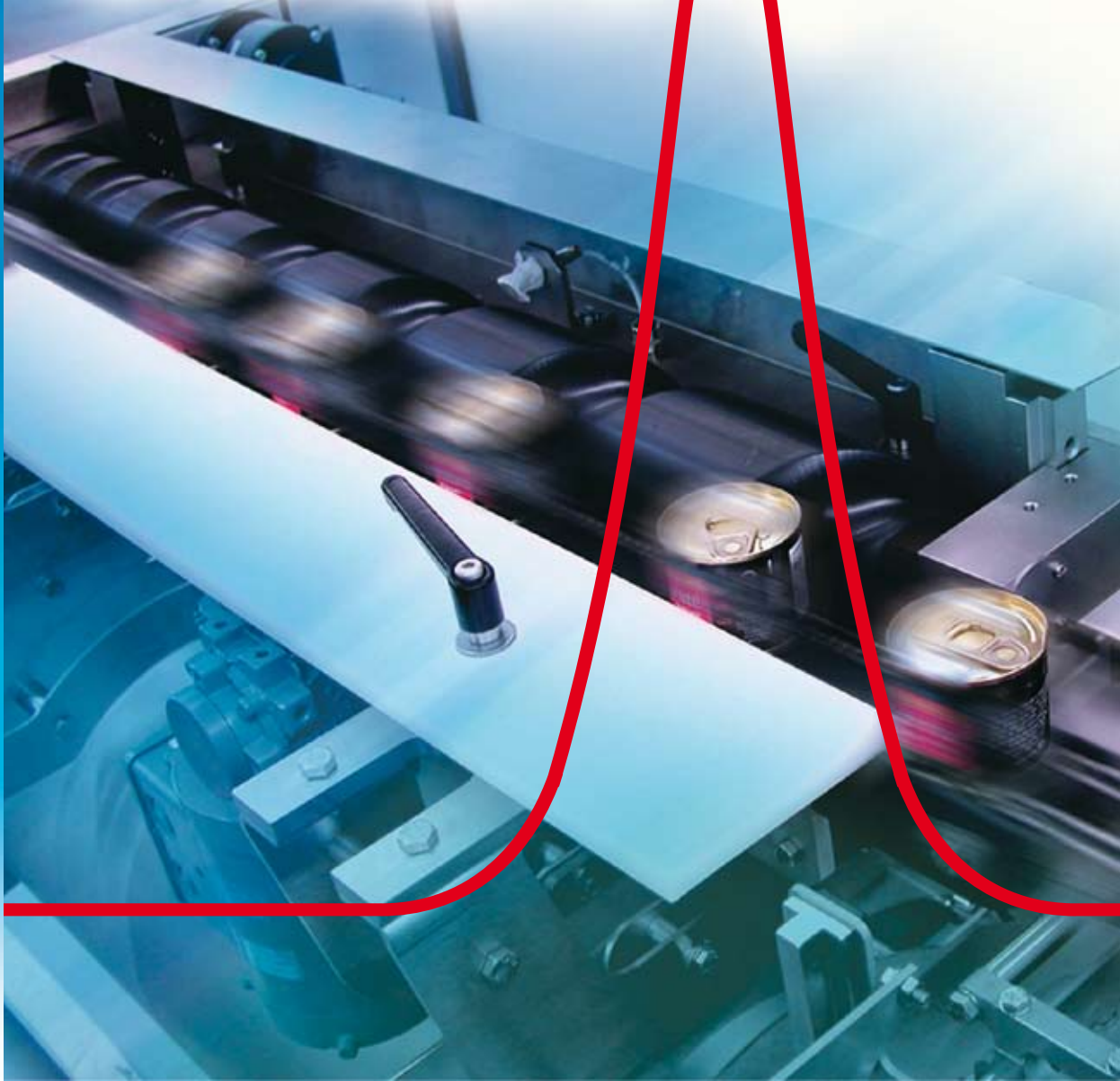


SQC



Excellent Performance
in Statistical Quality Control

METTLER TOLEDO



Fulfilling Legal Requirements Reducing Costs

Flawless and consistent product quality is the cornerstone of successful consumer goods production, whether it be food, medicines or cosmetic products.

To rationalize processes, minimize material losses, and fulfill legal requirements, advanced quality assurance systems are necessary to keep your customers satisfied and allow you to produce under optimal conditions with maximum efficiency.

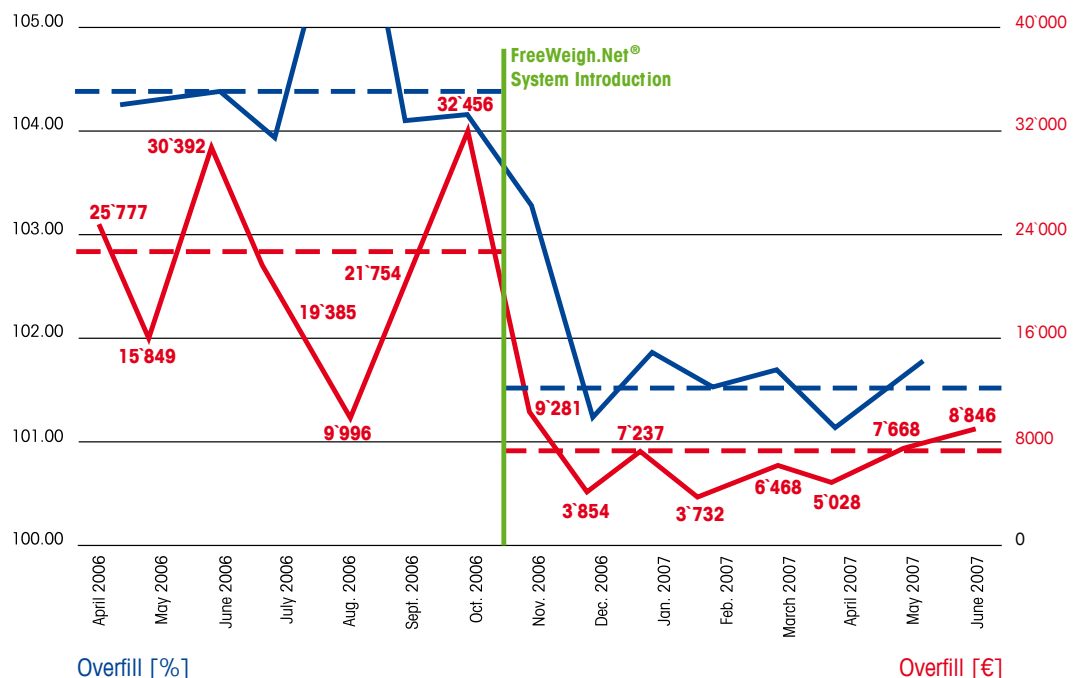
Your production processes comply with internal and external standards, such as FPVO, HACCP, ISO or GMP. Our systems supply you with the statistical data you need to optimize and document the efficiency of your filling processes.

Your Goal

- Minimize overfilling and reduce material consumption costs – opportunity for fast intervention in the process based on online data analysis (alarms, graphic displays)
- Compliance with FPVO – guaranteed availability of historical data as legal verification and for comprehensive quality analysis
- Compliance with FDA and other regulations with regard to audit trail and process control, such as 21 CFR 11
- Simplification and rationalization of quality control processes

Your Benefit

- Improved utilization of material batches
- Uniform procedures and processes
- Accelerated data acquisition and elimination of faulty inputs
- Uniform and automatic reporting
- Faster return of investment
- Improved filling accuracy and profit maximization



Our Task

With years of experience in quality assurance in all key production industries, METTLER TOLEDO offers a broad range of powerful solutions that bring together process know-how and outstanding instruments to form advanced systems that take full account of legal requirements. Our products for fill quantity control and comprehensive quality monitoring combine user-friendliness with quality data management and sophisticated analysis functionality.

- From portable compact solutions with integrated SQC intelligence to networked systems with SQL database
- The systems can be linearly expanded and adjusted to your new requirements
- Maximum protection of your investment through years of product service and proven upgrade/conversion strategies
- Intuitive operation and easy manageability of the systems
- Minimal training requirement and maximum prevention of operator errors
- Clear results that are easy to interpret and can be used to derive measures fast during the process



Tailored Solutions

| | | SQC14 | BBA462SQC BBK462SQC IND469SQC | SQC-XP | FreeWeigh.Net® |
|---|---|-------|-------------------------------------|--------|----------------|
| Filling process control system | Maximum number of stored products | 16/60 | 300 | 100 | Unlimited |
| | Tolerance checking | ■ | ■ | ■ | ■ |
| | Control graphics and histogram | ■ | ■ | ■ | ■ |
| | Mean value and standard deviation | ■ | ■ | ■ | ■ |
| | Printer for reports | ■ | ■ | ■ | ■ |
| | Batch statistics and batch traceability | | ■ | ■ | ■ |
| | Adjustment messages | | ■ | ■ | ■ |
| | Warning messages | | ■ | ■ | ■ |
| Attributes and extended evaluation/monitoring | Pareto charts and class attributes | | | | ■ |
| | Test plans | | | | ■ |
| | User identification | | ■ | ■ | ■ |
| | Graphics display | | L | L | ■ |
| | Activities and alarm monitoring | | | | ■ |
| | Input of errors and measures | | | | ■ |
| | Criteria for release control of batches | | | | ■ |
| | Time-controlled random sample prompting | | | | ■ |
| | Real-time monitoring of process and alarms | | | | ■ |
| | Audit Trail in conformity with FDA 21 CFR Part 11 | | | | ■ |
| | Statistical process control | | | | ■ |
| | Connection of third-party devices | | | | ■ |
| | Digital I/O | | ■ | ■ | ■ |
| | Decentralized data acquisition | | | | ■ |
| | ERP connection | | | | ■ |

(L=Limited)

Systems for Comprehensive Quality Control

PC-based solutions

FreeWeigh.Net®

When statistical quality control has to be available in several places at once, and the recorded data evaluated centrally online, networked systems such as FreeWeigh.Net are ideal.

- Powerful, networked quality assurance system
- Covers all requirements for filling quantity and attributive quality control
- Use under FDA 21 CFR Part 11
- Graphic online evaluation of statistical quality data. Extensive reporting options
- Modular structure. Expansion without interruption of operation
- Interfaces with METTLER TOLEDO balances, terminals, checkweighers and metal detectors. Easy connection to third-party products

FreeWeigh.Net® Compact

The single-client (standalone) version of the FreeWeigh.Net quality assurance system.

- Covers all requirements for filling quantity and attributive quality control
- Optional direct connection of a standard balance to the system or operation of a remote balance via a network
- Easily upgradeable to FreeWeigh.Net



Remote weighing station

Checkweigher

Metal detection

Testplace module with weighing station, tablet tester and dimension measurement

MS SQL server

Compact Solutions

For Filling Quantity Control and Statistics

The simple and efficient filling quantity and net weight control that is fast and easy to operate. METTLER TOLEDO SQC compact solutions combine maximum reliability with a small footprint. The fully evaluated written results are available to the user immediately after data acquisition.

BBA462sQC BBK462sQC

The rugged industrial solution:

- Selection of different sizes
- User-friendly full-text and graphic display (LCD)



IND469sQC

Filling quantity control in hygienically sensitive areas:

- Stainless steel housing
- Analog or digital (IDNet) weighing platforms connectable
- User-friendly full-text and graphic display (LCD)



Batch Report METTLER TOLEDO SQC16 19-1.22 28.10.2003 05:13

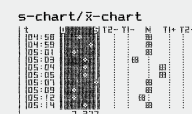
| | | | |
|-----------|-------------|------------|---------------|
| Operator: | M. Bosshard | Article: | Penne Rigate |
| Batch ID: | 067533 No73 | No.: | 8076802085738 |
| Nominal: | 500.00 g | Tare (x̄): | 20.00 g |

| | | |
|-------------------|--------|---------|
| Tolerance System: | | EU -/+ |
| t2- | 6.00 % | 30.00 g |
| t1- | 3.00 % | 15.00 g |
| t1+ | 3.00 % | 15.00 g |
| t2+ | 6.00 % | 30.00 g |

Batch result: 12 sample(s) / n = 60

| | | | | | |
|-----------|------------------|-----------|---------------------|---|--------|
| From: | 28.10.2003 04:40 | To: | 28.10.2003 05:14 | | |
| Mean (x̄) | 100.10 % | 500.525 g | Tolerance violation | | |
| Std. Dev. | 1.43 % | 7.182 g | <T2- | 0 | 0.00 % |
| Minimum | 96.61 % | 483.04 g | <T1- | 1 | 1.67 % |
| Maximum | 103.57 % | 517.84 g | >T1+ | 2 | 3.33 % |
| Range | 6.96 % | 34.80 g | >T2+ | 0 | 0.00 % |

| | | | | |
|--------------|---------|----|------------------|--------|
| Class Table: | | | Violation Check: | |
| <T2 | 0.00 % | 0 | Batch T1 Crit. | 1.67 % |
| <T1 | 0.00 % | 0 | | |
| <T1 | 1.67 % | 1 | | |
| -4 | 1.67 % | 1 | | |
| -3 | 8.33 % | 5 | | |
| -2 | 18.33 % | 11 | | |
| -1 | 16.67 % | 10 | | |
| +1 | 21.67 % | 13 | | |
| +2 | 15.00 % | 9 | | |
| +3 | 10.00 % | 6 | | |
| +4 | 3.33 % | 2 | | |
| >T1 | 3.33 % | 2 | | |
| >T1 | 0.00 % | 0 | | |
| >T2 | 0.00 % | 0 | | |



Signature: *[Handwritten Signature]*



SQC-XP

Statistics and filling quantity control in the laboratory and for analytics:

- For each METTLER TOLEDO XP precision and analytical balance
- Graphic display with touch-screen



SQC14

Keypad, SQC software and printer in a single unit – with a correspondingly small footprint:

- Flexible and versatile
- Compact solution for industrial and laboratory balances
- From the microgram to metric-ton range



Backup/Restore

Archiving the statistics and product data on the PC offers additional data security and long-term availability of the records.

Available with:

- SQC-XP
 - BBA462sQC*
 - BBK462sQC*
 - IND469sQC*
- (* Option)

The Right QA Solution For Every Task

Our customers reduce material loss and stay legally compliant:



Production Employee

«As the person in charge of 12 milk products at 4 filling plants, I used to have to record all weight data manually. Now our IND469SQC does all that for me. All I need to do is select the product and take the random sample. The system immediately gives me all current information with regard to mean value and standard deviation. If necessary, I can intervene immediately.»



Production Manager

«In my operation, I have invested 180,000 Euro in a FreeWeigh.Net system for 7 packaging plants, balances, software, networking and training – and it paid for itself in an amazing 3 months! The most important thing is that I receive immediate feedback from the system if our product is outside specification. If this happens, I receive clear instructions from the adjustment algorithms. This means that I can concentrate on other important tasks.»



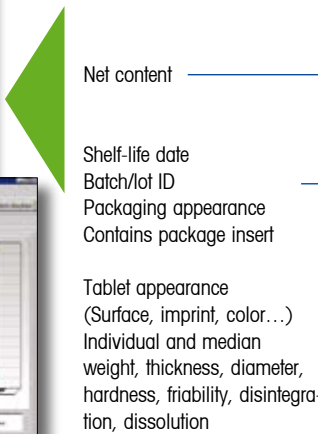
Plant Manager

«Before we used SQC16, we suffered a loss of 5 g per bottle of filled lubricant (137,000 Euro per year). SQC16 also boosted our throughput: Material loss per package was reduced, which in turn increased the profit per batch.»



Quality Assurance Manager

«Thanks to FreeWeigh.Net, I spend less time writing and processing reports. But the best part is that I no longer have to enter the data in the ERP system – FreeWeigh.Net automatically does it for me.»



Courtesy © Schering



Professional Services

Validation of your computer system for trouble-free audits

Above and beyond compliance with GMP/GAMP regulations, computer system validation (CSV) defines, validates and ensures the reliability and consistency required for process performance. With the ready-made validation protocols from METTLER TOLEDO, you can save time and costs in this labor-intensive process.

Our FreeWeigh.Net documentation includes software development documents, such as specifications and test reports, that describe the quality management system for software development from METTLER TOLEDO, as well as comprehensive protocols for installation qualification (IQ), operational qualification (OQ), and performance qualification (PQ). The CSV packages from METTLER TOLEDO ensure professional validation of your automation system.

Profit from our knowledge

Our experience and validation know-how are at your disposal in printed or electronic form:

- FreeWeigh.Net®
- FreeWeigh.Net® Compact
- SQC-XP
- SQC14

Project management and coordination

Extensive feasibility studies ensure that all of our customers' requirements are fulfilled. Our experienced project engineers plan and organize installation, commissioning and training so that the system is immediately available and ready for optimal use.

Database and ERP integration

The file structure and database architecture supply the data necessary for the automation level of your choice.

Service XXL

- Integrated service concept
- Customized service package
- Priority service status
- Calibration certificate issued on site
- Determination of the minimum weight with MinWeigh



| | |
|-----------------------|--|
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