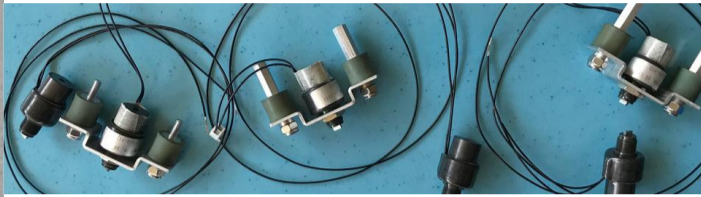




## Impact Solenoids now available from Olson Instruments

Olson Instruments uses impact solenoids to convert electrical energy to mechanical energy. Our impact devices are automatic hammers used for their characteristic repeatability and reliability. In this newsletter we will cover:

- Olson's entry into the impact devices industry
- Technical info for the impact devices we manufacture including:
  - Features
  - Specifications
  - Environmental Data



### Impact Solenoids now in production

Olson Instruments has been an established manufacturer of sensors and data collection NDE systems since 1993. So, when we had the chance to enter the impact device industry, we considered it a natural fit. Olson has always used solenoids as the impact source for the Impact Echo (IE) equipment we build, so this new capability allows us to make our own solenoids, and customize them for our current and future customers' needs.

Impact solenoids are key components of devices commonly used in the printing and embossing industries where repeatability and reliability are of primary importance. Automated impact hammers are also employed in the testing of turbines and generators as well as assembly equipment and robots.

We ship solenoids worldwide in a range of quantities. We are committed to quality, and verify the product performance of each solenoid using only UL recognized components.

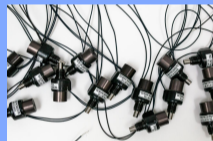
For more information, follow the link below to our site for impact solenoids.

[www.impactdevices.com](http://www.impactdevices.com)

### Technical Info for our Impact Devices

#### Features:

- Projected life of 125 million cycles
- Quiet actuation ideal for office environment
- Interfaces with plastic or metal daisy wheel
- Unique construction to minimize bounce
- Variable lead wire length
- Simple to install and adjust
- Different size, weight, and shaped plungers are available



#### Specifications:

- Force: .011 to .019 joules at 5 amps typical
- Stroke: 0.150" x 0.25" travel
- Insulation Resistance: 1000 megohms
- Dielectric Strength: 500 VRMS
- Coil Resistance: 1.9 ohm + .1 ohm @ +20 C
- Finish: Zinc with black chromate finish
- Weight: 1.14 oz. (32g) incl. Plunger. Plunger wt. 0.14 oz (4.g)



#### Environmental Data:

- Life: 125 million actuations projected
- Operating Temperature: + 70 C surface max.
- Humidity: 95%
- Electrical Hook-up
- 28 VDC + 5 VDC with 1 to 3.5 ms on time
- 1/10 duty cycle
- 4-6 amps constant current
- Frequency: 40 Hz with .150" stroke
- 5 watts input procedures an 80 rise at 25 C ambient.
- The coil temperature should not exceed 105 C (rise plus ambient)
- Current, on time, and duty cycle must be controlled to insure that the maximum coil temperature is not exceeded.



### New Instructional Videos

Two new instructional videos are now available at our website or can viewed directly at YouTube.

Click on the image on the right to see the video for our economical CTG-2 Impact Echo device.



Click on this image to see the video for our inexpensive FTG-1 Sonic Echo (Pile Integrity) unit.



For more information,  
call 303.423.1212  
or email [info@olsoninstruments.com](mailto:info@olsoninstruments.com)

### New Instruments Website

Olson Instruments' new website is now live. Visit the site for equipment information, product quotes, and our list of international distributors.

[www.olsoninstruments.com](http://www.olsoninstruments.com)



### Upcoming Events

All previously listed conferences have been cancelled