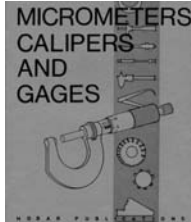


**MICROMETERS, CALIPERS AND GAGES**

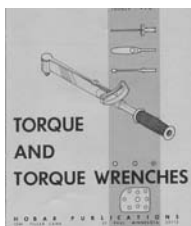
This is an educational tool to be used in a classroom setting or by commercial firms and other agencies for inservice training programs. This manual contains illustrations of the different measuring instruments, an explanation of their construction, and how to use the instruments for specific applications. The tools explained are micrometers, vernier calipers, thickness gages, and wire gages. Classroom exercises and laboratory worksheets are included for instructional and evaluation purposes. HOBAR



28 pages, 1969, softcover  
Order Number: 169.....\$5.20 each, \$4.16 (10 or more)

**TORQUE AND TORQUE WRENCHES**

A manual for use in teaching the torque wrench. Emphasis is given to what is torque and how it applies to work, units of torque, torque conversion tables, types of torque wrenches, and how to use the torque wrench. The manual includes a classroom exercise and a one-page laboratory worksheet on using torque wrenches. HOBAR



24 pages, 1971, softcover  
Order Number: 171.....\$5.20 each, \$4.16 (10 or more)

**MEASURING AND TORQUE WORKSHEETS**

Each worksheet master includes: Part ID, Skills Taught, Measuring Exercises, Operational Procedure, Materials Needed, and an Evaluation Score Sheet. Sold as a set of seven worksheet masters. HOBAR

- Reading the Micrometer
- Using the Vernier Caliper
- Using Feeler Gages
- Using Plastigage
- Using the Micrometer Depth Gage
- Using the Torque Wrench
- Reading the Metric Micrometer

**Set of Seven Measuring Worksheets:**  
Order Number: 310 .....\$5.65

**MEASUREMENTS IN AGRICULTURE POWERPOINT**



This presentation details the various forms of measurements used in agriculture by detailing the difference between the American and the metric systems, as well as identifies the various tools used for measuring. Students learn how to take dry and wet measurements, as well as how to measure distances, weights, lengths, widths, and heights. 28 slides. 2003. CEV

Order Number: CEV70110 .....\$74.00

**MARKING & MEASURING DEVICES POWERPOINT**

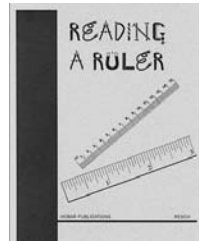


Several different tools can be used to measure materials. This PowerPoint presentation illustrates various methods used to mark and measure materials. Students learn to apply marking and measuring techniques. 16 slides. 2003. CEV

Order Number: CEV70077 .....\$64.00

**READING A RULER**

The ability to take measurements quickly and accurately is a skill that is beneficial to students and professionals in a wide variety of areas. This manual explains the English and metric systems of measurement and their conversions. Classroom exercises and lab activities help students understand how to read a ruler and apply this skill in everyday activities. Each book includes a ruler. HOBAR



**Text:** 24 pages, 2002, softcover  
Order Number: 101.....\$5.95 each, \$4.76 (10 or more)

**Teacher's Key:**  
Order Number: 101TK.....\$2.85

**READING A RULER English and Metric Measurements**



This CD offers instruction as well as practice in the skill of English and metric measuring. The graphics employed are entertaining and instructive. In the interactive segments, the user moves a pointer to coincide with an "assigned" measurement. There is immediate feedback for reinforcement. The simplicity of the metric system is illustrated by tying it to a moving decimal. The treatment of metric prefixes sets them in the mind of the viewer. For Windows & Mac. 1996. SHOPWARE

Order Number: SW7976.....\$89.95

**TWELVE INCH STANDARD RULER**

From Hobar Publications, come as set of 10.  
Order Number: 10RULE .....\$4.75

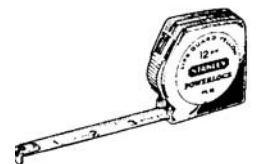
**METAL BENCH RULE**

12" long, 7/8" wide.  
Order Number: GEN 1201 .....\$7.75



**POWERLOCK® TAPE RULE**

Powerlock Rules feature positive blade lock with no creeping. Easy to read blade protected with Mylar to reduce friction. Graduated in 16ths on both edges of one side. Stud markings every 16".



**12 Foot** – 1/2" wide blade  
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**20 Foot** – 3/4" wide blade  
Order Number: S33-320 .....\$21.00

**25 Foot** – 1" wide blade  
Order Number: S33-425 .....\$27.00

**PLUNGER DIAL INDICATOR**

Full 1" travel, accuracy to .001".  
Order Number: GEN 109 .....\$24.00



**MICROMETERS**



**0-1 Inch** – accuracy to .001".  
Order Number: ST-02-0851-04 .....\$101.40

**1-2 Inch** – accuracy to .001" with std.  
Order Number: ST-02-0852-04. ....\$117.25

**2-3 Inch** – accuracy to .001" with std.  
Order Number: ST-02-0853-04 .....\$132.10

**CALIPERS**



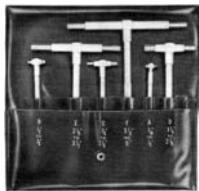
**Dial Caliper** – 6" capacity; 0.001" graduations. 5-way measuring: inside, outside, depth, step, and height readings.  
Order Number: GEN145 .....\$44.55

**Fractional Scale Vernier Caliper** – 5" capacity, economical steel  
Order Number: GEN721 .....\$14.35

**Digital Caliper** – 6" capacity, accuracy to .001".  
Order Number: GEN1436 .....\$42.85

**Vernier Caliper** – inch and mm  
Order Number: GENMG6001 .....\$57.50

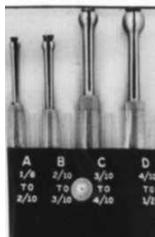
**TELESCOPING GAGES**



For measuring inside diameters or widths of holes and slots from which accurate micrometer measurements are taken. Hardened and precision ground. In sets, packed in vinyl case.

**Six Gage Set** – 5/16" to 6".  
Order Number: GENS-98-6 .....\$148.95

**SMALL HOLE GAGES**



These gages consist of a hardened split full round contact with a flat bottom. This permits measurements of small holes, slots, grooves, and recesses. They are adjusted to size by a knurled knob at the end of a handle. Final size is obtained by use of a micrometer over the contacts. Furnished in case. Range inch.

**Four Gage Set** – .125–.500  
Order Number: ST-64-0012-00 .....\$78.00

**DEPTH MICROMETER**



English, 0-3", 2-1/2" base, 3 rods, includes wooden case.  
Order Number: ST-12-0213-04 .....\$180.65

**MO SERIES MANDREL MICROMETER**



0-4", in case.  
Order Number: ST-05-0004-04.....\$299.95

**MOISTURE TEST METER**



Test hard or soft wood, concrete, plaster, carpet and more to determine the extent of moisture problems. Helps to select drier lumber. Dual reading scale gives relative (1-10) and moisture percentage (10-28%) readings. 9-volt battery not included. GENERAL  
Order Number: GEN329 .....\$41.75

**PRECISION MEASURING KIT**



Includes 0-1" micrometer, 0-6" dial caliper, 6" rigid stainless steel rule, and tungsten carbide scribe with magnetic pickup. Packaged in sturdy, fitted, blow molded case. Instructions and conversion tables included.  
Order Number: GENS004.....\$114.75

**"CLICKER" TORQUE WRENCHES**



The operator will hear a "click" and feel the breakover when the pre-set torque is reached. The micrometer adjusting handle lets the operator pre-set the required torque valve and the patented locking mechanism holds it. This torque wrench incorporating the famous S-K reversible ratchet is the lightest, slimmest, easiest-to-use tool of its kind.

**3/8" Drive** – 10-100 ft. lbs. torque capacity, 1/2 ft.lb. steps of graduation, overall length 18".  
Order Number: SK-74104 .....\$137.00

**1/2" Drive** – 10-150 ft. lbs. torque capacity, 1 ft.lb. steps of graduation, overall length 21".  
Order Number: SK-74151 .....\$142.00

**3/8" DRIVE TORQUE WRENCH**



0-300 lbs/in (10 in. lb)  
Order Number: 19393.....\$78.65

**VALUE 3/8" DRIVE TORQUE WRENCH**

Dual scale reads 0-800lbs./in. and 0-90 Newton meters.  
Order Number: S86-383B .....\$48.00

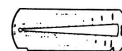
**VALUE MICROMETERS**



**0-1 Inch**  
Order Number: MC-1 .....\$22.50

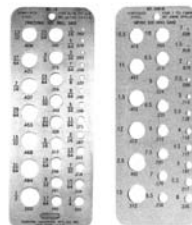
**1-2 Inch** - 1" standard included  
Order Number: MC-2 .....\$24.80

**GAGES**



**Screw and Wire Gage**  
Order Number: GEN26 .....\$10.25

**Drill Gages**—Made of heavy gage hardened and ground carbon steel. Hole sizes and decimal equivalents permanently etched.



**A-Z Drills**  
Order number: GEN12.....\$13.25

**1/16"-1/2" Drills**  
Order Number: GEN14 .....\$13.75

**1-60 Drills**  
Order Number: GEN15 .....\$13.95

**Metric Drills**  
Order Number: GEN35MM.....\$13.75