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DIVIDING HEADS

For checking angular measurements
on all types of rotating components:

- POTENTIOMETERS
- RESOLVERS
- SYNCHROS
- GYRO PICK-OFFS

MODEL DH-5E

The Model DH-5E is a 5 degree indexing Dividing Head with an easy to read, engraved main 5 degree dial, which has a feature allowing "reset" to any 5 degree index position. The readings are engraved for both CW and CCW rotation.

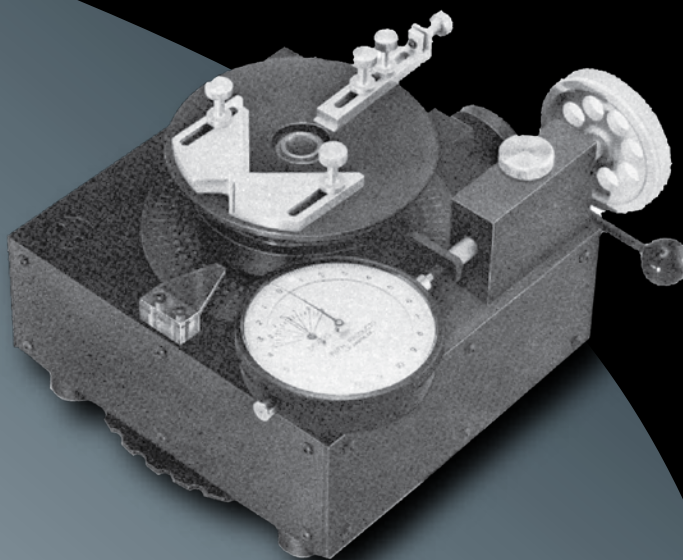
A semi-flexible bellows mounting platform absorbs all eccentricity errors due to incorrect mounting and normal mechanical tolerances. The bellows mounting platform moves with the component under test, not transmitting eccentricity or wobble to angular error.

A large dial indicator provides direct read-out of angular deviations from the nominal with 3 second resolution.

A universal holding clamp accommodates case sizes 5 through 23. Standard Levin Model "D" collets, sizes .090 to 5/16 are available. Three collets are furnished with each Dividing Head.

The main index wheel is calibrated at 5 degree points. The indicator is calibrated at 20 minute increments from zero to ± 3 degrees.

All calibration data is furnished and is traceable to N.B.S.



MODEL DH-5H

The Model DH-5H Dividing Head incorporates all the features of the DH-5E with a special extension shaft to allow testing in an environmental chamber (- 55 degrees C. to + 125 degrees C.). The critical rotating parts and all controls are isolated from the extremes of temperature variation.

Extension shafts are also available on other models.

SPECIFICATIONS

MODEL

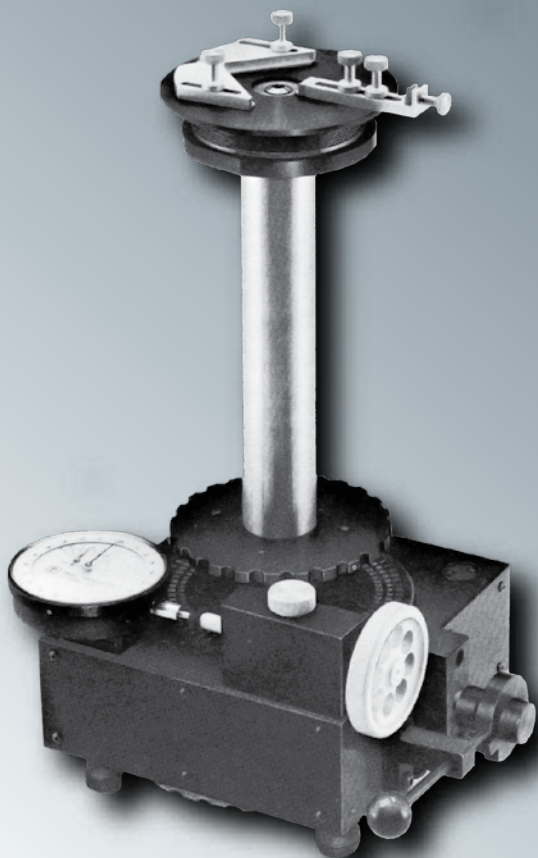
Angular Accuracy
Repeatability
Approx. Shipping Weight
Approx. Physical Size

DH-5E

± 10 sec
2 sec
25lbs
H. 7.5 in
W. 11.5 in
D. 10.5 in

DH-5H

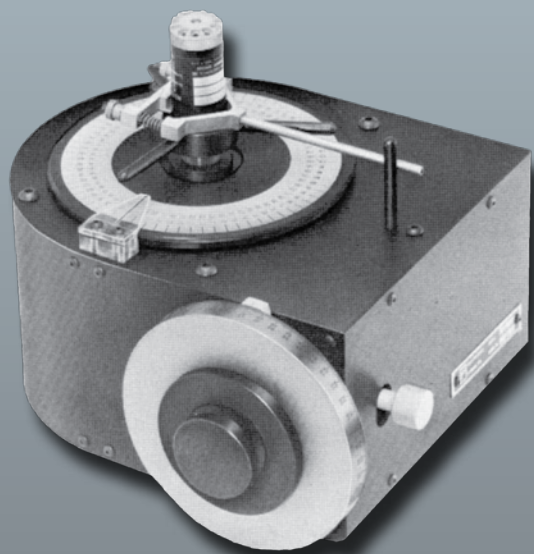
± 15 sec
4 sec
30lbs
18 in
11.5 in
10.5 in



PATH PRODUCTS INC.

15113 SIERRA BONITA LN, CHINO CA 91710

PATH PRODUCTS, INC. – DIVIDING HEADS



MODEL DH-10A

The Model DH-10A Dividing Head features continuous rotation and is ideal for testing potentiometers and similar parts for linearity.

A continuous read-out drum dial allows “reset” to any .01 degree. The readings are engraved for both CW and CCW rotation.

There is an easy to read engraved 5 degree “slip” type read-out dial for ease of setting zero. These readings are also engraved for both CW and CCW rotation.

There is a small magnetic tip at the end of a universal type holding clamp which accommodates a variety of sizes and components. The components are held full floating, supported from their own shaft, which minimizes radial and axial loading errors.

A .250 Levin “D” collet is furnished as standard equipment, although another size may be specified.

MODEL DH-10B

The Model DH-10B Dividing Head has all of the features of our Model DH-10A but includes a bellows mounting platform. The bellows mounting platform is the special feature for getting accurate repeatable test results. The bellows mounting platform moves with the component under test, not transmitting eccentricity or wobble to angular error.

SPECIFICATIONS

MODEL

Angular Accuracy

Repeatability

Approx. Shipping Weight

Approx. Physical Size

DH-10A

± 60 sec

15 sec

30 lbs

H. 7 in

W. 10 in

D. 10 in

DH-10B

± 60 sec

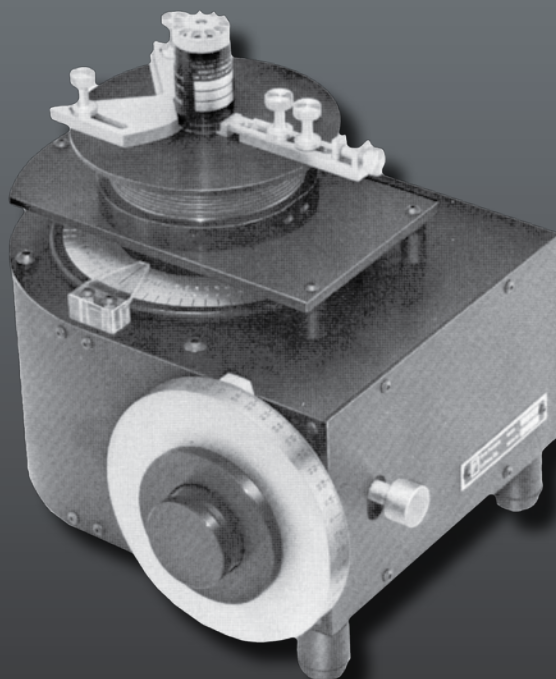
15 sec

30 lbs

10 in

10 in

10 in



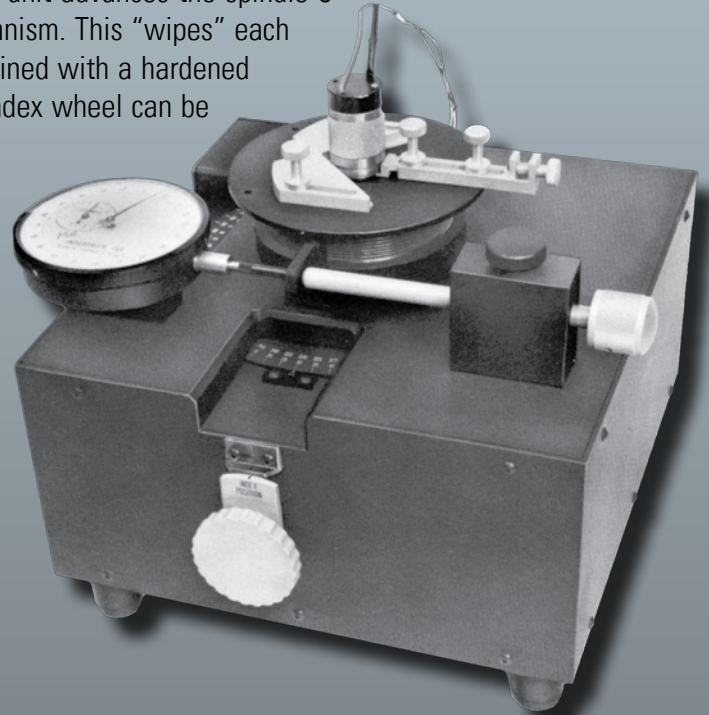
MODEL DH-9

The Model DH-9 is a 5 degree indexing Dividing Head with an easy to read engraved dial marked for both CW and CCW rotation. A large knob on the front of the unit advances the spindle 5 degrees per revolution with a rolling-pin type of detenting mechanism. This "wipes" each 5 degree detent prior to stopping. This self cleaning action combined with a hardened index wheel assures maximum life and repeatability. The main index wheel can be disengaged for rapid access to any position.

The DH-9 also features (1) A bellows mounting platform, (2) A universal holding clamp for case sizes 5 through 23, (3) A large dial indicator with 3 second resolution, (4) Three standard Levin model "D" collets. Other collets are available.

The main index wheel is calibrated at 5 degree points. The indicator is calibrated at 20 minute increments from zero to ± 3 degrees.

All calibration data is furnished and is traceable to N.B.S.



MODEL DH-9M

The Model DH-9M is the automated version of the DH-9. It is designed for both automatic and semiautomatic operation. A front panel toggle switch transfers operation from one mode to the other. In the automatic mode the spindle advances 5 degrees every 6 seconds with a 4 second pause at each step. In the semiautomatic mode the spindle advances 5 degrees for each actuation of a front panel push button. Rotation can be either CW or CCW, selectable from a front panel toggle switch. Cam-operated micro-switches provide switching for a Rotary Solenoid Controlled Synchro or Resolver Standard or Bridge, a Phase Angle Voltmeter, and a DC Recorder. A release button on top of the unit disengages the main index wheel from the detenting mechanism to provide rapid access to any position.

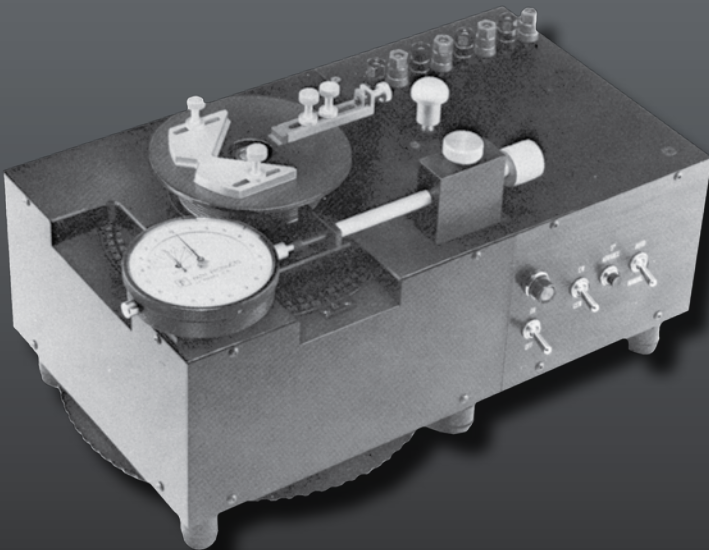
The main index wheel is calibrated at 5 degree points. The indicator is calibrated at 20 minute increments from zero to ± 3 degrees.

All calibration data is furnished and is traceable to N.B.S.

A mating rear panel connector is supplied with the unit. 115 V. 60 CPS external power is required.

SPECIFICATIONS

MODEL	DH-9	DH-9M
Angular Accuracy	± 5 sec	± 10 sec
Repeatability	± 2 sec	± 4 sec
Approx. Shipping Weight	60 lbs	75 lbs
Approx. Physical Size	H. 9 in W. 12 in D. 11 in	9 in 18 in 10 in



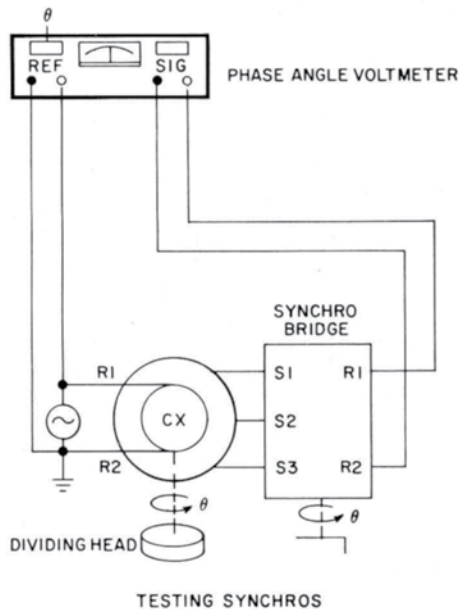
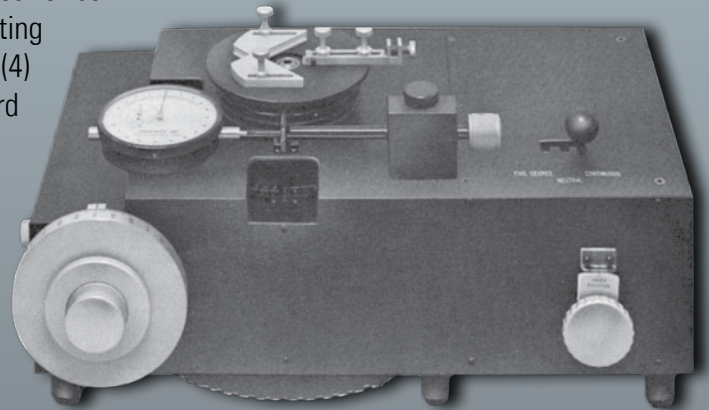
MODEL DH-9-10

The Model DH-9-10 incorporates the features of our series DH-9 and DH-10 Dividing Heads. The DH-9-10 can be used for 5 degree indexing or continuous rotation readout. A shift lever on the top of the unit transfers operation from one mode to the other. The continuous readout drum dial allows "reset" to any position.

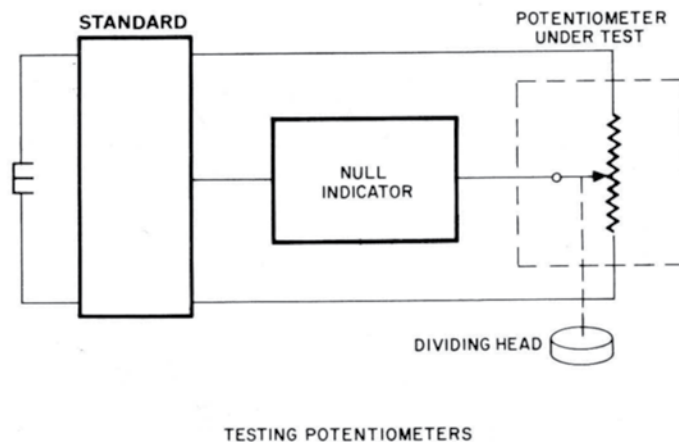
The DH-9-10 also features (1) an easy to read engraved dial marked for both CW and CCW rotation, in 5 degree increments, (2) A bellows mounting platform, (3) A universal holding clamp for case sizes 5 through 23, (4) A large dial indicator with 3 second resolution, (5) Three standard Levin Model "D" collets.

The main 5 degree index wheel is calibrated at the 5 degree points, as is the continuous readout gear. The indicator is calibrated at 20 minute increments from zero to ± 3 degrees.

All calibration data is furnished and is traceable to the N.B.S.



TYPICAL APPLICATIONS



About PATH PRODUCTS, INC.

We are a family owned and operated CNC precision machine shop founded in 1978. We are what is known as a "job shop" machine shop, meaning we manufacture many different kinds of products for many different areas of industry.

Much of what we do is precision work, holding tolerance spreads of .0004" on bearing journals or bores. If things get tighter than that, we do have O.D. grinding capability in house to hold a .0002" tolerance spread on shaft diameters.

We are uniquely equipped to not only handle long production runs but also to cater to the development of your prototype. All of our CNC machines are Mazaks equipped with the Mazatrol Controller which turns programming hours into minutes when compared to conventional G code and M code programming.