



TECH NEWS & TIPS

**Welcome to the
Deschner Tech
News & Tips
newsletter #5.**

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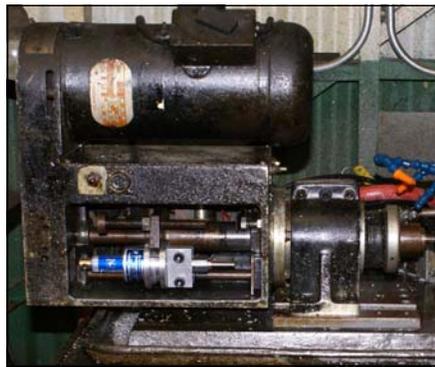


HOW A CUSTOMER IMPROVED THEIR SECONDARY OPERATIONS WITH OUR NEW DRILL ADAPTOR.

RANGERS DIE CASTING COMPANY, based in Southern California, is a major producer of high quality aluminum die cast parts.

They use over 30 DUMORE drill units at the facility for secondary operations, and rely on a hydraulic check system to control the feed rate of each drill. In order to save cost and improve efficiency, Ranger's Engineering department sought a way to use a standard Kinechek for feed control. At the time, Rangers was using our "Drill Demon" check unit, made exclusively for use on Dumore drills. The Drill Demon worked exceptionally well but was custom made at significant cost. To use the standard Kinechek, Rangers manufactured their own mounting bracket in house. This bracket with the Kinechek was mounted on the

outside of the drill housing. This mounting method placed excessive "side load" pressure on the spindle bearings. Recently, we introduced a new drill



adaptor unit to replace our older "Drill Demon" check unit. Our new universal adaptor is compact and mounts within the existing drill casing, the same as the original Dumore check unit or the Deschner Drill Demon. It is extremely versatile and allows use of not only our Kinechek® hydraulic check but our

Skipchek® (for skip drilling) and Peckchek® (for deep hole drilling). This new adaptor system, including the chosen check unit is about **half** the price of the Dumore check system or the Drill Demon it replaces. Rangers recently tested the new adaptor and are pleased with the results. Rangers Die Casting Co. specializes in the manufacture of high quality no porosity castings. Rangers produces thousand of parts each month, including Automotive Fan clutches, Carburetion parts for Alternative Fuels, for autos, farm and irrigation equipment, all of which require drilling and tapping thousands of holes. Production times of these secondary operations have been greatly shortened and produce parts of higher quality by using the Deschner Kinechek with Adaptor in their drilling operations.

Web talk: ALMOST EVERYTHING YOU NEED TO KNOW IS ACCESSABLE FROM OUR GREATLY EXPANDED "DOWNLOADS" SECTION

We've been busy lately expanding the "downloads" section of our website. (click "support" on the toolbar) Customers tell us they want a one stop source for all the information they'll need to make an informed buying decision. Do you need shock absorption or speed control? Click on "product specs" for bulletins for all products. Not sure which Cushioneer shock absorber you need for your application? Check out the "load calculations" table to learn the maximum weight that can be stopped gently by each model Cushioneer. For many customers, deciding on the right Deschner model to control their application is critical. We've provided a number of useful downloadable tools for

this purpose. Start with the "conversion factors" chart for conversions of length, force, velocity and other basic factors. "Cylinder speed" gives inches per second estimates based on valve orifice size and cylinder bore. "Cylinder force" provides data about air cylinder force in pounds. Moving over to the "misc forms and instructions" section, download the product instruction sheets for each product and take a look at the "Product training information" section. Here, you'll of course find animated demonstrations showing exactly how each product functions, but you'll also pick up trouble shooting tips and a "standard fluid ratings" chart showing how different viscosity silicone fluids influence the speed of the plunger rod.

Need a CAD drawing? We've added a vast library of CAD resources in most of the major formats. Click on the "CAD files" section and let us know if you don't find what you're looking for, we may be able to help. In the near future we plan to add a table of contents to make the download you're looking for easier to find. We welcome your comments about our website. Please email your comments or suggestions to us at info@deschner.com. Deschner Corporation is the originator of the Cushioneer brand patented leak-proof shock absorber and Kinechek brand leak-proof speed regulator and related products.



Your Deschner product can be serviced for as long as you own it. Just ask our Repair Department.

Deschner products are designed and built for years of trouble free leak proof performance. However, should you have a problem, our Repair dept, headed by Victor Marin can diagnose the issue, service your Deschner product and make sure it works according to original new product specifications. We service and repair all our products "in house." We are unable to offer self "Repair Kits", because it takes very specialized equipment to disassemble and reassemble a unit and keep it leak proof.

Sending in your Deschner product for service is simple. Call our sales consultant at **800 457-6666** and request an RMA (Return material authorization) number. Return the unit to us with feedback on the nature of the problem, the equipment it is used on, and how you use the product. This information is important as it helps us in our evaluation and perhaps enable us to make recommendations to improve the service life. Repairs typically can be completed and returned within 2 to 3 weeks. Repair of your unit may be a cost effective solution, because the repair cost is about half

the cost of a new unit. Factory repaired units carry the same warranty as newly manufactured units. Unless the product has been subjected to stresses far in excess of it's capacity we can repair the unit and it will function just like a new product. Call us and ask about our repair service.
800 457-6666

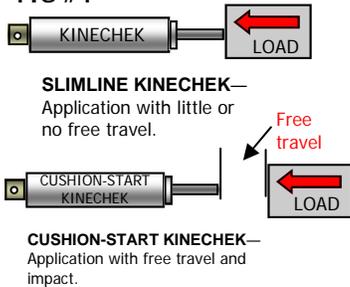
"Your Deschner product can be serviced for as long as you own it."



Send us a story about how you use any of our products and if we use your article we'll send you a Deschner baseball cap.

STANDARD KINECHEK or CUSHION-START KINECHEK??

FIG #1



What will you use your CUSHION-START Kinechek for?

We asked this question of a customer that ran a machine shop. He said he needed the Cushion-Start for use on his vertical mill. The mill table was powered by an air cylinder. He was using a regular Kinechek® speed regulator to control the movement of the table while the mill was cutting. But some of the heavier parts being machined, combined with the weight of the table, and the speed of the load's "free travel" (see Fig. 1, left) caused the load on the Kinechek® to exceed its capacity. The customer could have used a Cushioneer® shock absorber in conjunction

with the Kinechek®, but this was expensive and complicated the setup. By using the Cushion-Start, he was able to do the job with one unit! The "Hybrid" Cushion-Start Kinechek® combines the shock absorbing feature of the Cushioneer® with the speed regulation of the Kinechek®. The impact absorbing feature of the "Cushion-Start" is a safeguard for those applications where a fast moving load exerts an impact force beyond the capacity of the Kinechek®. Approximately 25% of the beginning of the stroke is used for cushioning; the remaining portion of the stroke will control the load (fully adjustable) with the

same constant control as a regular Kinechek®. Cushion-Start Kinecheks® are available in 1/2, 1, 2 and 3 inch strokes. All Cushion-Start models are rated at a maximum capacity of 1200 lbs. (Including impact when the load strikes the plunger) If more demanding shock absorption is needed then we would recommend a regular Cushioneer® be used. Just ask us. **How do you use a Cushion-Start?** Tell us about your application. Downloadable PDF files containing Cushion-Start specifications can also be accessed from the Downloads section of our website. www.deschner.com



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KINECHEK®



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