



GREENFIELD

MP400 Mini-Pivot

1 TO 70 ACRES (1 TO 30 HECTARES)



greenfield™

Economical, Powerful and Efficient

Built incredibly strong for their size, Greenfield MP400 Mini-Pivots deliver all the labor, power and water savings of traditional center pivots, but are designed to fit small applications (up to 70 acres/30 ha) with lower crop clearance.

Why a Mini-Pivot makes sense for small-field applications

SAVE TIME AND LABOR

No cumbersome pipes to move – just program it and let it do the work.

SIMPLE TO SET UP OR MOVE

No components exceed 20ft (6.1 m) in length (including span pipes), ensuring easy handling, setup and transport. Towable models convert easily from fixed to tow mode for quick movement from field to field.

EVEN SIMPLER TO OPERATE

Push-button controls and a single percentage timer allows you to manage the exact speed and amount of water applied per cycle.

ACCURATE AND EFFICIENT WATER DISTRIBUTION

Unlike flood irrigation, a center pivot machine delivers precisely the amount of water you need, where you need it.

IMPROVE YIELDS

Due to their extremely accurate distribution of water at low pressures, Mini-Pivots can give significant yield improvements without wasting water or power.

LOW ENERGY CONSUMPTION

The single-phase Greenfield MP400 Mini-Pivot requires extremely low power input, using 120V control circuitry and 90VDC motors.

TYPICAL SMALL FIELD APPLICATIONS

- Sod/turf farms
- Livestock pasture
- Alfalfa
- Hunting lands
- Vegetables
- Horse farms





STRUCTURE

- Galvanized 4" (102 mm) high-quality steel pipe with 3.8" (97 mm) ID means strength and durability while providing appropriate flow for small field applications
- Pivot and span boots rated to 150 psi (10 bar), coupled with strong span joints, allow for fluid four-way directional movement to handle varying terrain
- Proven bowstring truss design and 1/4" (6 mm) flanges bolt together for quick and easy set-up
- Computer modeling and sonic testing of structural components provides worry-free operation on slopes up to 15°

CONTROL PANEL AND TOWER BOX

- Highly versatile system with several controls options including push-button FieldBASIC (single and three-phase) or FieldVISION and FieldBOSS solid state main panels for maximum control and flexibility
- The single-phase panel is simple and easy to use, incorporating auto-restart, auto-reverse and low pressure shutdown as standard components
- Tower box features a weather-tight enclosure, worry-free alignment and is UL and CSA approved
- FieldSENTRY™ Wireless Irrigation Network lets you manage your pivot from the Internet or a cell phone (see back for details)

DRIVETRAIN

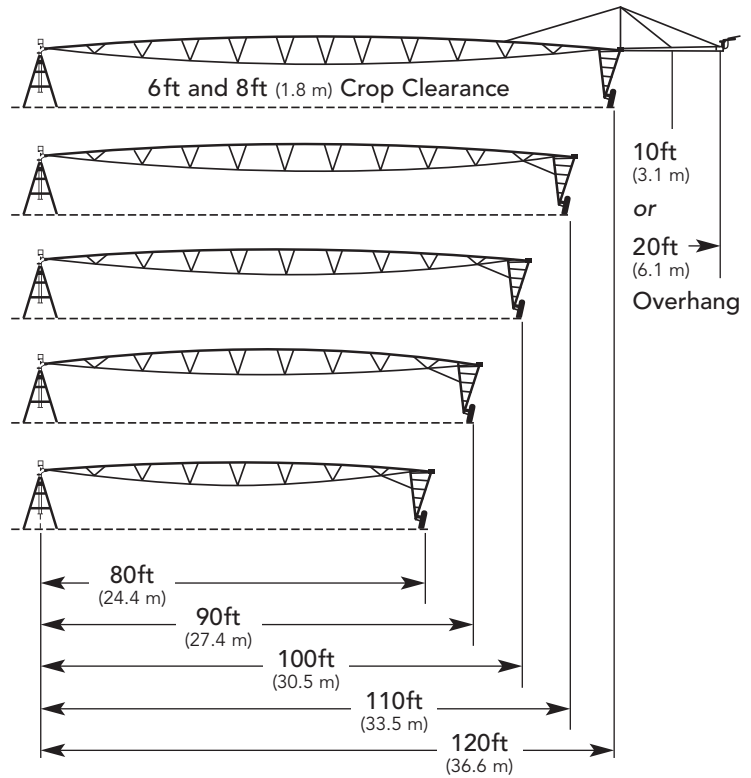
- Center-drive gear ratio matched to wheel gearbox to produce maximum torque and highest energy efficiency
- Heavy-duty fully sealed and lubricated worm-drive gearboxes are maintenance-free and eliminate the need for brakes, resulting in constant speed even on downgrades
- In-line drive design between center-drive and gearboxes delivers all power to the gearboxes for maximum power distribution and efficiency
- Flexibility in tire size and type make Greenfield Mini-Pivots ideal for sod as well as production ag applications

POWER OPTIONS

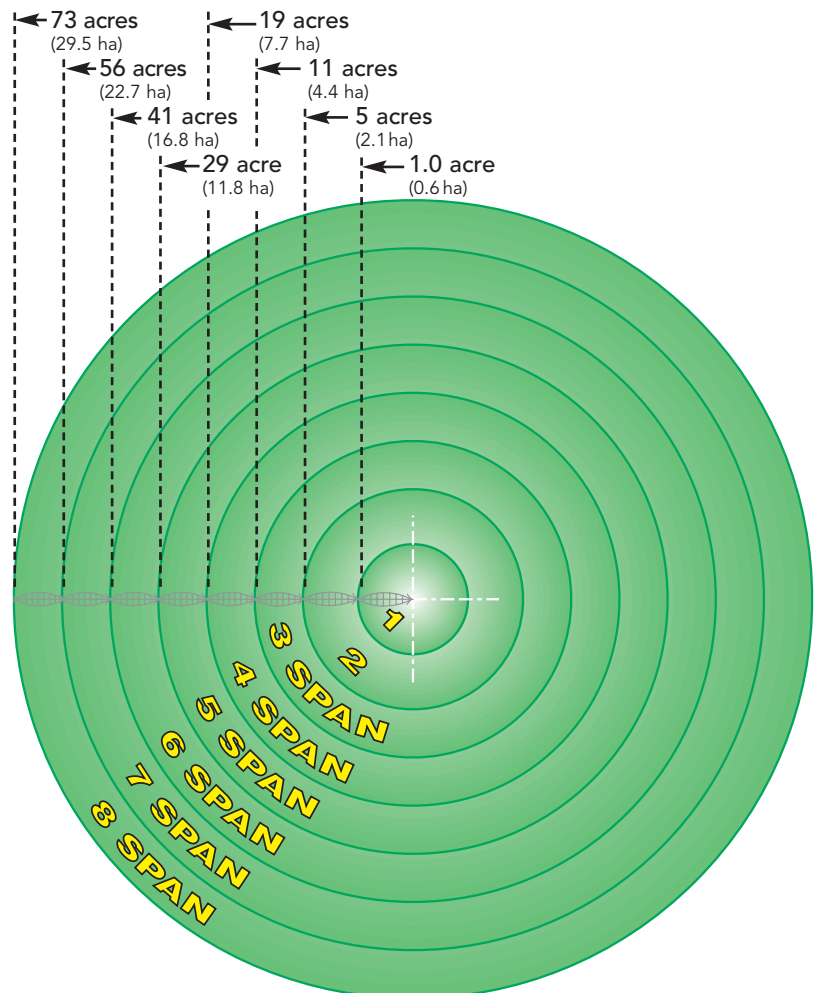
- Operates in a single-phase or three-phase environment for unmatched flexibility
- Single-phase model is ideal when three-phase is not available or too expensive to install
- Three-phase 480 V or 380 V model features 43 rpm, 1/4 HP center drive for more power in tough conditions

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OPTIONAL SPANS AND OVERHANGS



IRRIGATED AREAS*



* Irrigated area calculations are based on 120ft (36.6m) spans and a 20ft (6.1m) overhang outfitted with a Nelson P85 end gun.

(End gun performance based on 25% operating time with 28psi and 200GPM at the pivot inlet)

PERFORMANCE

- MP400 systems equipped with 12.5L-15SL (large ag tires) can irrigate a 40 acre (16 ha) field in as few as 9 hours
- Greenfield Mini-Pivots cost 30% less to operate per acre as compared to wheel lines (siderolls)
- On average the MP400 can increase crop yields by 50% when compared to gravity flow irrigation
- When compared to flood irrigation, MP400 Mini-Pivots provide even distribution and coverage resulting in efficient use of water, energy and labor

SPRINKLER/DROP PACKAGE

- Greenfield MP400 Mini-Pivots can be outfitted with drops and specially-designed sprinkler packages for customized watering of any field
- Standard 60" (1.5 m) outlet spacing provides flexible and accurate water distribution
- MP400 Mini-Pivots are compatible with Komet Twin Max, Nelson 75 or Rainbird/Nelson P85 end guns to provide even greater irrigated areas

TOWABLE MINI-PIVOT PACKAGE

- Lighter weight means the tow wheels can be rotated manually into the tow position
- Converts easily from fixed to tow mode
- A three-point hitch attachment is incorporated into two sides of the pivot column, allowing the pivot to be moved quickly and easily

SPAN LENGTHS AND OVERHANGS

- Span lengths of 80, 90, 100, 110 and 120 ft (24.4, 27.4, 30.5, 33.5 and 36.6 m) are available
- Overhangs are available in 10 ft or 20 ft (3.1 or 6.1 m) sizes
- Depending on length and number of spans, a Greenfield MP400 Mini-Pivot can handle up to 70 acres (30 ha)

INSTALLATION AND MAINTENANCE

- Greenfield MP400 Mini-Pivots are lightweight and easy to install
- No component exceeds 20 ft (6.1 m) in length – including span pipes – ensuring easy handling, installation and delivery to virtually any site when using a 20 ft flatbed trailer
- Span bolts together quickly and only comprises five structural parts
- Only minimal annual maintenance is required to keep the system running smoothly, year after year





Leadership in Irrigation Based on GrowSmart™ Technology



FieldBASIC

- Manual operation
- Limited status
- No history
- Limited options



FieldVISION

- Easiest to operate
- Visual status and information enhances irrigation management
- Simple direction plans for different forward and reverse control between two barriers
- History log and timers monitor performance and usage
- Optional field position system adds extra programmability
- Multilingual capability



FieldBOSS

- Most powerful, programmable and expandable
- Load control schedule operates during lowest electrical rates
- Advanced programmability by:
 - Future date/time
 - Day of week and time of day
 - Repeat mode
- Powerful direction-specific controls
- Control up to three accessories
- Multilingual capability



FieldNET™ real-time, Web-based irrigation management

- Networks all of your pivots, no matter what brand – and gives you access and control from any computer or phone
- The user-friendly Web portal lets you configure irrigation requirements and make adjustments quickly and easily
- Precise application of water for maximum efficiency
- Text message alerts keep you updated on pivot status

GREENFIELD DEALERS: THE IRRIGATION PROFESSIONALS

Stop by your friendly, knowledgeable Greenfield dealer for sales, service, parts or just plain old advice. Remember, no matter what you grow, your Greenfield dealer can probably help you grow it more efficiently.

For more information, see your local Greenfield dealer.



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