

MOBILE MOVE SYSTEM

SELECTION GUIDE



Why a Zimmatic Mobile Pivot?

- **You have dryland fields that could produce more – but wonder if you can justify an irrigation system.**

Zimmatic Mobile Pivots make it practical to irrigate in situations where you wouldn't consider the installation of separate systems. And because they do, you can apply water at just the right time to fields where crops are normally a dryland gamble.

- **You're irrigating with solid-set or a traveling gun and you want to cut your time and labor costs.**

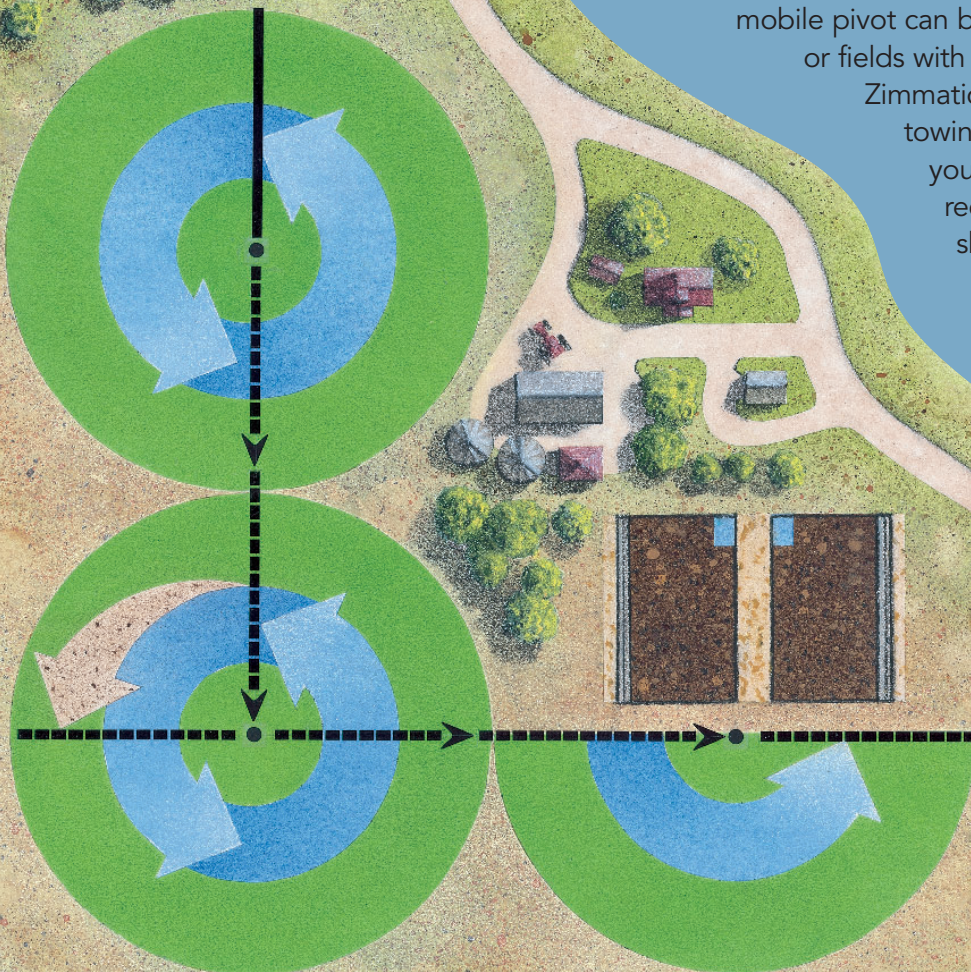
Compare the ease of moving a Zimmatic Mobile Pivot with the time you spend dragging pipe and/or pulling hose. Also compare what you gain in ability to control application more precisely and automatically, including the versatility of adding chemicals through the system.

- **You're adding or replacing a pivot near other fields that could be irrigated.**

Instead of installing a fixed pivot system consider the possibility of using a Zimmatic mobile pivot to handle both your "main" field and for supplemental irrigation to boost production on nearby fields.

- **You want to spread your irrigation investment over as many acres as possible.**

The diagram below shows how a single Zimmatic mobile pivot can be used to handle multiple fields or fields with irregular boundaries. Your Zimmatic Dealer can help you plan a towing pattern to accomplish this for your operation. In addition, he can recommend which of the models shown at the right will give you the most versatility.



Three Versatile Choices for Multi-Field Irrigation



TWO-WHEEL AGRI-TOW

- Two-wheel pivot point rotates with the pipeline around a fixed anchor pad
- System is always in position for towing in any direction
- Fast, easy hook-up, ideal for frequent moves to small fields

FOUR-WHEEL MOBILE

- Top choice when pivot point locations are in a straight line
- Tongues can be attached at both ends of the pivot cart to simplify back-and-forth towing
- Four-wheel design adds stability for towing and provides secure anchoring for reliable operation



THREE-WHEEL MOBILE

- Three-wheel pivot point design swivels easily for towing in any direction
- Great for irrigating larger fields, up to a quarter section, that are not in a straight line
- Held securely in place with earthen or concrete pad anchors

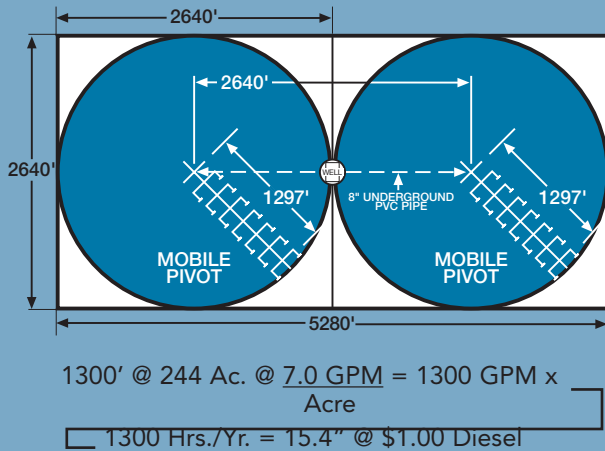


SYSTEM TYPE	TWO-WHEEL AGRI-TOW	THREE-WHEEL MOBILE	FOUR-WHEEL MOBILE
Field Size	Up to 40 acres (16 ha)	Up to 160 acres (65 ha)	Up to 160 acres (65 ha)
Maximum Length	660 feet (200 m) 4 towers	1,350 feet (411 m) 10 towers	1,350 feet (411 m) 10 towers
Towing Capability	Can be towed any direction and configured for reverse tow	Can be towed any direction and configured for reverse tow	To be towed in a straight line from the four-wheel cart only
Power Supply	On-board diesel engine and generator set	On-board diesel engine and generator set or commercial power	Trailer-mounted stationary diesel engine generator set or to commercial power

Zimmatic Mobile Pivots

Spread Equipment Costs Over More Acres.

ONE QUARTER SECTION MOBILE PIVOT 320 ACRE PLOT/244 ACRES IRRIGATED



7 Spans (Mobile Pivot): of 179' x 6 5/8", w/8HP, 5KW Gen. Set, 44' Overhang

System End Pressure	15 PSI
System Pressure Loss @ 1300 GPM	25 PSI
Pivot Structure Loss (12')	5 PSI
8" Main Line Loss @ 1320'	13 PSI
Well @ 200' Static	87 PSI
Total	145 PSI

Hyd. HP = 1300 GPM x 145 PSI ÷
 1714 ÷ 0.85 eff =129.4 HP (Pump)
 Gen. HP = 7 Spans – 5KW x 1.68 =8.4 HP (Elec.)
 Use 138.0 Total HP

$$\frac{138}{\text{HP}} \div \frac{18}{\text{Gal./HP HR}} \times \frac{1300}{\text{Hrs.}} = 9,967 \text{ Gal./Yr.}$$

$$\frac{9,967}{\text{Gal.}} \times \frac{\$1.00}{\$/\text{Gal.}} = \$9,967.00/\text{Year Energy Cost}$$

$$\begin{aligned} \$9,967.00 \div 244 \text{ Ac.} &= \$40.85/\text{Ac.} \\ (\$40.85 \div 15.4") &= \$2.65/\text{In.} \end{aligned}$$

1 – 1300' Mobile Pivot	\$39,593.00
Erection @ \$2.00/Ft.	2,600.00
Freight (\$1,000/Truck x 1)	1,000.00
Underground Pipe (8" @ 2,640')	8,131.00
Power Unit @ Well (J.D. 6068T)	11,878.00
Pump, Gearhead, Bowls, 240' Column	20,440.00
TOTAL FIXED COST	\$83,642.00
ANNUAL FIXED COST (.1620)	\$13,550.00
DEVELOPMENT COST/AC	\$343.00

TOTAL ANNUAL COST	
FIXED	\$13,550.00
ENERGY	\$9,967.00
TOTAL	\$23,517.00

ANNUAL COST/ACRE
\$96.00

WE'LL BUILD A MOBILE SYSTEM JUST FOR YOU.

Zimmatic's advanced technology makes it easy for your Dealer to tailor a mobile pivot just for you. Working with our Engineering Department he can select from a wide range of design options to custom tailor your system for:

- Structural Efficiency - using the right combination of pipe sizes and span lengths
- Operational Efficiency - matching tires, drivetrain, and sprinklers for optimum performance
- Management Efficiency - with a control system that can save you time while conserving water and energy

GROWSMART CONTROL SYSTEMS

GrowSmart™ gives you multiple options for managing your mobile pivot system.

- FieldBASIC control panel — Easy-to-use, reliable manual control
- FieldBOSS control panel — User-friendly, computerized control for programmed or manual operation on three-wheel and four-wheel towable systems
- Voice Command — Remote control and monitoring via cellular phone, or business band radio

PRECISION APPLICATION

Your mobile pivot system will be computer designed with:

- Sprinklers — Rotators, sprays, wobblers or impacts to match water infiltration rate
- Drops — To minimize water loss due to wind and evaporation
- Offsets and Boombacs — To expand application area and minimize wheel tracking

For more information, see your local dealer.

