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SOCIÉTÉ GENEVOISE  
D'INSTRUMENTS DE PHYSIQUE  
GENÈVE (SUISSE)



HIGH PRECISION BENCH  
MICROMETER

MEASURING 100 MILLIMETERS TO THE  
ONE THOUSANDTH OF A MILLIMETER,  
OR 4 INCHES TO 0.00005 INCH.



PAMPHLET N° 298-A.

**THE R. Y. FERNER CO.**  
INVESTMENT BUILDING      WASHINGTON, D. C.  
UNITED STATES REPRESENTATIVES

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**PARIS OFFICE** . . . . . 120, AVE. DES CHAMPS ELYSÉES  
*Telegraphic address: Physique Paris.*





OTHER SPECIALITIES  
OF THE  
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ADJUSTABLE SNAP GAUGES.

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ADJUSTABLE SNAP  
GAUGES.

MEASURING MACHINES.

DIVIDING MACHINES.

LOCATING AND JIG DRILLING  
MACHINES.

TEST COMPARATORS.

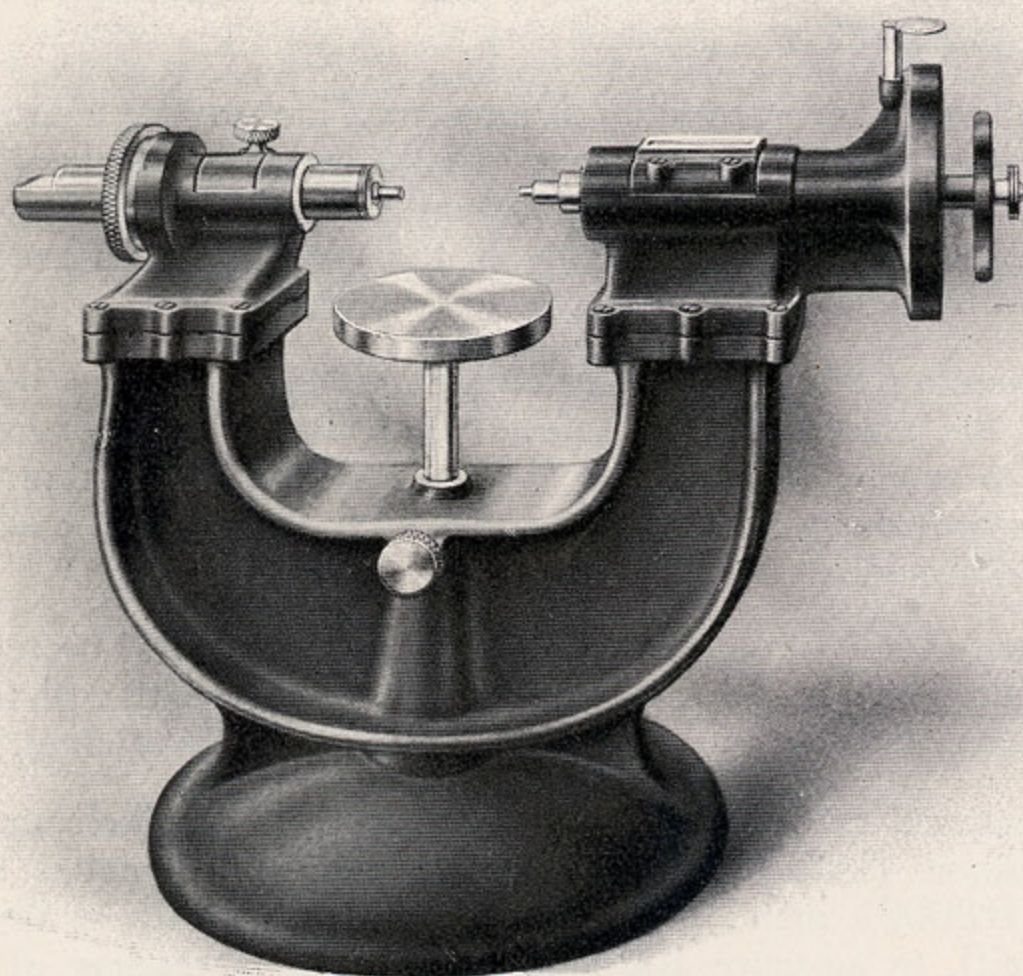
ELECTRICITY METERS.





## HIGH PRECISION BENCH MICROMETER

Measuring 100 millimeters to the one thousandth of a millimeter  
or 4 inches to 0.00005 inch.



The principle of this instrument is the same as that of the ordinary Screw Micrometer, but is distinguished by its extreme accuracy and the care taken with its construction. The ample proportion of the main casting allows of its supporting heavy pieces without harmful deformation. It is provided with a table which can be adjusted vertically, so that the object to be measured may be placed conveniently between the measuring faces of the machine.

The micrometer screw has a pitch of 1.0 mm. or 0.05 inch and a travel of 50 mm. or 2 inches; the graduated measuring drum is divided into 1,000 parts for Metric and 500 parts for English measurements, giving a reading of 0.001 mm. or 0.0001 inch; the micrometer is provided with a vernier for measurements of 0.0001 mm. for Metric units and of 0.00001 inch for English units. A lens mounted on a pivot facilitates the readings.





The micrometer screw is made with the greatest accuracy and its minimum errors are corrected to 0.001 mm. or 0.00005 inch by an automatic device, which does not call for any particular attention or calculation on the part of the operator, the reading on the graduated drum being definite and final. The tailstock carries an anvil operating an amplifying needle which multiplies the displacement of its movable measuring face 500 times. The amplifier has a travel of 50 mm. or 2 inches in its guide.

For measuring pieces that are smaller than 50 mm. or 2 inches, the amplifier is placed in contact with the measuring face of the micrometer screw and the latter adjusted to zero.

For measuring pieces exceeding 50 mm. or 2 inches, the micrometer screw is placed at zero, with a standard gauge of 50 mm. or 2 inches between the measuring face of the micrometer screw and the anvil of the amplifier, which serves to accurately adjust the position of the amplifier. Its exact position is easily regulated by means of a micrometric adjustment.

When measuring, the reading on the micrometer index must be taken when the needle of the amplifier is at zero. The needle of the amplifier at the position of zero is also adjusted for the point of departure from 0 to 50 mm. or 2 inches, as previously stated. The sensibility of the needle allows an easy reading of 0.0005 mm. or 0.00005 inch.

The graduated measuring drum of the micrometer is protected against accidental damage by a metal cover cast solid with the head, with the exception of the part necessary to allow the operator to observe the reading.

This instrument can be supplied calibrated in English units standard at 62° Fahrenheit (16.67° Centigrade), to measure 4 inches and to give a reading of 0.00001 inch; or in metric units, standard at 0° Centigrade (32° Fahrenheit), to measure 100 mm. and to give a reading of 0.0001 mm.

The standard gauge of 2 inches or 50 mm. is supplied with the Micrometer.

	English Units	Metric Units
Order No . . . . .	10,012	
Telegraphic Code Word . . . . .	<i>Enlabe</i>	<i>Miclab</i>
Price . . . . .		
Net Weight . . . . . lbs	71	71
	(kg.)	(32)
Gross Weight . . . . . lbs	122	122
	(kg.)	(55)