



## Bore plug gauge for blind holes OD stainless, Sleeve Ø D: 12-20mm



### Order data

Order number	435159 12-20
GTIN	2050001951236
Item class	46D

### Description

#### Version:

OD bore plug gauges are mechanical two-point dial bore plug gauges for highest requirements. Hardened gauging sleeve. For bores of 3 – 100 mm. Centring by the gauging sleeve prevents tilt errors and therefore ensures maximum precision irrespective of the user. No need to seek the return point. Dial indicators with shank Ø 8 h6 can be used as displays.

- **Repetition accuracy 1 µm.**
- **Robust and reliable.**
- **Minimum measuring time with maximum measuring reliability.**
- **Thread connection bore gauge/ holder M10×1.**

Measuring sleeve made of stainless steel against corrosion.

#### Application:

For bores of 3 – 100 mm. For quality assurance in series production, manual or automatic measuring.

#### Supplied with:

Gauging sleeve with two radially movable 180° offset carbide measuring bars.

#### Optional extras:

Precision dial comparator No. 434674, inductive precision dial comparator No. 434670, dial indicator with anticlockwise scale 434807 size 10, digital dial indicator 434322, holder for plug gauges No. 435160, setting rings No. 484030. Measuring depth extensions, angle pieces and depth stops on request.

#### Note:

When ordering, please state **additionally** the exact bore tolerances, for example:

No. 435154 size 6–12 **10H7**,

No. 435154 size 6–12 **10 + 0.15 / – 0.01**,

No. 435154 size 6–12 **9.990 / 10.15.**

When using precision dial indicators, an additional extension No. 434920 size 10 or probe No. 434900 size 16 is required.

- **Plug gauges for large bores (up to Ø 500), recesses, grooves, also in 3-point version available on request.**
- **Tolerance range 10 µm or fine fit quality 5 and finer on request.**
- **Measuring range > 0.2 mm on request.**
- **Measuring contacts with larger radius as well as in ruby, ceramic and DLC-coated are available.**

## Technical description

Gauging force	2 N
Sleeve dimension H	13.5 mm
Repetition accuracy	1.5 µm
Face dimension h	1 mm
Tolerance zone	V
Tolerance zone	U
Tolerance zone	T
Tolerance zone	B
Tolerance zone	S
Tolerance zone	R
Tolerance zone	P
Tolerance zone	M
Tolerance zone	N
Tolerance zone	K
Tolerance zone	JS
Tolerance zone	H
Tolerance zone	J
Tolerance zone	G
Tolerance zone	A
Tolerance zone	FG
Tolerance zone	F

Tolerance zone	E
Tolerance zone	EF
Tolerance zone	D
Tolerance zone	CD
Tolerance zone	ZC
Tolerance zone	C
Tolerance zone	ZB
Tolerance zone	ZA
Tolerance zone	Z
Tolerance zone	FG
Tolerance zone	ZC
Quality	11 mm
Quality	8 mm
Quality	9 mm
Quality	6 mm
Quality	13 mm
Quality	7 mm
Quality	12 mm
Quality	10 mm
Nominal size	12 - 20 mm
Material	Stainless steel, INOX
Calibration	C4
Type of product	Bore gauge micrometer head

## Services

Calibration Precision bore gauge (types B + C) maximum measuring range 60 mm

023210 60

DAkkS calibration Precision bore gauge (types B + C) maximum measuring range 60 mm

023220 60

## Accessories

Holder for plug gaugeOD Holder length 105 mm

435160 105