



Bore plug gauge for through holes OD hard chrome plated, Sleeve Ø D: 12-20 mm



Order data

| | |
|--------------|---------------|
| Order number | 435157 12-20 |
| GTIN | 2050001951137 |
| Item class | 46D |

Description

IMPORTANT: item is configurable

Quality: 10 mm; 11 mm; 12 mm; 13 mm; 6 mm; 7 mm; 8 mm; 9 mm

Tolerance zone: A; B; C; CD; D; E; EF; F; FG; FG; G; H; J; JS; K; M; N; P; R; S; T; U; V; Z; ZA; ZB; ZC; ZC

Nominal size: 12 - 20 mm, Intervall: 0,001

Version:

OD bore plug gauges are mechanical two-point dial bore plug gauges for highest requirements. Hardened gauging sleeve. For bores of 2.5 – 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.**

Gauging sleeve of **hard chrome** for a long working life.

Application:

For bores of 2.5 – 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 200), 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 also available in ruby, ceramic and hard chrome plated.**

Calibration: C4

Repetition accuracy: 1 µm

Nominal size: 12 - 20 mm

Sleeve dimension H: 23 mm

Face dimension h: 10 mm

Gauging force: 2 N

Technical description

| | |
|---------------------|-------|
| Repetition accuracy | 1 µm |
| Sleeve dimension H | 23 mm |
| Face dimension h | 10 mm |
| Gauging force | 2 N |
| Quality | 13 mm |
| Quality | 8 mm |
| Quality | 7 mm |
| Quality | 6 mm |
| Quality | 12 mm |
| Quality | 10 mm |
| Quality | 9 mm |
| Quality | 11 mm |
| Tolerance zone | V |
| Tolerance zone | U |
| Tolerance zone | T |

| | |
|-----------------|----------------------------|
| Tolerance zone | S |
| Tolerance zone | B |
| Tolerance zone | R |
| Tolerance zone | P |
| Tolerance zone | N |
| Tolerance zone | K |
| Tolerance zone | M |
| Tolerance zone | JS |
| Tolerance zone | J |
| Tolerance zone | G |
| Tolerance zone | H |
| Tolerance zone | A |
| Tolerance zone | FG |
| Tolerance zone | EF |
| Tolerance zone | F |
| Tolerance zone | E |
| Tolerance zone | D |
| Tolerance zone | CD |
| Tolerance zone | ZC |
| Tolerance zone | C |
| Tolerance zone | ZB |
| Tolerance zone | ZA |
| Tolerance zone | ZC |
| Tolerance zone | Z |
| Tolerance zone | FG |
| Nominal size | 12 - 20 mm |
| Calibration | C4 |
| Type of product | Bore gauge micrometer head |

Services

| | |
|--|-----------|
| Calibration Precision bore gauge (types B + C) maximum measuring range 60 mm | 013520 60 |
| Labelling laser-etched Type | 018940 |
| DAkkS calibration Precision bore gauge (types B + C) maximum measuring range 60 mm | 012930 60 |
| 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

| | |
|---|----------------|
| Inductive precision comparator Extramess Type 2000 | 434670 2000 |
| Precision dial comparator \pm measuring range / reading 1500/50 μm | 434674 1500/50 |
| Holder for plug gauge OD Holder length 105 mm | 435160 105 |