

## CanNeed-MBT-300 Hall Effect Thickness Gauge (Magnetic Bottle Thickness Gauge)



- 1) Measure the thickness of nonmagnetic material
- 2) Measure the thickness up to 25.4 mm
- 3) The probe is rather wearable
- 4) Large display screen and large letters



**Glass Bottle Measuring**



**Aluminum Bottle Can Measuring**



**Aluminum Bottle Can Measuring**



**CanNeed-MBT-300 Package**

The "CanNeed-MBT-300 Hall Effect Thickness Gauge (Magnetic Bottle Thickness Gauge)" is a refined portable thickness gauge. It is used to measure the thickness of nonmagnetic material, such as plastic, glass, synthetics, aluminum and titanium, etc. The measurement accuracy is undistorted by the samples' shapes.

CanNeed-MBT-300 is based on the theory of Hall Effect. For test, place the steel ball on one side of the sample and the probe on the other side. The Hall Effect sensor on the probe measures the distance from the probe tip to the steel ball. The calculator will display the real thickness readings.

#### **New Attributes:**

- With a more wearable probe
- More sizes of magnetic balls: 5.00mm and 7.00mm
- Larger measuring range: up to 25.4mm
- Larger color screen, larger letters
- RS-232 output
- Display the real time thickness readings and automatically capture maximum value, minimum value and average value.
- Rapid measurement, up to 16 times per second

- Accuracy:  $\pm 1\%$
- It stores 95,000 thickness readings as the internal data record
- Save the calibration file and allocate the calibration file saved.
- New machine appearance design
- New extensive calibration package to measure the thickness up to 25.4mm
- With strip-graphic view of statistical data



**MBT-300 Package**

**Technical Data:**

Steel Ball Dia.	Thickness Range (Standard Probe)	Accuracy (Single-point calibration)	Accuracy (Multi-point calibration)
1/16"(1.59mm)	.0004-.0900"(0.1000-2.590mm)	$\pm 4\%^*$	$\pm 3\%$
1/8"(3.18mm)	.0004-.1800"(0.1000-4.570mm)	$\pm 4\%$	$\pm 2\%$
3/16"(4.76mm)	.0004-.2500"(0.1000-6.350mm)	$\pm 3\%$	$\pm 1\%$
5.00 magnetic ball	.0004-.7500"(4.00-19.00mm)	$\pm 3\%$	$\pm 1\%$
7.00 magnetic ball	.0004-.7500"(4.00-25.4mm)	$\pm 3\%$	$\pm 1\%$

The accuracy to be subject to the thickness range. Please refer to the manual for detailed specifications.

Scanning Speed	: up to 16 times (Optional)
Minimum Mode	: rapid search and minimum thickness display
Resolution	: 0.01 mm or 0.001 mm (0.001" or 0.0001")
Display	: LCD display, can display the real time reading, minimum reading, alarm status and data document information at the same time.
Data Recorder	: It stores, reviews, eliminates and transfers 95,000 thickness readings and documents in numeric identifying code.
Data Output	: RS-232 serial port
On-site Report:	: Minimum value, maximum value, SD
Calibration	: Two-point standard calibration, or multi-calibration up to 5 reference points
Deviation Mode	: Display the difference between the actual thickness and the pre-set reference thickness

Alarm Mode	: Programmable, vocal and indication-visible high and low alarm setting points
Power	: 100/120/220/240 VAC, 48-62 Hz
Battery	: Rechargeable Nickel-Cadmium battery. According to the working status of background light, it can last for 8-16 hours. Charging time is 2 hours.
Metric/Imperial Unit	: Inch or mm for option
Language	: English/Chinese
Working Temperature	: 0 - +50°C
Dimension	: 300 x 190 x 50mm
N.W.	: 4 kg

**Standard Configuration:**

CanNeed-MBT-300 Hall Effect Thickness Gauge includes:

- Standard probe
- Probe stand
- Probe cable
- User manual
- Nickel-made rechargeable battery
- External power supply and charger
- Steel ball and calibration set, including

Steel ball (with diameters of 1/16", 1/8", 3/16")

Calibration block: 0.010"/0.25 mm, 0.04"/1 mm, 0.160"/4 mm (If pre-test sample is over 0.160"/4 mm, accessories are optional by order.)

Please purchase it for option:

- Diameter of 5.00mm steel ball
- Calibration blocks

With strip-graphic view of statistical data

