DRAGON-LINE®

MOBILE DRIP IRRIGATION

TRANSFORMS PIVOT IRRIGATION THROUGH DRIP TECHNOLOGY

- 20-50% WATER, ENERGY, AND LABOR SAVINGS
- ELIMINATES WIND DRIFT, REDUCES EVAPORATION, AND BANKS WATER INTO THE SOIL
- REDUCES WATER RUN OFF, SOIL COMPACTION, AND CRUSTING
- ELIMINATES WHEEL TRACK ISSUES
- APPLY FERTILIZER AND WATER PRECISELY TO THE SOIL THROUGH DRIP TUBING
- FOLIAGE STAYS DRY, REDUCING POTENTIAL FOR PLANT DISEASES AND INSECT INFESTATION
- ELIMINATES PLANT SHOCK FROM SUDDEN TEMPERATURE CHANGES
- ADJUST MANIFOLD PLACEMENT LEFT OR RIGHT FOR PRECISE PLACEMENT OF TUBING FOR GERMINATING SEEDS NOT WEEDS
- ADJUST MANIFOLDS VERTICALLY TO FIT ALL CROP HEIGHTS
- ACCURATE WATERING FOR SMALL GPM APPLICATIONS

"BRINGING PRECISE IRRIGATION TO PRECISION FARMING®"

US PAT #9,420752
WWW.DRAGONLINE.NET

WHAT IS DRAGON-LINE ?

DRAGON-LINE® patented technology, combines the efficiency of surface drip irrigation with the flexibility and economics of mechanized irrigation systems. DRAGON-LINE® is the Orange drip-line tubing co-extruded from a blend of high quality PE resin. The pressure compensating emitters are continuous self-flushing, welded to the internal wall of the drip-line, and fully operational at eight PSI. DRAGON-LINE® Emitter Tubing is attached to Dragon Flex Hose which drags completely on soil surface, thus the name "DRAGON-LINE®". As DRAGON-LINE® is pulled behind the system, the emitters deliver a uniform water pattern across the full length of the irrigated area. DRAGON-LINE® significantly reduces evaporation, soil compaction, wind drift and wheel tracks.

FILTRATION METHODS

80/120 MESH FILTRATION AND A WATER SAMPLE ARE REQUIRED ON ALL SYSTEMS. FILTRATION METHODS OF AUTOMATIC, SEMI-AUTOMATIC AND MANUAL WILL VARY BASED UPON WATER QUALITY.

4" Automatic

8" Automatic (mobile)

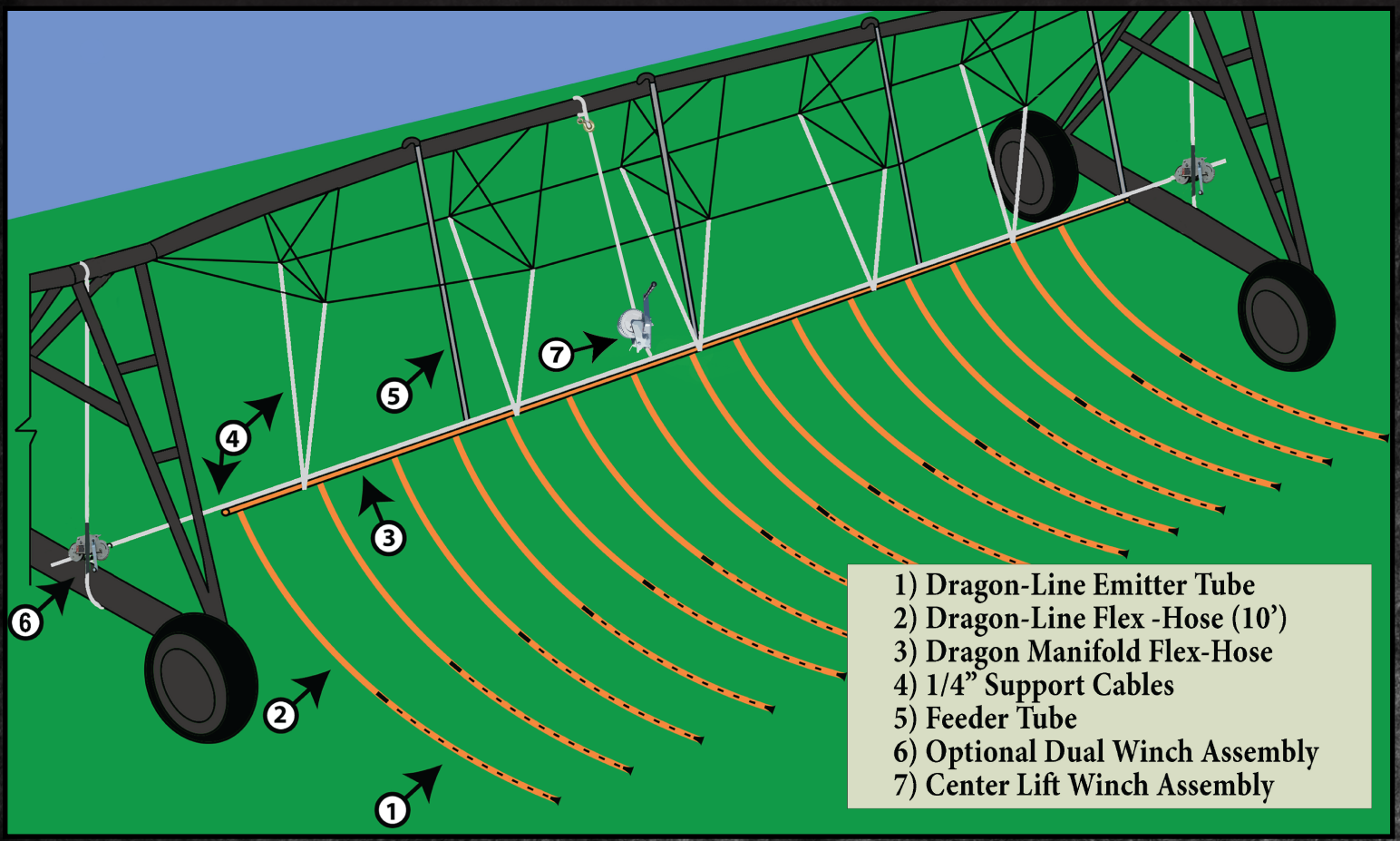
Semi Automatic

Automatic

Semi Automatic Brush-away With Sand Separators

"With the declining water supply and the escalating need to conserve water, implementing efficient irrigation methods like Dragon-Line® will help prolong the life of our water sources for future generations."

HYBRID WINCH SYSTEM



INTRODUCING DRAGON-LINE® NEW HYBRID STYLE!

The manifold is fully adjustable to adapt to any crop height or crop rotation with our new V-jack Cable Hook Assembly and the Dual Winch System. Both allow the manifold to be adjusted left and right for precise placement of the Dragon-Line drip tubing for germinating seeds, not weeds. The manifold can be raised and lowered as the crop grows or for crop rotation. Unparalleled adjustability throughout the season is achieved with the DRAGON-LINE (MDI) HYBRID SYSTEM.

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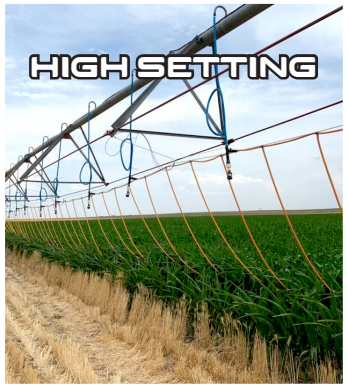
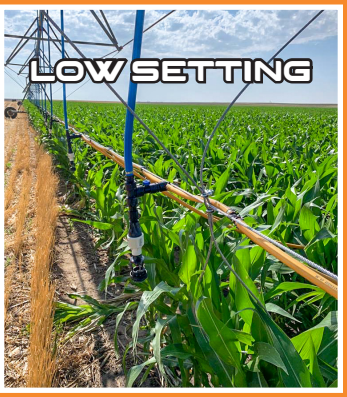
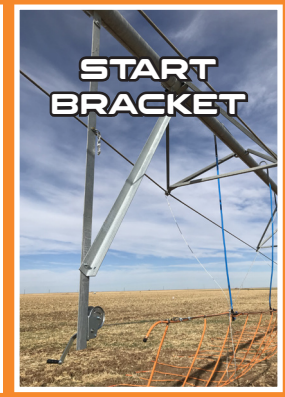
NEW R.T.I (READY TO INSTALL) DRAGON-LINE® KIT

- **Complete 122 AC/50 HA Dragon-Line Hybrid system packaged in a single crate.**
- **Everything needed is pre-cut and assembled for quick install with easy to read manual**
- **Ready to ship world wide from Kansas, USA.**

FEATURES OF HYBRID SYSTEM







FEATURES NEW TOWER TERMINATION ASSEMBLY

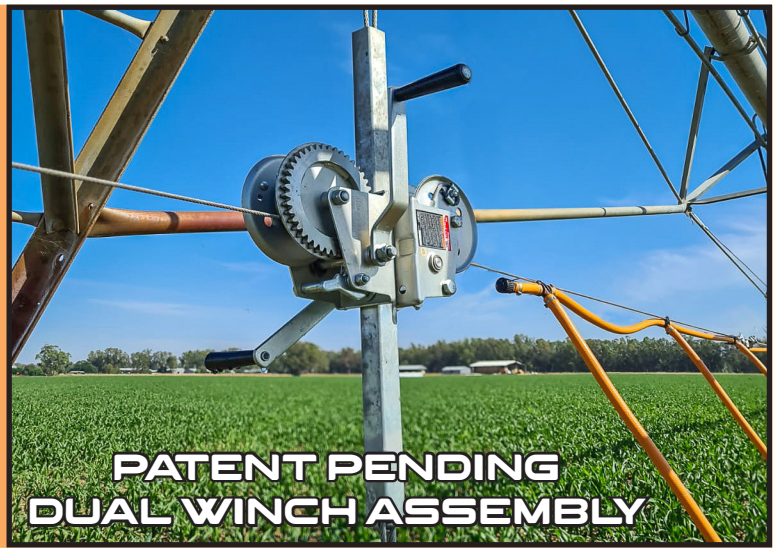
- Precut and assembled cable with Turnbuckle and clamps.
- No cutting and measuring cable around tower to base.
- Incorporates easy use of dual winch positioning.

FEATURES NEW V - JACK HOOK ASSEMBLIES

- Precut and assembled V-Jack Cables with hooks.
- Easily installs without use of ladder and cutting cable, and cable clamps to adjust at truss rods.
- Easily moved from system to system for speciality crops.

FEATURES NEW DUAL & VERTICAL WINCH ASSEMBLY

- Adjusts tubing manifold horizontally (left or right) for precise placement during growing season.
- Adjust tubing manifold vertically for different height adjustment for taller and shorter growing crops.
- Allows to pre-water in a strip, plant in same strip, germinate in planted strip, and then winch over inches as crop emerges.
- Fertilizer and water delivered in predetermined strips directly to the soil and not on foliage.



EVAPORATIVE LOSS BY SOIL TEXTURE AND AMOUNT OF SURFACE WATER APPLIED ON BARE SOIL

Results for applying (30.5mm) 1.2" of water per irrigation in spring watering.

Then measured the loss readily evaporable water over 1 to 2 days during a two year study.

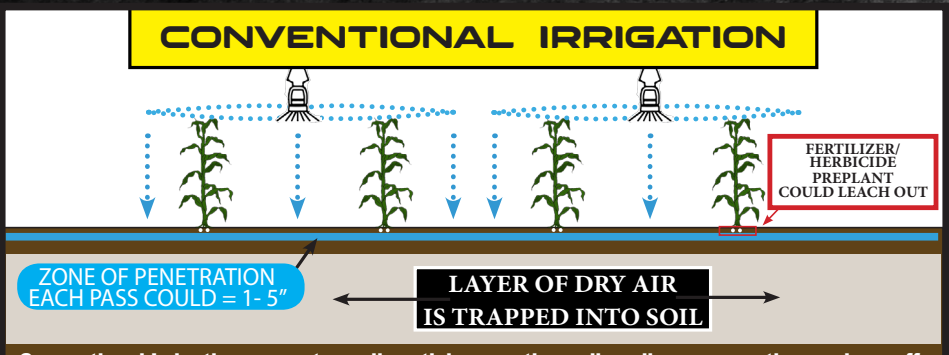
-Clay Loam (Pullman), Bushland	0.67 to 0.79 inch	**(55% - 65% Loss)**
-Silt loam (Ulysses), Garden City	0.60 to 0.70 inch	**(50% - 58% Loss)**
-Sandy loam (Amarillo), Big Spring	0.47 to 0.60 inch	**(39% - 50% Loss)**
-Fine Sand (Vingo), Dalhart	0.27 to 0.32 inch	**(23% - 27% Loss)**

TOTAL EVAPORABLE WATER (ON AVERAGE)

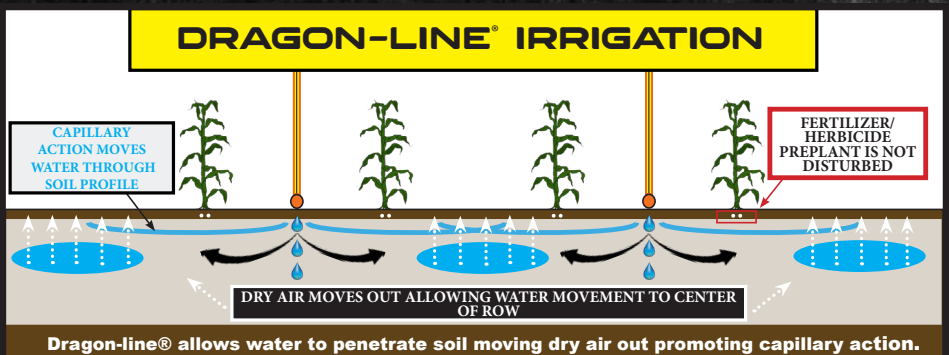
47% loss of water with each irrigation application of more than 1.2 inches

72% loss of water with each irrigation if application is less than 1.2 inches

Source: Tolk, J.A. and S.R. Evett. Field-measured, hourly soil water evaporation stages in relation to reference ET and soil to air temperature ratio. Submitted to Vadose Zone J.



Conventional Irrigation separates soil particles creating soil sealing, compaction, and run off.



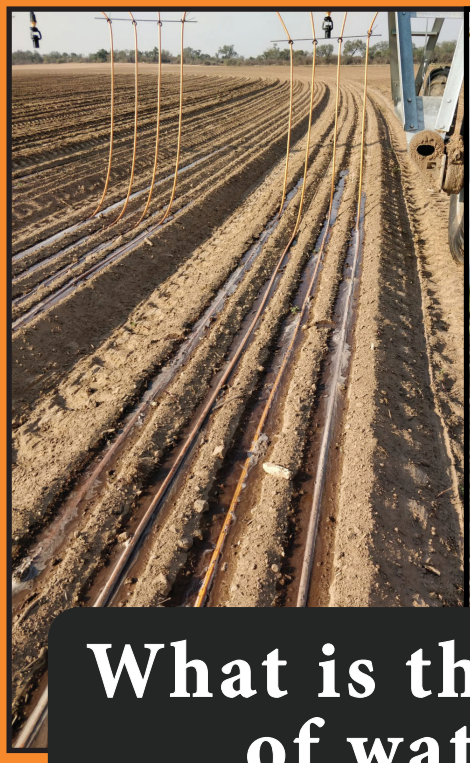
Dragon-line® allows water to penetrate soil moving dry air out promoting capillary action.

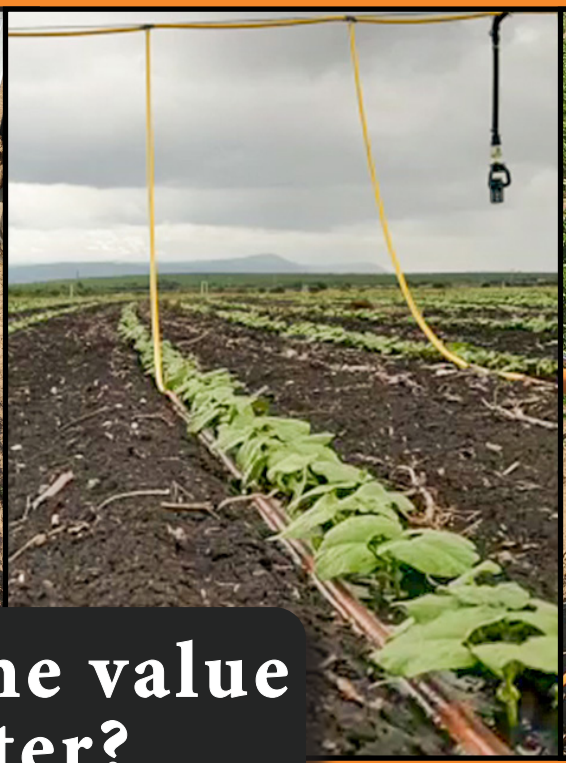
Conventional Irrigation

concentrates water application into a small wetted area at a very fast delivery rate. Water melts and separates soil particles in a 3" to 5" depth of application and traps dry air into soil. Until air moves out, water will not soak in. (See photo above) This compounds sealing and compaction issues every-time water is applied.

DRAGON-LINE® Irrigation

is the complete opposite of conventional watering. Water application is distributed in long thin strips, allowing water to be pulled into the soil as air moves out with the natural process of "Capillary Action". Soil particles are not disturbed. Soil remains mellow throughout the watering season.





What is the value of water?

"When the well is dry, we know the worth of water." -Benjamin Franklin

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DRAGON-LINE MADE IN KANSAS, USA
SHIPPED WORLD WIDE

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SCAN WITH YOUR CAMERA PHONE

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