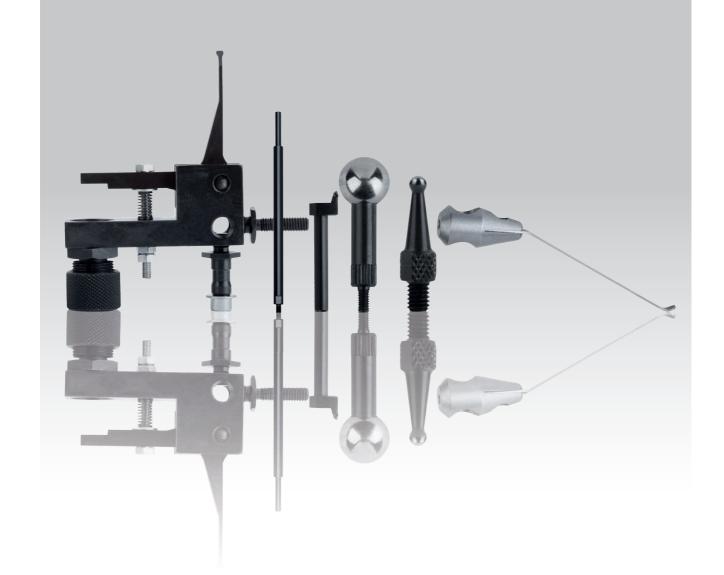
.

Standard components for inspection and testing devices



# Screw connection for dial gauges

with clamping shaft Ø 8

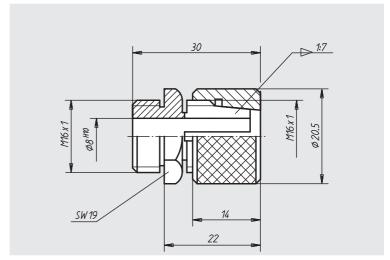


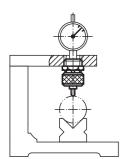


**Material:** Tempered steel

**Version:**Black oxide finish, collet tempered

Sample order: nlm 33000-08





Order No.	Approx.	
	Approx. weight	
	kg	
33000-08	0,042	



## Sliding holders for dial gauges



### Material:

Tempered steel

#### Version:

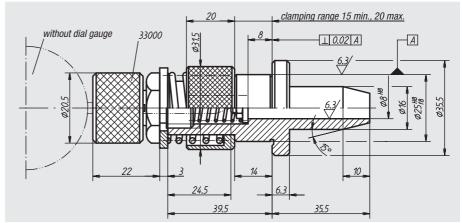
Black oxide finish, collet chuck and body heattreated

### Sample order:

nlm 33010-08025

### Note:

Dial gauge and probe are not included. Dial gauges see 32540 and 32542. Probes see 33020 up to 33026.



Order No.	Supplied for the tracer pin	Approx. weight kg
33010-08025	1 washer 5,3 x 14 x 1 1 hexagon nut M5 1 compression spring	0,240

### 33012

### Holder of dial gauges

short version with thread



### Material:

Tempered steel

### Version:

Black oxide finish, collet chuck and body heat-treated

#### Sample order:

nlm 33012-08050

Dial gauge and probe are not included. Dial gauges see 32540 and 32542.

Probes see 33020 up to 33026.

without dial gauge	46.5	9	50	4
0205	33000 SW 19		6 without prol	920 900 900

Order No.	Supplied for the tracer pin	Approx. weight kg
33012-08050	1 washer 5,3 x 14 x 1 1 hexagon nut M5 1 compression spring	0,140

### **Holders of dial gauges**

long version with thread



### Material: Tempered steel

### Version:

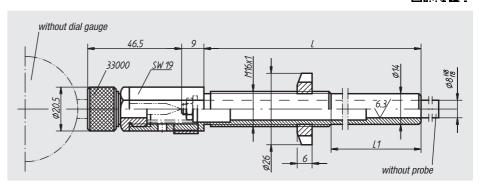
Black oxide finish, collet chuck and body heat-treated

### Sample order:

nlm 33014-08125

#### Note

Dial gauges and probes are not included. Dial gauges see 32540 and 32542. Probes see 33020 up to 33026.



Order No.	L	L1	Supplied for the tracer pin	Approx. weight kg
33014-08125	125	75	1 washer 5,3 x 14 x 1 1 hexagon nut M5 1 compression spring	0,175
33014-08180	180	130	1 washer 5,3 x 14 x 1 1 hexagon nut M5 1 compression spring	0,185

## 33016

### Holder for dial gauges

short version with smooth shaft



### Material:

Tempered steel

#### Version

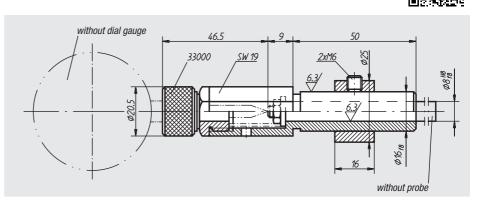
Black oxide finish, collet chuck and body heat-treated

### Sample order:

nlm 33016-08050

#### Note:

Dial gauge and probe are not included. Dial gauges see 32540 and 32542. Probes see 33020 up to 33026.



Order No.	Supplied for the tracer pin	Approx. weight kg
33016-08050	1 washer 5,3 x 14 x 1 1 hexagon nut M5 1 compression spring	0,170



### 33018

### **Holder for dial gauges**

for measuring yoke



### Material: Tempered steel

#### Version:

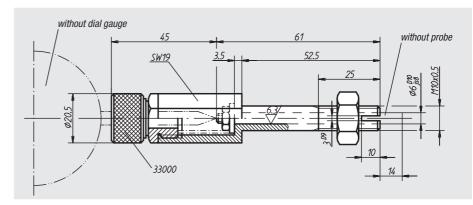
Black oxide finish, collet chuck and body heat-treated

### Sample order:

nlm 33018-06053

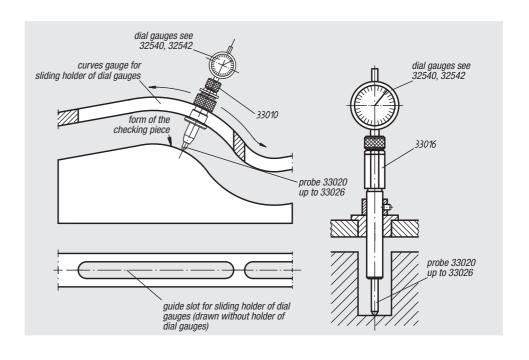
#### Note:

Dial gauges and probes are not included. Dial gauges see 32540 and 32542. Probes see 33028 up to 33032.



Order No.	Supplied for the tracer pin	Approx. weight kg
33018-06053	1 washer 4,3 x 14 x 0,9 1 hexagon nut M4	0,095
	1 compression spring	

## **Application: holder of dial gauges**



### **Probe**

### with face surface





Material: Steel

### Version:

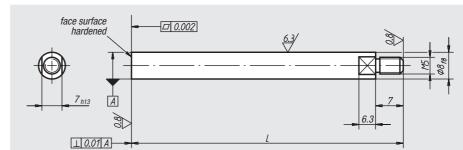
Black oxide finish

### Sample order:

nlm 33020-08100

### Note:

These probes are suitable for holders of dial gauges 33010 up to 33016.



Order No.	L	Approx. weight g
33020-08063	63	25
33020-08080	80	30
33020-08100	100	40
33020-08160	160	60
33020-08250	250	145

# 33022

### **Probe**

with flat point



Material:

Steel

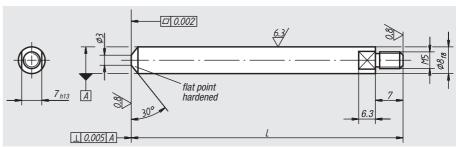
### Version:

Black oxide finish

### Sample order:

nlm 33022-08063

These probes are suitable for holders of dial gauges 33010 up to 33016.



Order No.	L	Approx. weight g
33022-08063	63	25
33022-08080	80	30
33022-08100	100	40



### Probe

### with reduced face surface





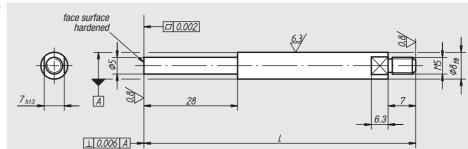
Material: Steel

**Version:** Black oxide finish

**Sample order:** nlm 33024-08160

### Note:

These probes are suitable for holders of dial gauges 33010 up to 33016.



Order No.	L	Approx. weight g
33024-08080	80	25
33024-08100	100	30
33024-08160	160	55
33024-08250	250	90

### 33026

### **Probe**

with reduced oval point



Material: Steel

### Version:

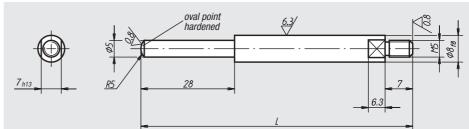
Black oxide finish

### Sample order:

nlm 33026-08080

#### Note:

These probes are suitable for holders of dial gauges 33010 up to 33016.



Order No.	L	Approx. weight g
33026-08080	80	25
33026-08100	100	30
33026-08160	160	55

### Flat probe





### Material:

Tool steel; support surface in hard metal

### Version:

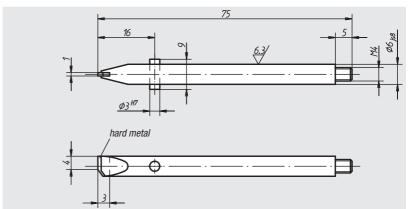
Black oxide finish

### Sample order:

nlm 33028-06075

#### Note

This probe is suitable for holder of dial gauges 33018.



Order No.	Approx. weight g	
33028-06075	16	

# 33029

### Flat stepped probe





### Material:

Tool steel; support surface in hard metal

### Version:

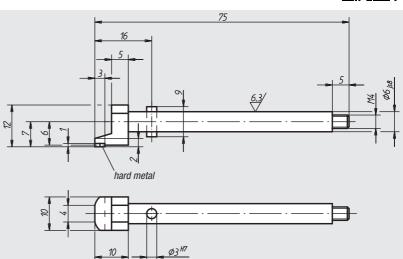
Black oxide finish

### Sample order:

nlm 33029-06075

#### Note:

This probe is suitable for holder of dial gauges 33018.



Order No.	Approx.
	Approx. weight g
33029-06075	19



### **Extension**

### for measuring inserts



### Material:

Tool steel

### Version:

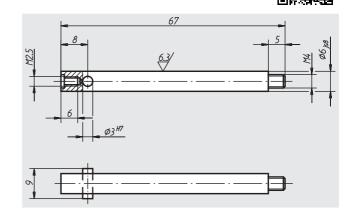
Black oxide finish

### Sample order:

nlm 33032-06067

#### Note:

This extension is suitable for holder of dial gauges 33018. Measuring inserts see 33040 up to 33052.



Order No.	Approx. weight g	
33032-06067	14	

## 33035

### Flat stepped probe

### for fixed stop



### Material:

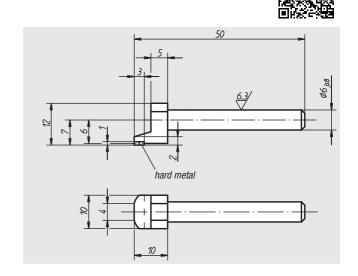
Tool steel; support surface in hard metal

### Version:

Black oxide finish

### Sample order:

nlm 33035-06050



Order No.	Approx. weight g	
33035-06050	14	

### **Measuring inserts**

with rounded cone point



### Material:

Steel or cone point in hard metal

### Version:

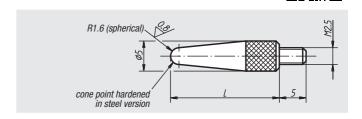
Black oxide finish

### Sample order:

nlm 33040-1025250

#### Note:

Dial gauges see 32540 and 32542.



Order No. cone point in steel	Order No. cone point in hard metal	L	Approx. weight g
33040-1025080	33040-2025080	8	11
33040-1025125	33040-2025125	12,5	16
33040-1025160	33040-2025160	16	20
33040-1025200	33040-2025200	20	24
33040-1025250	33040-2025250	25	26
33040-1025280	33040-2025280	28	29
33040-1025355	33040-2025355	35,5	40

### 33042

### **Measuring inserts**

with spherical point



### Material:

Tool steel

### Version:

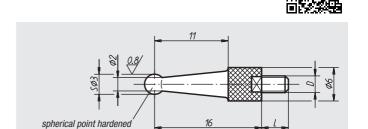
Hardened and black oxide finish

### Sample order:

nlm 33042-040016

### Note:

Dial gauges see 32540 and 32542.



Order No.	D	L	Approx. weight g
33042-025016	M2,5	5	2
33042-040016	M4	5	2



### 33044

## **Measuring inserts**

### wedge-shaped



Material: Steel

### Version:

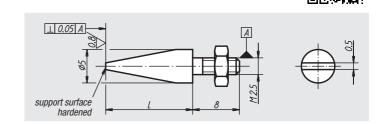
Black oxide finish. Support surface hardened

### Sample order:

nlm 33044-025080

#### Note:

Dial gauges see 32540 and 32542.



Order No.	L	Approx. weight g
33044-025080	8	13
33044-025125	12,5	18
33044-025160	16	22
33044-025200	20	25
33044-025280	28	33

### 33046

### **Measuring inserts**

with face surface



### Material:

Steel or face surface in hard metal

### Version:

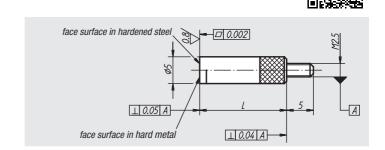
Black oxide finish

### Sample order:

nlm 33046-2025160

### Note:

Dial gauges see 32540 and 32542.



Order No. support surface in steel	Order No. support surface in hard metal	L	Approx. weight g
33046-1025080	33046-2025080	8	16
33046-1025125	33046-2025125	12,5	20
33046-1025160	33046-2025160	16	25

## **Measuring inserts**

with oval point



Material:

Steel

Version:

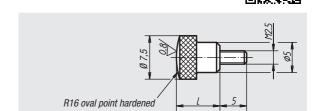
Hardened and black oxide finish

Sample order:

nlm 33048-025080

Note:

Dial gauges see 32540 and 32542.



Order No.	L	Approx. weight g
33048-025080	8	2

# 33050

### **Measuring inserts**

with extended face surface



Material:

Steel

### Version:

Hardened and black oxide finish

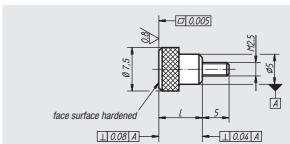
### Sample order:

nlm 33050-025080

#### Note:

Dial gauges see 32540 and 32542.





Order No.	1	Anarou
order No.	L	Approx. weight g
33050-025080	8	2



### 33052

### **Extensions**

### for measuring inserts



### Material:

Steel

### Version:

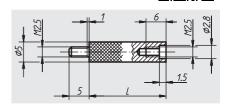
Black oxide finish

### Sample order:

nlm 33052-025120

### Note:

Suitable for measuring inserts 33040 up to 33050 as well as measuring inserts set 33058. Dial gauges see 32540 and 32542.



Order No.	L	Approx. weight g
33052-025080	8	1,0
33052-025100	10	1,4
33052-025120	12	1,6
33052-025160	16	2,0
33052-025200	20	2,6
33052-025240	24	3,1
33052-025300	30	4,7
33052-025320	32	4,0
33052-025400	40	5,9
33052-025500	50	7,4
33052-025600	60	8,9
33052-025700	70	10,5
33052-025800	80	12,0
33052-025900	90	13,5

### 33058

## Measuring inserts set

10-part

### Material:

Measuring inserts in hardened steel; box in plastic

### Version:

Black oxide finish

### Sample order:

nlm 33058-01

### **Threaded version:**

Thread M2.5.

Content: 9 inserts

1 extension

(length 30 mm).



Order No.	Approx. weight g	
33058-01	72	

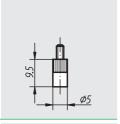
## **Measuring Inserts in hardened steel**

M 2.5 thread

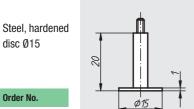




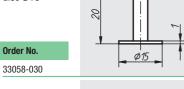
Steel, hardened flat Ø5



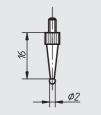
Order No. 33058-015



disc Ø15

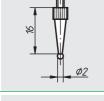


Steel, hardened ball Ø2

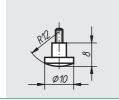


Order No.

33058-045



Steel, hardened domed R12



Order No.

33058-060

knife



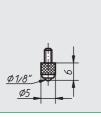
one-sided

Steel, hardened

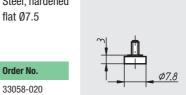
Order No.



Order No. 33058-090



Steel, hardened

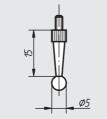


Steel, hardened pin Ø1



Order No. 33058-035

Steel, hardened

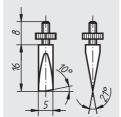


Order No.

ball Ø5

33058-050

Steel, hardened



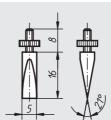
Order No.

knife

33058-065

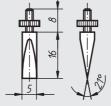
Order No.

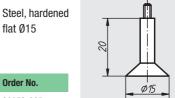
33058-080



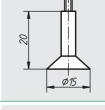
angled 10°

Steel, hardened knife





33058-025



Steel, hardened





33058-040

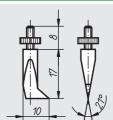


Steel, hardened ball Ø10



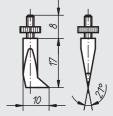
Order No.

33058-055



Steel, hardened knife laterally off-set

Order No. 33058-070







Order No.

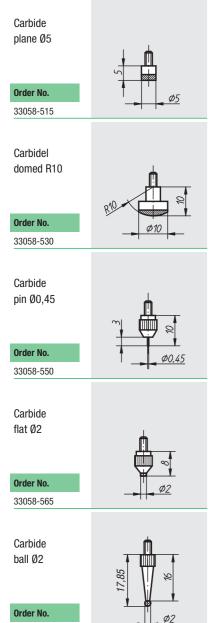
33058-085

### Measuring inserts in hard metal

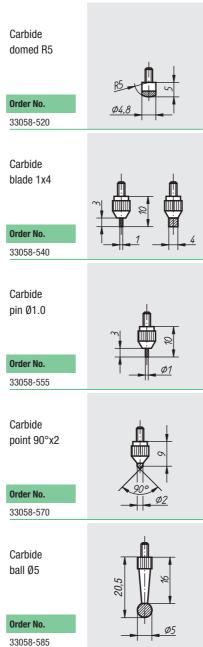
M 2.5 thread

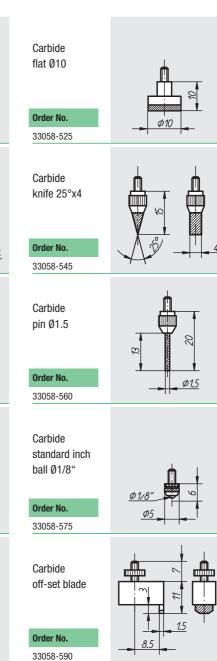






33058-580





# **Housing of protection**

for dial gauges



### Material: Steel

Version:

Painted yellow

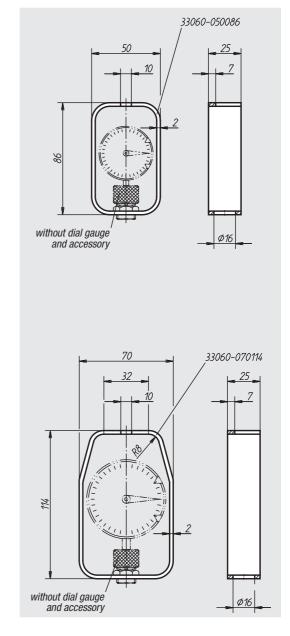
Sample order:

nlm 33060-050086

#### Note:

Dial gauges see 32540 and 32542. Screw connections for dial gauges see 33000. Holder of dial gauges see 33010 up to 33018.





Order No.	Approx. weight kg	
33060-050086	0,100	
33060-070114	0,120	

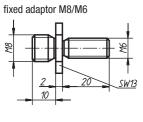


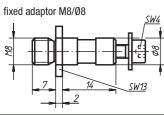
### **Technical information for holder of dial gauges**

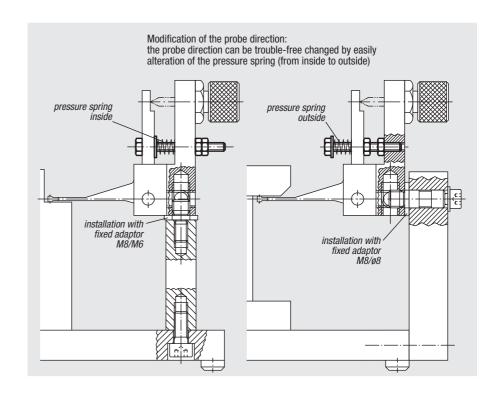
For alternative installation of the deflection dial gauge holder:

- fastening adapter M8/M6 (double thread)
- fastening adapter M8/Ø8 (thread and smooth pin)

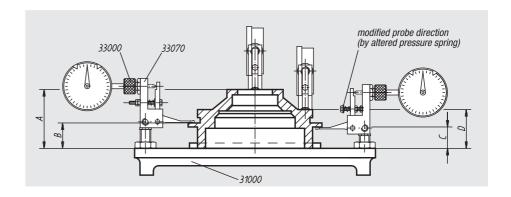
Both fastening adapters are supplied with the deflection dial gauges holder.







# Application: for simultaneous control of 4 height dimensions with holder of dial gauges



### Holder of dial gauges with deflection by 90°





Material: Steel

#### Version:

Black oxide finish

### Sample order:

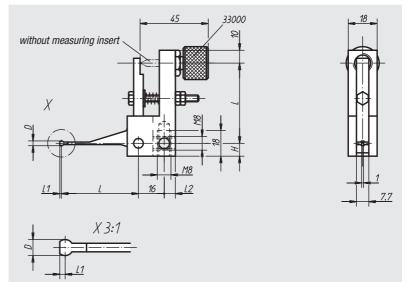
nlm 33070-04803

#### Note:

Direction modification of the probe and mounting of the holder of dial gauges with deflection by means of fixed adaptors (they are supplied) see technical information.

### Accessory:

Dial gauges see 32540 and 32542. Measuring inserts see 33040 up to 33052.



Order No.	L	D	L1	L2	Н	Approx. weight kg
33070-04803	48	3	1	7	8	0,185
33070-07008	70	8	1,5	6	10	0,265

### 33072

### Holder of dial gauges with deflection by 90°

probe with thread



Material: Steel

### Version:

Black oxide finish

### Sample order:

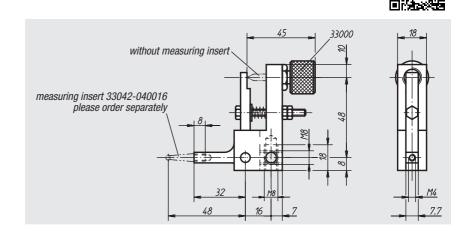
nlm 33072-048

#### Note:

Direction modification of the probe and mounting of the holder of dial gauges with deflection by means of fixed adaptors (they are supplied) see technical information.

### Accessory:

Dial gauges see 32540 and 32542. Gauge inserts see 33042-040016.



Order No.	Approx. weight	
	kg	
33072-048	0,195	



### Holder of dial gauges with deflection by 90°

probe with borehole



### Material, version:

Base body in aluminium, black anodized; probe in steel precision casting, black oxide finish

### Sample order:

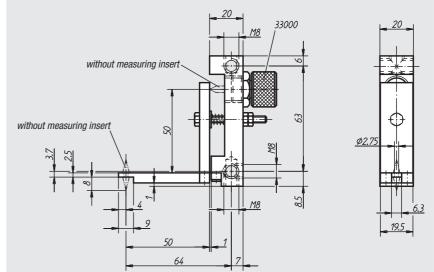
nlm 33074-050

#### Note:

Direction modification of the probe and mounting of the holder of dial gauges with deflection by means of fixed adaptors (they are supplied) see technical information.

### Accessory:

Dial gauges see 32540 and 32542. Measuring inserts see 33040 up to 33052.



Order No.	Approx.
	weight
	kg
33074-050	0,155

### 33076

### Holder of dial gauges with deflection by 180°

probe with borehole



### Material, version:

Base body in aluminium, black anodized; probe in steel precision casting, black oxide finish

### Sample order:

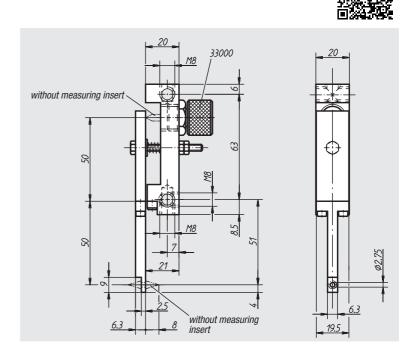
nlm 33076-050

#### Note:

Direction modification of the probe and mounting of the holder of dial gauges with deflection by means of fixed adaptors (they are supplied) see technical information.

### Accessory:

Dial gauges see 32540 and 32542. Measuring inserts see 33040 up to 33052.



Order No.	Approx. weight kg	
33076-050	0,155	

### Holder of dial gauges with deflection by 90°

probe with thread





### Material, version:

Base body in aluminium, black anodized; probe in steel precision casting, black oxide finish

#### Sample order:

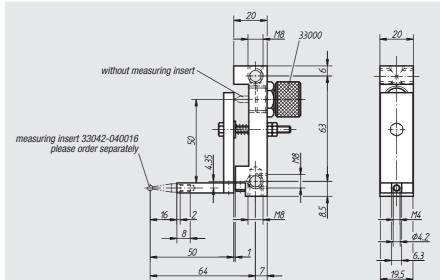
nlm 33078-050

### Note:

Direction modification of the probe and mounting of the holder of dial gauges with deflection by means of fixed adaptors (they are supplied) see technical information.

#### Accessory:

Dial gauges see 32540 and 32542. Gauge inserts see 33042-040016.



Order No.	Approx. weight kg	
33078-050	0,150	

### 33080

### Holder of dial gauges with deflection by 180°

probe with thread





### Material, version:

Base body in aluminium, black anodized; probe in steel precision casting, black oxide finish

#### Sample order:

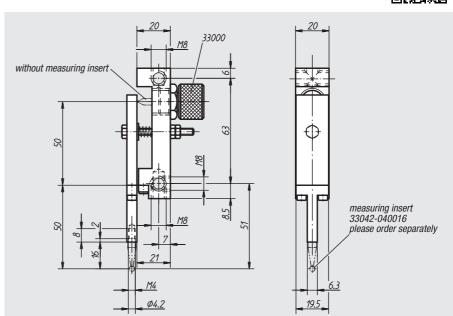
nlm 33080-050

#### Note:

Direction modification of the probe and mounting of the holder of dial gauges with deflection by means of fixed adaptors (they are supplied) see technical information.

### Accessory:

Dial gauges see 32540 and 32542. Gauge inserts see 33042-040016.

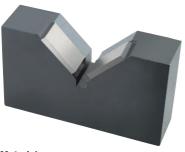


Order No.	Approx. weight	
	kg	
33080-050	0,150	



### **Prism attachments**





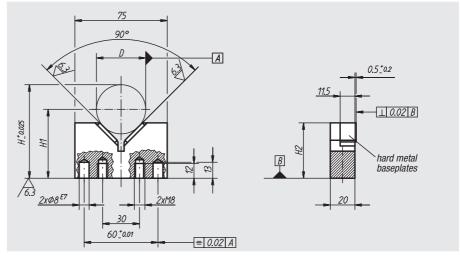
### Material:

Tempered steel; support in hard metal

Black oxide finish; support surface ground, natural finish

### Sample order:

nlm 33090-010020



Order No.	D min.	D max.	D Test-Ø	Н	H1	H2	Approx. weight kg
33090-010020	10	20	20	66	$D/2 \times \sqrt{2} + 41,857$	53	0,550
33090-020040	20	40	40	76	D/2 x √2 + 27,716	45	0,440

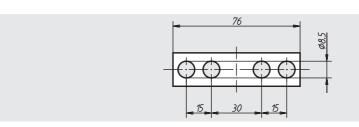
## 33092

### **Spacers**

for prisms attachments







Tempered steel

### Version:

Black oxide finish

### Sample order:

nlm 33092-012

Spacers are used as height elements for prisms attachments 33090.

Order No.	Н	Approx. weight kg
33092-005	5	0,050
33092-008	8	0,080
33092-012	12	0,120
33092-015	15	0,150
33092-020	20	0,200

### **Slotted round nuts**

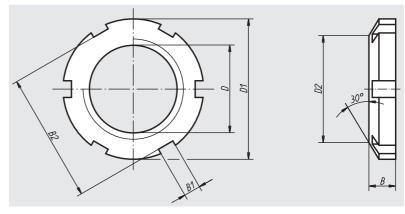




**Material:** Tempered steel

**Version:** Black oxide finish

Sample order: nlm 33105-16



Order No.	D	D1	D2	В	B1	B2	Number of slots	Approx. weight g
33105-16	M16x1	26	21	6	4	22	4	13
33105-36	M36x1,5	52	44	9	6	46	6	65



### **Pivoting columns**





### Material:

Steel

### Version:

Black oxide finish

### Sample order:

nlm 33110-200

#### Note:

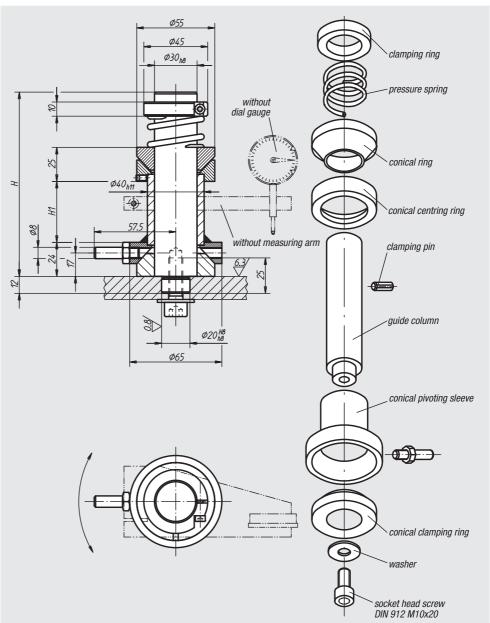
Dial gauges see 32540 and 32542. Measuring arms see 33150.

### **Application:**

For height measurements.

### Assembly:

- Fully dismantle the pivoting column.
- Fix guide column to the measuring table with washer and socket head screw.
- Place the conical clamping ring in position and press on the seat-engaging surface during the clamping procedure.
- Insert the conical pivoting sleeve.
- Fix the measuring arm onto the conical pivoting sleeve.
- Fix the conical centring ring onto the conical pivoting sleeve with two threaded holts.
- Insert the clamping pin into the guide column.
- Push the conical ring onto the guide column such that the clamping pin engages in the slot on the conical ring.
   Ensure that the seat of the conical ring has no play in it.
- Mount the pressure spring on the block with the clamping ring to prevent axial play.
- As a basic principle: Lubricate all running surfaces.



Order No.	Н	H1	Approx. weight kg
33110-130	130	43	1,650
33110-160	160	73	1,920
33110-200	200	113	2,280
33110-250	250	163	2,750



### **Pivoting systems**





### Material:

Steel

### Version:

Black oxide finish

#### Sample order:

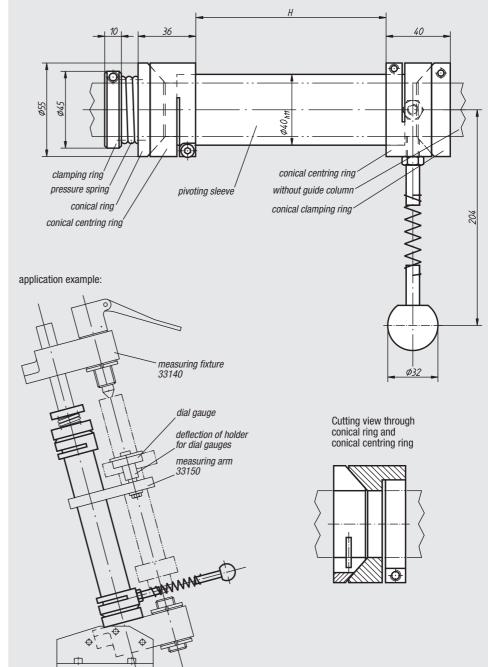
nlm 33115-426

### Note:

The pivoting systems are adapted to measuring fixtures 33140. Measuring arms see 33150.

#### Assembly:

- Place the conical clamping ring on the guide column and clamp in the desired position.
- Fix the conical centring ring to the pivoting sleeve and insert it such that the conical centring ring lies on top of the conical clamping ring.
- Fix the measuring arm onto the pivoting sleeve.
- Fix the second conical centring ring onto the pivoting sleeve.
- Insert the conical ring and pressure spring.
- Mount the pressure spring on the block with the clamping ring to prevent axial play
- As a basic principle: Lubricate all running surfaces.



Order No.	Н	Approx. weight kg
33115-200	200	1,845
33115-276	276	2,125
33115-426	426	2,665
33115-536	536	3,040



# **Measuring fixtures**





### Material:

Steel; shaft bearing GJL 200

### Version:

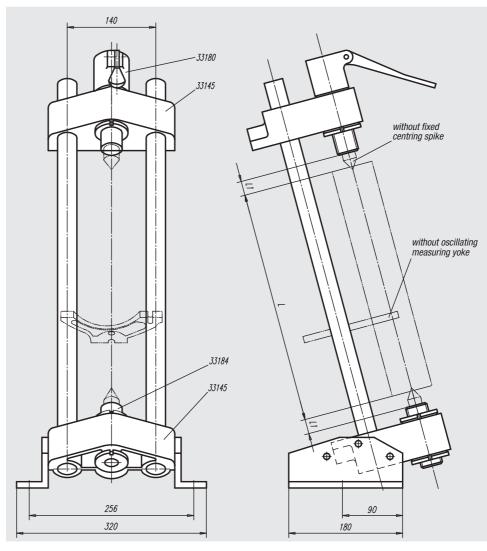
Steel parts black oxide finish, shaft bearing painted

### Sample order:

nlm 33140-240444

### Note:

See application example.



Order No.	L for L1 = 32 (with fixed centering point 33190-02096)	L for L1 = $49$ (with fixed centering point $33190-02113$ )	Approx. weight kg
33140-240444	274 up to 444	240 up to 410	14,600
33140-410524	444 up to 524	410 up to 490	15,400

# **Application example: measuring fixture**



# **Measuring arms**





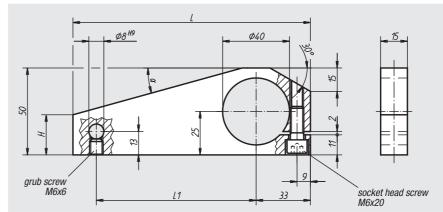
Material: Steel

### Version: Black oxide finish

Sample order: nlm 33150-095

### Note:

The measuring arms are suitable for pivoting columns 33110 and pivoting systems 33115.



Order No.	L	L1	Н	α	Approx. weight kg
33150-095	95	50	18	30°	0,275
33150-140	140	95	23	15°	0,280

# Spring mounted centre sleeves

with tension lever

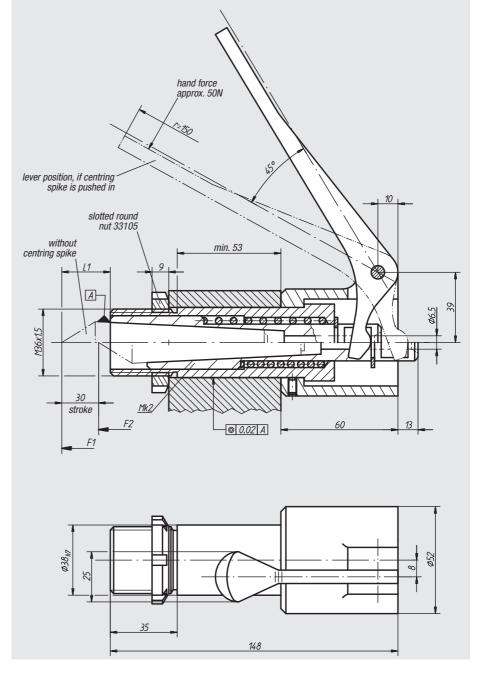




Material: Steel

**Version:**Black oxide finish

Sample order: nlm 33180-02



Order No.	L1	suitable centering point	Spring force initial pressure F1 approx. N	Final pressure F2 approx. N	Approx. weight kg
33180-02	32 41 49	33190-02096 33190-02105 33190-02113	100	150	1,045



# **Spring mounted centre sleeves**

with lifting curve



Steel; ball in black duroplastic PF 31

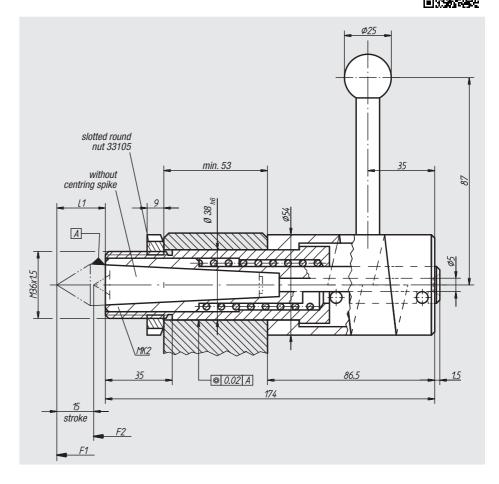
### Version:

Black oxide finish

### Sample order:

nlm 33182-02

The max. course of 15 mm can be reached by rotation of lifting curve by 180°.



Order No.	L1	suitable centering point	Spring force initial pressure F1 approx. N	Final pressure F2 approx. N	Approx. weight kg
33182-02	32	33190-02096	100	137	1,900
	41 49	33190-02105 33190-02113			

## Adjustable collet

for centring spikes



Material: Body 1.7220

### Version:

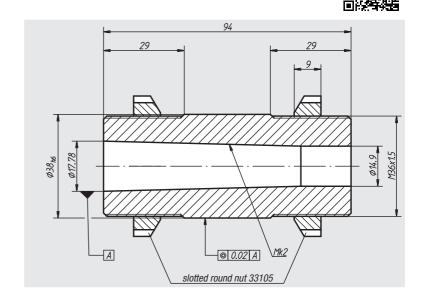
Black oxide finish

### Sample order:

nlm 33184-02

#### Note

Suitable centring spikes see 33190.



Order No.	Approx.
	weight
	kg
33184-02	0,750

# 33190

### **Fixed centring spikes**





### Material:

1.2067

### Version:

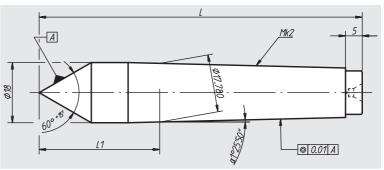
Hardened and ground, natural finish

### Sample order:

nlm 33190-02105

#### Note:

The fixed centring spikes are suitable for: 33180, 33182 and 33184.



Order No.	L	L1	Approx.
			weight
			kg
33190-02096	96	32	0,145
33190-02105	105	41	0,170
33190-02113	113	49	0,180





<

## **Measuring element**

for toothed wheels



### Material:

Steel

### Version:

Black oxide finish

### Sample order:

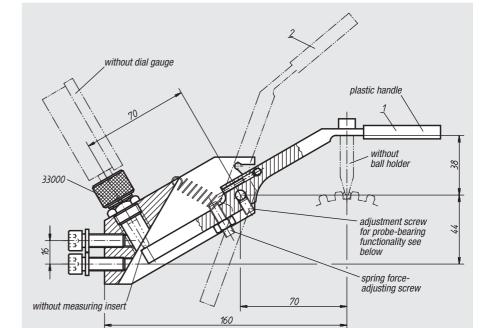
nlm 33202-070

### Note:

1 = Probe in tactile position

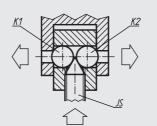
2 = Probe in resting position, engaged.

For suitable ball holder see 32205. Dial gauges see 32540 and 32542. Measuring inserts see 33040 up to 33052.

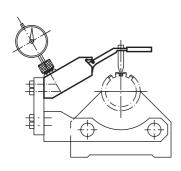




Functionality of probe bearing



Both balls K1 and K2 are moved apart and pressed against the wall by turning the adjustment screw (S). This allows for play-free adjustment.



Order No.	Approx.
	Approx. weight
	kg
33202-070	0,640



### **Ball holders**





Material:

Spring steel

Version:

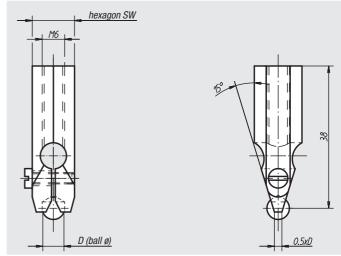
Black oxide finish

Sample order:

nlm 33205-03500

#### Note:

Balls in hard metal available on request. The ball holders are suitable for measuring element for toothed wheels 33202.



Order No.	D	SW	Approx.
Oracl Hor	<u> </u>	<b></b>	weight g
33205-02000	2	10	14
33205-02380	2,38	10	14
33205-02500	2,5	10	14
33205-03000	3	10	15
33205-03500	3,5	10	15
33205-03960	3,96	10	15
33205-04000	4	10	15
33205-04500	4,5	10	16
33205-04760	4,76	10	16
33205-05000	5	10	16
33205-05560	5,56	10	16
33205-06000	6	10	16
33205-06500	6,5	13	28
33205-07000	7	13	28
33205-07540	7,54	13	29
33205-07938	7,938	13	29
33205-08500	8,5	13	30
33205-09520	9,52	13	32
33205-10000	10	13	32

### **Precision vice**





### Material, version:

Steel, surface-hardened and precision-ground.

### Sample order:

nlm 33225-500351

### Note:

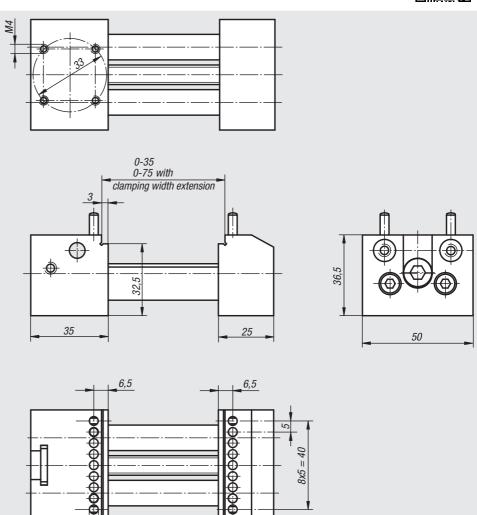
The precision vice is a flexible solution for positioning and securing workpieces quickly and easily for measurement on measuring machines. Clamping is achieved by means of the stepped jaws or pins that can be inserted into the jaws. This allows even workpieces with holes inside to be clamped. Thanks to the interchangeable guiding columns, the clamping width can be increased from 35 mm to as high as 75 mm. The vice can be placed on the measuring table in 4 orientations, each at a right angle to one another.

The scope of delivery includes an adjustable stop, a set of columns for increasing the clamping width

up to 75 mm and a spindle extension as well as 4 pins and operating tool.

#### On request:

Set of columns for clamping width 100 mm or 150 mm.





Order No.	Арргох.	
	weight	
	kg	
33225-500351	1,430	

4,02 H7



# Accessories for precision vice





**33225-01** Stepped cylindrical pins for increased part clamping



**33225-03**Stepped cylindrical pins for increased part clamping with vee block 120°



**33225-05**Jaws for narrow parts



**33225-06** V-groove jaws



**33225-07** V-groove jaws with two-point contact



**33225-08**V-groove jaws
with three-point contact

Order No.	Article description	Material	Clamping range	Scope of delivery	Approx. weight kg
33225-01	CYLINDRICAL PIN STEPPED FOR PRECISION VICE	Steel	-	4-piece set	0,004
33225-03	CYLINDRICAL PIN STEPPED FOR PRECISION VICE	Steel	-	4-piece set	0,003
33225-05	JAW FOR PRECISION VICE	Stainless steel	<3	Individual pieces with fastening screws	0,032
33225-06	V-GROOVE JAW FOR PRECISION VICE	Aluminium	Ø2 - Ø10	In pairs with fastening screws	0,01
33225-07	V-GROOVE JAW FOR PRECISION VICE	Aluminium	Ø5 - Ø20	In pairs with fastening screws	0,065
33225-08	V-GROOVE JAW FOR PRECISION VICE	Aluminium	bis Ø30	In pairs with fastening screws	0,1

### Clamping component set





Sample order: nlm 33250-12

#### Note:

Clamping component set for measuring microscopes and optical measurement devices for fast and flexible clamping of small parts. A wide variety of work-pieces such as plastic, punched or lathe-cut parts can be precisely positioned and securely clamped. Clamping of parts, a frequent problem in measurement tasks, is thus largely solved.

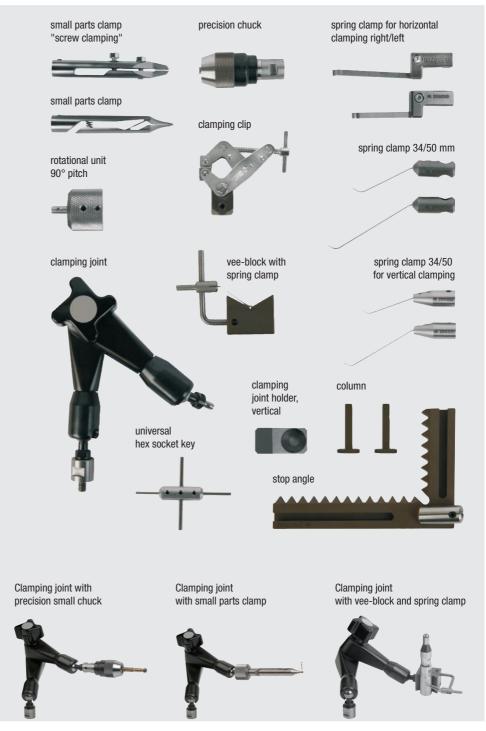
The basis of the clamping system is a high-quality clamping joint that is fixed to the measuring table. Clamping elements such as chucks or clamping clips are easily mounted on the clamping joint by means of the integrated quick-change interface.

Delivered in a wooden chest.

### **Application:**

- chuck and vee-block for fixation of rotationally symmetrical parts
- stop angle, clamping clip and small parts clamping devices for clamping sheet metal and bent parts, for example







small parts clamp "screw clamping", vee-block with spring clamp, precision chuck, 2 columns, clamping clip, universal hex socket key



# 33260

## **Spring clamp**





Material, version:

Stainless steel, natural finish

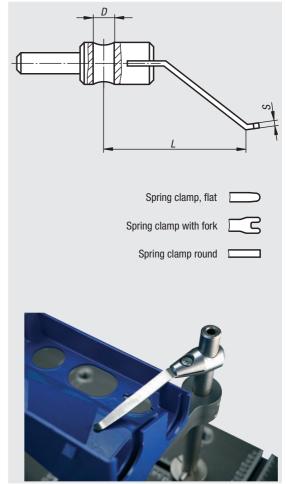
Sample order:

nlm 33260-10605010

For fixation of small parts on measurement and monitoring plates.

Accessory:

Columns for spring clamp 33262.



Order No.	Version	D	L	S	Approx. weight kg
33260-10403004	flat	4	30	0,4	0,007
33260-10403008	flat	4	30	0,8	0,007
33260-10605010	flat	6	50	1	0,020
33260-10607510	flat	6	75	1	0,022
33260-11207510	flat	12	75	1	0,030
33260-11209510	flat	12	95	1	0,031
33260-21207515	fork	12	75	1,5	0,033
33260-21209515	fork	12	95	1,5	0,036
33260-30404011	round	4	40	1,1	0,005
33260-30406011	round	4	60	1,1	0,006
33260-31208025	round	12	80	2,5	0,032
33260-31208030	round	12	80	3	0,032

### **Columns**

for spring clamps



### Material, version:

Stainless steel 1.4301, natural finish

### Sample order:

nlm 33262-0606X030 (please also indicate dimension L)

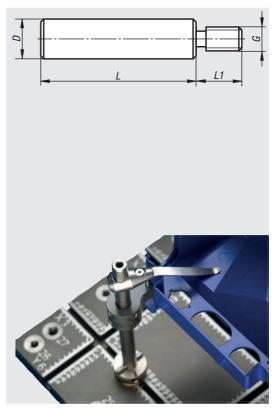
#### Note:

Columns for holding spring clamps.

### Accessory:

Spring clamp 33260.





Order No.	D	G	L	L1
33262-0404X	4	M4	30/50	5
33262-0606X	6	M6	30/50	8
33262-0608X	6	M8	30/50	10
33262-1206X	12	M6	50/100	8
33262-1208X	12	M8	50/100	11,5
33262-1210X	12	M10	50/100/150	11,5

