

External measurement

Application range up to 30 mm



C015



C220



C330



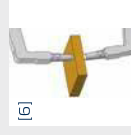
POC02K



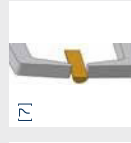
D220

Type	Measuring span Mes	Measuring range Meb	Azb	Numerical interval Zw	Scale interval Skw	Permissible errors G	Repeatability limit r	Measuring force F _{min}	Measuring force F _{max}	Weight	Protection class	Measuring contact movable Hb	Measuring contact fixed Hf	Type of measuring contact	Measuring depth L max.	Picture	Electronic E	Mechanical M	Wooden box
	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[N]	[N]	[g]		[mm]	[mm]	[mm]	[mm]				
P000-2K	10	0-10	0-10	0.1	0.1	0.1	0.05	0.3	1.3	40	-	5	5	Ball Ø 2	36	[23]	M		1732-31
P000-2N	10	0-10	0-10	0.1	0.1	0.1	0.05	0.3	1.3	40	-	3.5	3.5	Needle Ø 0.75	36	[24]	M		1732-31
P000-2F	10	0-10	0-10	0.1	0.1	0.1	0.05	0.3	1.3	40	-	4.5	4.5	Sr-R 0.5 / F Ø 3.5	36	[25]	M		1732-31
C015	15	0-15	0-15.5	0.001	0.001	0.010	0.005	1.3	1.5	170	IP67	17	17	Ball Ø 1.5	45	[6]	E		1732-38
C015S	15	0-15	0-15.5	0.001	0.001	0.015	0.005	1.3	1.5	170	IP67	12	12	Chisel R 0.4	45	[7]	E		1732-38
C110	10	0-10	0-10.5	0.005	0.005	0.015	0.005	1.2	1.6	240	IP67	19.1	18.6	Ball Ø 1.5	35	[6]	E		1732-45
D110	10	0-10	0-10.5	0.005	0.005	0.015	0.005	1.2	1.6	170	IP65	19.1	18.6	Ball Ø 1.5	35	[6]	M		1732-45
C110S	10	0-10	0-10.5	0.005	0.005	0.015	0.005	1.2	1.6	240	IP67	18.8	18.5	Chisel R 0.4	35	[7]	E		1732-45
D110S	10	0-10	0-10.5	0.005	0.005	0.015	0.005	1.2	1.6	170	IP65	18.8	18.5	Chisel R 0.4	35	[7]	M		1732-45
C220	20	0-20	0-20.5	0.01	0.01	0.03	0.01	1.1	1.6	280	IP67	24.7	24.6	Ball Ø 1.5	85	[6]	E		1732-45
D220	20	0-20	0-20.5	0.01	0.01	0.03	0.01	1.1	1.6	210	IP65	24.7	24.6	Ball Ø 1.5	85	[6]	M		1732-45
C220S	20	0-20	0-20.5	0.01	0.01	0.03	0.01	1.1	1.6	280	IP67	24.7	24.6	Chisel R 0.4	85	[7]	E		1732-45
D220S	20	0-20	0-20.5	0.01	0.01	0.03	0.01	1.1	1.6	210	IP65	24.7	24.6	Chisel R 0.4	85	[7]	M		1732-45
C330	30	0-30	0-30.5	0.02	0.02	0.04	0.02	0.9	1.6	430	IP67	30	30	Ball Ø 3	116	[6]	E		1732-51
C330S	30	0-30	0-30.5	0.02	0.02	0.04	0.02	0.9	1.6	430	IP67	30	30	Chisel R 0.75	116	[7]	E		1732-51

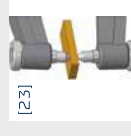
Measuring contacts



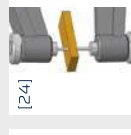
Ball Ø 1.5 mm
Ball Ø 3.0 mm



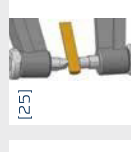
Chisel R 0.4 mm
Chisel R 0.75 mm



Ball Ø 2.0 mm

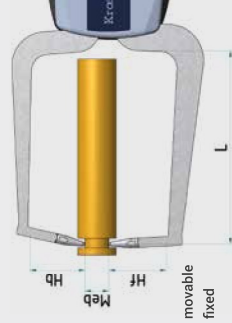


Needle Ø 0.75 mm



Chisel R 0.5 mm
Plane Ø 3.5 mm

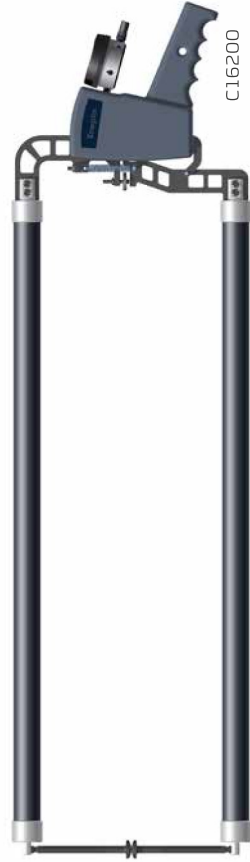
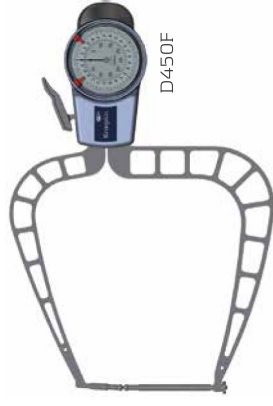
Measuring capacity



Meb Measuring range
Hb Measuring contact movable
Hf Measuring contact fixed
L Measuring depth

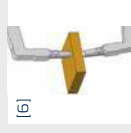
External measurement

Application range up to 200 mm



Type	Measuring span Mes [mm]	Measuring range MeB [mm]	Range of indication [mm]	AzB	Numerical interval Zw [mm]	Scale interval Skw [mm]	Permissible errors G [mm]	Repeatability limit r [mm]	Measuring force F _{min} [mN]	Measuring force F _{max} [mN]	Weight [g]	Protection class	Measuring contact movable Hb [mm]	Measuring contact fixed Hf [mm]	Type of measuring contact [mm]	Measuring depth L max. [mm]	Picture	Electronic E	Mechanical M	Wooden box
C450	50	0-50	0-50.5		0.02	0.06	0.04	0.8	1.7	490	IP67	30	30	Ball Ø 3	167	[6]		E	M	1732-51
D450	50	0-50	0-50.5		0.05	0.05	0.025	0.8	1.7	430	IP65	30	30	Ball Ø 3	167	[6]		M		1732-51
C450S	50	0-50	0-50.5		0.02	0.06	0.04	0.8	1.7	490	IP67	30	30	Chisel R 0.75	167	[7]		E		1732-51
D450S	50	0-50	0-50.5		0.05	0.05	0.025	0.8	1.7	430	IP65	30	30	Chisel R 0.75	167	[7]		M		1732-51
C450B	50	0-50	0-50.5		0.02	0.08	0.06	0.8	1.7	510	IP67	72.6	30	Ball Ø 5	167	[6]		E	HK	
D450B	50	0-50	0-50.5		0.05	0.075	0.05	0.8	1.7	450	IP65	72.6	30	Ball Ø 5	167	[6]		M	HK	
C450F	50	0-50	0-50.5		0.02	0.08	0.06	0.8	1.7	510	IP67	30	72.6	Ball Ø 5	167	[6]		E	HK	
D450F	50	0-50	0-50.5		0.05	0.075	0.05	0.8	1.7	450	IP65	30	72.6	Ball Ø 5	167	[6]		M	HK	
C4100	50	50-100	49.5-100.5		0.02	0.08	0.06	0.8	1.7	510	IP67	30	23	Ball Ø 3	167	[6]		E	HK	
D4100	50	50-100	49.5-100.5		0.05	0.075	0.05	0.8	1.7	450	IP65	30	23	Ball Ø 3	167	[6]		M	HK	
C4150	50	100-150	99.5-150.5		0.02	0.08	0.06	0.8	1.7	530	IP67	30	23	Ball Ø 3	167	[6]		E	HK	
D4150	50	100-150	99.5-150.5		0.05	0.075	0.05	0.8	1.7	470	IP65	30	23	Ball Ø 3	167	[6]		M	HK	
C8100	100	0-100	0-101		0.05	0.15	0.1	0.8	1.8	660	IP67	33	33	Ball Ø 5	375	[16]		E	HK	
D8100	100	0-100	0-101		0.1	0.15	0.1	0.8	1.8	600	IP65	33	33	Ball Ø 5	375	[16]		M	HK	
C12100	100	0-100	0-101		0.1	0.3	0.2	1.2	1.8	950	-	30	30	Ball Ø 5	530	[16]		E	HK	
D12100	100	0-100	0-101		0.3	0.2	0.2	1.2	1.8	1000	-	30	30	Ball Ø 5	530	[16]		M	HK	
C12100SJ	100	0-100	0-101		0.1	0.3	0.2	1.2	1.8	1100	-	30	124	Ball Ø 5	530	[16]		E	HK	
D12100SJ	100	0-100	0-101		0.1	0.3	0.2	1.2	1.8	1100	-	30	124	Ball Ø 5	530	[16]		M	HK	
C16200	200	0-200	0-201		0.2	0.4	0.2	0.8	1.5	1300	-	98	98	Hemisphere SR 20	728	[17]		E	HK	
D16200	200	0-200	0-201		0.2	0.4	0.2	0.8	1.5	1400	-	98	98	Hemisphere SR 20	728	[17]		M	HK	

Measuring contacts



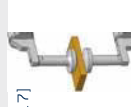
Ball Ø 2.0 mm
Ball Ø 3.0 mm
Ball Ø 5.0 mm



Chisel R 0.75 mm

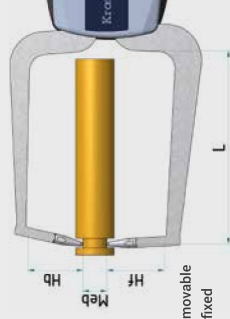


Ball Ø 5.0 mm



Hemisphere SR 20 mm

Measuring capacity



MeB Measuring range
Hb Measuring contact movable
Hf Measuring contact fixed
L Measuring depth