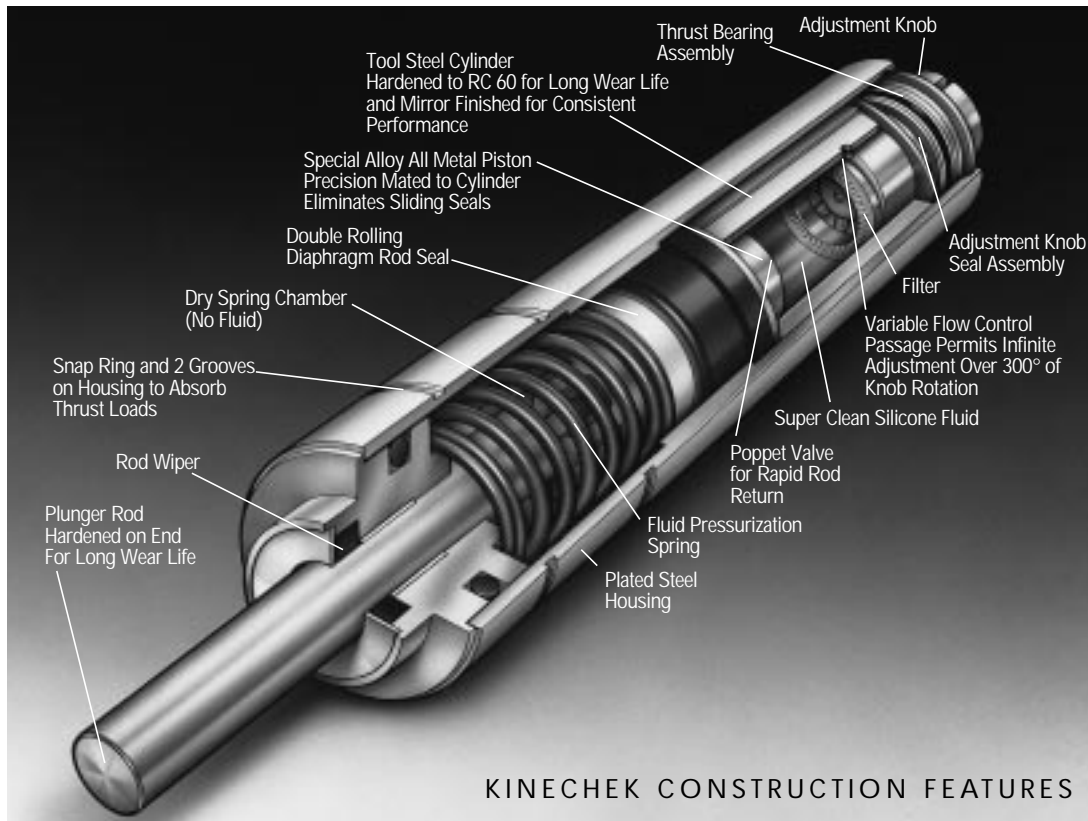



KINECHEKS®




KINECHEKS, originated by Deschner Corporation in 1961, represent a "state of the art" advancement in hydraulic feed control. The adjacent cutaway view illustrates many of the design features in a typical Slimline model KINECHEK. All KINECHEK models contain these same quality features, although parts arrangement will vary from model to model. Each and every KINECHEK is thoroughly tested and must meet rigid performance standards before it is approved for shipment. This is your assurance of receiving the highest possible product quality.


SLIMLINE

 The SLIMLINE KINECHEK is the original hydraulic check that has set the industry standards for compactness, reliability and constancy in feed control. It is available in stroke lengths of 1/2 inch, 1 inch, 2 inch and 3 inch; all with a 1200 lb maximum capacity. The wide selection of models described on pages 5 and 6 will provide a solution to most of your motion control problems.


SKIPCHEK

 SLIMLINE KINECHEKS can be provided with a skip feature which allows controlled feed movements to be separated with a fast feed (skip) interval. The SKIPCHEK® reduces machining times when drilling tubular sections, clevis parts, etc. Each SKIPCHEK is tailor-made to the users specifications and is available in 1/2 inch, 1 inch, 2 inch and 3 inch stroke models. Pages 13 and 14 provide design and ordering information for this model.


SUPER K

 This KINECHEK model provides the advantages of a long 4 inch or 6 inch operating stroke within a short overall length. Maximum capacity of this model is 1200 lbs. Pages 9 and 10 provide specification and dimensional information for this model.

MINI K

 This smallest KINECHEK provides the advantages of a precise hydraulic feed control in an extremely small size. Leak proof and fully adjustable, the KINECHEK MINI K is available in 1/2 inch, 1 inch and 1 1/4 inch stroke lengths with a maximum capacity of 400 lbs. See pages 7 and 8 for specification and dimensional information.

PECK-CHECK

 PECK-CHECK® clutching is available for deep hole peck drilling. Contact factory for information on this and any other special needs. Ask for bulletin S-62.

KINECHEKS®

CUSHION-START

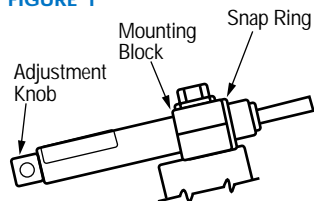
The CUSHION-START® KINECHEK is a combination impact absorber and hydraulic check. The impact absorbing feature called "Cushion-Start" is a safeguard for those applications where a fast moving machine element must be abruptly decelerated, then permitted to continue its movement at a constant speed. The first portion of the unit's stroke is used for cushioning, while the remaining stroke will control the speed of any load with the same uniformness as regular Kinecheks. The cushioning feature is normally supplied only in the SLIMLINE family of units. See pages 11 and 12 for specification and dimensional information on this model.

SLOW RETURN

The SLOW RETURN KINECHEK will control the speed of a load pushing on the plunger rod exactly the same as a regular KINECHEK. However, the automatic return action of the plunger rod is slowed by a fixed restricting orifice added to the unit's internal flow passages. The time required for the plunger rod to extend ranges from 6 seconds to 22 seconds per inch of stroke for the models listed. This return time depends upon the orifice size built into the unit. Other times are available upon request. This feature is very helpful where automatic extension of the plunger rod would interfere with a second operation. Pages 11 and 12 provide specification and dimensional information on this model.

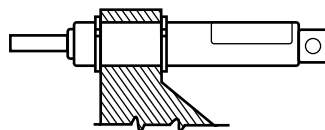
MOUNTING ARRANGEMENTS

FIGURE 1



Mount on flat surfaces with mounting block at either snap ring groove or between snap ring grooves. Thrust is taken by snap ring furnished.

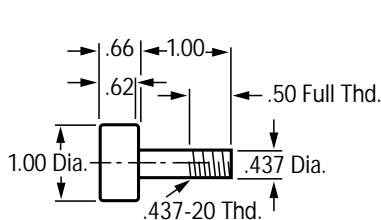
FIGURE 2



Can be mounted in round holes and retained by snap rings in light duty installations. If application is severe, body should be clamped radially by split mounting to prevent body working in hole. Set screws must not be used.

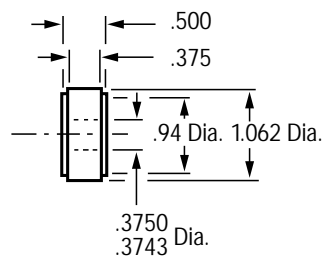
ROLLER (ACCESSORIES)

FIGURE 3



Cantilever Roller No. A10131

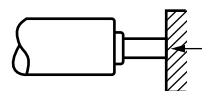
FIGURE 4



Roller No. A10331

IMPORTANT

FIGURE 5



End of Kinecek plunger is hardened for wear resistance, and should, whenever possible, be butted directly against any straight moving body. Load should never slide on end of plunger or cause plunger to twist during its stroke.

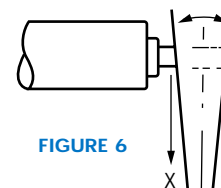


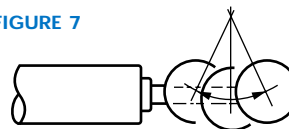
FIGURE 6

Plunger may contact swinging levers if service requirement is very light. Angularity of lever must not put a right angle load on plunger at X greater than the maximum values shown in the chart below.

MAXIMUM RIGHT ANGLE LOAD AT X:

Kinecek Model	Stroke	Max. Load
Mini K	1/2, 1 or 1 1/4	4 lbs.
Slimline	1/2 or 1	20 lbs.
Slimline	2 or 3	10 lbs.
Super K	4 or 6	10 lbs.

FIGURE 7



However, for longest life with swinging levers, install roller on lever so roller contacts flat end of plunger during entire stroke of plunger. Rollers A10131 and A10331, illustrated in figures 3 and 4, are suitable for this purpose.

Safety Stop – For quickest plunger return after a working stroke, and to protect KINECHEK, provide a solid stop to stop the moving load approximately 1/32" before KINECHEK plunger reaches bottom of its own stroke.

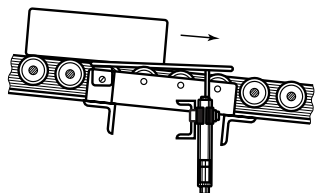
KINECHEKS[®]

TYPICAL KINECHEK APPLICATIONS



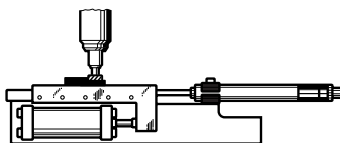
KINECHEKS are very adaptable and are used in a wide variety of applications. Please consult factory if you have any questions regarding the use of a KINECHEK in your application.

FIGURE 8



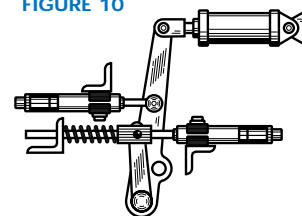
KINECHEK stops load moving on conveyor, then allows load to continue after KINECHEK plunger is depressed.

FIGURE 9



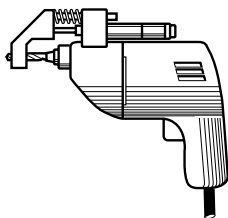
CUSHION-START KINECHEK cushions, then controls feed rate of slide operated by an air cylinder.

FIGURE 10



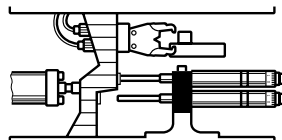
Upper unit controls speed of air cylinder. Lower unit slows return of spring operated lever.

FIGURE 11



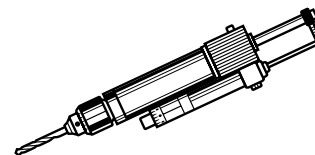
KINECHEK MINI K used to control feed rate of hand held drill.

FIGURE 12



Two KINECHEK SUPER K units permit fast insertion by robot with slow completion of operation.

FIGURE 13



Drilling machine controlled with KINECHEK may be operated in any position.



Every hydraulic unit is fully guaranteed against defects in workmanship or material. Within one year from the date of shipment to the original purchaser, any unit which has proven defective will be repaired without charge, F.O.B. factory, when unit is shipped prepaid to factory. The Company is not responsible for any damage resulting from tampering, abuse, or incorrect application.

The Company's liability on any claim of any kind including negligence, for any loss or damage arising out of, connected

with or resulting from the design, manufacture, sale, delivery, resale, installation or installation advice, inspection, repair, operation, or use, of any equipment described herein shall in no case exceed the price allocable to the equipment which gives rise to the claim, and shall terminate four years after the date of original shipment. The purchaser, by acceptance of any of the Company's products described herein, assumes all liability of the consequence of the use of those products.