

HYDRO TRAVELER

For more profitable farming



HYDRO TRAVELER

*Easy To Operate—
Gets the job done
with less effort.*

Designed with these specific objectives in mind:

SAVE LABOR

It irrigates 20 acres per day with only two man-hours of labor.

ONE MAN OPERATION

Because of the Traveler's compact design.

BETTER WATER DISTRIBUTION

It covers up to a 10% wider strip of land per pass than competitive equipment, also because of its gradual and uninterrupted movement across the full length of the plot, the full width is covered uniformly.

EASIER MANEUVERABILITY

Because of the tricycle design, it is much simpler to move around between the lanes.

Developed by Hydro Engineering, a firm with years of experience in large well drilling, as well as selling, servicing and installing all types of irrigation systems, both large and small, throughout the upper Midwest.



POSITIVE ENGINE HYDRAULIC DRIVE

- Allows wide range of speed settings—from a light rain to a soaking.
- Allows machine to operate with any amount of water. Does not depend on volume of water to operate drive mechanism.
- No pressure loss through drive system—simple travel speed control.

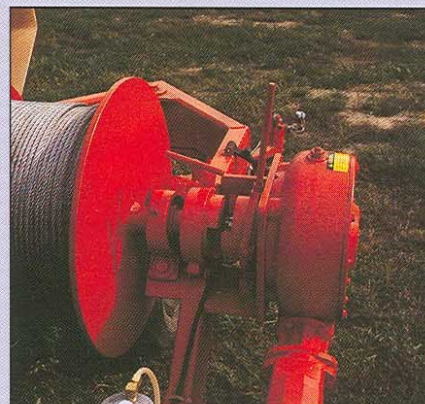


FINGERTIP CONTROL

Control of movement across field for just the right amount of water application.



- Operates at even speed through run regardless of uphill, downhill, or tough conditions.
- Tough proven 14 HP Cast Iron Kohler Engine with external ignition parts for easy service. Oil reservoir keeps crankcase full—is economical to operate—uses less than 2 quarts per hour fuel consumption.



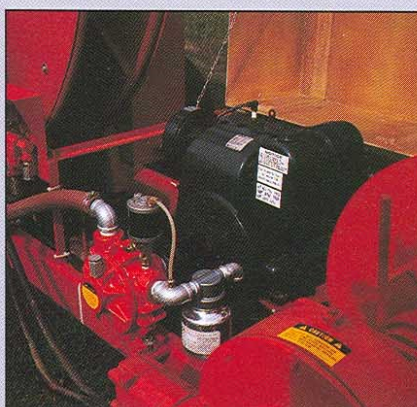
SIMPLE CLUTCH ARRANGEMENT

No pins or bolts. Merely shift into gear—positive drum brake.



POSITIVE END OF RUN SHUT-DOWN

System is shut-down at any predetermined spot by a positive electrical switch.



AIR PURGE

This is standard equipment on Hydro Traveler—extends hose life, as it removes the water before it is reeled in. Simple clutch arrangement without dangerous PTO shaft to connect.



THE OPTIONAL WINDROWER

This accessory allows the operator to lay the hose off to either side of the Traveler run way.

HYDRO TRAVELER

- Covers a wider swath per pass than most makes.
- Unique design produces more uniform water distribution.
- It's all one unit—means a one-man operation.
- Infinite speed range—0 to 8 ft. per min.—fingertip control.
- Automatic limit stop—set by operator.
- Tricycle design provides easy maneuverability.



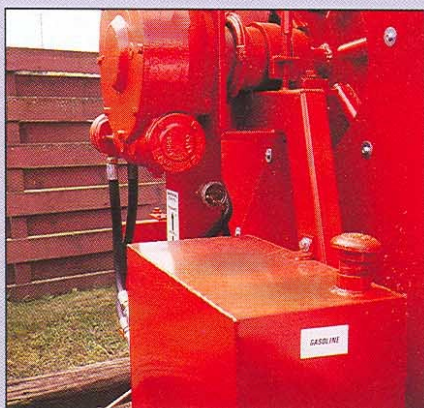
TWIN RISER DESIGN

Reduces water turbulence that accounts for wider lane spacing than competitive equipment. Allows Hydro Traveler to use a lower angle gun than most competitors, as complete water break-up is accomplished.



THE STANDARD HOSE COUPLER

Requires NO special tools or banding.



PUMP PRESSURE SWITCH

Eliminates dry run as system shuts down if water pump malfunctions.

UPRIGHT REEL

Operated with one lever—no dangerous power take-off shaft to hook-up. Reversible—power take-off reels can not be reversed. Easy on hose as there is no scuffing of the hose on wind up. Friction brake stops back lash when rolling out hose.

OPTIONAL

Hose Windrower allows hose to be laid to either side of the lane so hose is out of the travel path of machine.

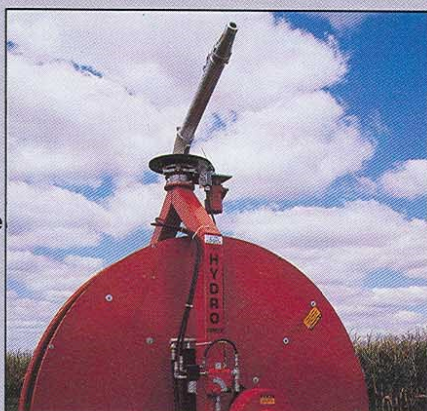


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THE HYDRAULIC ATTACHMENT

Replaces the normal drive mechanism of the Big Gun to give positive drive in all types of slurry. Any part of a circle can be adjusted with ease. No pressure required to operate the gun.



NO RESTRICTIONS

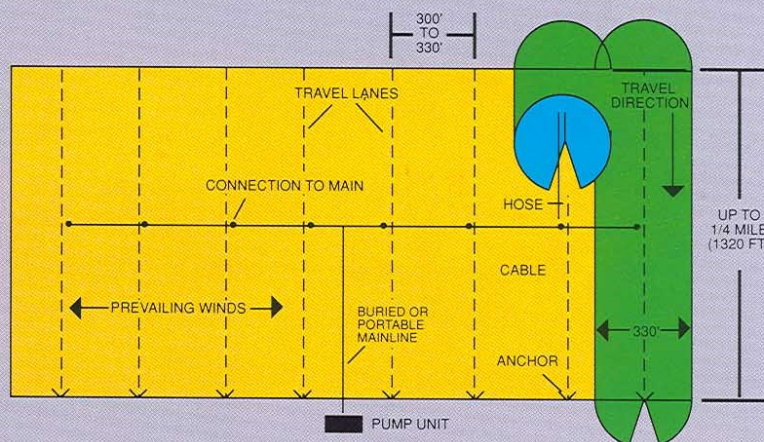
There are no restrictions as there are in a water drive system. Any material that can be pumped will pass through system, such as liquid manure.



TYPICAL HOSE CONNECTION



HYDRO TRAVELER ON 80 ACRES



SPECIFICATIONS

Length (for transport)	10'
Height (without gun)	10'
Weight of complete unit	2,100 Lbs.
Hose standard length	660'
Approximate shipping weight of hose	790 Lbs.
Cable	3/8" x 1,400'
Hydraulic oil tank capacity	16 Gallons
Gasoline tank capacity	16 Gallons

TYPICAL SPEED & WATER APPLICATION RATES

WATER APPLICATION AT VARIOUS SPEEDS					
GPM.	LANE SPACING	TRAVEL SPEED—INCHES/MIN.			
		12"	18"	24"	30"
450	330'	2.2	1.5	1.1	.87
500	330'	2.4	1.6	1.2	.97
550	330'	2.6	1.8	1.3	1.1
600	330'	2.9	1.9	1.5	1.2
TRAVEL TIME HOURS FOR 1320' RUN		22	14.5	11	8.8

WATER MEASUREMENTS	
ONE ACRE IN. PER 1 HR.	452.6 GPM
ONE ACRE IN.	27,154 Ga.
ONE ACRE FOOT	325,850 Ga.
ONE ACRE FOOT	43,560 Cu. Ft.
ONE CUBIC FT. PER SECOND	448.83 GPM
ONE ACRE	43,560 Sq. Ft.

DISTRIBUTED BY

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