

# TECH NEWS & TIPS



Welcome to the Deschner Tech News & Tips newsletter #4.

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Deschner Product Family



Send us a story about how you use our Kinecheks or Cushioneers and if we use your article we'll send you a Deschner baseball cap.

## Velocity-key to understanding the function of Deschner products.

The Wikipedia Encyclopedia defines **Velocity** as “the rate of change of position”, Further, “the rate of change of velocity is called acceleration” or in the case of a Cushioneer shock absorber, deceleration. These physics concepts provide the key to understanding how Cushioneer shock absorbers and Kinechek speed regulators work. The plunger rod on the Cushioneer shock absorber is designed to allow the velocity to change, as it decelerates the load. Its plunger rod moves at a relatively fast

velocity at the beginning of its stroke and its velocity gradually slows to a stop as the moving load depresses the plunger rod. The Kinechek speed/feed control maintains a constant velocity throughout its full stroke. Its plunger rod doesn't change velocity as it controls the speed of the load placed upon it. Of course, the velocity characteristics of each model can be changed for specific applications. Should the load be light, medium or heavy, or need to be moved fast or slow, both models offer the ability to alter the velocity by turning

the built in adjustment knob. Visit the downloads section of our website for instructions about how to alter the velocity of the units. Speed control or shock absorption, its all in the velocity.



## Deschner precision “Metal-to-Metal fit”

“Metal-to-Metal” it's not the name of a hot Rock band. The term describes just one of the *handcrafted* processes used in the manufacture of Deschner's Cushioneer shock absorbers and Kinechek speed regulators. The high pressure cylinder used in Deschner products is hardened and honed to a mirror finish and mated by *hand* to its piston within an amazingly precise clearance of .0005 inch! This “Metal-to-Metal” fit eliminates the need for a sliding piston seal.

Eliminating the sliding seal offers several advantages. The unit can be made smaller while providing greater capacity, and the service life of the unit is increased because there is no sliding seal to wear out. Also, the absence of a sliding seal lessens frictional drag on the plunger rod, which helps the plunger rod to spring out smoothly and quickly. This extraordinary “metal-to-metal” design feature is just one of the innovations that signify Deschner's commitment to producing

the world's finest shock absorbers and speed regulators. Visit the downloads section of our website to view a cutaway illustration showing other product design features.





## You have to be “fast on your feet” to keep up with our Human Resources Administrator.

It has recently come to our attention that in her spare time, our Accounting / Human Resources Administrator, Alice Higbee, is an accomplished athlete.

She completed the Triathlon in 1 hour, 11 min, 10.4 seconds. Alice has been seriously training for the last 2 years. To stay in top shape Alice jogs 3 to 5 miles, does 100 push ups per day and can often be seen at lunch bicycling along the Santa Ana riverbed along a seven mile course.

responsible for Human Resources, Accounts Payable and Payroll. She and her husband Larry have been married for 21 years. They have 2 sons age 5 and 20 years. Alice declares herself a “Homebody” and enjoys the company of family and friends.

Congratulations to Alice on her Triathlon success.



On February 27<sup>th</sup> she placed 4<sup>th</sup> in a grueling TRIATHLON held at the Los Alamitos (CA) Joint forces training center.

Alice competed in the 45 to 49 age group division. The competition began with a 3.4 mile run, followed by a 12 mile bike race, finishing with a 200 meter swim, Whew!

According to Toby Ryan, President, “Alice brings the same kind of dedication to her work as she does to her athletics.” Alice is relatively new to Deschner, having started in August of 2009, and is

### FRUSTRATED WITH LEAKY, DISPOSABLE SHOCKS?

Make the switch to the leak proof **Impacta** shock absorber.

There are plenty of “batgain” shock absorbers on the market. They cause a leaky mess resulting in a service life measured in months instead of years. Now, there is a value priced alternative. The new **Impacta** series from Deschner. Economical, LEAK PROOF, tough.

Make the switch: Send us the leaky, disposable industrial shock you’re using now. We’ll rush you the shock absorber that won’t leak – and at a great price!

Most **Impacta** models available for fast delivery. Order now, complete specs at: [www.deschner.com](http://www.deschner.com)

DESCHNER CORPORATION  
Santa Ana, CA 92704  
1-800-457-6666  
Info@deschner.com

**Impacta** SERIES  
“VALUE & PERFORMANCE”



## Accessories Roundup: Useful add on products detailed on our website.

### Our Team



### Our Home



DESCHNER CORPORATION  
3211 W. Harvard St.  
Santa Ana, CA. 92704

Phone: 714 557-1261  
Fax: 714 557-4762  
Email: [info@deschner.com](mailto:info@deschner.com)  
[sales@deschner.com](mailto:sales@deschner.com)  
[Support@deschner.com](mailto:Support@deschner.com)

Might you be looking for a special mount for your Kinechek, or other Deschner product?

Or, perhaps a tamper proof kit to assure the proper settings are maintained?



These and other Deschner accessories are now detailed on, and accessible from the pull down menu on our website.

Among the optional items are threaded mounting on certain models.



A chart available on our website provides instant detailed dimensions for all Cushioneer and Kinechek threaded mounting models to help in selection of the right product.

Jam nuts are also available for these models as an option and can be ordered by part number.

Another option available for all models is split Mounting Blocks.



A dimension chart is also available on our website for easy ordering. Let us know if there is an accessory product you would like us to provide.



**KINECHEK**



**Cushioneer**

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FLUID POWER EQUIPMENT FOR INDUSTRY

Visit our Website  
[www.deschner.com](http://www.deschner.com)