



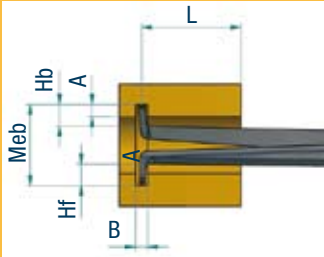
Kroeplin
Längenmesstechnik

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

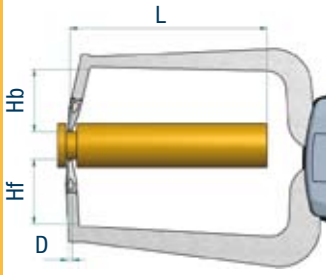


H220



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

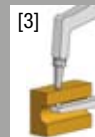
Measuring contacts



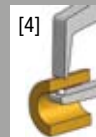
[1] Ball 1,5 mm



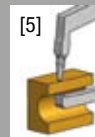
[2] Chisel R0,4 mm



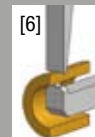
[3] HM-Ball 1,5 mm



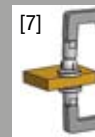
[4] Chisel R0,4 mm
HM-Ball 1,5 mm



[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

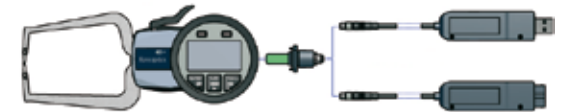
New electronic gauges

- 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)

