

alessi

REL-4100

ANALYTICAL PROBE STATION

Alessi's REL-4100 combines precision movement, superior optics and rigid stability to provide the ideal manual probing system. This outstanding product is designed for both the manufacturer and end user of integrated circuits in wafer or package form. Machined to exacting requirements the REL-4100 offers vibration-free probing, with zero backlash and 1 micron resolution in all motions. Engineered for ease & speed of use, Alessi's REL-4100 features 6" wafer scanning in less than 10 seconds. With a full range of accessories available, the REL-4100 is unsurpassed in operation, convenience and dependability.

Features

- 1" linear vacuum chuck 'Z' motion.
- Accepts wafer (to 6"), packaged devices and individual die
- 22.5X to 3000X magnification available
- Platen repeatability/accuracy of less than 1 micron
- Coax X-Y scope transport (motorized available)
- Lever action lifts platen without affecting focal points for device repositioning
- Low profile design for operator comfort
- True linear backlash-free movement throughout
- Vibration-isolation feet standard
- Chuck planarized to ± 10 microns; has user re-planarization system
- Massive platen and base for superb stability
- Optional joystick controlled motorized stage drive
- Tilt-back Microscope Mount

Specifications

STAGE

SIZE... 4" x 4" or 6" x 6"

TYPE... Ball Bearings, V-Ways

OPTIONS... Motorized Remote Control

DRIVES... Precision barrel-driven lead screw

RESOLUTION... 1 micron

PLATEN

LIFT MECHANISM... Lever-actuated linear motion.

LIFT DISTANCE... 1" total; 1st 0.200" independent of optics.

REPEATABILITY... sub-micron

CAPACITY... 12 Alessi Micropositioners mounted either magnetically or by vacuum.

WAFER CHUCK

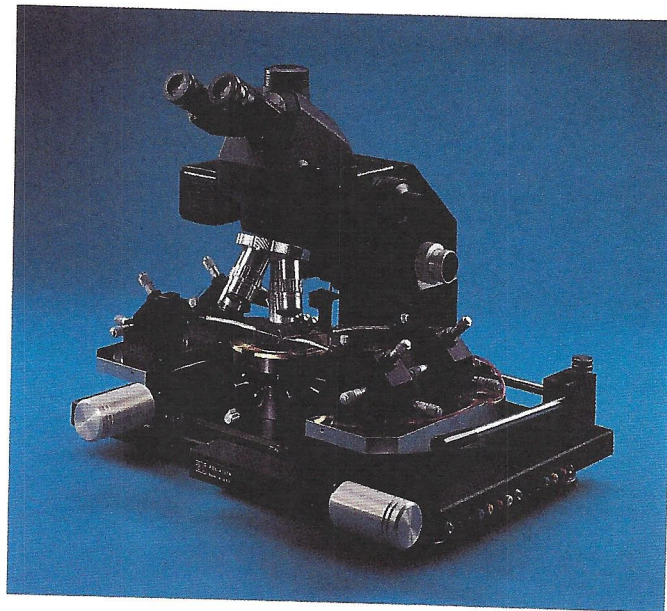
SIZES... 4" or 6"

MATERIAL... Stainless steel top plate. Gold optional.

PLANARIZATION... ± 10 microns over entire surface.

THETA MOTION... 90 degrees with lock.

Z MOTION... Precision 1" linear; independent of other stage motions.



MICROSCOPE TRANSPORT

X-Y MOTION... Precision 1" x 1" X-Y with coax drive

OPTIONS... Motorized remote controlled 1" x 1" or 4" x 4" X-Y scope motion.

ELECTRICAL

INTERFACE... Instrumentation interface via 14 color-coded 3/16" banana plugs. (Includes instrument ground.) Interface plugs can be located right, left or right/left split on base plate. 50 ohm shielded coax wiring (83265) is used throughout system.

REQUIREMENTS

Electrical: 120VAC, 50-60 Hz (240 available)

Vacuum: 0.5 C.F.M. @ 15" Hg

DIMENSIONS

WEIGHT... 130 lbs. with optics.

HEIGHT... 18.5" to center of eyepieces.

BASE DIMENSIONS... 18"D x 2"W

ACCESSORIES

- YAG Laser Cutter
- CCTV
- Photomicrographics
- Probe Card Holder
- Packaged Device Holder
- Vacuum Manifold for Micropositioners
- Digital Readout
- Thermal Systems
- Vibration Isolation Table

MICROSCOPE - MICROZOOM or
MITUTOYO FINESCOPE



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