

Quins.

Quality Inspection Systems



how
easy
it is to
test
it
right

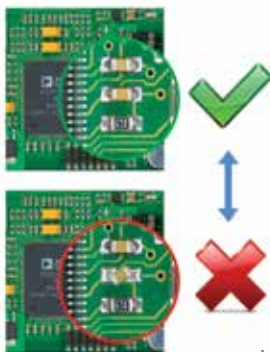


Alternating Image Inspection ...



It would be nice
if all errors would wiggle or blink ?!

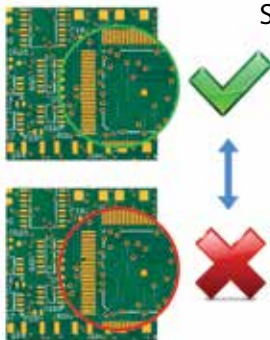
SMD



The patented alternating image inspection shows the reference and the device under test in alternation. According to a perfect centering of both images, only the differences are wobbling/flashing - the errors. This supports the physiological perception, so that you can **RECOGNIZE ALL errors** relaxed, easy and fast !

Individual zoom, also during inspection individual adjustment of contrast, brightness, saturation and contour sharpness in the current display allows an individual and perfect **SAFETY** during the test.

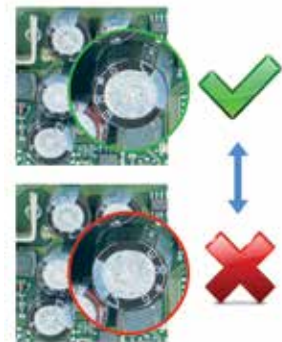
Layout



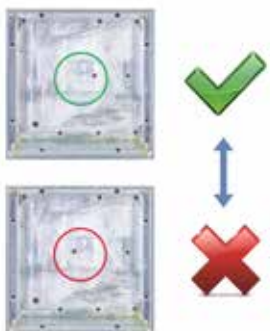
The segmentation automatically splits your image. You can not accidentally miss or overlook anything! Detected errors mark them for later repairs, for your traceability and statistics.

All images and test results are recorded automatically, stored, and archived in the **Quins SQL database**.

THT



Gehäuse...

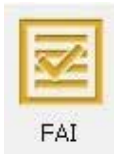


No matter what and when you check. Everyone can operate Quins easy, without training and especially **without programming effort !**

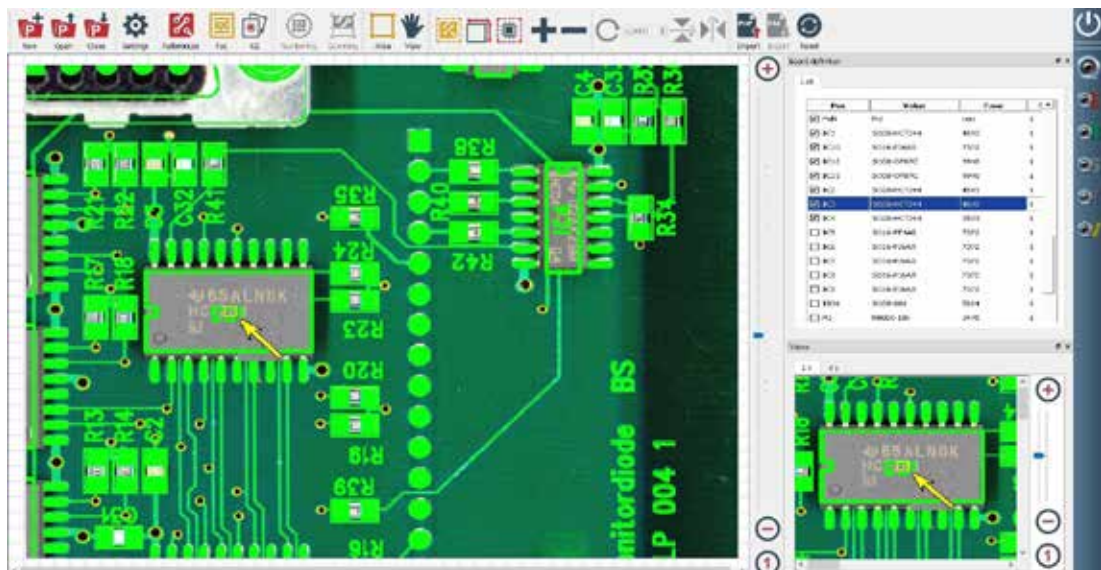
- ✓ *Series inspection*
- ✓ *First article inspection*
- ✓ *Spot checks*
- ✓ *Setup control*

Quins easy - does that !
„brilliantly simple“

First Article Inspection ...



It is *simply brilliant*,
that we do not longer have serial defects !



Safety and Reliability

Save time and gain security!

This will secure your assembly and avoid serial errors!
Quins easy Plus reduces your set-up control effort considerably.
You can equip your machine more often per shift and
produce faster, cheaper and safer!

The easiest and fastest way for your first article inspection.

Load the assembly data and assembly plan in PDF format.
By clicking on a component in the list, the display jumps in the image to the
appropriate position. You do not have to search anymore, and have ...

... Everything at a glance !

Designator, Footprint, Comment, Part Description, Article number
Convert your Pick & Place data appropriately,
assign your designations and edit them as needed.

Everything is logged and documented - suitable for „Automotive“

Quins easy Plus - does that !
„simply brilliant“

Prerequisite for a perfect inspection...



The LC-Series

The **best technique** for homogeneous reproduction of a DIN A3 format at high resolution is a CCD line scan camera.

... is a best possible image quality

LC 20 for mounted assemblies

Drawer with module holder
robust construction, easy to use
also for double sided boards



With a resolution of 1200 dpi, this corresponds to a recording of 286.4 megapixels.
That only creates a CCD line!



LC 20/UV with additional UV illumination

Protect your employees from harmful UV radiation, during the inspection of the formal coating!

LC 25 for PCB's

with reversible tableau drawer for black or white background

Max. board size 600 x 390 mm (space in the drawer)
Passage height, top 10 mm
Positioning angles and stops, with magnetic holders
Optional Glass plate for films



The specially for Quins developed LED lighting with 2 double rows and 308 LEDs, **illuminates your assemblies shadow free.**
1,600 candela light intensity makes lasered letterings of the ICs shine.
The shadows of the solder meniscus are clearly visible.
Even high THT components are optimally illuminated. With 50 mm passage height, with 62 mm downwards, respectively 2 standard supports (50- and 60 mm passage).
Special equipment with special unit supports and many optional extras available.

With these you can see **EVERYTHING** what you need to

The LCM-Series

mobile & flexible



Equipped with every LC Quins-Box variant LCM20, LCM20/UV, LCM25



ESD Save

Technical data of the Quins hardware

Measurement (W x D x H)	LC-Series 693 x 504 x 323
LCM-Series	830 x 510 x 1950 mm (with monitor + 370 mm)
Weight	LC-Series 30 kg, LCM-Series 55 kg
Camera	CCD line camera (7.020 pixel/line)
Max. resolution	1.200 dpi
Effektive Pixel	286,4 Megapixel (= 0,021... mm/dot)
Max. image size	432 x 310 mm
Scan rate	3,8 ms/line (colour) 1,3 ms/line (black/white)
Max. assembly size	490 x 390 mm (space in the drawer)
Illumination	double row LED illumination with 308 LED's,
Light intensity	1.600 candela at 50 mm distance
Interface	USB 2.0
Input	80 W (during scanning)



Quins computer for all systems

Computer	PC in optimized equipment 3,5 GHz, 8 GB RAM, 500 GB SSD,
LCD-Monitor	24" Touch-Screen or TFT
Mouse/Keyboard	wireless units
OS	Windows 10, 64bit professional

24 months Warranty for all Quins hardware

release: 02 / 2019



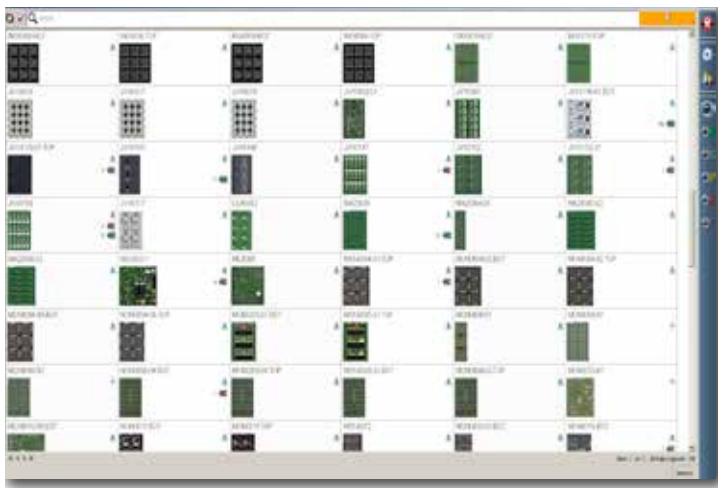
The documentation ...

for Quins easy checked assemblies !

It is simply brilliant,
that we document everything automatically !

Select, filter, sum up...
find it quickly and document it.

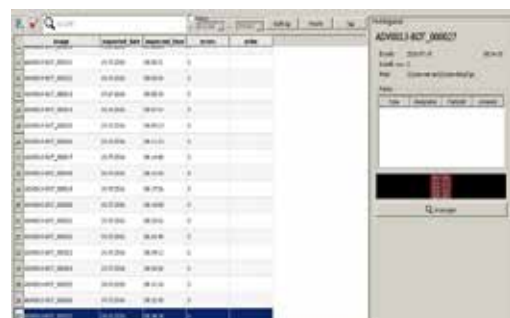
All information about your test results!
Simple access to all your archived data , images and test results.



... overview and information about your assemblies,

- ✔ created/changed
- ✔ processed tests
- ✔ reference image

- ✔ checked assemblies
- ✔ date / time
- ✔ result / image



Quins View - the documentation, the proof and the traceability proof your quality.

The Repair...

for Quins easy checked assemblies !



Quins repair

It is *simply brilliant*,
that we do not miss anything !

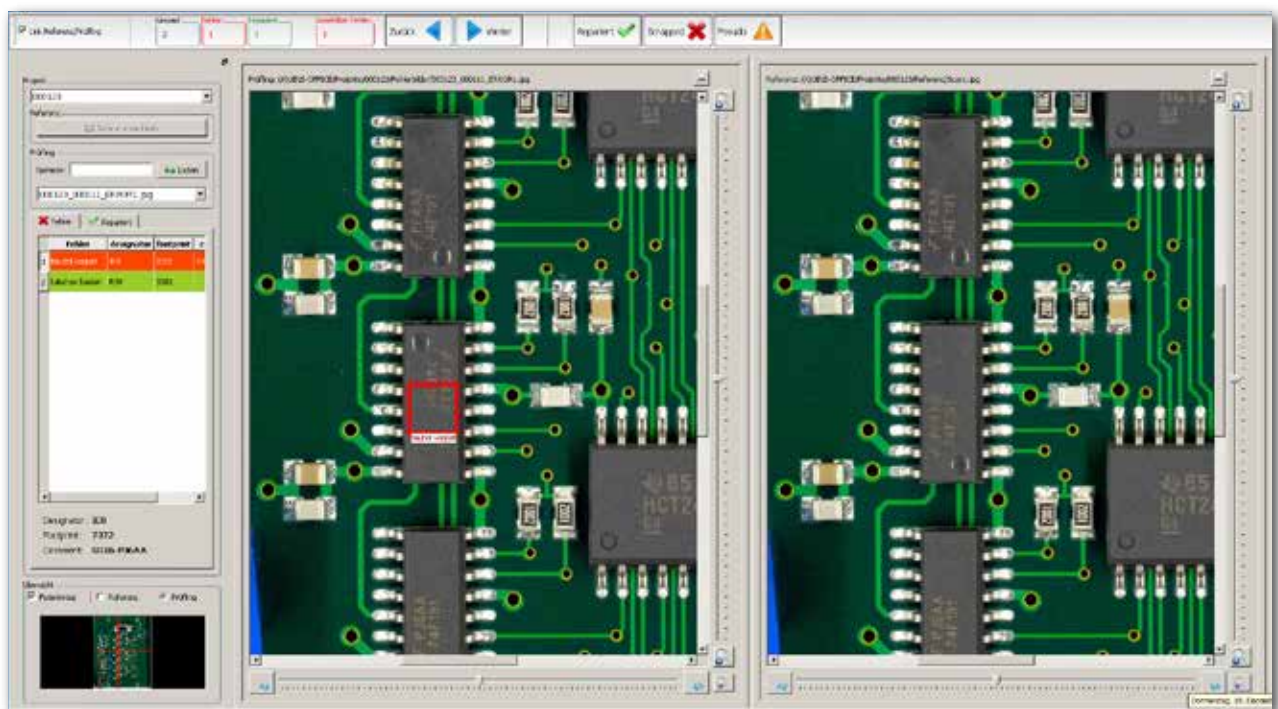
Safe time and and gain security!

That you do not miss anything and protocooll everything!
Support the repair of your assemblies with QUINS Easy!

The easiest and safest way for your repair.

Reference- and error position will be created automatically,
same as the required component information.
Partial repairs, false alarm definition or rejects classifying,
Zoom- and barcode-functions are included.

... Everything at a glance and nothing will be missed!



repair and protocol...

Pass on only flawless assemblies



The information ...

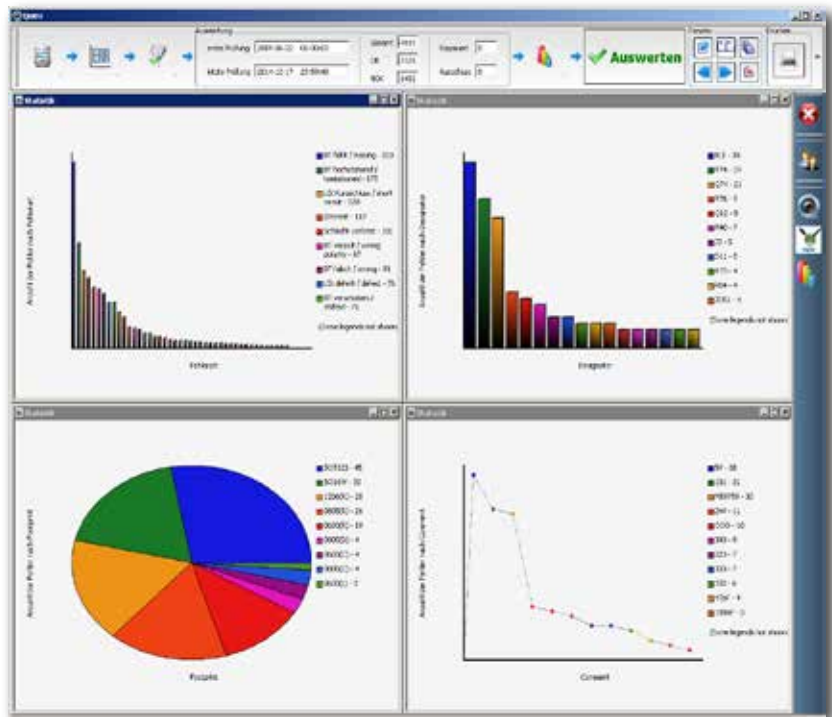
about Quins easy inspected units !

It is *simply brilliant*,
that we know our processes!

Only if you know your errors, are you able to fight them!

All information about your quality status!
Error statistics in different display forms...

- ✓ Error type
- ✓ Position
- ✓ Component design
- ✓ Component type



... and many selections- and filter functions



- ✓ Order
- ✓ Group
- ✓ Project



- ✓ Date
- ✓ Time
- ✓ Quantity
- ✓ Top/Bottom
- ✓ and more ...

Select, filter, sum up...
Find it quickly and document it.



Quins statistics



Security

Information create security
Automatic data collection during the test.



Documentation & Logging

Print of all statistics



Quins-data base evaluation

network ready, Remote-access

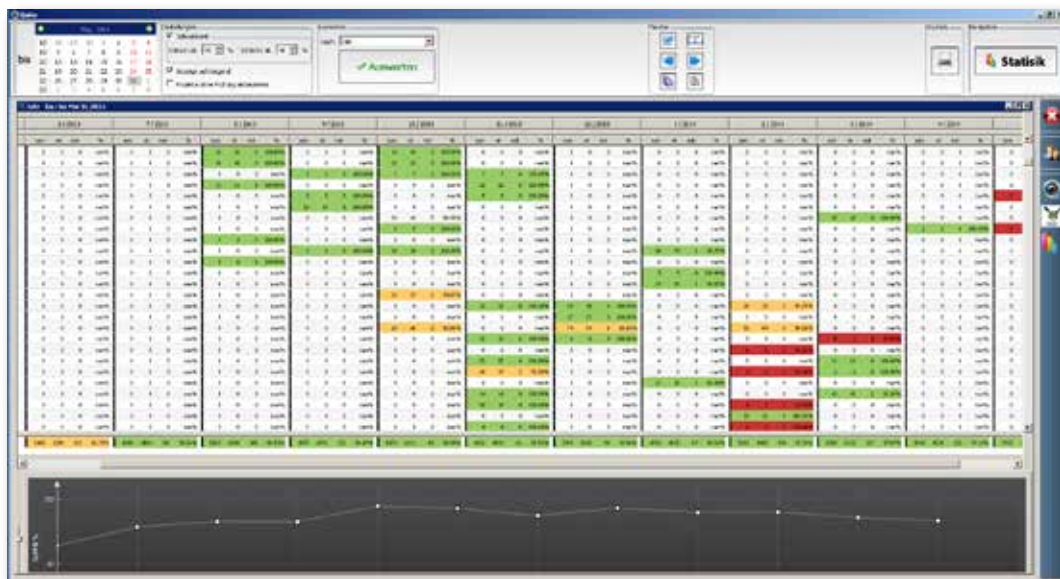
Automatic data-collection!

Simply check with **Quins easy**, or **Quins easy Plus** and mark the errors for your repair station.

Yield - Evaluation ...

When and why is your quality level unbalanced

Create the basis for your quality certification
by year, month, day, hour...



Set tresholds and immediately...
see everything at a glance.



Data control

Data comparison

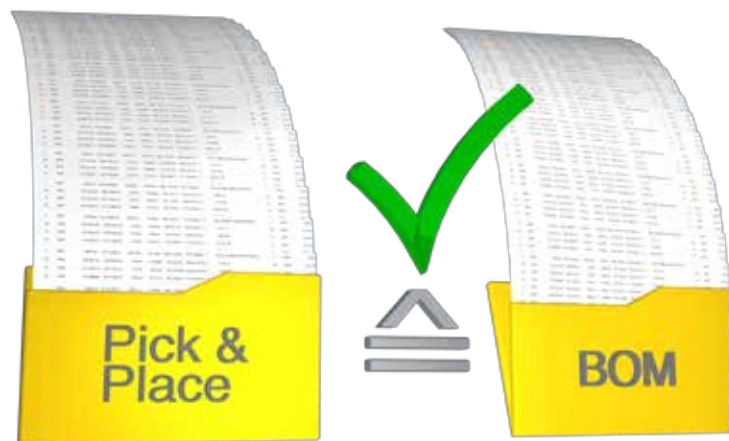
It is *simply clever*,
that we can check our data very quick !

Surely you know the daily situation:
You have the data to equip your machine, but:

- does the loaded P&P file correspond to the right release?
- is your P&P file complete?
- are the right components listed and contained?
- does the P&P file correspond to the B.O.M. list?

This is no problem with QUINS tools!
Compare your digital data and check the correctness!

Equip your machine only with checked data!



- ✓ B.O.M - P&P / P&P - B.O.M. comparison
- ✓ B.O.M. - B.O.M. comparison
- ✓ P&P - P&P comparison
- ✓ B.O.M.- and P&P - converter
- ✓ B.O.M. - creator (create B.O.M. with P&P)
- ✓ ERP - import-interface
- ✓ Article number - translation

Exclude faulty data with Quins tools!

Create your Basis for a error-free production



Quins tools

... perfected



200 x faster

as a manual inspection is the digital comparison.



Security

Check up to 100%. Esnure, that all the data is correct.



Documentation & archiving

Quins tools saves all data corrections and documents for you each single change. Material calculation by ERP Data-import, with your B.O.M.- and/or P&P-file.



Daten-Import interface

Update your B.O.M.- and/or P&P-file with your article numbers from your ERP-system; automatic and self-learning.

Automatically
Compare & Correct
Complete

Comparisson

Conversion

Import

... automated



integrated
Data-converter
Template-memory



Plausibility check
Automatic assignment



Data - Control
Data - Addition

Quins

Quality Inspection Systems



Quins SQL-Database

Central SQL-Database, local or on your server
Modules, each workplace combined individually
User-, Workplace-, Departement-Management
with individual permission level
also ODBC-connection connectable with different locations

for „Industry 4.0“

We would like to show you the system live,
and advice you which solution would fit the most
for your individual company and production ..

Just arrange an appointment

Phone:

Email:

www.quins.de

Made In Germany