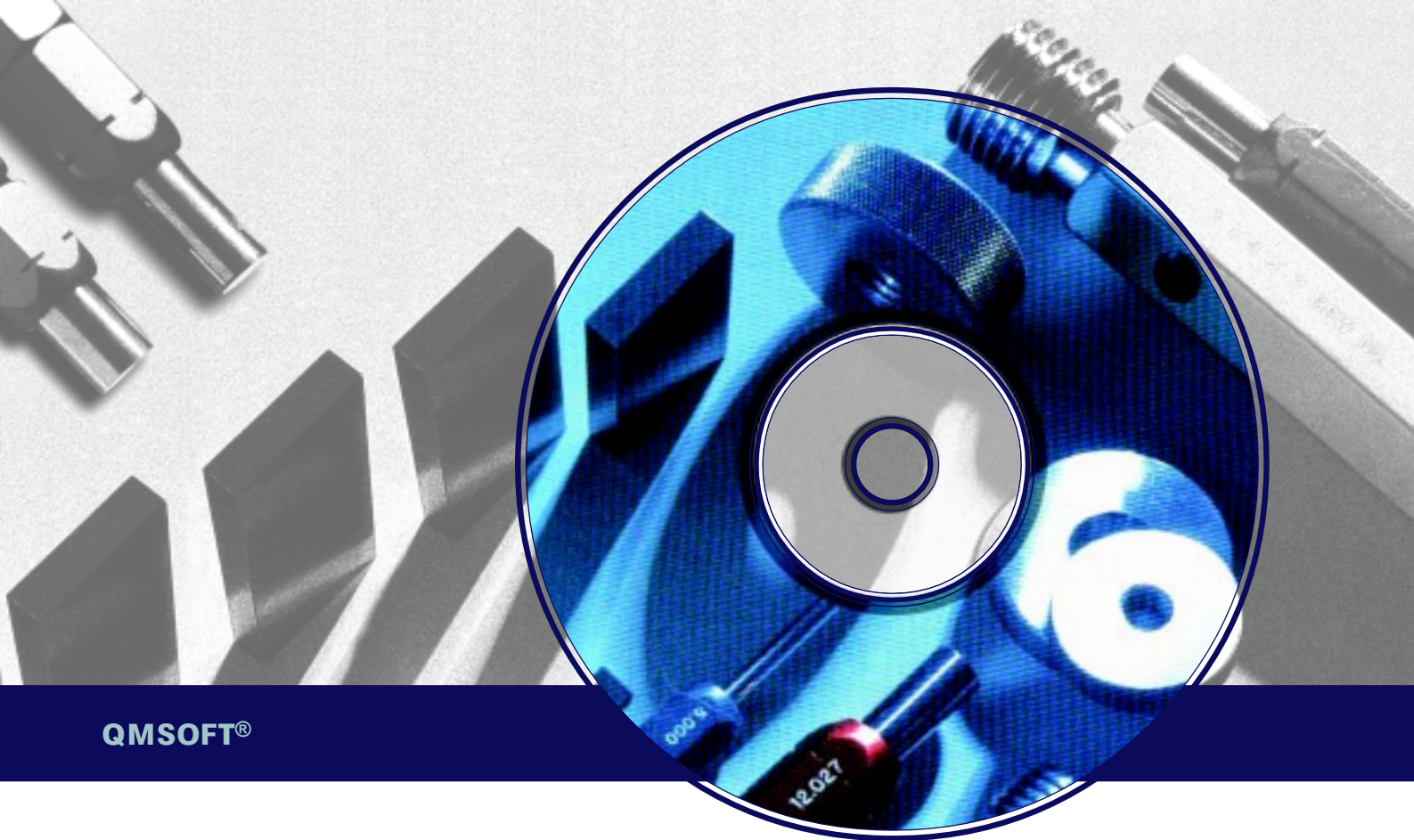


QMSOFT®



QMSOFT®

QMSOFT - 1500 Installations

QMSOFT - 30 Countries

QMSOFT - 10 Languages

L & W does offer for you a CD-ROM with all QMSOFT modules free-of-charge and unlimited time to test any QMSOFT functionality.

So you have the possibility to test the whole system to see its ability without any pressure of time.

Please test, how easy you can connect the different measuring devices of different manufacturers - creating a unique system to perform your complete gauge inspection process.

QMSOFT is a modular „building block“ system - where you purchase only the components you really need.

If your requirements are growing you add new components at your individual wishes.

Much success when testing QMSOFT !

QMSOFT® is a registered trade mark of the L & W GmbH.

QMSOFT - the Gauge Inspection Software maked to measure

The systematic inspection of all measuring tools and gauges in your company is essential for your quality assurance system. This is also one of the fundamental requirements of an **ISO 9000** .. certified system.

If that means for you:

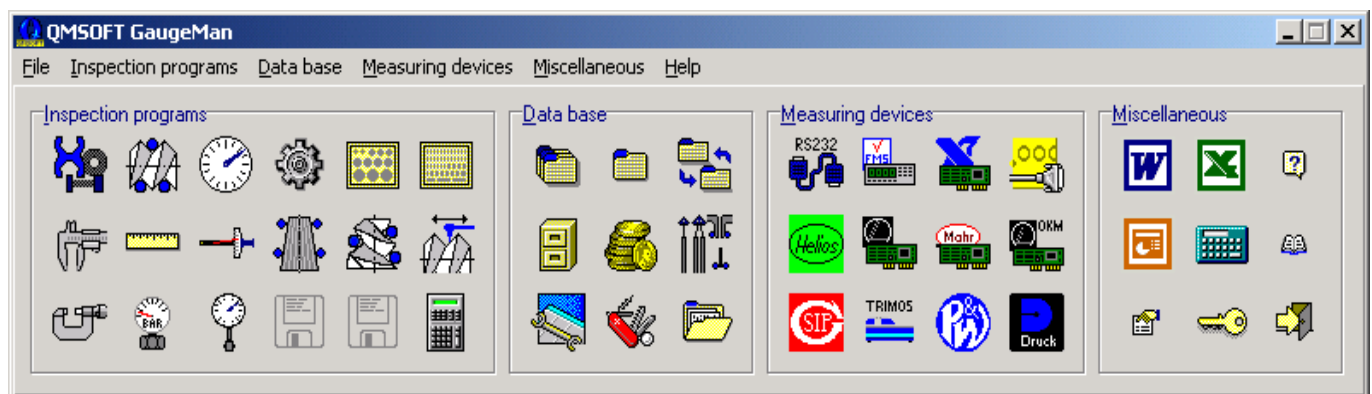
- the Gauge Stock including all related information about stock-taking, gauge locations and calibration records has to be managed.
- the usage of Gauges has to be controlled and the keeping of recalibration periods should be guaranteed .
- the Calibration process has to be carried out in a correct, repeatable and provable way.

This will produce constantly growing mountains of paper, tedious routine work and constant struggle with many standards.

We have the solution:

QMSOFT (Quality Management Software) connects our practical experiences in gauge inspection with the advantages of state of the art computer technology. Furthermore, it is a powerful tool for managing all gauge data and checking measuring tools, all via one uniform user interface.

Simply jump in and start using QMSOFT!



That's the features of QMSOFT:

- All nominal sizes and tolerances for all related DIN or ISO standards as well as for ANSI standards, British standards and partly for Japanese, French or Korean standards are calculated by the program system.
- Gauge inspections will be started directly from the gauge management system and will be performed with inspection programs specially designed for the gauge type selected.
- Predefined inspection procedures does following exactly the given rules and standards. So you do not need any preparation before starting a measurement.

- All inspection programs does support the directly connection to measuring instruments for the online taking over of measuring values.
- Inspection certificates may be customised for individual presentation.
- A XML - file interface does opening the QMSOFT system to link any other application.

QMSOFT uses a variety of special modules to provide you with optimal support for inspecting various kinds of tools and gauges. Each of these modules allows you to effectively carry out and record a inspection. Thus you are able to build a system according to your individual wishes.

QM-MANAG - the Gauge Management system

The program **QM-MANAG** provides all the functions you need to manage your complete stock of measuring tools and gauges. It also allows you to create identification cards, search and reminder lists, as well as histories of your

measuring tools and gauges. A user defined data structure can be created for each type of gauge. Also the system provides a flexible interface for database queries. The process of calibration is directly controlled by the system.

Gauge type	Identity number	Nominal size/Flange	Gauge status	Last inspection on	Inspection period	Next inspection on
Dial gauge acc. to AGME/ANSI (inch)	00021	0.500 inch	usable	04.05.2001	2 Year(s)	04.05.2003
Caliper (mm)	0012_LW	150.0 mm	usable	08.11.2002	1 Year(s)	08.11.2003
Caliper (mm)	0013_LW	300.0 mm	not usable (not inspected)	20.04.1999	1 Year(s)	20.04.1999
Caliper (inch)	00123	5.0 inch	usable	19.09.2002	9 Month(s)	19.09.2003
Caliper (inch)	124	6.0 inch	not available (missing)			25.09.2000
Depth caliper (mm)	0023	200.0 mm	usable	02.02.2002	6 Month(s)	02.08.2002
GO plug gauge (ANSI B93.1.9M) - inch	0012_38	2.00000 "	not usable (spaced)	16.09.2002		
GO plug gauge (ANSI B93.1.9M) - inch	000000	2.00000 "	usable	07.05.2000	3 Year(s)	07.05.2003
GO/NO GO plan plug Gauge (ISO) - mm	000000	38.0500 mm +0.05/0.0	usable	16.09.2002	2 Year(s)	16.09.2004
GO/NO GO plan plug (ISO) - inch	0012_37	1.00000 " / 1.02000 "	not available (out of house)	25.05.1997	6 Month(s)	24.11.1997
GO plan Plug Gauge (ISO) - inch	001_BS_000	1.25160 " / 1.25315 "	usable	08.11.2002	6 Month(s)	09.05.2003
NO GO plan Plug Gauge (ISO) - mm	0027_F	20H7	usable	25.10.2002	1 Year(s)	25.10.2003
Master ring (ANSI B93.1.9M) - inch	00000	1.20000 "	restricted usable			19.09.2000
Master setting disk Style 1 - inch	000000	2.00000 "	usable	07.05.2002	1 Year(s)	07.05.2003
Master setting disk Style 1 - mm	Test_001	[empty]	not usable (spaced)			06.10.2002
Master setting disk Style 3 - inch	00000	2.00000 "	usable	07.05.2001	2 Year(s)	07.05.2003
Depth micrometer (mm)	0095	25.0 mm	usable	20.09.2002	1 Year(s)	20.09.2003
External micrometer (inch)	0012_39	12.00 - 13.00 inch	usable	12.12.2001	2 Year(s)	12.12.2003
External micrometer (mm)	0090	0 - 25 mm	usable	12.07.2001	2 Year(s)	12.07.2003
Inside micrometer - Class 2A3 (inch)	004_12434	2.00 - 0.00 inch	usable	19.09.2002	6 Month(s)	19.09.2002
Inside micrometer - Class 2A3 (mm)	0033	100.00 - 125.00 mm	usable	19.09.2002	6 Month(s)	19.09.2003
Inside micrometer with jaws (mm)	004_123	10.00 - 35.00 mm	usable	19.09.2002	1 Year(s)	19.09.2003
GO/NO GO plug L minor diam. (mm)	0037_Test	M 12x1.75-6H	not available (missing)	21.10.1996	1 Year(s)	
GO / NO GO thread plug gauge - inch	1213_978_000	BSW 3/8 med. BS 913	usable	19.04.2002	18 Month(s)	19.10.2003
GO / NO GO thread plug gauge - mm	0012_Test	M16 x 0.86-12 med. BS 913	usable	30.11.2002	1 Year(s)	30.11.2003
solid GO Thread Ring (inch)	001_test_000	1/2 - 12 UNF - 2A	usable	22.10.2002	1 Year(s)	22.10.2003
solid NO GO Thread Ring (inch)	002_Test	9/16 - 12 UNF - 2A	usable	08.11.2002	1 Year(s)	08.11.2003
solid GO Thread Setting Ring (mm)	00000	M 20x2.5-6H	usable	16.04.2003	6 Month(s)	16.10.2003
solid H1 Thread Setting Ring (mm)	000077	M 12x1.75-6H	not available (out of house)			
Special gauge type	0027_AB	Special gauge ABC	usable	08.11.2002	10 Month(s)	08.09.2003
Steel square	001_Test	200x130 mm	usable	19.10.2002	1 Year(s)	19.10.2003
Straight edge	001_Test	300 mm	usable	16.06.2001	2 Year(s)	16.06.2003
Gauge type for EXCEL connection	00123	300 mm	usable	06.01.2003	16 Week(s)	20.04.2003
Gauge type for WORD connection	123_test	1250 in	usable	06.01.2002	2 Year(s)	06.01.2004

Important **functions** are:

- field independent gauge management caused by the free definition of data structures and the possibility to create new types of gauges.
- free definition of database calling up operations to create various „recalling“ lists or gauge cards.
- inclusion of nominal value generation and calculation of tolerances for all common gauges for length inspection.

- inclusion of online measurements through integration of separate measurement modules of any type of gauge.
- the capability of parallel administration of different stocks of gauge data.
- network and multi-user capability for all common network platforms.

If you do not have a special „calibration program“ for a gauge, QM-MANAG does provide an interface to MS-WORD or MS-EXCEL to create a certificate on a very simple way.

QM-PLAIN - Inspection of Plain Gauges

The program supports the inspection of master rings and ring gauges, plug gauges and snap gauges, master plugs or master disks. Using the gauge type selected and the nominal value provided (e.g. 20H9 or 1.002/1.005 inch) the program calculates the gauge allowances and tolerances.

The tolerances may be calculated according to:

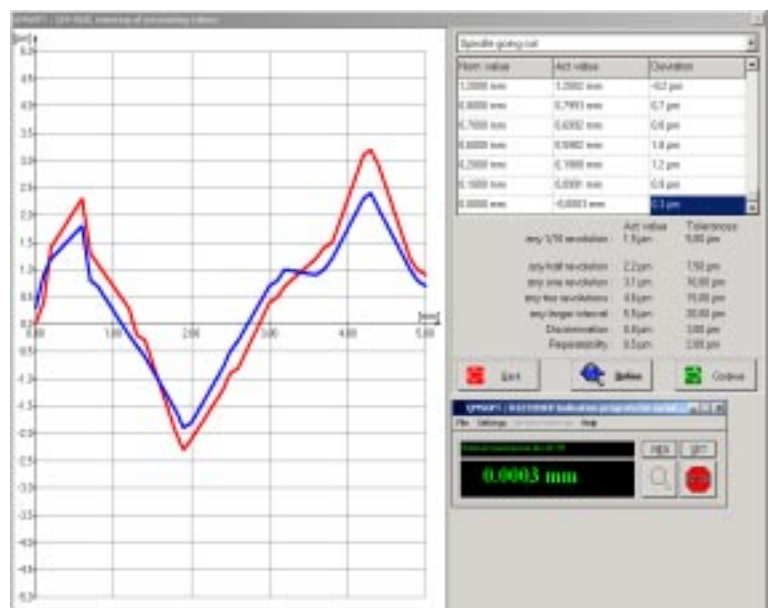
- DIN ISO 286,
- British Standard 969:1982,
- ASME/ANSI B89.1.6M or
- NF E 02-202 (french standard).



QM-DIAL - inspection of Dial Gauges and Indicators

QM-DIAL supports the inspection of dial gauges, dial indicators and dial testing indicators with the usage of dial gauge testing instruments or horizontal measuring machines. The inspection may be done in accordance to various international standards (ANSI, DIN, British standard, Japanese or Korean standards).

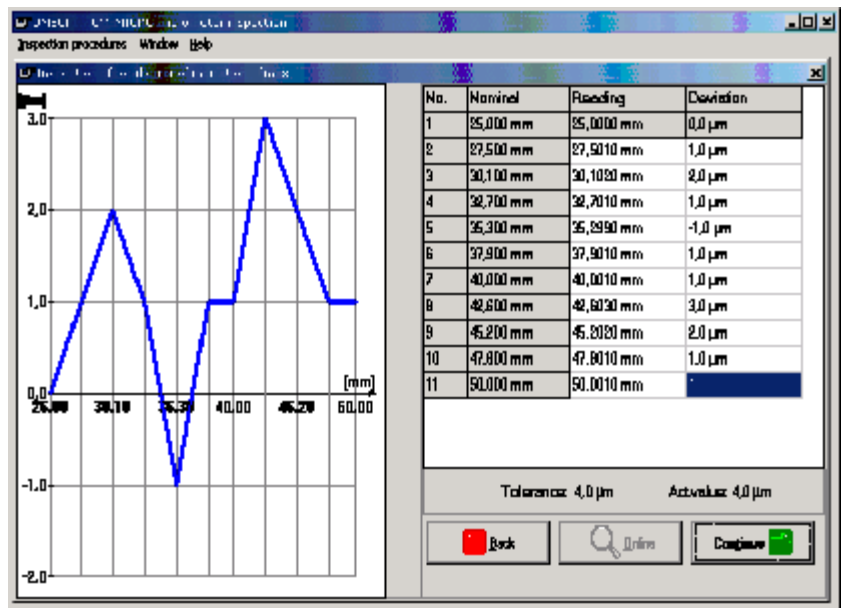
The results can be displayed in a graphical and numerical form.



QM-MICRO - inspection of Micrometers

QM-MICRO does support the inspection of micrometers according to various standards. Micrometer inspection may be done according to DIN 863-1999 (Part 1-4), BS 870, BS 959, BS 6468, BS 1734 and the Federal specification GGG-C-105C respective according to customised factory standards.

Depending on the micrometer type and the evaluation mode selected the program determines the maximum error in indicated measurement, the error of the micrometer screw, the error in alignment or the zero deviation. Also the inspection of masters and inspection rods can be made.



QM-CALIP - inspection of Calipers

This program does support the inspection of calipers according to various standards. Measurement data can be entered directly from the caliper, if the caliper has an digital interface. The program does determine the errors of external, internal and depth measurement. The evaluation results can be reproduced on the screen and/or the printer. Tolerance excesses will be shown.

The screenshot displays the QM-CALIP software interface. The form contains the following fields and options:

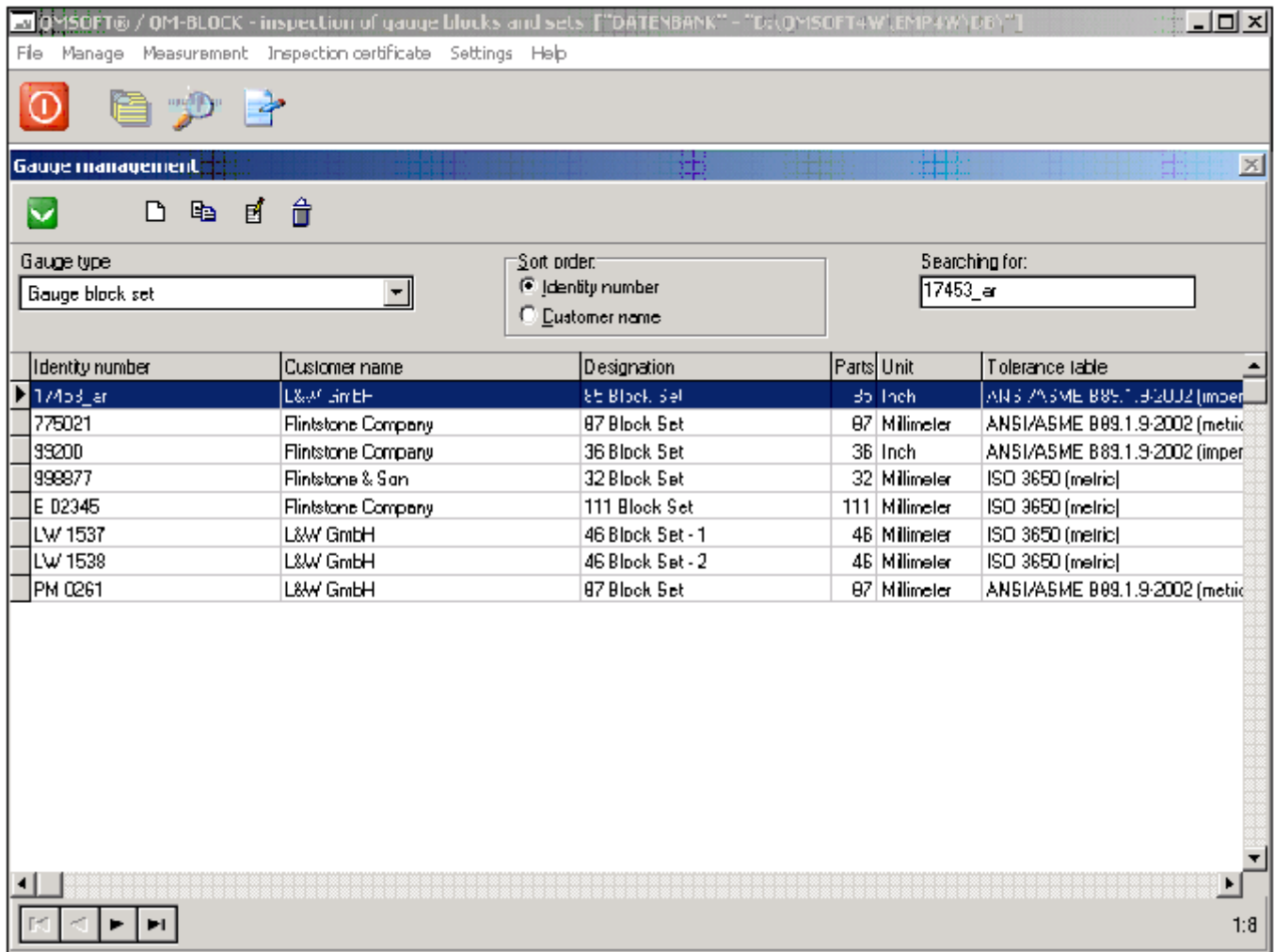
- Identify number: 125748_GF
- Reading position acc. to: Factory standard
- Calculate tolerance acc. to: BS 887:1982
- Form of construction: external, internal and depth (liking screw)
- Indication type: Vernier scale
- Graduation: 0.02 mm
- Measuring range: 150 mm

At the bottom, there are buttons for 'Inspection conditions', 'Tolerances factory standard', 'Inspection procedure', 'Cancel', and 'Continue'. An image of a caliper is shown on the right side of the form.

QM-BLOCK - inspection of Gauge Blocks

The program QM-BLOCK is designed to the computer supported inspection of gauge blocks used as single gauge blocks or as gauge block sets. The program includes a database to manage all entered nominal sizes of gauge blocks and sets and to save all inspection results of this gauges.

The inspection itself may be done according different evaluation methods. Basically the evaluation and the used tolerances are related to the ISO 3650 standard, the ANSI/ASME B89.1.9. or the BS 4311, but you can also define your own tolerance tables and classes of accuracy.



Usually a gauge block inspection instrument does work with the method of „difference measurement“. This means that you use a reference gauge block with a well known actual size and compare it with the size of the gauge block which should be inspected.

The nominal sizes and the centre length deviation of your reference gauge blocks you will get from the calibration certificate of this reference set.

To inspect a gauge block it is usual to set 5 measuring points on the gauge blocks face. The order of the measuring points is related to the standard selected. The program supports also to define your own „Measuring point pattern“. Measurement data can be taken over through an online measuring instrument or entered on the keyboard.

The results can be produced on the screen, printer and/or in a file. It is possible to customise the record listings using a user defined certificate layout file.

QM-PRESS

Program to inspect Pressure gauges, Process pressure gauges and Pressure switches according to DIN EN 837. The gauges may be designed for different measuring principles (Bourdon tube gauges, Diaphragm and capsule gauges), for different working and inspection mediums (Air, Water, Oxygen, Fuel oil and others) and also for the different types of construction (without pointer stop, pointer stop at zero position, ..).

QM-SCALE

Program to inspect graduated steel rules according to DIN 865, DIN 866 or according to British Standard BS 4372. The program is also usable to inspect measuring tapes according to DIN 6403 and EG 73362. The program offers the possibility to inspect a tape in sections. So you can also inspect tapes with a long range on a shorter inspection device.

You will get the calibration results in a graphical and tabular form.

QM-TORQ

This program does support the inspection of different types of indicating and setting torque tools. The valuation is based on the international standard ISO 6789 or can be made according to factory standards. Using the possibility to take over the measuring values directly from an torque testing instrument (Rahsol, Norba or others) the inspection can be made in a save efficient way.

QM-SPLINE

Program to support the inspection of gauges for involute splines according to DIN 5480 and DIN 5482 and also for gauges for serrated splines according to DIN 5482 (more standards are in preparation).

There is also an option to enter your spline parameters according to a factory standard and calculate the measure over or between pins in relation to this parameters.

QM-PIN

Management and inspection of pin gauges, pin gauge sets, thread wire sets and thickness gauge sets. The program is able to create and manage all nominal sizes of a pin set and also the results of an unlimited number of measurements including all measuring values for each pin or wire.

Measurement data can be entered through an online measuring machine or on the keyboard. The output of the results are in a tabular form - either on the screen or printer.

In addition to those, we offer **other modules for the inspection** of different types of gauges.

Additional standards or inspection programs will be implemented at cost and **customer requests!**

QMSOFT can be run as a **stand-alone** system or in a **client-server** environment.

Supported platforms are Windows 98 and Windows NT, 2000 or Windows XP. The system is implemented in a modular and portable fashion.

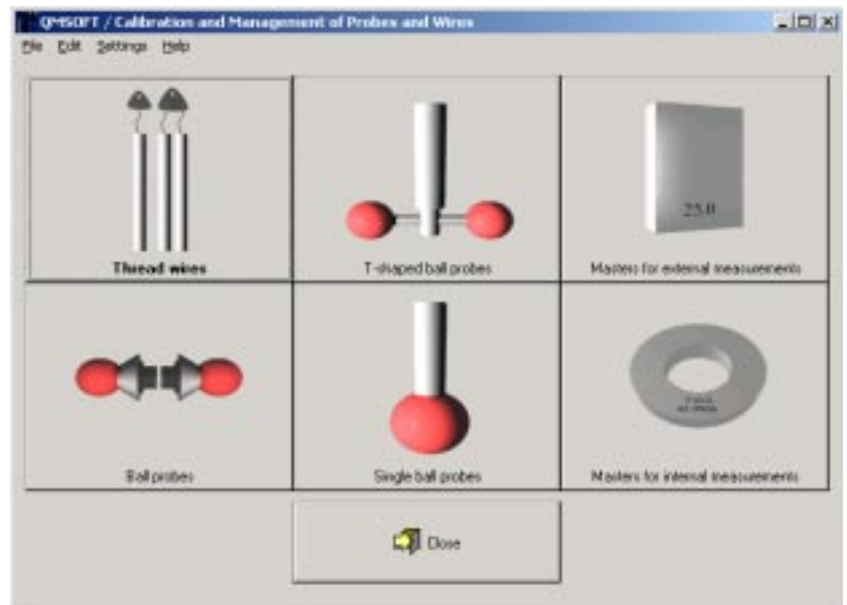
QMSOFT - Tools and Additional programs

There does exist a series of tools and additional programs as a part of the QMSOFT software system, which does help you to carry out calibrations more efficient and comfortable.

QM-PROBE

Doing gauge calibrations you will need constantly masters, setting parts, thread wires or other measuring accessories. The program QM-PROBE is a powerful tool to **manage** all this **probes and masters**.

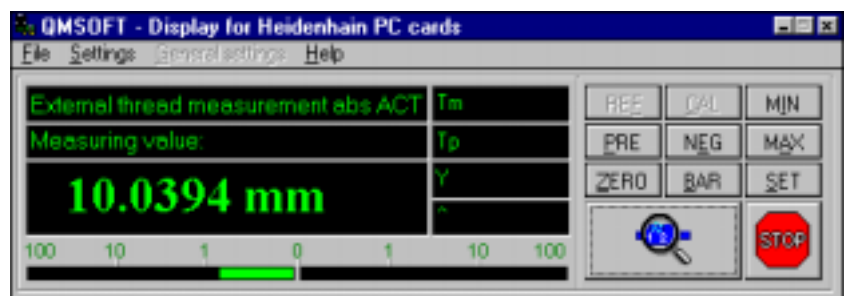
Especially for thread measurements, the automatic selection of thread wires or balls from the related libraries does increase the efficiency of your calibration process.



QMSOFT - Indicating programs

Efficient and convenient measurement does mean the Online taking-over of measurements from a connected measuring device.

The system QMSOFT includes different program modules, which does perform the **Online communication** with all **common measuring instruments**. This may be done via a serial cable or with special PC interface cards.



Program QM-THREAD (Inspection of thread gauges)

- ISO Metric threads, DIN ISO 1502 (DIN 13)
- ISO Metric threads, ANSI B1.16M
- Metric ISO Trapezoidal threads, DIN 103
- Unified threads and thread gauges, ANSI/ASME B1.1 u. B1.2
- Thread gauges for Unified threads, BS 919 (Part 1)
- Gauges for pipe threads, DIN ISO 228
- Steel conduit threads, DIN 40430, 40431
- Knuckle threads, DIN 405
- Buttress threads and gauges, DIN 513/Factory standard
- Gauges for wire thread inserts for metric threads, DIN 8140
- Gauges for screw threads of Whitworth form, British standard BS 84 / BS 919 (Part 2)
- NPSM pipe threads, ANSI/ASME 1.20.1
- Aerospace MJ threads, DIN ISO 5855
- Gauges for Metric and Unified thread inserts, Böllhoff factory standard
- Threads for valves and tyres, DIN 7756 and ETRTO V.7
- Metric threads, NFE 03-152/153 (GE40-010N)
- Unified threads, CNOMO GE40-008N (PSA, Renault)
- ACME threads, ANSI B1.5 - 1988
- Stub-ACME threads, ANSI B1.8 - 1988
- Buttress threads 7°/45°, ANSI B1.9 - 1973
- Hot-dip galvanized threads, DIN ISO 965:2002

Program QM-PLAIN

(Inspection of plain rings, plug and snap gauges)

- DIN-ISO 286 – 1
- DIN-ISO 286 – 2
- British Standard BS 969
- ANSI/ASME B89.1.6M-1984
- French Standard NFE 02-202 (GE40-001N)
- Master rings, BS 4064 : 1966 and BS 4065 : 1966
- Master rings, French Standard NFE 11-011

Today there are a lot of industrial users and commercial service calibration laboratories using our QMSOFT technology. Even more than 30 DKD (the German accreditation body) accredited laboratories make use of QMSOFT programs.

QMSOFT modules are also employed as „Third-Party-Components“ to extend the functionality of other software products, for example to calculate thread tolerances in a CAQ system.

Several universities and technical colleges make a practical education of their students in the field of gauge management and gauge calibration with the usage of the QMSOFT system.

Program QM-DIAL

(Inspection of Dial gauges and indicators)

- Dial gauges, DIN 878 - 1983
- Dial indicators, DIN 879 - 1999
- Dial test indicators, DIN 2270 - 1985
- Dial gauges, ASME/ANSI B89.1.10M
- Dial gauges, French Standard NFE 011-50
- Dial test indicators, French Standard XP E 11-053 : 2000
- Dial gauges, Japanese Standard JIS B 7503-1992
- Dial gauges, British Standard BS 907-1965
- Dial test indicators, British Standard BS 2795-1981
- Dial gauges and Test indicators, Australian Standard AS 2103
- Dial gauges (0.01 mm Graduation), Korean Standard KSB 5206-1984
- Dial gauges (0.001 mm Grad.), Korean Standard KSB 5207-1984
- Dial test indicators, Korean Standard KSB 5238-1976

Program QM-CALIP (Inspection of Calipers)

- DIN 862 - 1988
- British Standard BS 887
- French Standard NFE 11-091

Program QM-MICRO (Inspection of Micrometers)

- Micrometers (any type), DIN 863 – 1999 (Part 1-4)
- External micrometers, British Standard BS 870-1950
- Internal micrometers, British Standard BS 959-1950
- Depth micrometers, British Standard BS 6468 : 1984
- Micrometer heads, British Standard BS 1734 : 1951
- Micrometers (any type), Federal Specification (USA) GGG-C105 C-1987
- External micrometers, Australian Standard AS 2102
- Internal micrometers, Australian Standard AS 2101 : 1978

Countries in which QMSOFT has already been installed:

Argentina, Australia, Austria, Belgium, Brazil, Canada, China, Czech Republic, Denmark, Finland, France, Germany, Great Britain, Hungary, India, Indonesia, Iran, Israel, Italy, Luxembourg, Malaysia, Mexico, Netherlands, Norway, Poland, Sweden, Switzerland, Singapur, Slovenia, Slovakia, Spain, South Africa, South Korea, Taiwan, Turkey, USA

	<h2 style="margin: 0;">Calibration Certificate</h2> <p style="margin: 0;">Measurement Laboratory < customize here your name and logo ></p>	 QM-DIAL
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Inspection of Dial gauge acc. to BS 907 : 1965

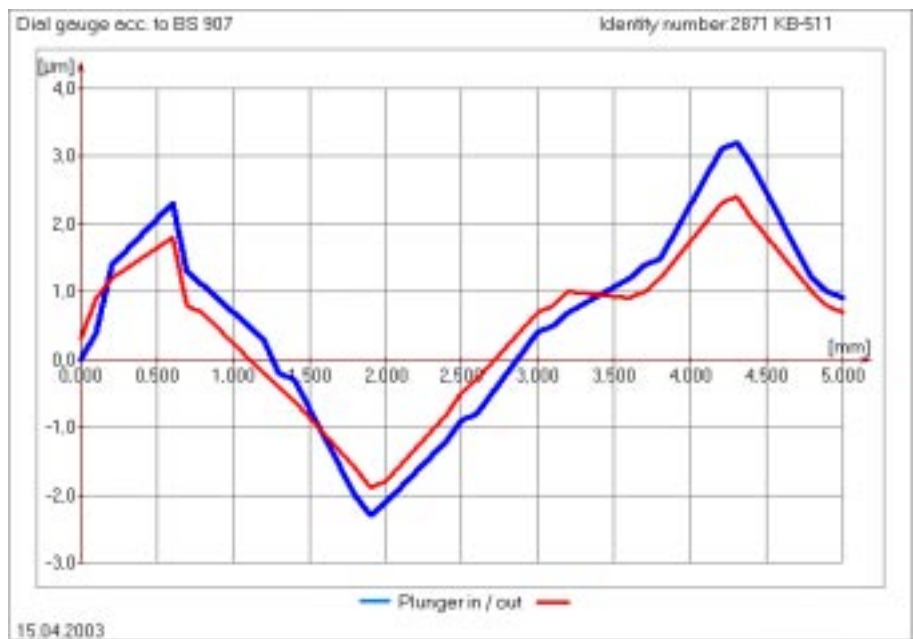
Customer: L&W
 Identity number: **2871 KB-511**
 Standard: BS 907 : 1965
 Measuring range: 5,00 mm
 Graduation: 0,01 mm
 Start of inspection: 0,00 mm
 End of inspection: 5,00 mm
 Inspection step: 0,10 mm
 Position for inspection of repeatability: 0,20 mm

Inspection results

Parameter	Nominal value [μm]	Actual value [μm]	Out of tolerance [μm]
Deviation – adjacent readings	5,00	1,50	-
Deviation over ½ revolution	7,50	2,20	-
Deviation over 1 revolution	10,00	3,10	-
Deviation over 2 revolutions	15,00	4,60	-
Deviation at any larger interval	20,00	5,50	-
Discrimination error	3,00	0,80	-
Repeatability	2,00	1,20	-

Valuation: **Gauge in tolerance**
 Inspection device: Dial gauge testing instrument - No. 178164
 Gauge block set 314826 (Cal. report no. 0125454-2002)
 Inspection date: 01 October 2002
 Operator:
 (Mr. Smith)

Calibration curve





Calibration Certificate

Measurement Laboratory
< customize here your name and logo >



QM-THREAD

Periodical inspection of GO / NO GO thread plug gauge

Customer: L&W
 Identity number: 6386-B012
 Thread designation: M 20x2.5-6H
 Standard: ISO metric threads according to DIN ISO 1502 (DIN 13)
 1. Flank angle: 30,00°
 2. Flank angle: 30,00°
 Pitch: 2,5000 mm
 Thread starts: 1,0
 Used wire diameter: 1,3500 mm
 Measuring force: 3,0 N
 Method of measurement: Three wires method

Gauge nominal values	GO side	NO GO side
Major diameter (max):	20,0300 mm	19,1210 mm
Major diameter (min):	20,0020 mm	19,0930 mm
Effective diameter (max):	18,3990 mm	18,6140 mm
Effective diameter (min):	18,3850 mm	18,6000 mm
Effective diameter - Wear limit :	18,3710 mm	18,5920 mm
Minor diameter - maximum value:	16,9331 mm	16,9331 mm

Measuring values of Effective diameter - GO Side

Meas. plane No.	Meas. value No.	Measure [mm]	Effective diameter [mm]	Out of tolerance [µm]
1	1	20,2574	18,3717	-
2	1	20,2582	18,3725	-
1	2	20,2565	18,3708	-0,20
2	2	20,2569	18,3712	-

Measuring values of Effective diameter - NO GO side

Meas. plane No.	Meas. value No.	Measure [mm]	Effective diameter [mm]	Out of tolerance [µm]
1	1	20,4823	18,5967	-
2	1	20,4831	18,5975	-

Valuation: **Gauge out of tolerances**
 Inspection procedure: VDI/VDE/DGQ 2618 (Page 23)
 Measuring uncertainty: $U = 1,5 \mu\text{m} + 0,9 \mu\text{m} * L$ (Length L in m)
 Inspection device and traceability: Measuring device no. B181289
 Gauge block set no. 531826 (Calibr.-Certificate-No. 02/25454-A)
 Inspection date: 16 March 2003
 Operator:
 (Mr. Smith)



Calibration Certificate

Measurement Laboratory
< customize here your name and logo >



Periodical inspection of GO / NO GO plug gauge

Customer: L&W
 Identity number: 817241
 Standard: DIN-ISO 286
 Nominal size: 30H7
 Upper deviation Es: 21,00 µm 30,02100 mm
 Lower deviation Ei: 0,00 µm 30,00000 mm

Gauge nominal sizes

Upper deviation GO side: 5,00 µm 30,00500 mm
 Lower deviation GO side: 1,00 µm 30,00100 mm
 Wear limit GO side: -3,00 µm 29,99700 mm
 Upper deviation NO GO side: 23,00 µm 30,02300 mm
 Lower deviation NO GO side: 19,00 µm 30,01900 mm

Actual values – GO side

Meas. plane no.	Meas. value no.	Measure [mm]	Out of tolerance [µm]	Tolerance graphic
1	1	30,0021	-	-----x-----
1	2	30,0027	-	-----x-----
2	1	30,0015	-	-----x-----
2	2	30,0018	-	-----x-----
3	1	30,0024	-	-----x-----
3	2	30,0022	-	-----x-----

Actual values – NO GO side

Meas. plane no.	Meas. value no.	Measure [mm]	Out of tolerance [µm]	Tolerance graphic
1	1	30,0213	-	-----x-----
1	2	30,0208	-	-----x-----
2	1	30,0218	-	-----x-----
2	2	30,0214	-	-----x-----

Valuation:

Gauge in tolerances

Inspection procedure: VDI/VDE/DGQ 2618 (Page 2)
 Measuring uncertainty: $U = 0,6 \mu\text{m} + 0,9 \mu\text{m} * L$ (Length L in m)
 Inspection device: Measuring device no. 98374; (Certificate no. 030217-12)
 Gauge block set No. 549231 (Calibration cert. no. 3504-17)
 Inspection date: 01 October 2002

Operator:
(Mr. Smith)

Each QMSOFT program does include an interface named „QmLink“. This interface was designed to create an universal tool to exchange gauge data as well as between the single QMSOFT components itself and also for the data exchange between a QMSOFT program and a „Third-Party“ system (e.g. a CAQ system).

QmLink was implemented as a file interface based on the XML format. This format is becoming more and more usual and does support a well structured description of gauge data on a simple way.

The L&W company does offer a detailed description of this interface to allow the developers of other software components a simple access to the complete functionality of the **QMSOFT®** program system.

```
<?xml version="1.0" encoding="ISO-8859-1"?>

<QmLink>

  <!-- Beispiel Meßauftrag: Grenzlehrdorn 20H7 nach DIN-ISO 286 -->

  <Version>2.00</Version>
  <Date>24.12.2002</Date>
  <Time>11:14:31</Time>
  <Creator>LEHRM32.EXE</Creator>
  <User>Mustermann</User>

  <Global>
    <Done>>false</Done>
    <ErrorCode>0</ErrorCode>
    <ErrorText></ErrorText>
    <NumberOfGauges>1</NumberOfGauges>
  </Global>

  <Gauge>

    <NominalData>

      <sIDENTNUMBER>0815</sIDENTNUMBER>
      <sNOMSIZE>20H7</sNOMSIZE>
      <sSTANDARD>DIN-ISO 286</sSTANDARD>
      <sUNIT>mm</sUNIT>
      <iGAUGETYPE>6</iGAUGETYPE>
      <sGAUGETYPE>Grenzlehrdorn</sGAUGETYPE>

      <!-- Abmaß vom Nennmaß -->

      <rUPPERDEVIATION>21,0 um</rUPPERDEVIATION>
      <rLOWERDEVIATION>0,0 um</rLOWERDEVIATION>

    </NominalData>

  </Gauge>

</QmLink>
```

Example for a QmLink file, representing the program call to inspect an plain GO/NO GO plug gauge.



www.lw-gmbh.com

L&W
Gostritzer Str. 61-63 / II B
01217 Dresden
Germany

Tel. +49 351 871 7474
Fax +49 351 871 7480
info@lw-gmbh.com

L&W
Dieselstr. 9
85757 Karlsfeld / München
Germany

Tel. +49 8131 50114
Fax +49 8131 50115
labor-muenchen@lw-gmbh.com

L&W
Bahnhofstr. 26
01979 Lauchhammer
Germany

Tel. +49 3574 854379
Fax +49 3574 854140
labor-lauchhammer@lw-gmbh.com