



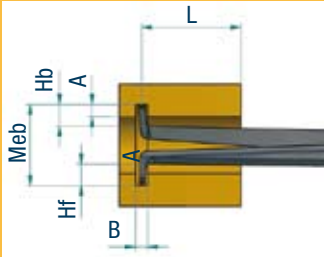
Kroeplin
Längenmesstechnik

The **new generation** of mechanical and electronic measuring gauges:
Ergonomically designed with **new IP classification**

Mechanical and electronic
length measuring instruments for
internal and external measurements

INTERNAL MEASUREMENT

Measuring capacity



Groove depth A
Groove width B
Measuring depth L
Measuring contact D
Measuring contact movable Hb
Measuring contact fixed Hf

Protection class

All mechanical gauges: IP 65

All electronic gauges: IP 67

Accessories

Wooden box available on request

Scope of supply

Certificate of quality
Operating instructions

| Type | Measuring range Meb [mm] | Scale interval Skw [mm] | permissible errors G [mm] | Repeatability limit r [mm] | Measuring force min. [N] | Measuring force max. [N] | Measuring depth L max. [mm] | Groove depth A [mm] | Groove width B [mm] | Measuring contact movable Hb [mm] | Measuring contact fixed Hf [mm] | Type of measuring contact D [mm] | Picture | Electronic E | Mechanical M |
|--------------------------|--------------------------|-------------------------|---------------------------|----------------------------|--------------------------|--------------------------|-----------------------------|---------------------|---------------------|-----------------------------------|---------------------------------|----------------------------------|---------|--------------|--------------|
| G102 | 2,5 - 12,5 | 0,005 | 0,015 | 0,005 | 0,8 | 1,2 | 35 | 0,7 | 0,4 | 0,9 | 0,9 | Chisel R0,1 | [1] | E | |
| H102 | 2,5 - 12,5 | 0,005 | 0,015 | 0,005 | 0,8 | 1,2 | 35 | 0,7 | 0,4 | 0,9 | 0,9 | Chisel R0,1 | [1] | | M |
| G105 | 5 - 15 | 0,005 | 0,015 | 0,005 | 0,8 | 1,2 | 35 | 2,3 | 0,8 | 2,5 | 2,5 | HM-Ball D=0,6 | [2] | E | |
| H105 | 5 - 15 | 0,005 | 0,015 | 0,005 | 0,8 | 1,2 | 35 | 2,3 | 0,8 | 2,5 | 2,5 | HM-Ball D=0,6 | [2] | | M |
| G210 | 10 - 30 | 0,01 | 0,03 | 0,01 | 1,1 | 1,6 | 85 | 5,2 | 1,2 | 5,4 | 5,4 | HM-Ball D=1 | [3] | E | |
| H210 | 10 - 30 | 0,01 | 0,03 | 0,01 | 1,1 | 1,6 | 85 | 5,2 | 1,2 | 5,4 | 5,4 | HM-Ball D=1 | [3] | | M |
| G220 | 20 - 40 | 0,01 | 0,03 | 0,01 | 1,1 | 1,6 | 85 | 7,0 | 1,2 | 7,3 | 7,3 | HM-Ball D=1 | [4] | E | |
| H220 | 20 - 40 | 0,01 | 0,03 | 0,01 | 1,1 | 1,6 | 85 | 7,0 | 1,2 | 7,3 | 7,3 | HM-Ball D=1 | [4] | | M |
| G230 | 30 - 50 | 0,01 | 0,03 | 0,01 | 1,1 | 1,6 | 85 | 7,0 | 1,2 | 7,3 | 7,3 | HM-Ball D=1 | [4] | E | |
| H230 | 30 - 50 | 0,01 | 0,03 | 0,01 | 1,1 | 1,6 | 85 | 7,0 | 1,2 | 7,3 | 7,3 | HM-Ball D=1 | [4] | | M |
| G240 | 40 - 60 | 0,01 | 0,03 | 0,01 | 1,1 | 1,6 | 85 | 8,3 | 1,2 | 12,2 | 12,2 | HM-Ball D=1 | [5] | E | |
| H240 | 40 - 60 | 0,01 | 0,03 | 0,01 | 1,1 | 1,6 | 85 | 8,3 | 1,2 | 12,2 | 12,2 | HM-Ball D=1 | [5] | | M |
| G250 | 50 - 70 | 0,01 | 0,03 | 0,01 | 1,1 | 1,6 | 85 | 8,3 | 1,2 | 12,2 | 12,2 | HM-Ball D=1 | [5] | E | |
| H250 | 50 - 70 | 0,01 | 0,03 | 0,01 | 1,1 | 1,6 | 85 | 8,3 | 1,2 | 12,2 | 12,2 | HM-Ball D=1 | [5] | | M |
| G260 | 60 - 80 | 0,01 | 0,03 | 0,01 | 1,1 | 1,6 | 85 | 8,3 | 1,2 | 12,2 | 12,2 | HM-Ball D=1 | [5] | E | |
| H260 | 60 - 80 | 0,01 | 0,03 | 0,01 | 1,1 | 1,6 | 85 | 8,3 | 1,2 | 12,2 | 12,2 | HM-Ball D=1 | [5] | | M |
| G270 | 70 - 90 | 0,01 | 0,03 | 0,01 | 1,1 | 1,6 | 85 | 8,3 | 1,2 | 12,2 | 12,2 | HM-Ball D=1 | [5] | E | |
| H270 | 70 - 90 | 0,01 | 0,03 | 0,01 | 1,1 | 1,6 | 85 | 8,3 | 1,2 | 12,2 | 12,2 | HM-Ball D=1 | [5] | | M |
| G280 | 80 - 100 | 0,01 | 0,03 | 0,01 | 1,1 | 1,6 | 85 | 8,3 | 1,2 | 12,2 | 12,2 | HM-Ball D=1 | [5] | E | |
| H280 | 80 - 100 | 0,01 | 0,03 | 0,01 | 1,1 | 1,6 | 85 | 8,3 | 1,2 | 12,2 | 12,2 | HM-Ball D=1 | [5] | | M |
| Comparison gauges | | | | | | | | | | | | | | | |
| H2M50 | 50 - 100 | 0,01 | 0,03 | 0,015 | 1,1 | 1,6 | 85 | 8,3 | 1,2 | 12,2 | 21 | HM-Ball D=1 | [5] | | M |
| H2M90 | 90 - 140 | 0,01 | 0,03 | 0,015 | 1,1 | 1,6 | 85 | 8,3 | 1,2 | 12,2 | 21 | HM-Ball D=1 | [5] | | M |
| H2M130 | 130 - 180 | 0,01 | 0,03 | 0,015 | 1,1 | 1,6 | 85 | 8,3 | 1,2 | 12,2 | 21 | HM-Ball D=1 | [5] | | M |

Measuring contacts



[1] Chisel R 0,1 mm



[2] Ball D 0,6 mm



[3] Ball D 1,0 mm



[4] Ball D 1,0 mm



[5] Ball D 1,0 mm

G105



H105



G210



H210



G220

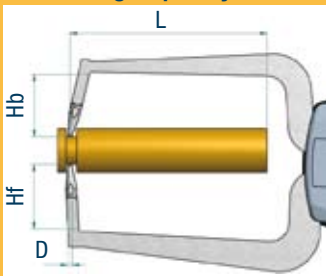


H220



EXTERNAL MEASUREMENT

Measuring capacity



Measuring contact movable Hb
 Measuring contact fixed Hf
 Measuring depth L
 Measuring contact D

Protection class

All mechanical gauges: IP 65

All electronic gauges: IP 67

Accessories

Wooden box available on request

Scope of supply

Certificate of quality
 Operating instructions

| Type | Measuring range Meb [mm] | Scale interval Skw [mm] | permissible errors G [mm] | Repeatability limit r [mm] | Measuring force min. [N] | Measuring force max. [N] | Measuring depth L max. [mm] | Measuring contact movable Hb [mm] | Measuring contact fixed Hf [mm] | Type of measuring contact D [mm] | Picture | Electronic E Mechanical M |
|-------|--------------------------|-------------------------|---------------------------|----------------------------|--------------------------|--------------------------|-----------------------------|-----------------------------------|---------------------------------|----------------------------------|---------|------------------------------|
| C110 | 0 - 10 | 0,005 | 0,015 | 0,005 | 0,8 | 1,2 | 35 | 19,1 | 18,6 | HM-Ball D=1,5 | [1] | E |
| D110 | 0 - 10 | 0,005 | 0,015 | 0,005 | 0,8 | 1,2 | 35 | 19,1 | 18,6 | HM-Ball D=1,5 | [1] | M |
| C220 | 0 - 20 | 0,01 | 0,03 | 0,01 | 1,1 | 1,6 | 85 | 24,6 | 24,6 | HM-Ball D=1,5 | [1] | E |
| D220 | 0 - 20 | 0,01 | 0,03 | 0,01 | 1,1 | 1,6 | 85 | 24,6 | 24,6 | HM-Ball D=1,5 | [1] | M |
| C220S | 0 - 20 | 0,01 | 0,03 | 0,01 | 1,1 | 1,6 | 85 | 24,6 | 24,6 | Chisel R0,4 | [2] | E |
| D220S | 0 - 20 | 0,01 | 0,03 | 0,01 | 1,1 | 1,6 | 85 | 24,6 | 24,6 | Chisel R0,4 | [2] | M |

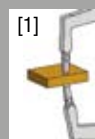
Gauges for tube wall measurement

| | | | | | | | | | | | | |
|--------|--------|-------|-------|-------|-----|-----|----|------|-----|----------------------------|-----|---|
| C1R10 | 0 - 10 | 0,005 | 0,015 | 0,005 | 0,8 | 1,2 | 35 | 19,1 | 0,9 | HM-Ball D=1,5 | [3] | E |
| D1R10 | 0 - 10 | 0,005 | 0,015 | 0,005 | 0,8 | 1,2 | 35 | 19,1 | 0,9 | HM-Ball D=1,5 | [3] | M |
| C1R10S | 0 - 10 | 0,005 | 0,015 | 0,005 | 0,8 | 1,2 | 35 | 18,8 | 0,9 | Chisel R0,4/ HM-Ball D=1,5 | [4] | E |
| D1R10S | 0 - 10 | 0,005 | 0,015 | 0,005 | 0,8 | 1,2 | 35 | 18,8 | 0,9 | Chisel R0,4/ HM-Ball D=1,5 | [4] | M |
| C2R20 | 0 - 20 | 0,01 | 0,03 | 0,01 | 1,1 | 1,6 | 85 | 24,6 | 2,5 | HM-Ball D=1,5 | [5] | E |
| D2R20 | 0 - 20 | 0,01 | 0,03 | 0,01 | 1,1 | 1,6 | 85 | 24,6 | 2,5 | HM-Ball D=1,5 | [5] | M |
| C2R20S | 0 - 20 | 0,01 | 0,03 | 0,01 | 1,1 | 1,6 | 85 | 24,6 | 2,5 | Chisel R0,4/ HM-Ball D=1,5 | [6] | E |
| D2R20S | 0 - 20 | 0,01 | 0,03 | 0,01 | 1,1 | 1,6 | 85 | 24,6 | 2,5 | Chisel R0,4/ HM-Ball D=1,5 | [6] | M |

Gauges with flat contacts

| | | | | | | | | | | | | |
|-------|--------|-------|------|-------|-----|-----|----|------|------|-------------|-----|---|
| C110T | 0 - 10 | 0,005 | 0,02 | 0,005 | 0,8 | 1,2 | 35 | 21,7 | 14,8 | Flat D = 6 | [7] | E |
| D110T | 0 - 10 | 0,005 | 0,02 | 0,005 | 0,8 | 1,2 | 35 | 21,7 | 14,8 | Flat D = 6 | [7] | M |
| C220T | 0 - 20 | 0,01 | 0,04 | 0,01 | 1,1 | 1,6 | 85 | 28,2 | 20,7 | Flat D = 10 | [7] | E |
| D220T | 0 - 20 | 0,01 | 0,04 | 0,01 | 1,1 | 1,6 | 85 | 28,2 | 20,7 | Flat D = 10 | [7] | M |

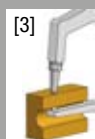
Measuring contacts



[1] Ball 1,5 mm



[2] Chisel R0,4 mm



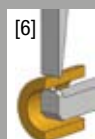
[3] HM-Ball 1,5 mm



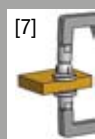
[4] Chisel R0,4 mm
HM-Ball 1,5 mm



[5] HM-Ball 1,5 mm



[6] Chisel R0,4 mm
HM-Ball 1,5 mm



[7] Flat 6 / 10 mm

C1R10



D1R10



C110



D110



C220



D220





Kroeplin

Längenmesstechnik

New mechanical gauges

- IP 65
- Small measuring force difference
- Better reading
- Larger measuring ranges

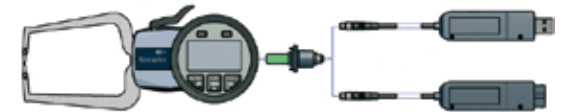
New electronic gauges

- IP 67
- Reduced weight
- Better digital display
- Analog segment display
- Ergonomically designed
- USB and Mitutoyo interface

Application area

- **Mechanical engineering**
- **Automobile industry**
- **Aerospace industry**
- **Wire manufacturers:** Diameter determination of continuous wires.
- **Glass industry:** Measurement of wall thicknesses in difficult accessible places.
- **Dental laboratories:** Measurement of tooth crown thicknesses.
- **Aerosol and packaging industry:** Measurement of aerosol cans.
- **Foundries:** Measurement of cast wall thicknesses.
- **Key manufacturers:** Measurement of milled notches of keys.
- **Foamed material industry:** Measurements of foamed material thicknesses.
- **Tube manufacturers:** Internal and external measurements, also of extremely wide tubes.
- **Ceramic industry:** Safe and simple determination of contraction due to baking and drying.
- **Gun clubs:** Checking of the admissible thickness of shooting jackets.
- **Medical institutes:** Measurement of skin wrinkles of men and animals.
- **Special designs:** Your measuring task is among them.

Interface



- Interface Mitutoyo
Order No.: 1962-10 (adapter + cable)
- Interface USB
Order No.: 1962-11 (adapter + cable)

