

Digimatic Holtest

SERIES 468 — Three-Point Internal Micrometers

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FEATURES

- TiN-coated measuring contact points provide excellent durability and impact resistance and allow the instrument to measure to the bottom of a blind hole (up to 100mm / 4" models).
- Large LCD readout.
- Functions available: Presetting, Zero/ABS, Auto power On/Off, Data hold, Data output, Error alarm, Battery replacement alarm.
- With Ratchet Stop for constant force.
- Can measure deep holes by attaching an Extension rod (optional).
- Setting rings for origin point setting are optional.
- Supplied in fitted plastic case up to 100mm / 4". Over 100mm / 4" supplied in wooden case.



468-261



468-263



468-274



TiN coated contact points
 (*-10" suffix models only)

DIMENSIONS AND MASS

Range	L	Mass (g)
6 - 8mm / .275 - .35"	59	400
8 - 10mm / .35 - .425"	59	400
10 - 12mm / .425 - .5"	59	400
12 - 16mm / .5 - .65"	84	430
16 - 20mm / .65 - .8"	84	430
20 - 25mm / .8 - 1"	93	500
25 - 30mm / 1 - 1.2"	93	510
30 - 40mm / 1.2 - 1.6"	103.8	510
40 - 50mm / 1.6 - 2"	103.8	530
50 - 63mm / 2 - 2.5"	105.4	650
62 - 75mm / 2.5 - 3.0"	105.4	660
75 - 88mm / 3.0 - 3.5"	105.4	990
87 - 100mm / 3.5 - 4.0"	105.4	1000
100 - 125mm / 4 - 5"	151.4	970
125 - 150mm / 5 - 6"	151.4	1060
150 - 175mm / 6 - 7"	151.4	1150
175 - 200mm / 7 - 8"	151.4	1240
200 - 225mm / 8 - 9"	151.4	1330
225 - 250mm / 9 - 10"	151.4	1420
250 - 275mm / 10 - 11"	151.4	1510
275 - 300mm / 11 - 12"	151.4	1600

Unit: mm

Measuring a Blind Hole

The measuring contact points held in the jaws permit measuring the diameter of a blind hole to the bottom.
 (up to 100mm / 4" models)

Range	a	b	c
6 - 12mm / .275 - .5"	2	—	2.5
12 - 20mm / .5 - .8"	0.3	5.6	3.5
20 - 30mm / .8 - 1.2"	0.3	8.3	5.2
30 - 50mm / 1.2 - 2"	0.3	13	10
50 - 100mm / 2 - 4"	0.3	17	14
100 - 300mm / 4 - 12"	12.4	21	13.8

Technical Data

Accuracy: Refer to the list of specifications.
 Resolution: 0.001mm or .00005"/0.001mm
 (over 4 - 5" models: .0001"/0.001mm)
 Contact point: TiN coating
 Measuring method: Three-point method
 Display: LCD
 Battery: SR44 (2 pcs.), **938882**
 Battery life: Approx. 8 months under normal use

Function

Zero/ABS, Auto Power On/Off, Data hold, Data output, Preset, inch/mm conversion (on inch/metric models only)
 Alarm: Low voltage, Counting value composition error

Optional Accessories

- 05CZA662:** SPC cable (1m / 40")
- 05CZA663:** SPC cable (2m / 80")
- 04AZB157:** Mounting plate for stand
- 156-101:** Stand
- 952322:** Extension rod 100mm / 3.94"
For range 6-12mm / .275 - .5" models
- 952621:** Extension rod 150mm / 5.9"
For range 12-20mm / .5" - .8" models
- 952622:** Extension rod 150mm / 5.9"
For range 20-50mm / .8" - 2" models
- 952623:** Extension rod 150mm / 5.9"
For range 50-300mm / 2" - 12" models



SPECIFICATIONS

Metric Individual

Range	Order No.	Accuracy
6 - 8mm	468-161	±2µm
8 - 10mm	468-162	±2µm
10 - 12mm	468-163	±2µm
12 - 16mm	468-164	±2µm
16 - 20mm	468-165	±2µm
20 - 25mm	468-166	±3µm
25 - 30mm	468-167	±3µm
30 - 40mm	468-168	±3µm
40 - 50mm	468-169	±3µm
50 - 63mm	468-170	±3µm
62 - 75mm	468-171	±3µm
75 - 88mm	468-172	±3µm
87 - 100mm	468-173	±3µm
100 - 125mm	468-174	±5µm
125 - 150mm	468-175	±5µm
150 - 175mm	468-176	±5µm
175 - 200mm	468-177	±5µm
200 - 225mm	468-178	±5µm
225 - 250mm	468-179	±5µm
250 - 275mm	468-180	±5µm
275 - 300mm	468-181	±5µm

Inch/Metric Individual with TiN coated contact points

Range	Order No.	Accuracy
.275 - .35" / 6.925 - 8.89mm	468-261	±.0001"
.35 - .425" / 8.89 - 10.795mm	468-262	±.0001"
.425 - .5" / 10.795 - 12.7mm	468-263	±.0001"
.5 - .65" / 12.7 - 16.51mm	468-264	±.0001"
.65 - .8" / 16.51 - 20.32mm	468-265	±.0001"
.8 - 1" / 20.32 - 25.4mm	468-266	±.00015"
1 - 1.2" / 25.4 - 30.48mm	468-267	±.00015"
1.2 - 1.6" / 30.48 - 40.64mm	468-268	±.00015"
1.6 - 2" / 40.64 - 50.8mm	468-269	±.00015"
2 - 2.5" / 50.8 - 63.5mm	468-270	±.00015"
2.5 - 3" / 63.5 - 76.2mm	468-271	±.00015"
3 - 3.5" / 76.2 - 88.9mm	468-272	±.00015"
3.5 - 4" / 88.9 - 101.6mm	468-273	±.00015"
4 - 5" / 101.6 - 127mm	468-274	±.00025"
5 - 6" / 127 - 152.4mm	468-275	±.00025"
6 - 7" / 152.4 - 177.8mm	468-276	±.00025"
7 - 8" / 177.8 - 203.2mm	468-277	±.00025"
8 - 9" / 203.2 - 228.6mm	468-278	±.00025"
9 - 10" / 228.6 - 254mm	468-279	±.00025"
10 - 11" / 254 - 279.4mm	468-280	±.00025"
11 - 12" / 279.4 - 304.8mm	468-281	±.00025"



468-986

Complete Unit Set

Each set includes complete gages (display units and measuring heads for each size).

Metric

with TiN coated contact points

Range	Order No.	Individual range	Setting rings included	Remarks
6 - 12mm	468-981	6-8, 8-10, 10-12mm	ø8mm, ø10mm	—
12 - 25mm	468-982	12-16, 16-20, 20-25mm	ø16mm, ø20mm	—
25 - 50mm	468-983	25-30, 30-40, 40-50mm	ø30mm, ø40mm	—
50 - 75mm	468-984	50-63, 62-75mm	ø62mm	—
75 - 100mm	468-985	75-88, 87-100mm	ø87mm	—

Inch/Metric

with TiN coated contact points

Range	Order No.	Individual range	Setting rings included	Remarks
.275 - .5" / 6.925 - 12.7mm	468-986	.275-.35", .35-.425", .425-.5"	.35" DIA., .425" DIA.	—
.5 - 1" / 12.7 - 25.4mm	468-987	.5-.65", .65-.8", .8-1"	.65" DIA., .8" DIA.	—
1 - 2" / 25.4 - 50.8mm	468-988	1-1.2", 1.2-1.6", 1.6-2"	1.2" DIA., 1.6" DIA.	—
2 - 3" / 50.8 - 76.2mm	468-989	2-2.5", 2.5-3"	2.5" DIA.	—
3 - 4" / 76.2 - 101.6mm	468-990	3-3.5", 3.5-4"	3.5" DIA.	—



468-978

Interchangeable Head Set

Each set includes one display unit with interchangeable measuring heads of the sizes specified.

Metric

with TiN coated contact points

Range	Order No.	Individual range	Setting rings included	Remarks
6 - 12mm	468-971	6-8, 8-10, 10-12mm	ø8mm, ø10mm	with extension rod
12 - 20mm	468-972	12-16, 16-20mm	ø16mm.	with extension rod
20 - 50mm	468-973	20-25, 25-30, 30-40, 40-50mm	ø25mm, ø40mm	with extension rod
50 - 100mm	468-974	50-63, 62-75, 75-88, 87-100mm	ø62mm, ø87mm	with extension rod
100 - 200mm	468-975	100-125, 125-150, 150-175, 175-200mm	ø125mm, ø175mm	with extension rod

Inch/Metric

with TiN coated contact points

Range	Order No.	Individual range	Setting rings included	Remarks
.275 - .5" / 6.925 - 12.7mm	468-976	.275-.35", .35-.425", .425-.5"	.35" DIA., .425" DIA.	with extension rod
.5 - .8" / 12.7 - 20.32mm	468-977	.5-.65", .65-.8"	.65" DIA.	with extension rod
.8 - 2" / 20.32 - 50.8mm	468-978	.8-1", 1-1.2", 1.2-1.6", 1.6-2"	1" DIA., 1.6" DIA.	with extension rod
2 - 4" / 50.8 - 101.6mm	468-979	2-2.5", 2.5-3", 3-3.5", 3.5-4"	2.5" DIA., 3.5" DIA.	with extension rod
4 - 8" / 101.6 - 203.2mm	468-980	4-5", 5-6", 6-7", 7-8"	5" DIA., 7" DIA.	with extension rod

Mitutoyo