

Digimar®

Digital Height Measuring Instruments.



simple - fast - accurate



Digimar CX1. 600 mm. High tolerance requirements: High Performance measuring station!

You have high expectations regarding accuracy. You value extensive measuring and evaluation possibilities. The Digimar CX1 is easy to use, with functions and setting possibilities, that meets your requirements.



- Exceptional Accuracy**
 achieved via the optical-incremental measuring system, dynamic probe and a precise measuring head which travels on a stainless steel guides.
- 2D-Measuring Functions**
 The most important 2D measuring functions can be executed with the touch of a single key, e.g.: perpendicularity measurements, the calculation of an angle or pitch circle.
- Statistical Evaluation**
 Numerous and specific evaluation in the form of histograms, control charts and Pareto charts are possible.
- 40 Measuring programs**
 You can quickly create customized measuring programs with the "easy-to-use" learn program, which simplifies and reduces inspection times.



*The Microcomputer Digimar DX1
The Control and Evaluation Instrument:
Your key to all measuring tasks*

Technical Data

Measuring range	24" / 600mm
Application range	To 36.8" / To 935mm
Resolution	.001"/ .0005"/ .0001" / .00005"/ .00001" / 0,01mm / 0,001mm / 0,0005mm / 0,0002mm
Measuring error* formula $(2+(L/600)\mu\text{m})$	Max. .00012" / 0,003mm
Repeatability*	.00002" / 0,0005mm (plane) .00004" / 0,001mm (bore)
Perpendicularity error	$\leq .0003"$ / $\leq 0,008\text{mm}$
Operating time between charges	up to 15 hours
Measuring force	3.6oz. \pm .7oz. / 1,0 \pm 0,2N
Total height	38.8" / 985mm
Base area (L x W)	9.5" x 9.8" / 240mm x 250mm
Weight	64 lb. / 29 kg
Order no.	5320001

* Base plate GK 0 with Probe K10/50

Digimar CX2. 350 / 600 / 1000 mm

The perfect partner, for use in shop and inspection areas!

Obtain your measurement results without complicated procedures; simple, fast and accurate! The Digital Height Measuring Instrument Digimar CX2 is your perfect partner for use in workshop and inspection areas.

- Easy to Operate**
 via the clearly styled control panel. All the most important measuring functions can be executed with the touch of a single key.
- Motorized Measuring Head**
 simplifies the measuring task and minimizes the influence of the operator. The measuring results are precise, reproduceable and reliable!
- Measuring Programs**
 Easily created measuring program enable the quick and reliable measurement of production components.



Clear and easy to understand.
CX2 operating panel



Technical Data

Measuring range	14" / 350mm	24" / 600mm	40" / 1000mm
Application range	To 26.9" / To 685mm	To 36.8" / To 935mm	To 52.5" / To 1335mm
Resolution	.0001" / .0005" / 0,01mm / 0,001mm		
Measuring error* formula (5+(L/300)µm) Max.	.00024" / 0,0062mm	.00027" / 0,007mm	.00033" / 0,0083mm
Repeatability*	≤ .00008" / ≤ 0,002mm (plane) ≤ .00012" / ≤ 0,003mm (bore)		
Perpendicularity error	≤ .00035" / ≤ 0,009mm	≤ .0006" / ≤ 0,015mm	≤ .001" / ≤ 0,025mm
Operating time between charges	up to 100 hours	up to 100 hours	up to 15 hours
Measuring force		3.6 oz. ± 1.1 oz. / 1,0 ± 0,3N	
Total height	29.2" / 741mm	38.7" / 985mm	54.8" / 1392mm
Base area (L x W)		9.5" x 9.8" / 240mm x 250mm	
Weight	30.8 lb / 14 kg	35.3 lb / 16 kg	57.3 lb / 26 kg
Order no.	5320104	5320102	5320103

* Base plate GK 0 with Probe K10/50

Measuring and evaluation functions

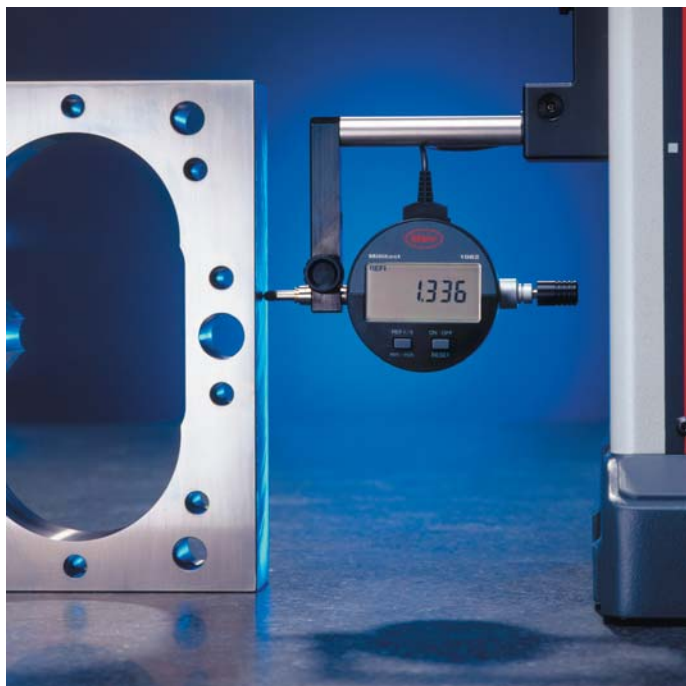
Versatile

The Digital Height Measuring Instrument Digimar CX2 offers numerous measuring and evaluation functions, for example:

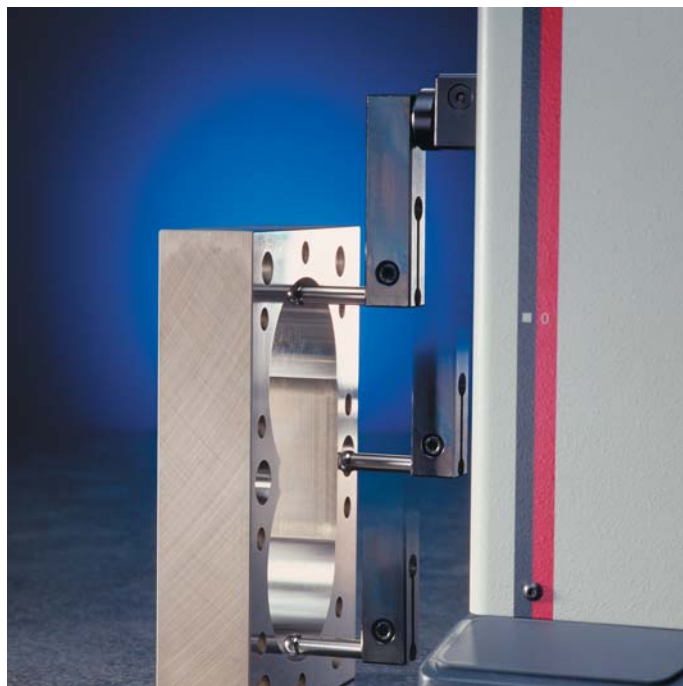
- Measuring of surfaces and grooves
- Measuring of bores and shafts
- Determination of Max-Min (Runout)
- Perpendicularity measurements
- Computation of distances and symmetries
- Setting the zero point on the workpiece
- Data output for transmitting the measured values to a PC or a statistics printer for further data processing
- Measuring program for mass produced components
- and many more.

Additional features of the Digimar CX1

- Increased measuring accuracy
- Integrated 2D measuring functions
- Up to 40 measuring programs
- Control and evaluation instrument with statistical functions
- Entering production and/or test data
- 2 different zero points can be set upon a workpiece
- Accepts up to 4 measuring instruments
- Optional transfer and evaluation software for PC
- Can be connected to a DOS-compatible printer
- Air cushion with air pump
- and many more.



Checking of the perpendicularity with Digital Indicator 1082



Execution of a measuring program

The Digimar CX Height Measuring Instruments has a wide selection of accessories available!

We reserve the right to make changes to our products, especially due to technical improvements and further developments.
All illustrations and technical data are therefore without guarantee.



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