



METRIC DIAL VERNIER CALIPER 150MM

MODEL NO: **AK8601**

Thank you for purchasing a Sealey product. Manufactured to a high standard, this product will, if used according to these instructions, and properly maintained, give you years of trouble free performance.

IMPORTANT: PLEASE READ THESE INSTRUCTIONS CAREFULLY. NOTE THE SAFE OPERATIONAL REQUIREMENTS, WARNINGS & CAUTIONS. USE THE PRODUCT CORRECTLY AND WITH CARE FOR THE PURPOSE FOR WHICH IT IS INTENDED. FAILURE TO DO SO MAY CAUSE DAMAGE AND/OR PERSONAL INJURY AND WILL INVALIDATE THE WARRANTY. KEEP THESE INSTRUCTIONS SAFE FOR FUTURE USE.



Refer to
instruction
manual

1. SAFETY

- ❑ **WARNING!** Ensure Health and Safety, local authority and general workshop practice regulations are adhered to when using tools and equipment.
- ✖ **DO NOT** use if damaged.
- ✓ Maintain caliper in good and clean condition for best performance.
- ✓ Keep the work area clean, uncluttered and ensure there is adequate lighting.
- ✓ Keep children and unauthorised persons away from the work area.
- ✖ **DO NOT** use the caliper for any purpose other than for which it is designed.
- ✖ **DO NOT** get caliper wet or use in damp or wet locations, or areas where there is condensation. Keep caliper clean and dry using a dry cotton cloth only.
- ✖ **DO NOT** dip or submerge the caliper in any type of liquid.
- ✖ **DO NOT** expose caliper to bright sunlight or dust.
- ✖ **DO NOT** disassemble. The caliper must be checked by qualified service personnel only.
- ✓ The caliper is a precision instrument, treat with care, avoid using force and do not subject to knocks or shocks.
- ✓ Use in reasonably constant temperature conditions of approximately 20°C.
- ✓ When not in use, turn off and store gauge in a safe, dry, childproof location.
- ✓ This product is a precision measuring instrument. Avoid contact with liquids, direct exposure to sunlight, strong impacts, or disassembly of the product.

2. INTRODUCTION

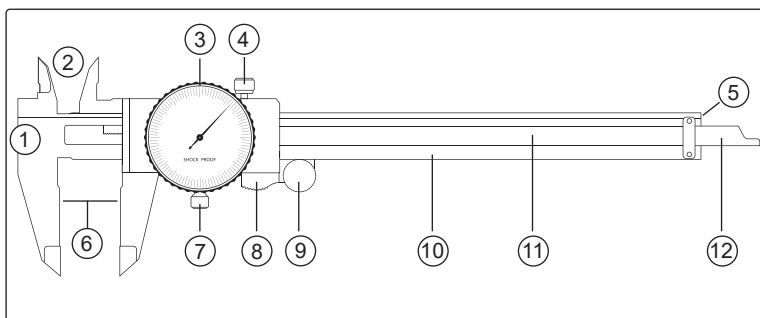
Features a dial zero-adjustment bezel and a secure locking screw, allowing the jaws to be fixed in place for consistent, repeatable measurements. Fitted with both internal jaws for measuring inside dimensions and external jaws for outside measurements, providing versatile multi-purpose capability. A smooth-action thumb roller enables fine, controlled slider movement, ensuring precise adjustment during measurement tasks. Manufactured from hardened stainless steel, offering long-term stability, corrosion resistance, and exceptional durability for workshop and industrial applications. Incorporates a shock-proof mechanism that protects the internal rack-and-pinion gearing, helping to maintain accuracy and extend service life. Comes supplied in a protective storage case.

3. SPECIFICATION

Model No:	AK8601
Nett Weight:	0.2kg
Range:	0-150mm(0-6")

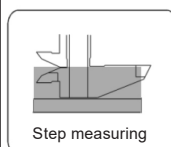
4. FEATURES

1	Measuring face
2	Internal measuring jaws
3	Dial
4	Locking screw
5	Depth measuring end
6	External measuring jaws
7	Dial Lock
8	Scale frame
9	Thumb roller
10	Metric scale
11	Scale body
12	Depth blade

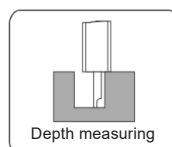


Measuring Range	0-150mm	0-6"
Division value	0.02mm	0.001"
Full dial travel	2mm	0.1"
Accuracy	$\pm 0.02\text{mm}$	$\pm 0.001\text{"}$

CALIPER USAGE



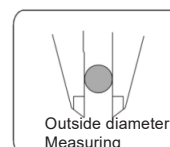
Step measuring



Depth measuring



Inside diameter
Measuring



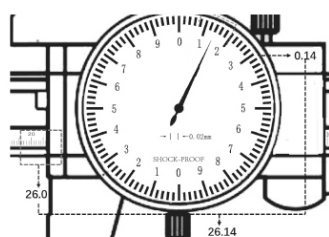
Outside diameter
Measuring

5. OPERATION

1. When measuring, apply an appropriate measuring force according to the workpiece and measurement conditions. The measuring jaws should make light contact with the surface being measured. Avoid using the tips or the roots of the jaws for measurement, as this may result in significant measurement errors.
2. For internal dimension measurements, insert the measuring jaws as deeply as possible into the feature being measured. During internal diameter measurement, record the maximum reading obtained. When measuring groove or slot widths, record the minimum reading obtained.
3. For depth measurements, record the minimum reading displayed during the measuring process.
4. When reading the vernier scale, view the scale directly from the front and above. Viewing the scale at an angle may cause parallax error due to the height difference between the vernier and main scales, resulting in inaccurate readings.
5. Before use, clean the sliding surfaces and measuring faces with a soft, dry cloth to remove dust and dirt. Then place a clean sheet of paper between the measuring faces, close the jaws gently, and slowly pull the paper out to ensure the measuring surfaces are clean.

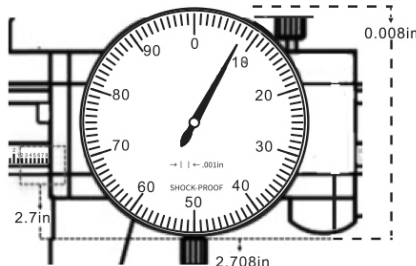
5.1. READINGS

EXAMPLE: DIAL CALIPER



Graduation Value: 0.02mm
Main scale value: 26mm
Dial division degree 0.14mm

Measured Value: 26.14mm
NOTE: (The dial pointer is 7 lattice, that is 0.02×7 , read as 0.14mm)



Graduation Value: 0.001in
Main scale value: 2.7in
Dial division degree 0.008in

Measured Value: 2.708in
NOTE: (The dial pointer is 8 lattice, that is 0.001×8 , read as 0.008in)

6. MAINTENANCE

- 6.1. Although this is a high-quality product, proper care is required to ensure optimal performance and longevity.
- 6.2. After use, wipe the caliper clean and apply a thin coat of light machine oil to the metal surfaces. Allow the oil to dry before storing the caliper.
- 6.3. Store the caliper in a clean, dry environment away from direct sunlight, extreme temperatures, and high humidity.
- 6.4. During storage, **DO NOT** fully close the measuring jaws. Leave a gap of at least 0.5mm between the measuring faces to prevent damage and ensure long-term accuracy.

7. END OF LIFE

- 7.1. At the end of its service life, dispose of the caliper in accordance with applicable local regulations. Where possible, separate recyclable materials and deliver them to an appropriate recycling facility. **DO NOT** dispose of the product with household waste if separate collection is required by local regulations. For digital calipers, remove the battery before disposal and recycle it in accordance with local battery disposal requirements.



ENVIRONMENT PROTECTION

Recycle unwanted materials instead of disposing of them as waste. All tools, accessories and packaging should be sorted, taken to a recycling centre and disposed of in a manner which is compatible with the environment. When the product becomes completely unserviceable and requires disposal, drain any fluids (if applicable) into approved containers and dispose of the product and fluids according to local regulations.

Note: It is our policy to continually improve products and as such we reserve the right to alter data, specifications and component parts without prior notice.

Important: No Liability is accepted for incorrect use of this product.

Warranty: Guarantee is 12 months from purchase date, proof of which is required for any claim.



REGISTER YOUR PURCHASE HERE

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