

# THE GRASS IS ALWAYS GREENER WITH K-LINE IRRIGATION...





# ...ON YOUR SIDE OF THE FENCE.

## The simple facts about irrigation.

Good irrigation is getting the required amount of water to the required area of pasture or field with as little cost and as little effort as possible. However, nothing is as simple as it should be.

Working to achieve the ideal balance you'll have to consider such things as: the rate of application; the cost of running your irrigation system; the efficiency of application, not to mention the capital cost of setting up, running and upgrading or expanding your irrigation system.

All of these factors can contribute to an efficient system or a white elephant.

First, the rate of application. A lower rate of application over a longer period of time ensures maximum absorption and helps maintain an excellent balance between the plant and its soil environment. Good irrigation is more than just throwing as much water as you can at the area as fast as you can. You need a simple, flexible system that you can control.

Next, running costs. Higher running pressures using higher pressure rated pipes and pumping systems equates to higher running costs. It all adds up to a lot of expensive equipment which is costly to use. And don't forget the labor! Labor costs can add up to a large portion of ongoing irrigation expenditure. Your time is too valuable. You need a simple, flexible system which is inexpensive to install, cheap to run and above all easy to use.

Finally, consideration must be given to your existing farm layout and the expense of any alterations required to install your new irrigation system. Existing paddocks, field layouts, water ways and farm lanes all require a tremendous effort to remove or relocate. You need a simple, flexible, easy to fit system that doesn't turn your farm upside down.

**In a few words, you need the ideal irrigation system.  
It's called K-Line Irrigation.**



# Easy Shifting

It should be clear by now that K-Line Irrigation is a truly simple and effective system. And that's also true when it comes to shifting the lines. The unique skid characteristics of the pod and the shifting process have been carefully designed so that, when done correctly, the shifting process places no extra stress on your ATV or other vehicle. The process works for paddocks or fields of all shapes and sizes.

The simple process is as follows:

Go to the far end of the sprinkler line (point (A) in FIG 2). While still on your ATV slow down facing the direction you intend to go. In one easy movement, hook onto the sprinkler line, line yourself up with the marker at the other end of the field (point (B)) and drive to the other end. Unhook and repeat shifting process in the next paddock or field.

When the field has been irrigated completely (point (C)), disconnect the sprinkler line from the feed line, tow the sprinkler line back to the starting position (FIG 3), reposition feed line, connect to the sprinkler line and you're ready to start the irrigation rotation again.

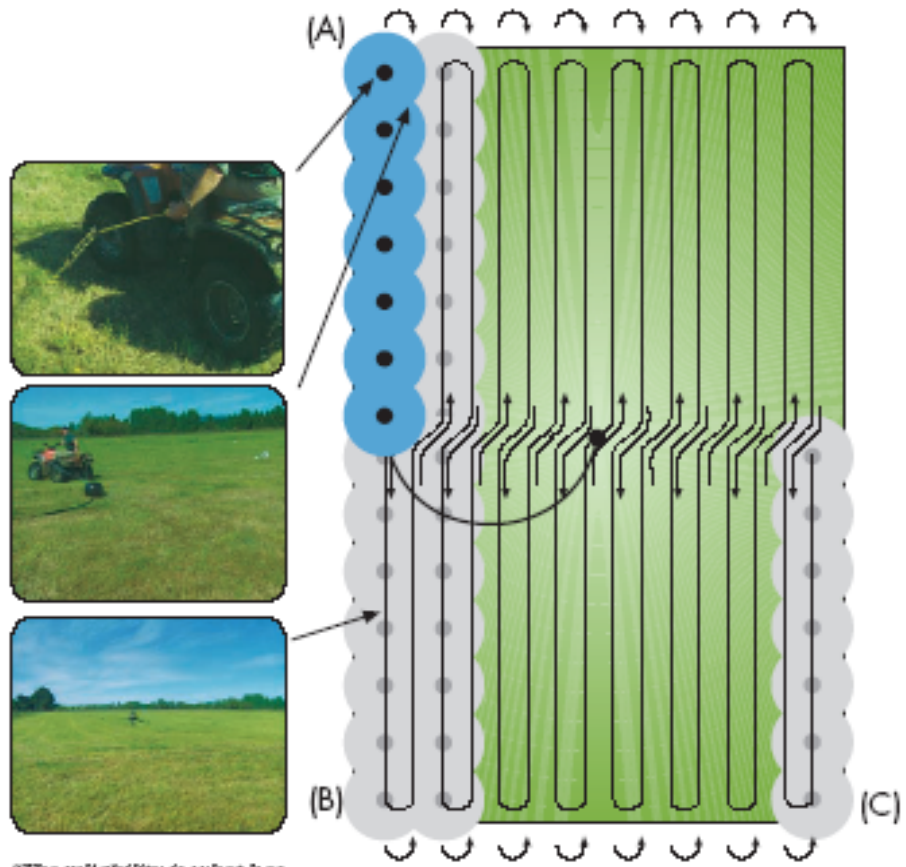


FIG 2  
Shifting rotation within a typical field

*"The reliability is what has impressed me."*

*"We have two farms - the dairy farm is 400 acres and irrigated with K-Line Irrigation and shifting takes 2 to 2 1/2 hours. The other at 300 acres takes about an hour with better layout and flatter terrain."*

*"With our old system ..we were pooling water in the hollows. That's disappeared using K-Line Irrigation."*

K-Line can be shifted easily over all sorts of terrain including undulating fields and hillsides.



*"K-Line Irrigation's fantastic on the hills. Pretty much anywhere you can go on your ATV, you can go with K-Line Irrigation."*



*"I find K-Line Irrigation very easy to use. I was able to complete the installation myself. We've added onto it just by booking on additional lines when we need them."*

Starting position

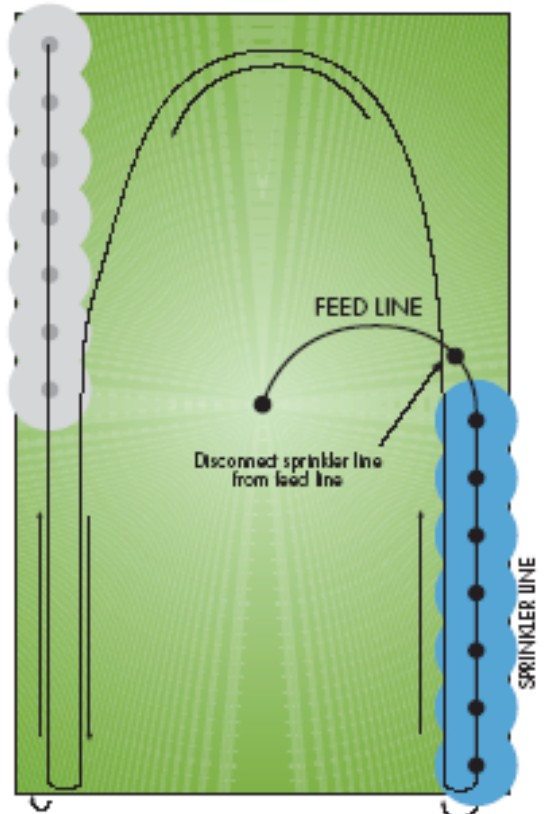


FIG 3  
Resetting to starting position

*"K-Line Irrigation has really proved itself. Why pay twice as much for some other systems, when you get a much better result using a simple K-Line Irrigation system."*



# Why K-Line Irrigation is so good.

The major benefits are:

- Low capital cost.
- Ease of installation, use and shifting.
- Suits ALL types of terrain.
- Best possible use of available water supplies.



Other, but still very important, advantages:

- Cost flexibility: can be installed initially on a small scale, and then expanded as budgets allow.
- Suits properties from 1 to 1000 acres.
- Effective on flat, undulating or even hilly ground, as the feed and sprinkler lines follow the contours of the land.
- Less investment in underground networks. Mainlines can be reduced at the extremities, branch lines reduced in size and no hydrants required.
- Minimal irrigation time lost during shifts. Each line can be moved in minutes, while they are still operating.
- Shifts can be done quickly with your 4 wheeled drive ATV or available vehicle.
- Low maintenance costs. The only moving parts are the sprinklers, pumps and valves.
- You can add new lines to existing systems with ease.
- Low energy requirements.
- Application up to a 24 hour period maximizes absorption with little or no run-off.
- Crops up to 24 inches tall can be irrigated.
- Livestock is not affected.
- No storage required. Lines and pods can be left in the paddock or field.
- Simply disconnect and move the lines to the fence when mowing, cultivating or harvesting.



*"K-Line Irrigation is so simple and doesn't get in the way ..we can still run our stock in the same field while it's operating. We can even shift it without worrying about the bent."*



*"I've never irrigated because all the equipment that was available was too labor intensive and too time consuming. Until K-Line irrigation came along."*



*"They can get into areas the big irrigators can't."*

*"The low application rate means we get no run-off. It's all absorbed."*





# What is K-Line Irrigation?

K-Line Irrigation is a revolutionary flexible hose line sprinkler irrigation system designed to reduce the time and money you spend on irrigation.

At the heart of the system is a series of small, tough plastic pods protecting a small sprinkler firmly attached to special K-Line Irrigation low density poly pipe. The system can be run on low pressure and is designed to distribute water on a slow absorption method for up to a 24 hour period, firstly to eliminate the need to shift irrigation several times a day and, secondly, to allow maximum absorption into the soil, reducing run-off and pooling. K-Line Irrigation uses less water more effectively. K-Line Irrigation is also very flexible. Variables such as running time per day/night, rotations, application rates etc., can be easily adjusted to suit your farm management style. Stock can also continue to use the paddock or field being irrigated.

Each field has its own sprinkler lines, customized to suit the size and shape of the field, and is run simultaneously depending on water supply. However, you don't need to run them all at once. You may choose to run only what's needed, or what's available depending on your water supply. The small, flexible, strong, lightweight lines can be shifted in only minutes by a 4 wheel drive ATV, simply by driving across the field.

## What you need.

What's involved with installing K-Line Irrigation?

The process starts with a visit from your K-Line Irrigation dealer to plan your new system. They will examine the shape and size of your property, land use, the quality and quantity of the water supply, irrigation rotation and the soil types involved. Advise them of your needs and they will determine the scale of your system. Together, with a hydraulic analysis, water pressure requirements, pump sizes, power systems and budget, your options can be determined.

Typically, the water supply requirements for K-Line Irrigation are similar to any other piped irrigation system, although with the K-Line Irrigation (slow absorption method) many farmers are saying that every gallon of water applied goes much further. However, the overall energy requirement should be much less if the distribution pipes are sized correctly. Pumps should be sized to suit the maximum number of sprinklers expected to be operating at any given time. You'll need a network of distribution mainlines to deliver the water to each field (FIG 1). The size of these pipes can be reduced as the number of fields fed progressively reduce and get further away from the pump source reducing the cost of mainline piping. The mainline terminates with a single riser or risers depending on the size of each field.

The feed lines (FIG 3) connect to the isolation valve at the riser, and are customized depending on the size and shape of the field. The sprinkler lines are also customized for the field, using 40mm and 32mm special K-Line Irrigation low density poly pipe. The K-Line Irrigation pods are then fitted using the quick attaching saddle.

The K-Line Irrigation sprinkler units consist of a sprinkler, a specially designed tapping saddle and a tough protective housing (pod). The pod serves many purposes, such as protecting the sprinkler, keeping the sprinkler upright and stopping the crop interfering with the sprinkler action.

Assembly is so simple many people choose to install the feed and sprinkler lines themselves. Of course, the UV protected, tough, polyethylene used ensures a long product life in all weather conditions.

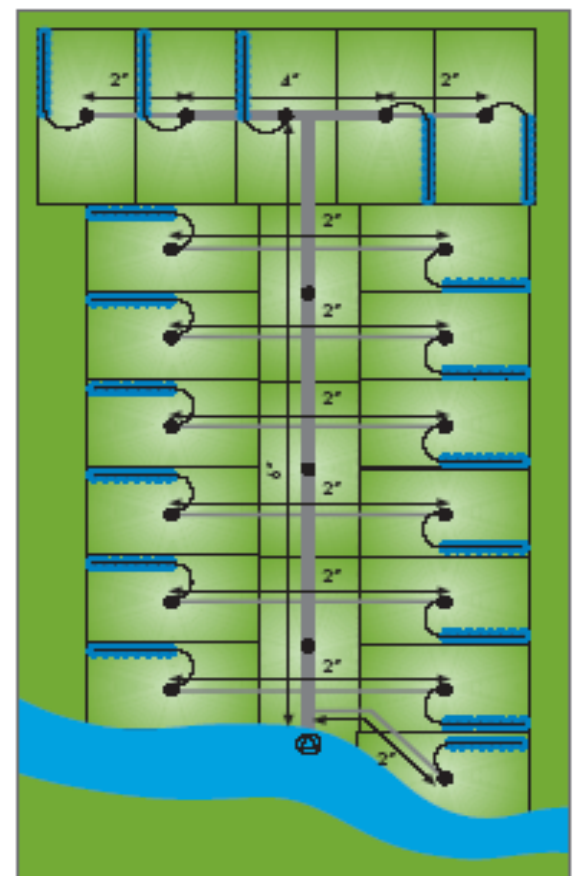


FIG 1  
Typical farm layout showing distribution lines and reducing pipe sizes

# **K-LINE IRRIGATION**

## **USES LESS WATER**

### **AND**

## **USES IT MORE EFFECTIVELY!**

Your K-Line dealer:

'K-Line Irrigation' is a registered trademark and the K-Line Irrigation system protected by  
NZ PAT No 331985, AU PAT No 734210, US PAT No 6398131, US PAT No 6601775, ZA PAT No 2001/2856, CA Pat Appl No 2344281;



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K-Line Irrigation is manufactured by RX Plastics Ltd., New Zealand. Also manufacturers of Pipe and Fitting Systems, Tanks, Custom Rotomoulding and Valves.  
Specifications and equipment are subject to change without notice or obligation on the part of the manufacturer. October 2000. © 2000 RX Plastics Ltd., New Zealand.