



FREEMANS
PRECISION



VERNIER CALIPER



DIAL CALIPER



DIGITAL CALIPER



MINI DIGITAL LEVEL
& PROTRACTOR



OUTSIDE MICROMETER



DIGITAL OUTSIDE MICROMETER



DIAL INDICATOR

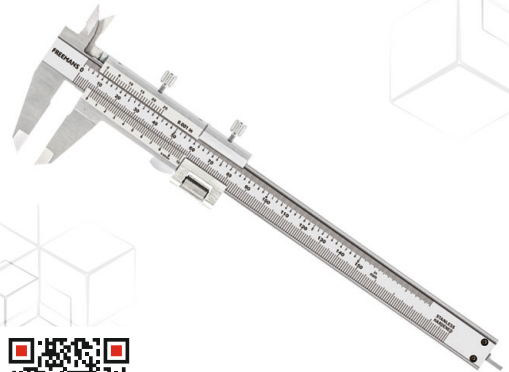


MAGNETIC
STAND



FREEMANS
PRECISION

VERNIER
CALIPER

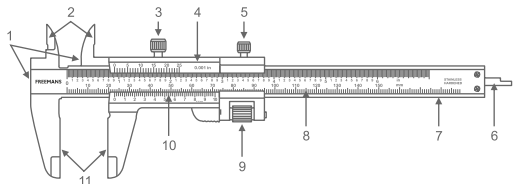


WATCH VIDEO

www.freemansgroup.com

USER MANUAL

Nomenclature



- ① Step Measuring Faces
- ② Inside Measuring Faces
- ③ Clamping Screw
- ④ Slider
- ⑤ Clamping Screw for Fine Adjustment
- ⑥ Depth Measuring Blade
- ⑦ Beam
- ⑧ Main Scale
- ⑨ Adjusting Screw for Fine Adjustment
- ⑩ Vernier Scale
- ⑪ Outside Measuring Faces

Technical Specifications

Measuring Range	FVC150	0-150mm 0-16in
	FVC200	0-200mm 0-8in
	FVC300	0-300mm 0-12in
Accuracy	FVC150	±0.03mm 0.0012in
	FVC200	±0.03mm 0.0012in
	FVC300	±0.04mm 0.0016in
Resolution	0.02mm (0.001in)	
Material	Stainless Steel	
Working Temperature	5°-40°C 41°-104°F	
Humidity	Of no importance below 80% of relative humidity.	



FREEMANS
PRECISION

Warranty

All **FREEMANS** Precision products are warranty for **1 year** from the date of sale against warranty defects. This warranty does not cover damage due to modifications, misuse or fair wear and tear.

**Please Retain this Instruction Manual
in Order to Claim Your Warranty (If Applicable).**

Contact us:

FMI Limited

An ISO 9001:2015 Company

8-005, 8-006, 8-007 (8th Floor) Emaar Capital Tower 1,
MG Road, Sector 26, Gurgaon-122002, Haryana, India

www.freemansgroup.com

Customer care details: Name and address as above

✉ cs@freemansgroup.com

☎ 0124-4185950



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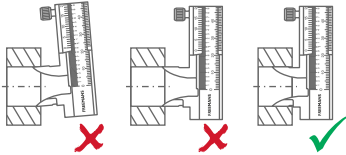
INSTAGRAM



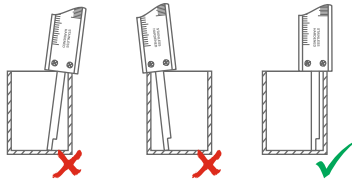
YOUTUBE

Common Measuring Errors

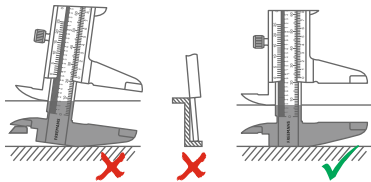
6)



7)



8)



Maintenance Instructions

- 1) Keep the Caliper clean and dry.
- 2) Liquid can damage the slider.
- 3) Measuring surfaces should be cleaned gently with cotton fabrics.
- 4) Never use petrol, acetone, and the other organic solvents.

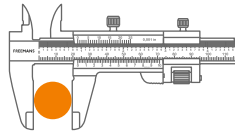


Preparation for Work

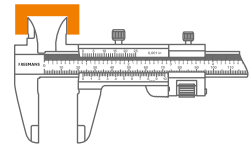
- 1) Before measuring, use a soft cloth to clean the measuring and sliding surfaces. The Caliper can be lubricated with a small amount of oil for smooth sliding.
- 2) Before you begin taking measurements with the Vernier Caliper, ensure that the zero lines of the main and the Vernier Scale coincide, and no gap can be observed between the jaws in the light.
- 3) The slider may be moved only when the clamping screw has been unlocked. Tighten this screw to lock the measurement, if the object needs to be removed before taking the reading.
- 4) Apply suitable force, and tighten both fine adjustment screws to get an accurate measurement.

Multiple Measuring Applications

Outside measurement



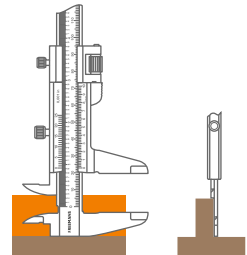
Inside measurements



Depth measurement



Step measurement

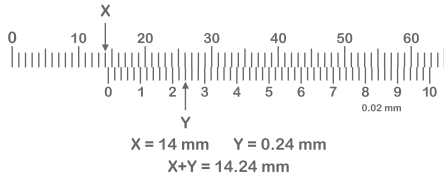


How to read your measurements

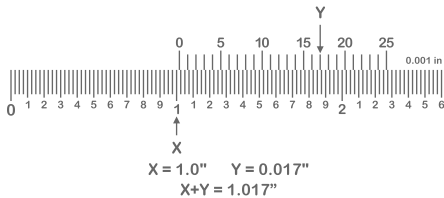
Your reading will comprise of the sum of the main scale and Vernier scale reading:

- 1) Use the main scale to get your reading, X
- 2) Take the Vernier scale reading at the graduation which coincides best with the one on the main scale, Y
- 3) Your reading will be the sum of X and Y ($X+Y$)

0.02 mm



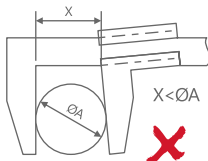
0.001 in



Common Measuring Errors

Application of unnecessary force could lead to inaccurate jaw position and inaccurate measurements.

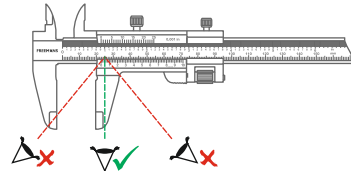
1)



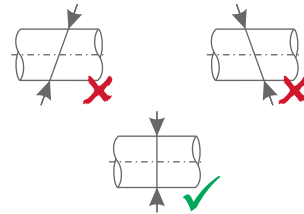
Common Measuring Errors

To avoid a visual/parallax error, view from a perpendicular direction when reading the Vernier scale.

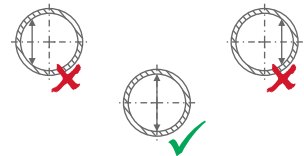
2)



3)



4)



5)

