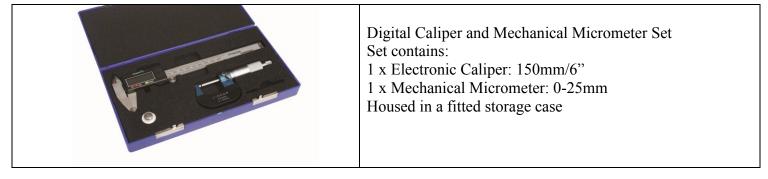
Data Sheet: LDS 1366

Date: 01-10-2011

Product: Digital Caliper and Mechanical Micrometer Set

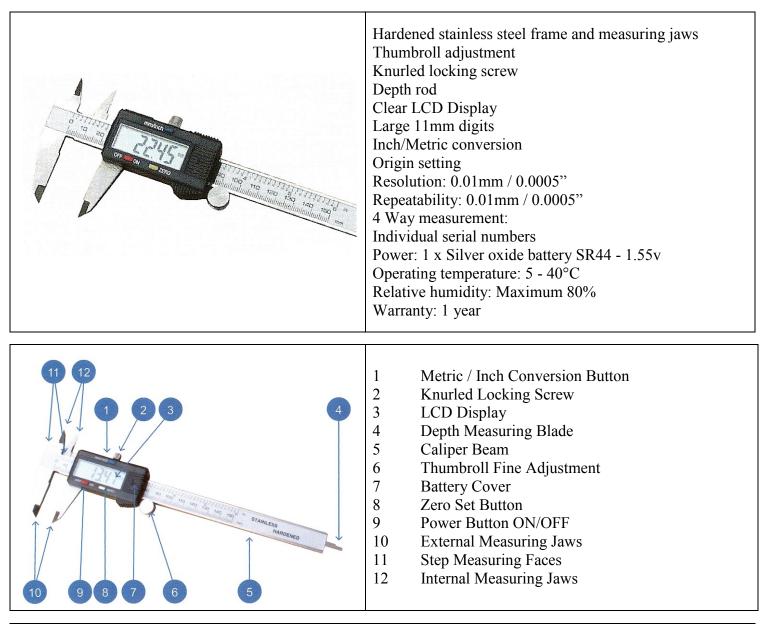
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Packed Weight and Dimensions

Code	Description	Weight g	W mm	H mm	L mm
50-100-900	Digital / Mechanical Measuring Set: Metric	723	140	45	255

Electronic Caliper



Code	Range	Resolution	Repeatability	Accuracy	Ext. Jaw Length	Int. Jaw Length
49-923-150	150mm / 6"	0.01mm / 0.0005"	0.01mm / 0.0005"	±0.03mm	40mm	18mm

Product: Digital Caliper and Mechanical Micrometer Set

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Electronic Caliper

OPERATING INSTRUCTIONS

When using the Caliper for the first time or after a period of non-use, wipe the beam scale with a dry clean cloth to remove any condensation or oil deposits.

Prior to setting the caliper for measuring, first clean the measuring faces with a soft clean cloth or paper. Switch Caliper ON

Move Caliper jaws together.

Select required measuring mode Inch / Metric.

Zero display, caliper is now ready for direct measurement.

Caliper can be zeroed at any position within its range, to provide relative measurements.

Caliper provides 4 way measurements, External, Internal, Step and Depth.

OPERATING CARE

Clean measuring faces with dry soft cloth

Keep away from strong magnetic fields

Prevent ingress of oil / liquids into electronics

Remove battery if instrument is not used for a long period of time

Do not disassemble or drop the instrument

Do not mark instrument by engraving, etching or any other permanent marking method, as this will invalidate the warranty

FAULT FINDING

Fault	Cause	Action
Display flashes	Battery voltage below 1.45volts	Replace battery
Display frozen	Circuit overload	Remove battery and replace after 4 minutes
Accuracy below specification	Dirt in sensor	Remove slider cover assembly, clean face of sensor with dry
but within +/- 0.1mm		clean compressed air (5kg/cm2)
No display	Poor battery contact	Remove battery and carefully adjust battery contacts, replace
		battery.
	Dead battery	Replace battery.

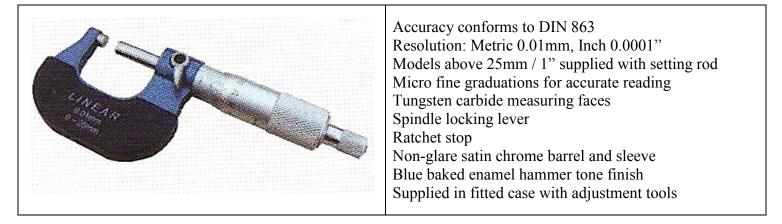
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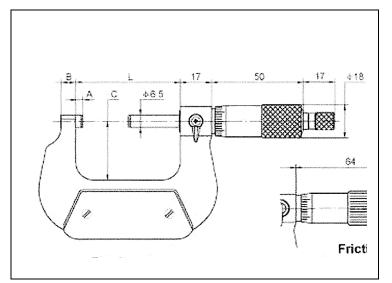
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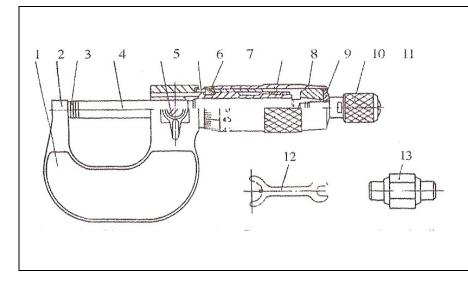
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Mechanical Micrometers 50-100-Series





Code	Range	Code	Range	Style	А	В	С	L	Accuracy
					mm	mm	mm	mm	mm
Metric	mm	Inch	inch						
50-100-025	0-25	50-100-001	0-1	А	3.0	6	24.0	32	0.004



- 1 Heat Resistant Plate
- 2 Frame
- 3 Anvil
- 4 Spindle
- 5 Spindle Lock
- 6 Sleeve
- 7 Thimble
- 8 Barrel
- 9 Taper
- 10 End Cap
- 11 Ratchet Stop
- 12 Spanner
- 13 Setting Standard

Product: Digital Caliper and Mechanical Micrometer Set

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Mechanical Micrometers 50-100-Series

Cleaning and Basic Checking Procedure

Remove any oil, grease, dust or small particles which may cause damage to the micrometer or affect its accuracy when taking measurements. Use a soft lint free cloth or paper together with a proprietary instrument cleaning agent. Do not use acetone as this can damage parts of the micrometer

Zero Point Checking and Adjustment

Use the ratchet stop to move the spindle until it touches the fixed anvil. Allow the ratchet to turn $1\frac{1}{2}$ to 2 revolutions for the final positioning

The zero point on the thimble should now coincide with the reference graduated base line on the sleeve For micrometers above 25mm / 1" use the supplied setting standard or a gauge block to check the zero position If the zero point does not line up as required, it can be corrected by using the following procedure When the zero point deviation on the thimble is under 2 divisions from the graduated base line Turn the sleeve using the "C" spanner provided until correct alignment is achieved When the zero point deviation on the thimble is over 2 divisions from the graduated base line Hold the frame and the thimble and loosen the ratchet stop using the spanner provided Disconnect the coupling of the thimble to the spindle by giving a light shock to the side of the thimble Turn the thimble against the spindle and re tighten with the base line on the sleeve Press the thimble against the spindle and re tighten with the spanner to achieve a positive coupling Re check the zero position, any final small adjustment can now be made using the "C" spanner to re position the sleeve to the thimble zero

Reading the Micrometer

When reading the micrometer ensure that your line of sight is directly above the graduated scale on the sleeve and the thimble scale to avoid parallax reading errors

Ensure that the micrometer and the work piece are at the same temperature

Handle the instrument with care, if it is dropped or knocked in any way it must be rechecked for correct working and accuracy as above

Reading Example: Metric

Reading Example: Inch

	Best alignment Best alignment
Example for division 0.01mm Reading: From Sleeve: 6mm From thimble: 0.11mm Final readings should be 6. + 0.11 = 6.11mm	Example for division 0.002mm Reading: From Sleeve: 4mm From thimble: 0.23mm From vernier of sleeve: 0.004mm Final readings should be 4 + 0.23 + 0.004 = 4.234mm