



# Forum Update



## Latest Model ED-520 Released

In these days of product line simplification and consolidation, the decision was made to combine the best of the ED-520 and the ED-530 eddy current units. This latest version has the ruggedness and reliability of the ED-520 with the best features of the ED-530. We will be referring it as the "ED-520 Me". The 'Me' will differentiate this latest version from the earlier versions.

Great efforts may be made to assure that this new version will function at least the same and in some instances, better than all previous models. Of course, all probes are completely interchangeable.

Set-up (lift-off compensation) is achieved like the ED-530. A micro-



processor scans the probe/material combination on both bare metal and with a shim and determines the lift-off frequency. Sensitivity ranges are indicated by integral LEDs and an audio thresh-

old gate is standard on all units. Commercially available earphones can be plugged into the front panel under noisy conditions.

There are aesthetic changes to this version, some based on customer feedback. Older versions had the test sample mounted to the inside top cover. If the cover and instrument became separated, a separate slot block would have to be carried. Now the three slot test block is mounted on the front panel. The carrying handle is now mounted on the other side of the case so that the instrument can be hung if desired.

Reliability, versatility, features and performance, all at less than \$3000, makes the new **ED-520 Me** the best value eddy current instrument on the market today.

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#### ED-520 Me

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## Premier Issue of the Forum Update

It's finally here! We've been contemplating a newsletter for some time now and it seems like this would be a good way to start off the new year.

Our plan is to e-mail this letter to those interested, not

simply broadcast email it from some purchased list. If you know of a colleague who is interested, let us know and we'll add them to the list.

Each issue will feature one of our instruments, perhaps information on a recent applica-

tion, maybe a technical tip or two, and updated information on show schedules and advertising placements. We encourage feedback/ suggestions from our readers and we'll see how this thing works out.

## Some Typical ED-520 Me Applications

- **Airframe**

This is easily the most common application of the ED-520. It has been said that “the ED-520 can handle 80% of all airframe inspections.” Unit calibration is accomplished the usual way. Sometimes the service bulletin will specify a calibration standard/block to verify the instrument’s sensitivity. Then simply scan the area to be inspected. The threshold gate can be set so that the inspector can watch the scanning activity and not the meter.

- **Material Sorting**

This application may be even easier than flaw detection. The only requirement is a sample of the material being sorted. The unit is turned on with the probe attached. With the probe on the reference sample, press the BAL pushbutton. The meter needle will come on scale. Now all similar material will read the same. Varying the frequency and will allow better differentiation between materials.

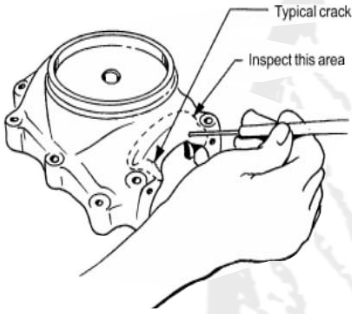
- **Encircling Coils**

Perhaps not as widely used, but just as effective is the

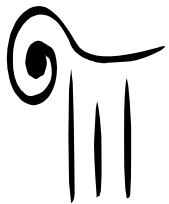
used of encircling coils.

This is an excellent way to sort small parts for material changes or even the detection of conductive materials ( metal fragment) in a typically non-conductive material, ie metal shavings in a plastic part.

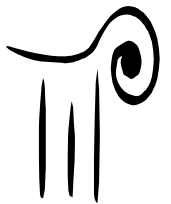
This is by no means the extent of applications for the ED-520Me. Eddy current testing is so broad and diverse that new applications are coming up every day. Let us know how we can help.



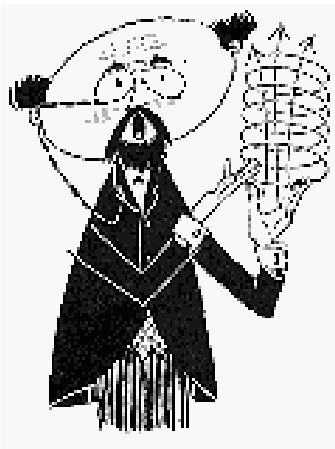
Airframe type inspection



# Technical Tidbits



## “Those \*-%#@^ Tangled Probe Cables”



Twisted, tangled bolt hole probe cables can be a very aggravating to say the least. As the bolt hole probe is rotated, the cable twists, and over time failure is inevitable. If the probe has a detachable cable, then it’s a matter of replacing the cable. If the cable is attached to the probe and the cable fails, the whole assembly must be replaced. This can get rather expensive!

Consider this ... how about a bolt hole probe that already exists that would plug into a rotating connector? Centurion NDT’s automatic bolt hole probe series come with a Mercotac connector that when plugged into a cable fitted with a rotating connector eliminates the twisting and coiling of the probe cable.

Probes are available in

1/64ths of an inch increments starting at 5/32” diameter.

We welcome any questions or your technical tidbit that you’d like to share.

Email: [cntrndt@ix.netcom.com](mailto:cntrndt@ix.netcom.com)

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**Eddy Current   Ultrasonics**

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WE'RE ON THE WEB!  
[www.centurionndt.com](http://www.centurionndt.com)

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All about ...

## *Centurion NDT*

In July 1992, the transfer of the eddy current and ultrasonic product lines of Magnaflux to Centurion NDT was completed. Ken Strass, then Operations Manager of the Electronic Products of Magnaflux, realized the potential of the high quality, well established product line. By August of the same year, Centurion NDT relocated the entire operation to Schaumburg, Illinois, a northwest suburb of Chicago.

Today, Centurion NDT continues to develop and manufacture top quality, innovative, dependable, durable eddy current and ultrasonic instrumentation for a variety of industrial needs. No better non-destructive testing products are made today.

Centurion NDT's business philosophy is to provide easy-to-use, affordable instrumentation of the highest quality standards—absolutely second to none. Mr. Strass believes these essential products will become more commonly used only if they are easy to operate and affordable.

Centurion NDT is well poised to meet its present and past customers' needs as it looks forward to future challenges.

## *Upcoming Shows and Seminars*

### **Wisconsin's 2002 IA Renewal Seminar   AS3 Super Show**

Park Plaza Hotel  
Oshkosh, WI  
February 23, 2002

Indianapolis Convention Center  
Indianapolis, IN  
March 25—28, 2002

### **U.S. Air Force NDI Conference**

The Westin Hotel  
Oklahoma City, OK  
March 11—13, 2002

### **MRO 2002 Conference & Exhibition**

Phoenix Civic Plaza  
Phoenix, AZ  
April 9—11, 2002

### **Greater St. Louis IA Seminar**

Holiday Inn  
Collinsville, IL  
March 22 & 23, 2002

### **Illinois Aviation Conference**

Holiday Inn  
Champaign, IL  
April 23 & 24, 2002

