

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

Base	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

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

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

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

## Existing gauges

**Gauge types in system**

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	

**Gauges of selected gauge type**

Suffix	VisualCheckWe...	Vi:
A	2	24
B		
C	GEAR MEASUREMEI	

**All charact. of selected gauge**

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

Table :GlobalPlanung\PE Number of record Action :Show table

**Edit Base Number GETRAG SAN (V:08-12-2017 12:39:46)**

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 (Customer, Supplier)  
 Created by: KLAUS (klaus)

**Operations**

OperationLbl
FOR HOLDING PARTS

**Employees**

Full name
ABHISHEK KUMAR
kl

**Parts**

PartNo
5025727
657000030
657000283
H1BR-7M161-ZFAA

**Used with**

Ref. Base Number
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\PPlanQty 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  
 5.0E / 27.07.2017  
 Last modified: 13-11-2017 14  
 Created: 28-09-2017 19  
 127

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  
 Dimensional Check  
 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 19.06.2018		
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		

Weekly report of gauges to be checked

Monthly status report of checks

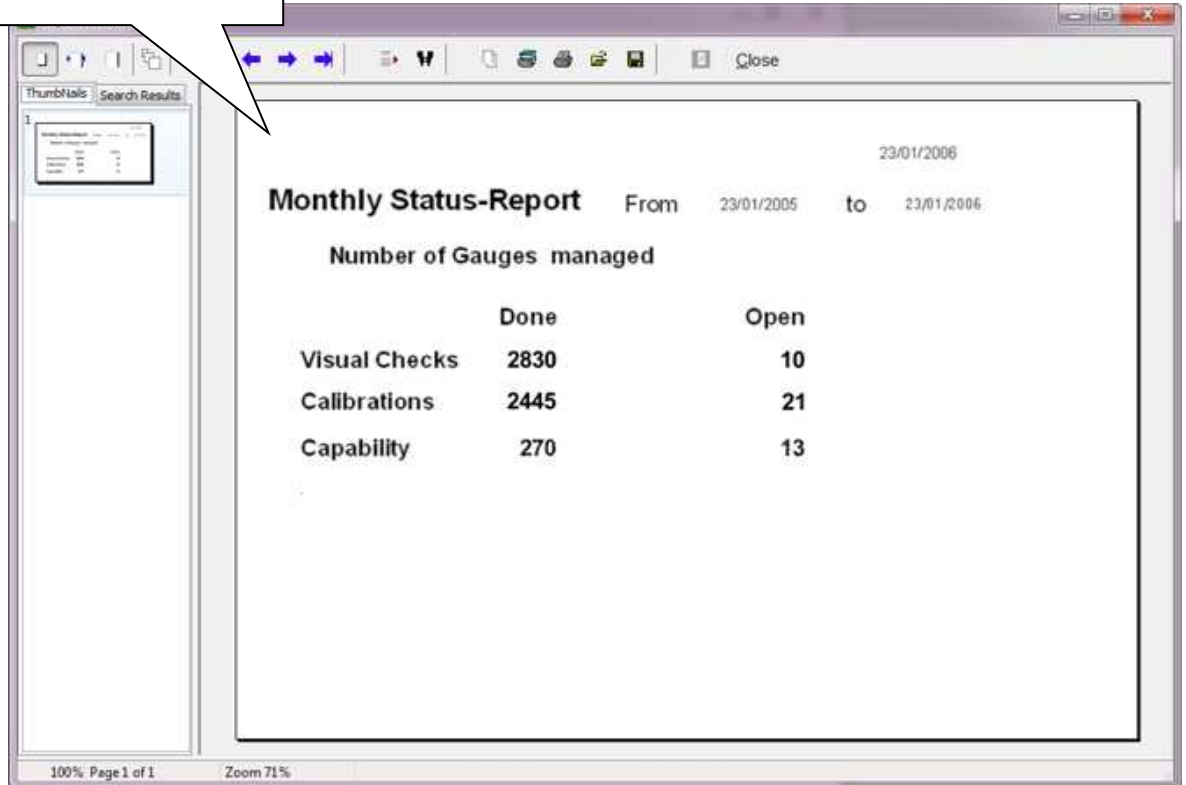


Chart of measured characteristics

