

The main condition for reliable quality control in production and in-/output of goods is the reliability and accuracy of the inspection, measuring and test equipment being used.

MESAS PMV is a versatile, flexible and powerful tool for control and management of gauges. Data are stored in databases, which, if used in a network, allow central access to any information throughout the plant. Connectivity to various types of data bases (like Borland, Interbase, Oracle) ensure protection of your investment while it provides long term availability of both data and software.

Quick and easy use

Master data for gauge types, characteristics as well as operators, suppliers, machines etc. are the base for catalogue assisted data input providing unambiguousness of data and accelerating inspection.

Specification of parameters for individual gauges (suffixes):

- Check interval
- Location
- Supplier
- Cost center etc.

The dates for the next visual check, measurement or capability check are calculated automatically taking into consideration non-production periods, like plant shut down.

Visual, Measurement and Capability Check.

Measurement is taken manually or (as an option) automatically by reading data from an external measuring machine.

Gauges can be excluded from monitoring, if applicable.

Gauges

see page 3

Optional Orders and Releases

Specification of selected gauge

see page 4

Characteristics of selected suffix

Specification of selected suffix

Specification of selected suffix

BaseNo	EquipmentLabel	GaugeLb1
024-Z-NI-TS-000125	MEASURING INDUCTIVE PROBE	
024-Z-NI-TS-00024	CO-ORDINATE MEASURING MAC	
024-Z-NI-TS-00025	GEAR MEASUREMENT MACHINE	
024-Z-NI-TS-00026	FORM MEASURING MACHINE	
024-Z-NI-TS-00027	CONTOUR AND ROUGHNESS MEF	
024-Z-NI-TS-00030	MARBLE PLATE WITH TABLE	

Order date	Order Qty.
13-11-2017 12:51:29	
13-11-2017 12:53:32	

Release number	Usage
1	

Gauges of selected gauge type				All charact. of selected gauge				
Suffix	EquipmentLabel	PartNo	VisualCheckWe...	CharSequenceNo	CharLabelShort	CharLabelLong	NominalVal...	UTol
A	GEAR MEASUREMENT		2	1	WIDTH	WIDTH	10.0000	11.0000
B	GEAR MEASUREMENT			2	H			
C	GEAR MEASUREMENT							

record Action : Show table

Base number: 024-Z-NI-TS-00025
GaugeType: GEAR MEASUREMENT MACHINE
Release: 5.0E / 27.07.2017
Info: RANGE- 260MM
Company: 18 KLINGERBERG
Contact person: ROSHANI Customer Supplier
Created by: KLAUS klaus
for production area: 127

Operations: FOR HOLDING PARTS
Employees: ABHISHEK KUMAR kl
Parts: 5025727, 65700030, 657000283, H1BR-7M161-ZFAA
Used with: 024

Base number: 024-Z-NI-TS-00025
Suffix: A
GaugeType: GEAR MEASUREMENT MACHINE
PartNo: ...
Part Label: ...
DrawingNo: ...
Date of receipt: -- -- 19
Visual check: 2 20-10-2017 03-11-2017
Calibration: 1 -- --
Capability: -- -- --
Operation: FOR GEAR MEASUREMENT
Stanchion: For tightening Differential Bolts
Location: LINE
Prod Area: ...
Storage location: ...
Table: ...
Hall: ...
SPC-Number: ...
PTM-Number: ...
Company: 18 KLINGERBERG
Created by: AKUMA168 ABHISHEK KUMAR
Locked for plant shutdown:

Operations: FOR HOLDING PARTS
Modell: ...
Parts: 5025727, 65700030, 657000283, H1BR-7M161-ZFAA
Used with: 024-Z-NI-TS-00037

Existing gauges

The screenshot shows the 'Gauge Types GETRAG SA' window. A callout box labeled 'Existing gauges' points to a table listing gauge types. Below this, a 'Specification of selected gauge' callout points to a table showing characteristics for a selected gauge.

Base number	EquipmentLabel	GaugeLb1
024-Z-NI-TS-000125	MEASURING INDUCTIVE PROBE	
024-Z-NI-TS-00024	CO-ORDINATE MEASURING MAC	
024-Z-NI-TS-00025	GEAR MEASUREMENT MACHINE	
024-Z-NI-TS-00026	FORM MEASURING MACHINE	
024-Z-NI-TS-00027	CONTOUR AND ROUGHNESS MEA	
024-Z-NI-TS-00030	MARBLE PLATE WITH TABLE	

Suffix	VisualCheckWe...	Vi:
A	2	20
B		
C	GEAR MEASUREMEI	

CharSequenceNo	CharLabelShort	CharLabelLong	NominalVal...	UTol
1	WIDTH	WIDTH	10.0000	11.0000
2	H	HEIGHT	11.0000	12.0000

The screenshot shows the 'Edit Base Number GETRAG SAN' window. It displays detailed information for a specific gauge type.

Base number: 024-Z-NI-TS-00025
 GaugeType: GEAR MEASUREMENT MACHINE
 Release: 5.0E / 27.07.2017
 Info: RANGE- 260MM
 Company: 18 KLINGERBERG
 Contact person: ROSHAN (Supplier)
 Created by: KLAUS (klaus)
 Last modified: 28-09-2017
 Created: 28-09-2017
 Characteristics: 2
 Suffices: 2
 127

OperationLbl	Full name	PartNo	Ref. Base Number
FOR HOLDING PARTS	ABHISHEK KUMAR kl	5025727 657000030 657000283 H1BR-7M161-ZFAA	024-Z-NI-TS-00037 024-Z-NI-TS-00134

Suffixes of selected gauge

Gauge types in system

Base number	Gauge	Gauge style
024-Z-NI-TA	DEPTH GAUGE	ATTRIBUTE
024-Z-NI-TS-000125	MEASURING INDUCTIVE PROBE	
024-Z-NI-TS-00024	COORDINATE MEASURING MACHINE	
024-Z-NI-TS-00025	GEAR MEASUREMENT MACHINE	
024-Z-NI-TS-00026	FORM MEASURING MACHINE	
024-Z-NI-TS-00027	CONTOUR AND ROUGHNESS MEASURING MACHINE	

Gauges of selected gauge type

Suffix	GaugeType	PartNo	VisualCh
A	GEAR MEASUREMENT MACHINE		2
B	GEAR MEASUREMENT MACHINE		
C	GEAR MEASUREMENT MACHINE		

Specification of selected suffix

All charact. of selected gauge

CharSequenceNo	CharLabelShort	CharLabelLong	NominalVal...	UTol	LTol
1	WIDTH	WIDTH	10.0000	11.0000	9.0000
2	H	HEIGHT	11.0000	12.0000	10.0000

Table :GlobalPlanung\PPPlanQty Number of records:3 Action :Show table

Edit gauge GETRAG SAN (V:16-11-2017 15:38:24)

Base number: 024-Z-NI-TS-00025
 Suffix: A
 GaugeType: GEAR MEASUREMENT MACHINE
 PartNo: [empty]
 Part Label: [empty]
 DrawingNo: [empty]

Release: 1
 Date of receipt: -- --

Visual check: 2 (20-10-2017) (03-11-2017)
 Calibration: 1 (--) (--)
 Capability: (--) (--)

Info: RANGE- 260mm

Storage location: [empty]
 Hall: [empty]
 SPC-Number: [empty]

Company: 18 (KLINGERBERG)
 Created by: AKUMA168 (ABHISHEK KUMAR)
 Locked for plant shutdown: [checkbox]

Operations: FOR HOLDING PARTS
 Parts: 5025727, 65700030, 657000283, H1BR-7M161-ZFAA
 Use: Ref. Base Number: 024-Z-NI-TS-00037

Control types and intervals (weeks) can be specified for each gauge (Suffix) individually. Dates for next check are calculated and optimized by considering non-production periods, if applicable

Control

Control of gauges GETRAG SAN (V:08-12-2017 12:39:46)

Gauges in system Reference: 024-Z-NI-TS-00037 2 show only one table

Base number	S.	GaugeType	VisualChe...	Calibration...	Capability...	Table	Cost center	PTMNR	Prod.Area	Stora...	Sh...	SPC...
024-Z-NI-TS-000125	A	MEASURING IND		20-10-2018			PRODUCTION		CIRCLIP	RACK	FLOO	
024-Z-NI-TS-00024	A	CO-ORDINATE M										
024-Z-NI-TS-00025	A	GEAR MEASUREM	07-12-2017	30-11-2017			QEHS		DIFF PRE YARD			
024-Z-NI-TS-00025	B	GEAR MEASUREM										
024-Z-NI-TS-00025	C	GEAR MEASUREM										

Date	Action	Location	Sta...	Employees	Table	Sh...	Storag...	Cost center	Stanchion	Remark	Machine
23-11-2017 09:42:54	PRODUCTION LI	Main Li		k1			YARD	QEHS	DIFFERENTIAL A		PRESS
16-11-2017 09:59:10	Dimensional Ch		OK	k1							
16-11-2017 09:58:15	Dimensional Ch		OK	k1							
16-11-2017 09:23:45	Dimensional Ch		OK	k1							
15-11-2017 15:33:50	Dimensional Ch		OK	k1							

Characterist. of selected inspection

Date	Cha...	CharLabelShort	CharLabelLong	NominalVa...	L-tol.	U-Tol.	MEAS.VALUE(ABS)	MeasValuea	Text
16-11-2017 09:59:10	1	WIDTH	WIDTH	10.0000	9.0000	11.0000	10.0000		
16-11-2017 09:59:10	2	H	HEIGHT	11.0000	10.0000	12.0000	0.0000		

Table :GlobalPlanung\PFUebQry Number of records:9 Action :Show table

Check results can be entered manually or automatically, e.g.:

- Automatic gauge check
- Length measuring machines
- Gauge capability software etc.

Characteristics GETRAG SAN (V:10-11-2017 07:00:02)

Base number: 024-Z-NI-TS-00025
Suffix: A
Action: M
Date: 16-11-2017

C.	CharLabelShort	CharLabelLong	Nominal	L-tol.	U-Tol.	MEAS.VALUE(AB...	Unit	MeasValuea	Text
1	WIDTH	WIDTH	10.0000	9.0000	11.0000	10.0010	mm		
2	H	HEIGHT	11.0000	10.0000	12.0000	12.0020	MM		

This example shows the results of the checked characteristics (manual measurement)

Reports

The gauge management software comes with a set of standard reports. Additional reports on request.

Status-Report

Number of Gauges actually in the System 4296

Gaugelist to do

Date: 12-04-2018
Page: 1
Total checks: 6

Basenumber	Suffix	Location	Partnumber	Operation	Gauge type	Position
024-Z-NI-TS-00026	A	METROLOGY LAB		FORFORM	FORM	METROLO LAB
Employee				Calibration 11.09.2018		
024-Z-NI-TS-00026	B	METROLOGY LAB		FORFORM	FORM	METROLO LAB
Employee				Calibration 11.09.2018		
024-Z-NI-TS-00036	A	MEASURING	38982074	TO SENSE	TEMPERATURE	
Employee			TEMPERATURE	Calibration 19.08.2018		
024-Z-NI-TS-00134	A	LINE	657000283	MAGNET	DC NUT RUNNER	OP2000
Employee			DC NUT RUNNER	Calibration 28.09.2017	TORQUE TOOL	
024-Z-NI-TS-00142	A	LINE	657000009	GNS ASSY	DC NUT RUNNER	For tightening Differential Bolts
Employee				Calibration 11.09.2017	TORQUE TOOL	
024-Z-NI-TS-000125	A	LINE	8E0048	Type-2	MEASURING	RAC GEAR
Employee klaus			Measuring Inductive	Calibration 20.10.2018		

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Weekly report of gauges to be checked

Monthly status report of checks

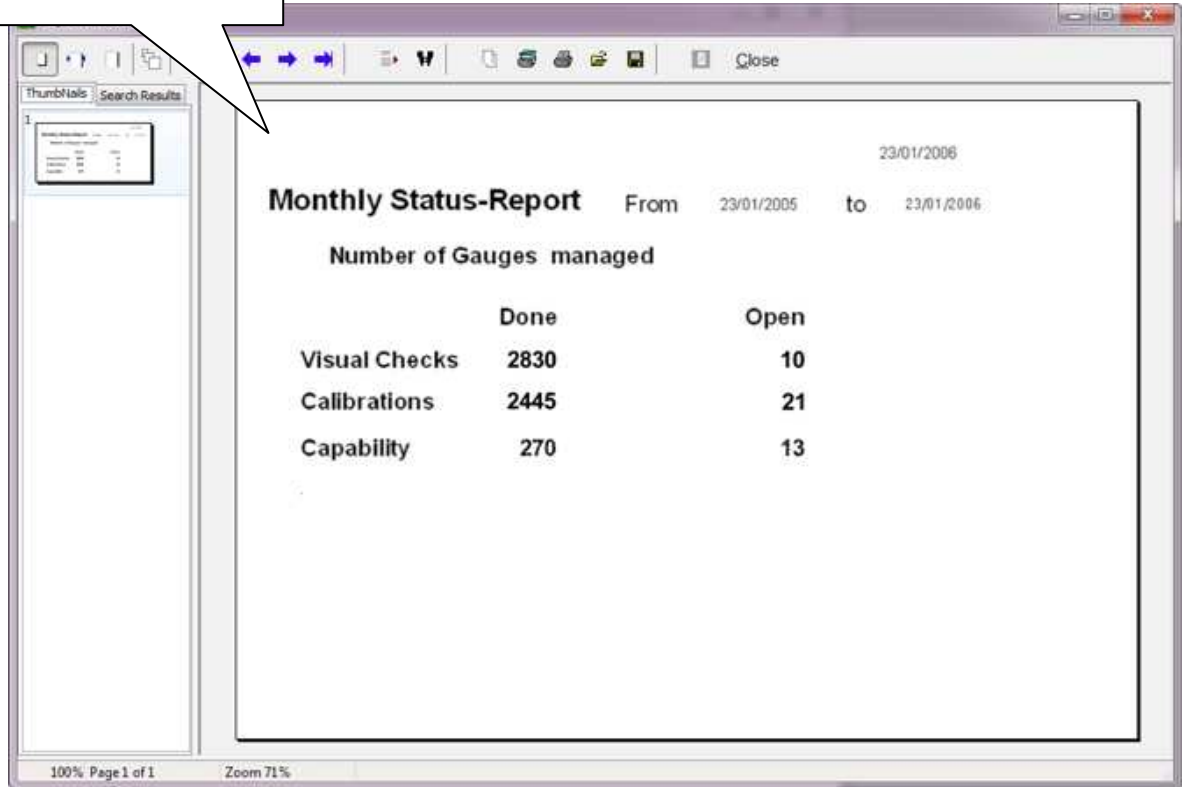


Chart of measured characteristics

