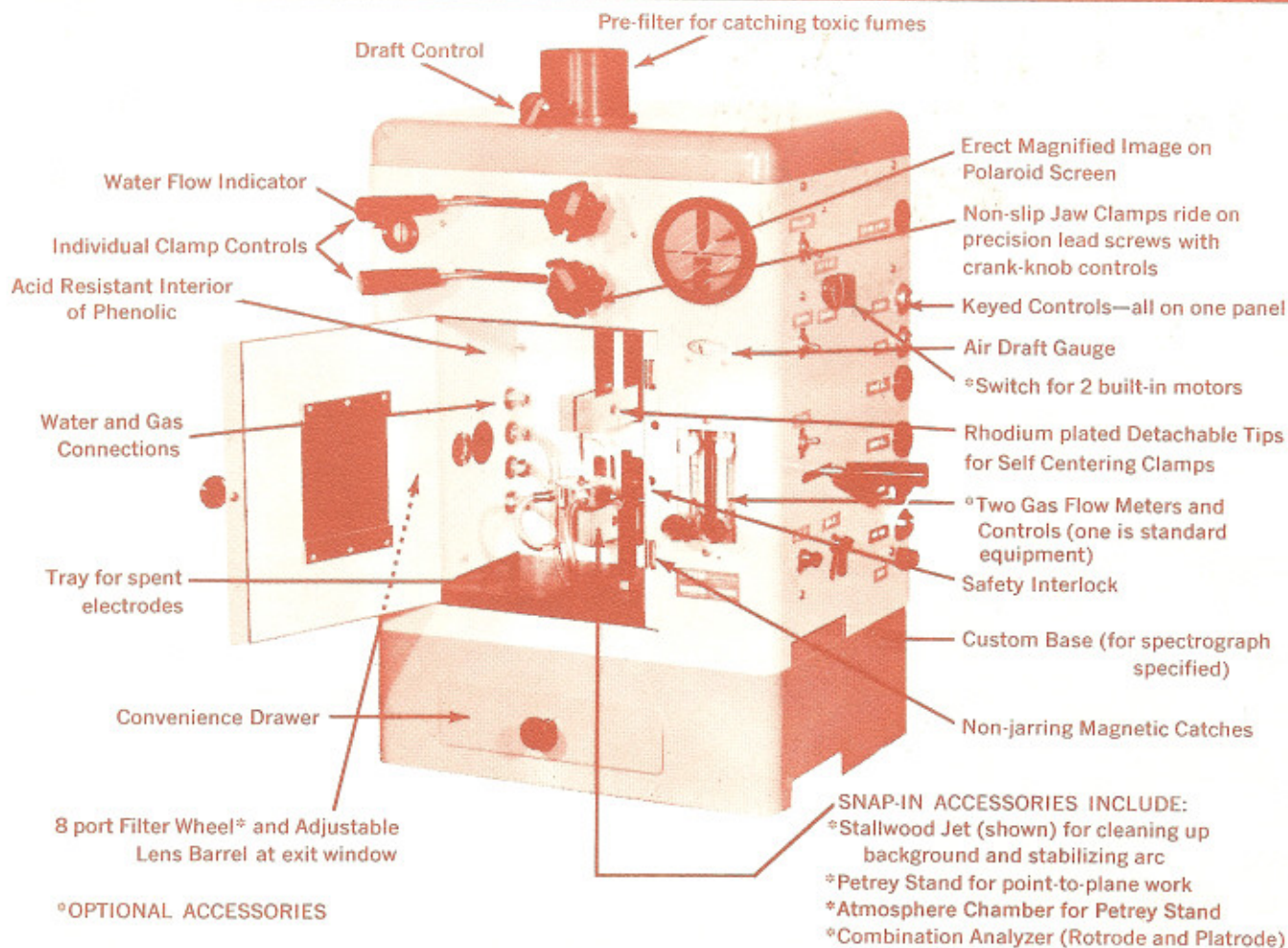


THE **SPEX**

# Arc/Spark Stand

has been mated to  
at least 700 spectrographs  
and direct readers  
including those of  
**ANGSTROM**  
**APPLIED RESEARCH LABS**  
**BAIRD-ATOMIC**  
**BAUSCH & LOMB**  
**HILGER & WATTS**  
**JARRELL-ASH**  
**JOBIN & YVON**  
**LABTEST**  
**LEITZ**  
**SHIMADZU**  
**SPEX**  
**ZEISS**

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**SPEX**

INDUSTRIES, INC. • BOX 798, METUCHEN, N.J. 08840 • ☎ (201)-549-7144

## ARC/SPARK STAND

**9010 ARC/SPARK STAND**, 115V, 50-60 Hz, includes Flowmeter and Water Cooling Connections, 15"x12"x21", 129 lb

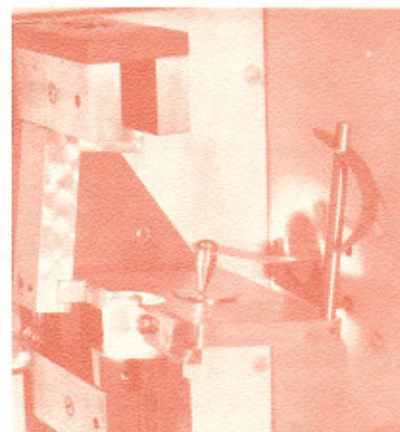
**9010A ADAPTER**

## PETREY STAND (SPEX SPEAKER, Vol. IV-No.2)

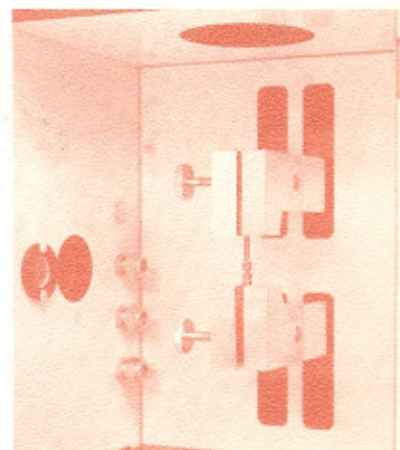
Petrey Stand has removable, motorized turntable for sampling a large area to minimize segregation effects. A jet of gas may be directed at the gap to reduce matrix effects. Align-

ment of sample is simplified with use of viewing mirror. Capable of supporting up to 20 pounds, the Petrey Stand is snapped in and out of the upper electrode jaws in seconds.

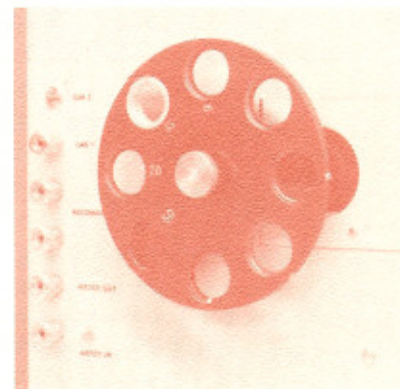
- 9011 PETREY STAND**, complete with 2, 3 or 4 mm spacer (specify); mirror; turntable; hold-down spring, 2 rpm motor. Fits in upper jaws of 9010, 5 lb
- 9012 MOTOR**, 2 rpm or 10 rpm (specify). Note: The 2 rpm motor is included with and recommended for the 9011 Petrey Stand; the 10 rpm motor is included with the 3400 Combination Analyzer. If it is desired to add either the Petrey Stand or the Combination Analyzer at a later date, it is necessary to order one or both motors with the basic arc/spark stand.
- 9017 PROJECTION LAMP**, replacement.
- 9020 JAW TIPS**, rhodium plated brass, replacement set of 4.
- 9020-S JAW TIPS**, for short (to 1/2") electrodes, set of 4.
- 9021 FILTER WHEEL**, mounts on 9010, indexes at each of 8 ports.
- 9022 NEUTRAL FILTER**, quartz, specify 50%, 20%, 12%, or 6% transmittance.
- 9023-C FILTER**, clear glass, cuts off below 3200A to eliminate overlapping orders
- 9023-R FILTER**, red glass, cuts off below 6000A to eliminate overlapping orders when photographing red and infrared spectra.
- 9023-Y FILTER**, yellow glass, cuts off below 4500A to reduce overlapping orders when photographing visible spectrum.
- 9023-UV FILTER**, ultraviolet transmitting for photographing 2250-3500A.
- 3200 CIRCULATING PUMP ASSEMBLY**, includes pump, 7 gal. polyethylene container, 20 feet of Tygon tubing, 115 vac., 14 lb



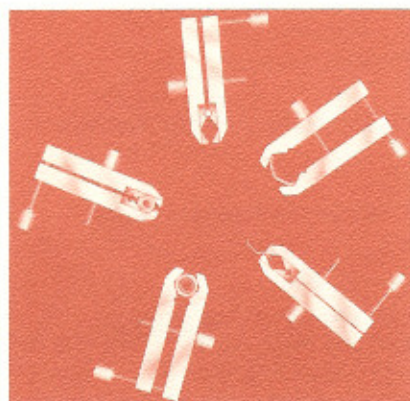
9011



9020-S



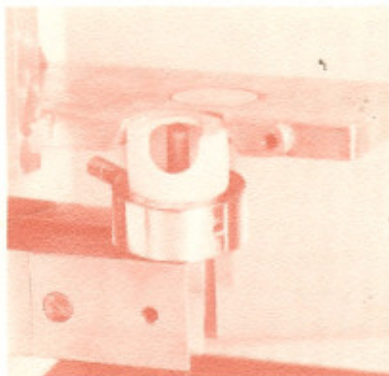
9021



3300

**3300 PETREY STAND SAMPLE CLAMP**, used for gripping small and/or irregular samples on Petrey Stand.

## ATMOSPHERE CHAMBER FOR PETREY STAND (SPEX SPEAKER, Vol. VIII-No. 3)

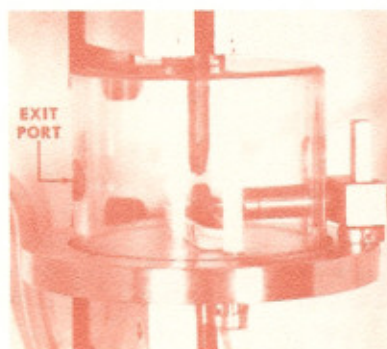


3310

Designed to be mounted in any attitude on almost any Petrey Stand, this chamber is meant principally for dispelling matrix effects, especially in ferrous alloys. By sparking in an argon atmosphere, using the Arrak method, one set of standards (such as our BAS Low Alloy Steels) serves for the accurate determination of all elements standardized, whether the unknown is carbon, low alloy, high temperature or tool steel.

- 3310** **ATMOSPHERE CHAMBER FOR PETREY STAND**, complete with 2 and 3 mm spacer and length of Tygon tubing. Takes standard 0.242" dia. graphite counter electrode.

## ENCLOSED COMBINATION ANALYZER (SPEX SPEAKER, Vol. VI-No. 1)

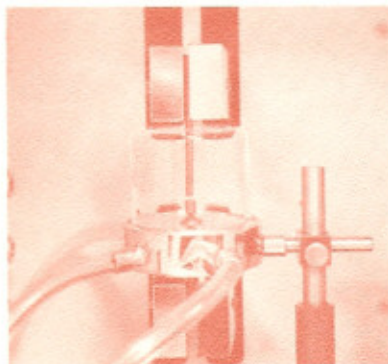


3400

One of the oldest, still one of the best methods for analyzing solutions is with the rotating graphite disc. Powered by a 10 rpm, built-in motor, through an insulated flexible shaft, our rotrode is mounted in the lower electrode jaws. A Pyrex cover may be placed over the sample to permit sparking in inert gases, a feature permitting the analysis of flammables. The accessory may also be used vertically as a platrode for the analysis of briquets or dried salts.

- 3400** **COMBINATION ANALYZER**, for the analysis of solutions by either the rotrode or platrode techniques. A stainless steel and a spare tantalum shaft are provided; also one 3401 porcelain boat and one 3403 aluminum boat, 4 lb
- 3401** **PORCELAIN BOAT**, spare.
- 3402** **PLATFORM**, for the analysis of 1/4" or 1" dia. pellets.
- 3403** **ALUMINUM BOAT**
- 3404** **PYREX COVER**, spare.

## ENCLOSED STALLWOOD JET (SPEX SPEAKER, Vol. VII-No. 3)



9027

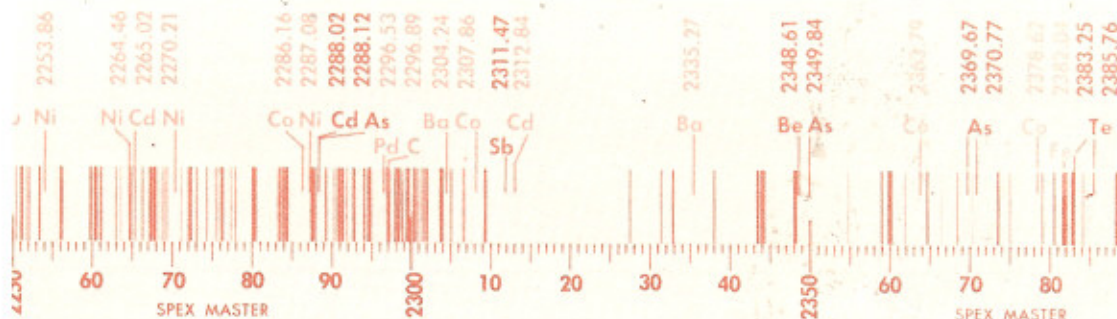
Jacketed in a sheath of gas, the arc is constrained from wandering and the result is far greater stability and sensitivity. By using an argon:oxygen mixture, cyanogen bands virtually disappear, opening up hundreds of angstroms where the persistent lines of many elements appear.

- 9026** **QUARTZ DOME**, for use with 9027, spare (it is suggested that several be purchased as they should be cleaned before a sample is arced).
- 9027** **ENCLOSED STALLWOOD JET**, water-cooled, fits most arc stands, may be used with 1/8", 3/16" or 1/4" dia. electrodes, with one 9026 quartz dome, 4 lb

# MASTER PLATES COLOR CODED AND MATCHED TO YOUR SPECTROGRAPH

**1103 MASTER PLATES**, covering any wavelength interval from 1950 to 4600A, individually matched to any linear dispersion spectrograph. Persistent lines of about 70 elements are given with color coded labeling for ease in identification. Arc lines are in green and spark lines in red. To order please send us an iron spectrum covering the region of interest and made under conditions normally used. We recommend that when shipping the glass plate you tape it between 1/4" plywood or Masonite sheets; then wrap the sandwich in a suitable buffer such as corrugated cardboard. Also specify 2"x10" or 4"x10" plate size for mounting.

Available in 10 inches and 40 inches of spectrum. Please specify.



## QUESTIONNAIRE (SEND COMPLETED COPY WITH PURCHASE ORDER)

NAME \_\_\_\_\_

ADDRESS \_\_\_\_\_

Type of spectrograph \_\_\_\_\_

Manufacturer \_\_\_\_\_

Approximate date of purchase \_\_\_\_\_

Vertical distance from top of optical bar to center of optical path. \_\_\_\_\_

Cross-sectional sketch of optical bar with approximate dimensions.

Does optical path run along center of optical bar? If not, specify.

As operator faces arc/spark stand, is the slit of the spectrograph to his left or to his right? \_\_\_\_\_

What is the diameter of the lens closest to the Arc Stand?  
(This information needed if lens is to be mounted in barrel of 9010). \_\_\_\_\_

**NOTE:** With a B&L Dual Grating Spectrograph having a reflective (rather than refractive) external illuminator, it is necessary that the mirrors therein have a focal length of 7.25". If 6" focal length mirrors are in your illuminator they must be replaced.