

# TECH NEWS & TIPS



**Before**—with Drill Demon 4002-31-x installed.



**After**—with new Slimline kit installed. Adaptor plus 100x-31-x Slimline Kinechek installed.

**Welcome to the Deschner Tech News & Tips newsletter #3.**

**INSIDE THIS ISSUE:**

<i>Dumore Drill Owners</i>	<b>1</b>
<i>Customer Case Study</i>	<b>2</b>
<i>Employee Service Awards</i>	<b>3</b>
<i>Trouble Shooting Tips</i>	<b>4</b>

## Attention: Dumore Drill owners. A significant upgrade to our Drill Demon speed regulator will soon be available.

Users of Dumore drill models 24 and 28 will be interested to learn we've completely redesigned the Drill Demon replacement kit. The all new adapter kit will allow you to use any Deschner Slimline product with the same adapter and experience the superior leak proof performance of our products, at a new, lower cost! Our new kit will include a mounting adapter and a Slimline Kinechek speed control of your choice to allow you to upgrade your present Deschner Drill Demon or replace the standard Dumore brand check

unit. The new adapter kit is further enhanced by the ability to quickly interchange (a simple turn of two screws) the Kinechek with either the Deschner Skipchek for tube drilling or the Peckchek for deep hole drilling—all with one versatile adapter. As well as improving the functionality of the adapter kit, we've been able to also design in significant cost savings. In fact, the new adapter kit with standard Kinechek will be offered at almost ½ the cost of the Drill Demon kit it replaces! The cost savings will be even greater for those users upgrading from Dumore Drill

check units. Because the new adapter kit has been improved and now allows for the use of standard Deschner models, the upgraded kit will, in most cases be available for immediate delivery. The new adapter kit will be available in 1<sup>st</sup> quarter 2010.

Please call or email us for projected pricing and delivery options.



**Adaptor with 3" Kinechek**

## THE MINI K IS A GREAT CHOICE TO REGULATE THE SPEED OF AIR FEED DRILLS.

Did you know that Mini K Kinecheks are used by virtually all the manufacturers of pneumatic drills? Positive feed, and air feed drills are the two basic drill systems used for repetitive drilling operations. Positive feed drills are typically used to drill holes 3/8" and larger. When drilling holes smaller than 3/8" in materials less than 3/4" thick, air feed drills offer the advantages of a smaller, lighter drill that can be used in more confined areas. One such model air drill, the .9 HP UNIVERSAL TOOL air drill from ANDREWS TOOL COMPANY, featuring the

PFO4 series attachment, is used extensively in the aerospace industry. Critical to the overall efficiency of this type of drilling operation is the ability to change the "feed rate" to suit various hole diameters and type of material being drilled. With the inclusion of the Mini-Kinechek® hydraulic speed regulator on the air drill, the feed rate may be easily increased or decreased. The Mini-K saves significant down time by simply turning the built in adjustment knob. In contrast, a traditional positive feed drill motors' feed rate is controlled by a screw mechanism that requires stopping the operation

to change the screw adjustment mechanism. Air feed drills with an easily adjustable Mini-K Kinechek offer an efficient solution to repetitive small hole drilling operations.

**Andrews Tool—PFO4**



1. ADJUSTABLE FEED CONTROLLER  
2. 1/8" BORE POWER CYLINDER  
3. FLARING SPRING ADAPTER  
4. ADJUSTABLE STROKE SHUT OFF SWITCH

## Our support staff receives service awards for jobs well done.



### 25 Years

Recognition goes to Sandy Doupe, Lead person in charge of assembly, shipping & receiving, final acceptance and repair departments. Sandy recently received a service award for over 25 years service with Deschner Corporation. Sandy wears many hats, being involved in final

assembly operations, insuring that the right product is shipped to the right customer, and making sure customer repairs are processed correctly. Says Toby Ryan, President, "Sandy has always had an exemplary work ethic, is an excellent trainer and commands the greatest respect from all of her co-workers." Sandy is married with 2 grown children. She and her husband Hans enjoy traveling throughout the US, riding off road motorcycles and other outdoor activities. Sandy and Hans also enjoy short trips to Las Vegas and Laughlin.



### 15 Years

If you've ever called in to place an order or have a technical question, you've had the pleasure of speaking with our sales & tech support coordinator Pam Morin. (Formerly Pam Mueller) Pam is a recent recipient of our service award and has been with Deschner for over 15 years. Pam brings her upbeat personality and knowledge of Deschner products to use

effectively. She is able to answer most technical inquiries right over the phone to help the customer easily select the right Deschner product for their application. According to Toby Ryan, "Pam's work ethic and her technical ability has been an asset to the sales and customer support department for many years." Pam was newly married in May 2009 (Congratulations Pam) and she and her new husband Gary, enjoy travel, camping and other outdoor activities. Their present travel goal is to visit all of the National Parks in the continental US. They have visited seventeen so far and are now planning their next trip.



**Congratulations to both Service award recipients. Sandy & Pam.**



**Sandy Doupe receives 25 year Service Award from Company President Toby Ryan.**



**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)

## Trouble shooting problems associated with a twisted diaphragm.



Although Deschner products are designed to provide trouble free performance over millions of cycles, should you encounter a problem, trouble shooting tips are available on our website. In this column, we'd like to offer you a tip or two about avoiding the problem of the plunger rod hesitating or not springing out fully. The main cause of this problem is a ruptured diaphragm. This condition may be caused by a twisted diaphragm seal.

Cushioneers and Kinecheks use a patented rolling diaphragm seal, which makes the units leak proof and allows the plunger rod to operate without friction. The diaphragm seal is attached to the plunger rod and the inner body wall so there is no leak path. However, the plunger rod must never be twisted in the housing or allowed to twist while operating to avoid "wrinkling" the diaphragm. It's important to make sure moving load is always aligned accurately with plunger rod. Here's a possible remedy:  
Remove unit from machine.

Allow unit to sit for several hours to see if rod will unwind on its own. Turn adjustment knob to "1" on scale line. Depress plunger rod by hand. If rod quickly snaps out full stroke and there is no sign of leakage unit can be reinstalled in the machine. Operating the unit with a twisted diaphragm will reduce the service life of the product and eventually cause it to fail. If you're still having a problem, please call or email us at:  
**[info@deschner.com](mailto:info@deschner.com)**

**KINECHECK**



**Cushioneer**

**DESCHNER CORPORATION**  
FLUID POWER EQUIPMENT FOR INDUSTRY

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