to provide a wide overview of QUIPSY CAQ. This module checks constantly in the Goods Inwards, Goods Outwards and SPC

areas to determine which test/inspection orders are logged there. It then checks the current status of these orders and looks for any events. QUIPSY Q-FOCUS presents tables or illustrations of current decisions relating to the test/inspection orders and of any events which have occurred.

Q-FOCUS is the ideal tool for the quality manager and top management, providing constant monitoring of quality data. QUIPSY Q-FOCUS has been deliberately designed to have a narrow and clearly defined list of functions. The user should be able to see an overview at a glance, so that decisions and actions can be taken promptly.



### Features and advantages

- » Continuous, central monitoring of all CAQ processes (Goods Inwards, SPC, Goods Outwards)
- » Automatic up-dating – no manual intervention required
- » „Live“ up-dated graphics always display the current quality situation
- » Information as Pareto diagrams and as tables

# QUIPSY MSP

## Measurement station

Easy-to-use unit with clear user interface for logging measurement data

The QUIPSY measurement module is the intelligent interface between man and machine. It is so easy to use that no knowledge of computers is required.

The QUIPSY measurement module can be used wherever measurement data must be logged quickly and in an uncomplicated manner.

While measurement data are being obtained, the measurement module communicates with the user and steers him/her through the various measurement processes. Conventional measurement equipment can be linked to the QUIPSY measurement module; alternatively the measurement data can be entered via the keyboard. It is also possible to connect reduced keyboards. The user can be supported by videos, digital illustrations and detailed test/inspection instructions.

### Features and advantages

- » As an option, measurement data can be entered using electronic measurement equipment
- » Visual feedback of test/inspection results to the user
- » CpK display during measurements
- » Flexible, adaptable screen display
- » Integrated image processing
- » Display of documents such as test/inspection instructions or drawings
- » Supports test/inspection equipment with several sensors per characteristic
- » Works with scanners and touch-screens
- » Optional links to measurement machines\*



\* QUIPSY AUTOMESS required

# QUIPSY AUTOMESS

## Automated measurement

Automatic inclusion of measurement data from measurement machines, production equipment and measurement islands

QUIPSY AUTOMESS is an extension module for QUIPSY MSP. Based on the specific equipment level, it may be necessary to obtain data from measurement machines, production equipment or automatic measurement devices. In particular, you can collect data which are generated in any case in the production area, store these data automatically within the context of quality data-logging and even monitor SPC stability criteria. Measurement machines, whether 2-D or 3-D and measurement data which you can manage digitally.

QUIPSY AUTOMESS collects these data automatically as a background function

and attaches them to the relevant test/inspection order. If this is an SPC order, QUIPSY will compare the rules defined in the order with the data received and take action accordingly. The scope of this defined and automatic action can be anything from sending an e-mail, to the automatic shut-down of a complete production process.

QUIPSY AUTOMESS automatically generates monitoring-related data and forwards these to the appropriate locations. Providing maximum security at a comparatively low investment cost, QUIPSY AUTOMESS is an essential element in a comprehensive CAQ system.

The automated collection of process-related measurement and test/inspection data is an important requirement in CAQ projects. More and more production equipment already have integrated sensor systems to collect quality data. Signals from these can be fed into the standard QUIPSY data format, where they can be evaluated, processed and compared with other data.

QUIPSY AUTOMESS automates data logging and closes the control loop which generates productivity and quality. In addition, QUIPSY AUTOMESS handles the automated integration of measurement machines.



## Features and advantages

- » Data transfer initiated by the measurement machine
- » No QUIPSY software required at the measurement machine : data are imported centrally on the QUIPSY server
- » Fully automatic test operations without the need for user intervention
- » Automatic data conversion from the file format while measurement takes place
- » Can be connected to practically any measurement machine











# QUIPSY RB Handling rejects

Logging rejects quickly and flexibly and generating comprehensive analyses

Dealing with rejects is a fundamental activity in any company. The way in which customers' complaints are handled is an important process, which can in the worst case be a knock-out blow for further customer relations.

The process for dealing with rejects will differ from one company to another. QUIPSY RB is a flexible tool which can be individually shaped to provide user-friendly operation so that it fits per-

fectly into the complex reject processing structure in your organisation. With the advantages of links to further QUIPSY modules, QUIPSY RB is the perfect system for handling customers' complaints and supplier rejects.

Based on progressive QUIPSY5 technology, QUIPSY RB makes it possible to design the module's graphic interface individually in order to display reject handling processes to suit your needs.

Extensive assessments of reject costs or main problem areas, etc., in association with various 8D reports, assist the user in his daily work with QUIPSY RB.

## Features and advantages

- » Supports the 8D procedure
- » Automatic logging of rejects from QUIPSY CAQ (WE/SPC/WA)
- » User-guidance by assistants
- » Automatic generation of e-mail reports
- » Optional Internet integration
- » Graphic status overview : what is the situation regarding findings and actions ?
- » Adoption of failures, causes and actions from QUIPSY FMEA
- » Freely adaptable mask view
- » Reporting with Report-Editor
- » Cost logging and assessment
- » Integrated deadline monitoring



# QUIPSY PMV

## Test/inspection equipment management

Quick and easy management of all test/inspection equipment, with extensive assessment features and sort functions

QUIPSY PMV is used to manage and monitor test/inspection equipment. By registering all such equipment as it is loaned out and returned, QUIPSY PMV not only tracks the movements of the

equipment; it also automatically up-dates the history records for the equipment. Graphic assessments display changes in the quality of the equipment and indicate any weak points which may develop.

The integrated form editor allows a wide range of reports to be generated and printed. In association with other QUIPSY modules, QUIPSY PMV will report when a piece of test/inspection equipment must be re-checked or re-calibrated.



### Features and advantages

- » User-friendly, simple interface
- » Graphic display showing test/inspection equipment status
- » Test/inspection equipment can be issued and returned at the push of a button, with full issue history
- » Management of checking dates and history
- » Reporting system with freely adaptable forms.

# QUIPSY PIT

## Data exchange with ERP/PPS systems

Flexible data exchange between a range of ERP/PPS systems and QUIPSY

QUIPSY PIT – the flexible data-exchange module between ERP/PPS systems and QUIPSY. At present the system supports the exchange of component master data, supplier master data, customer master data, Goods Inwards imports (generation

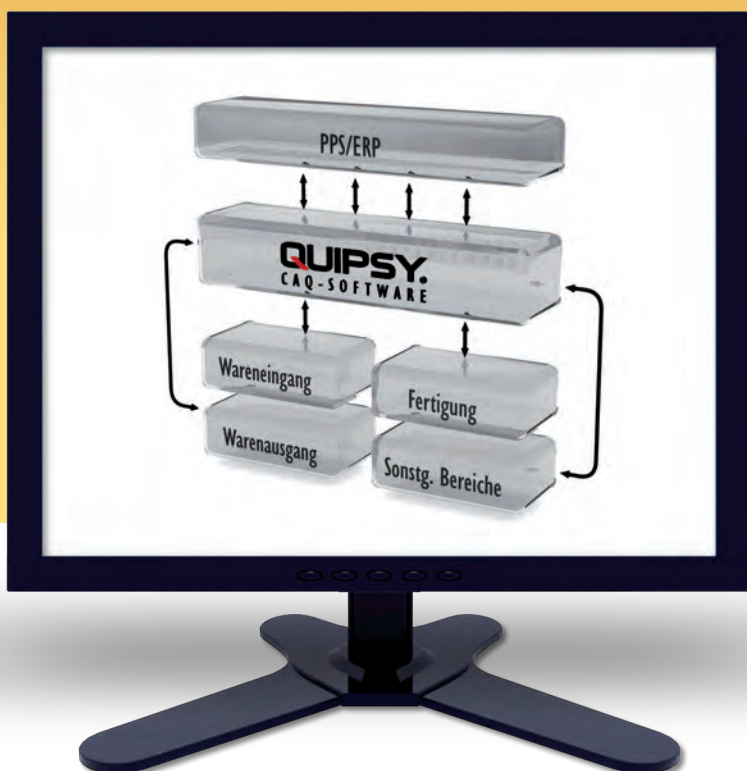
of test/inspection orders) and exports (feedback), SPC imports, the creation of test/inspection orders, Goods Outwards imports (generation of test/inspection orders) and many other functions.

The technical aspects of data exchange are handled with the aid of user-friendly data-exchange files. This is a stable procedure, which is proven and standard in IT and supported by practically all platforms.

An optional control feature enables the user to influence the configuration in such a way that his/her complex requirements are accommodated by simple changes

### Features and advantages

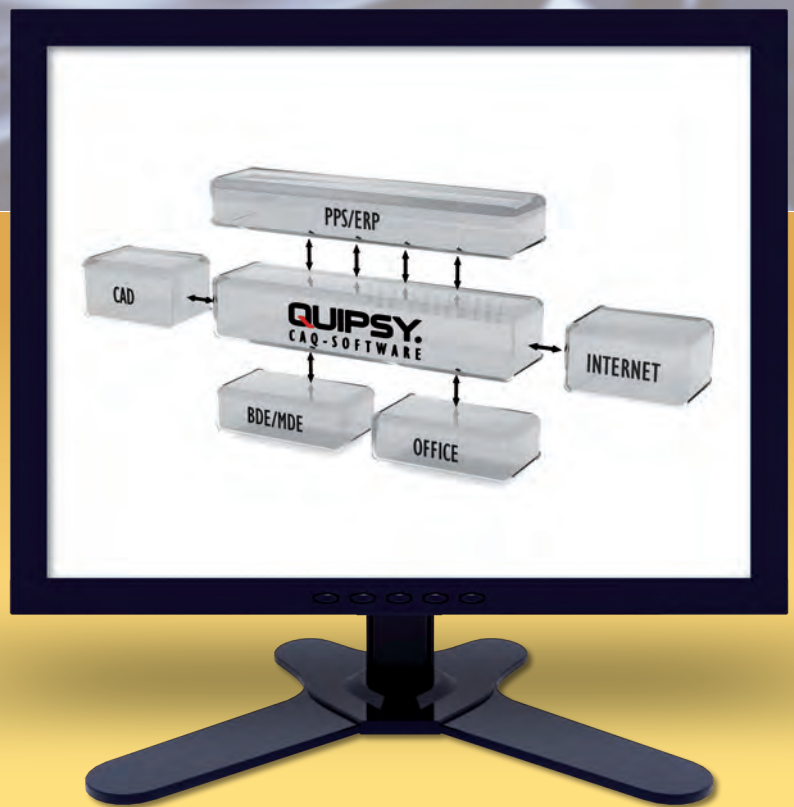
- » Permits communication between QUIPSY CAQ and BDE / PPS / ERP
- » Automatic order stop, start, release and quarantine by the external system
- » Prevents duplicated master data management
- » QA feedback to an external system – e.g., to initiate stock movements
- » ASCII-based
- » File-based
- » Data bank-based



## Links

QUIPSY PIT can be linked to ERP/PPS systems such as :

- » Sage bäurer wincarat
- » Sage KHK
- » ABAS
- » INFOR-ERP
- » XPPS
- » SAP R/3
- » Psipenta
- » AP-P2/plus
- » Navision
- » ProAlpha
- » and many other systems





## QUIPSY CONSULTING

### CAQ services for your company

QUIPSY provides professional and practical services on all matters relating to quality management

QUIPSY Consulting is a service function which will support you personally with a software, hardware or quality management project. You decide at what point in your planning you need support and we provide our consultants. We work with you to decide on the extent and content of the services required.

The services provided by QUIPSY Consulting are always tailored to fit. Each customer and user has an individual profile, which our consulting services will be designed to support. Each individual department in the company, from operator to management, can rely on fully appropriate advice. QUIPSY Consulting is exclusively oriented to the customer and user. It is not in any way consulting „off the peg“. This is what makes QUIPSY Consulting

so successful. We provide our consulting services at the customer's premises, in our offices or at a neutral location, depending on your requirements. All our training has been proven in practice and we provide concrete examples of relevant applications.

**Our services include :**

- » Individual and practical consultancy and training
- » Personal support in all quality areas
- » Efficiency checks on your QM system
- » Interim management
- » Planning, development and CAQ links for complex automated test/inspection and measurement procedures (measurement machines, scanner, test/inspection and measurement gauges)
- » Preparations for audits and certifications

## PROJECT MANAGEMENT to implement QUIPSY CAQ systems

Experienced specialists ensure the problem-free implementation of QUIPSY CAQ systems in your IT infrastructure

The problem-free integration of CAQ software in complex systems requires excellent project management in the same way as with any IT project. Our project managers are familiar with the conditions required to achieve a successful project. The objective of all our projects is always to reduce costs or extend functionality. Other objectives are agreed within the framework of project workshops and the associated milestones.

In defining the project, we take account of the overall IT strategy within the company organisation. The next stage is to consider the processes to be clarified, documented and implemented. The customizing facilities in QUIPSY make it possible to implement in the best possible way the improvements which are

found in the management of the project. Professional project management uses concentrated technical expertise to meet your expectations and ensure the success of the project.

Permanent reporting and constant fine-tuning with the customer and the personnel directly involved bring the project on course from the initial phase and ensure stable progress. In this context, our project managers set themselves the goal of executing the project at a maximum level of productivity, to the benefit of the customer.

After the project has been completed, the project manager remains responsible for it and will check progress with the project at regular intervals. At the end

of a project, the QUIPSY customer has a CAQ environment which suits his needs, as well as processes which help him carry out his daily work more quickly and securely, thus achieving significant competitive advantages.

The use of professional project management is never so rapidly visible as with QUIPSY CAQ projects. The total achievement of existing requirements and secure implementation of functions, even in complex installations, make QUIPSY project management perfect. With professional project management, the introduction phase for the CAQ system is significantly reduced and activities directed on the right track. The result is high productivity with low risk.

## SERVICE & MAINTENANCE

### Hot-line support and up-dating service

Experienced consultants and development engineers are at your side at all times to help with any questions you may have. A regular up-dating service takes account of developments in IT and standards procedures

For us, service is the opportunity to show our commitment to trust, perspective and expertise in problem-solving. The QUIPSY service concept puts the customer at the centre of things, where the following areas of particular emphasis are handled :

#### Hot-line support

- » Problem-solving
- » Support with release changes
- » Direct problem analysis and problem-solving by „PC visit“ (on-line direct access to your system)

For all our individual products we provide engineers with technical expertise who have been with us for years and who take full responsibility for solving your problems. In parallel with this, the project manager and

the development engineers and consultant responsible for the project are informed. They know all the details of the software systems installed for the customer and have further information.

#### Up-dating service

QUIPSY is constantly being revised and expanded. Many changes in standards in the IT sector result in high-speed innovation. QUIPSY takes this into account with a clear and fully traceable release policy. Not every event demands instant action – in the interests of the standards to be followed, a check is made as to whether there is a trend to be considered. Only then is this technology used.

In addition, QUIPSY service organises

workshops, system analyses, installations and training courses. The wide range of training and service we offer is intended to ensure that each and every user is in complete control of his program. Training is, of course, carried out with due regard for customers' individual requirements.

A CAQ system is only as good as the service. In the introductory phase in particular, it is essential for the user to have a direct line to us as the supplier. We can help quickly with expert advice, whether the problem is a software error or a user problem.

QUIPSY-Service is also your first point of contact for any maintenance requirements.



**QUIPSY**<sup>®</sup>  
CAQ - SOFTWARE





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Geschäftsführer: Andreas Reiling

A large, decorative graphic consisting of multiple thin, wavy lines in a golden-yellow color, creating a sense of motion and depth across the middle section of the page.

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