





# ATLANTIS

CENTER PIVOT & LINEAR SYSTEMS

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# ATLANTIS

CENTER PIVOT & LINEAR SYSTEMS

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Atlantis, operating in the fields of agricultural areas, landscape areas and golf sites, commenced its activities at Istanbul in 1998. Manufacturing and installation of agricultural irrigation systems, drip irrigation systems, landscape (recreational) irrigation systems, manufacturing compact construction machinery, manufacturing and installation of greenhouses constitute the principal activities of Atlantis.

Atlantis achieved manufacturing Agricultural Irrigation Systems (Center Pivot and Linear Irrigation Systems) in its own factory in Turkey in 1998. While Producers/farmers are irrigating their area, they will save their money, time and labor costs with these modern Agricultural Irrigation Systems.

Atlantis continues its activities scrupulously and has many authorized dealers and distributors all over Turkey and deliver its customers the best service quality and reliability. By means of its specialized staff following up closely the technology in the areas of Irrigation and manufacturing machinery, Atlantis is providing system projects, implementing the same, technical support, material sales as well as consultancy.

On going with its activities with utmost self sacrifice, care and expertise, Atlantis has several agents and authorized dealers throughout Turkey. Realizing many novelties in its field and undersigning several starters, Atlantis is at all times aware of the fact that it is constituting a sample and thereby yearning to fulfill its responsibilities in the best possible manner.

**Best Regards,  
Gürsel ARAL  
CEO**

# ATLANTIS

## ORGANIZATIONAL STRUCTURE

CENTER PIVOT & LINEAR SYSTEMS

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CEO



PRODUCTION  
MANAGER



TECHNICAL  
SERVICE  
MANAGER



MARKETING  
SALES  
MANAGER



FINANCE  
MANAGER



PURCHASING  
MANAGER



HUMAN  
RESOURCES



SUPERVISOR



INTERNATIONAL  
SALES



TURKEY  
SALES



CUSTOMER  
RELATIONSHIP



COUNTRY  
SALES  
MANAGERS



REGIONAL  
SALES  
RESPONSIBLE



LOADING CHIEF



WAREHOUSE CHIEF



R&D CHIEF



MANUFACTURING CHIEF



TECHNICAL STAFF



ENGINEERS



TECHNICAL STAFF



TECHNICAL STAFF

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## ATLANTIS MANUFACTORY FACILITY



## ATLANTIS HEADQUARTERS

Atlantis, since the end of 1998 in Turkey in agricultural irrigation, the first performing a Center pivot and linear irrigation Systems has begun to produce its own structure. Thanks to these systems, thousands of acres of land are irrigated untouched by saving time, labor and the amount of water used. Atlantis has succeeded in developing models of Center Pivot and Linear Irrigation Systems that can be used for different field sizes with its R&D projects.



# ATLANTIS

CENTER PIVOT & LINEAR SYSTEMS

ACCELERATING OUR FUTURE

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Innovation has been our hallmark and the single most important factor in our success. Leading the industry in the future, however, requires a relentless pursuit of break through technologies that will help

customers protect the environment, conserve water, increase productivity, and control costs.

# ATLANTIS ALWAYS BEHIND YOU

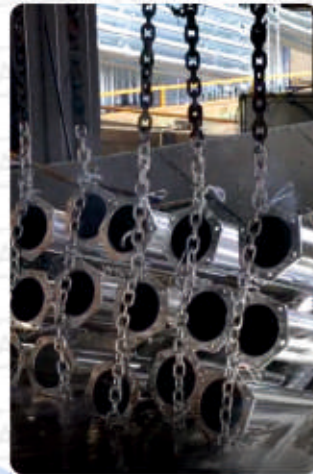


# ATLANTIS

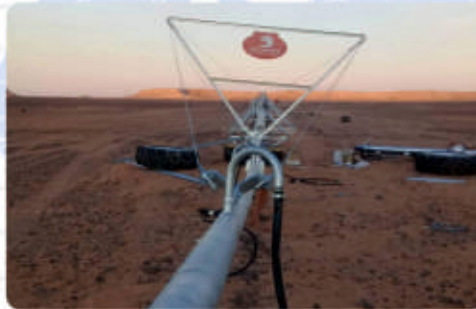
CENTER PIVOT & LINEAR SYSTEMS

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## INNOVATION MARKETS



## GROWTH RELATIONSHIPS



## PRODUCTIVITY



## CUSTOMER CARE





# ATLANTIS

CENTER PIVOT & LINEAR SYSTEMS

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## FACTORY MANUFACTURE

We offer our customers the technological equipment and tools they have developed as a result of their R&D studies in Turkey's largest and most modern Center Pivot and Linear Irrigation Machines production facilities (5.000 m2 closed) located in OSB in Gebze Dilovası and in the 2.000 m2 Management Office in Ümraniye. In addition to these, it makes coating in Turkey's largest capacity (75.000 m2 closed) hot dip galvanizing facilities. We are one of the leading irrigation machine manufacturers in the world by selling our products to more than 30 countries. We serve our customers 24/7 with our sales office and warehouse located in Konya, the center of agriculture in Turkey.



We are proud of the products we have developed with our continuous R&D studies. Our goal is to continue to work with determination and determination to meet the demands of the market and to deliver on time. We rely on our technical team and craftsmen to be able to manufacture our products precisely and accurately in one go. Mastery of our resources is the most important detail of our work. We aim for total quality with the control of quality at every stage. Our aim is to exceed world standards and we trust our entire team in this direction.



## FACTORY MANUFACTURE

# ATLANTIS

CENTER PIVOT & LINEAR SYSTEMS

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### GALVANIZE

We deliver our products to our customers by coating them at the highest quality in Turkey's largest and state-of-the-art hot galvanizing facilities. At a depth of 4.60 meters, 13 meters length and 1.80 mt width. We do galvanized coating in our facilities, which are most deeper Europe's rare galvanized pool. Our long years of experience has enabled us to be an example and a pioneer in its sector. Our most important goal is to make the most sensitive coating in accordance with TSE and DIN standards and to protect our products from corrosion for years.



### ELECTRICAL PRODUCTION

It turned out that we made Control Systems for the world's leading supply providers such as Schneider, ABB and Siemens, Honeywell. We produce the highest performance and user-friendly systems in the most difficult conditions. We are behind you wherever you are in the world.



## FACTORY PACKING & TRANSPORTION



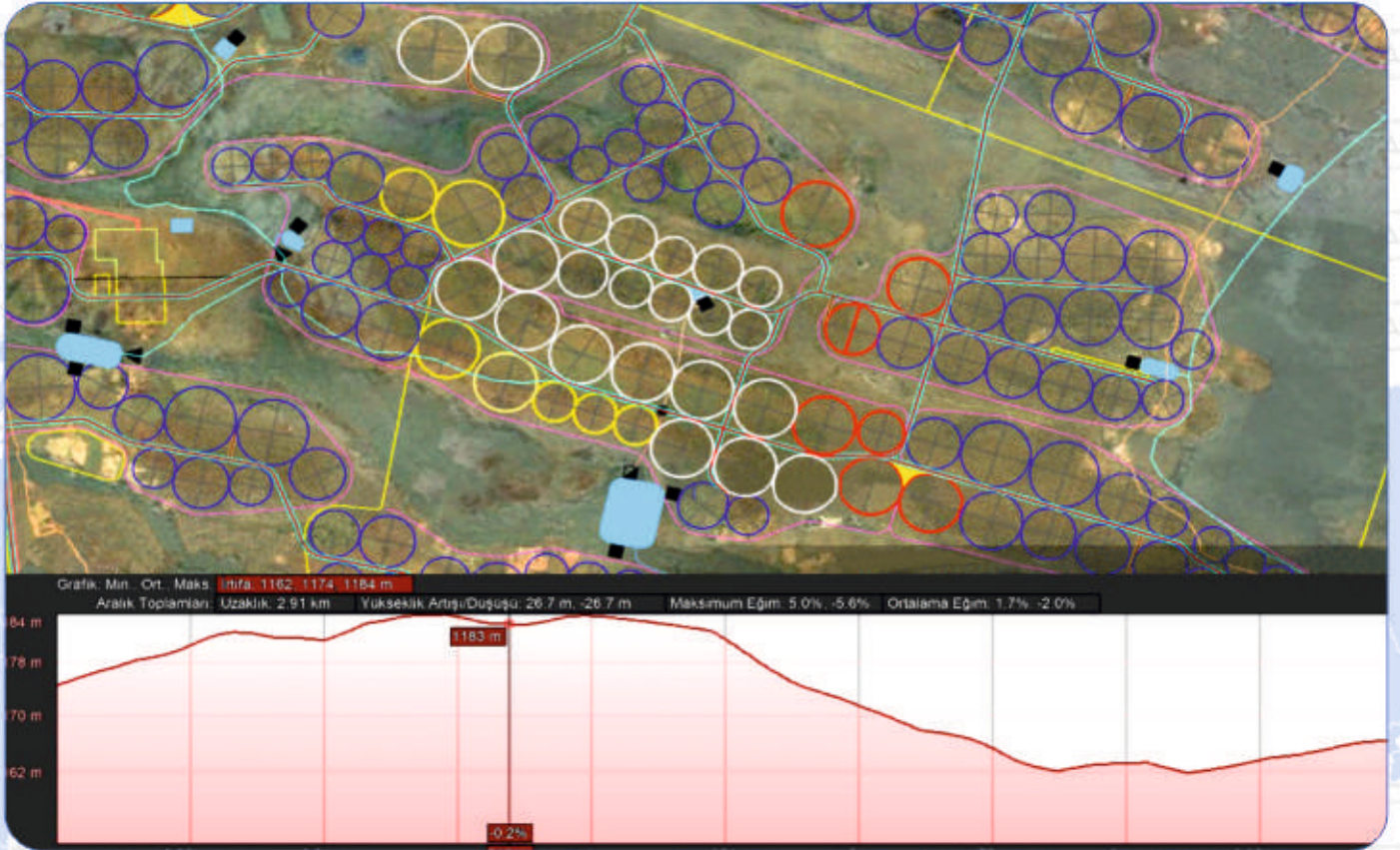
Meeting the demands of our customers in a timely and complete manner is one of our top priorities. With the arrival of the demand, our teams are working hard to deliver on time to our customers by working devotedly and carefully. Wherever you are in the world, your order is priority for us. Whether you pick it up from the factory or ship it, timely and accurate delivery is very important to us.

# ATLANTIS

CENTER PIVOT & LINEAR SYSTEMS

DESIGN - R&D PROJECT

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**ATLANTIS** ATLANTIS MÜHENDİSLİK GOLF FİYEĐAL TARIMSAL SULAMA LTD. 371. TEL: +90 (218) 344 00 74 FAX: +90 (216) 523 04 79  
SERKALU MAH. AĐRYÜZ SOKAK NO: 35 www.atlantismuhendislik.com  
ÜMRANİYE / İĐTAMBUĐ / TÜRKİYE www.sulama.com.tr e-mail: info@atlantismuhendislik.com

PROJE NAME :  
LOCAL :  
SYSTEM :

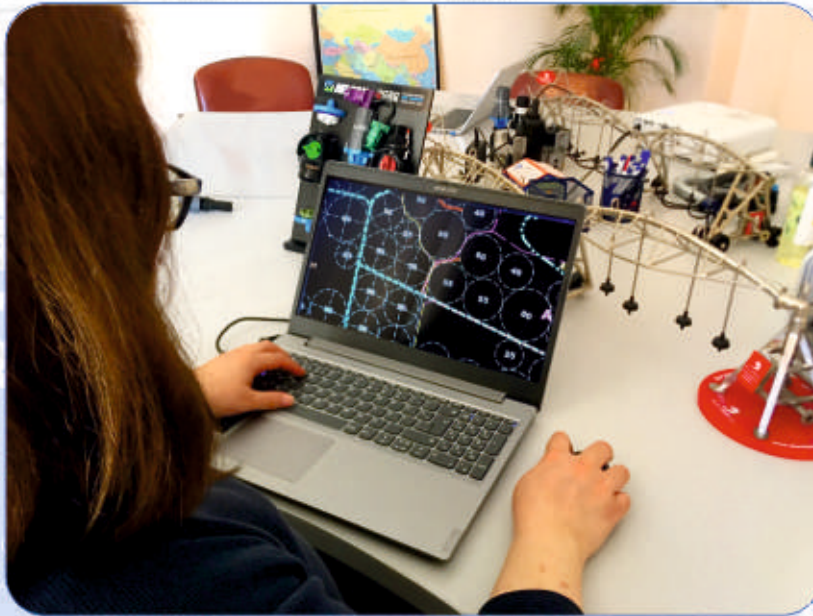
FLOW (m <sup>3</sup> /h)	FIELD (Hectar)	DATE : 17/03/2020

DRAWER : ERMAN EROL  
AGRICULTURAL ENGINEER

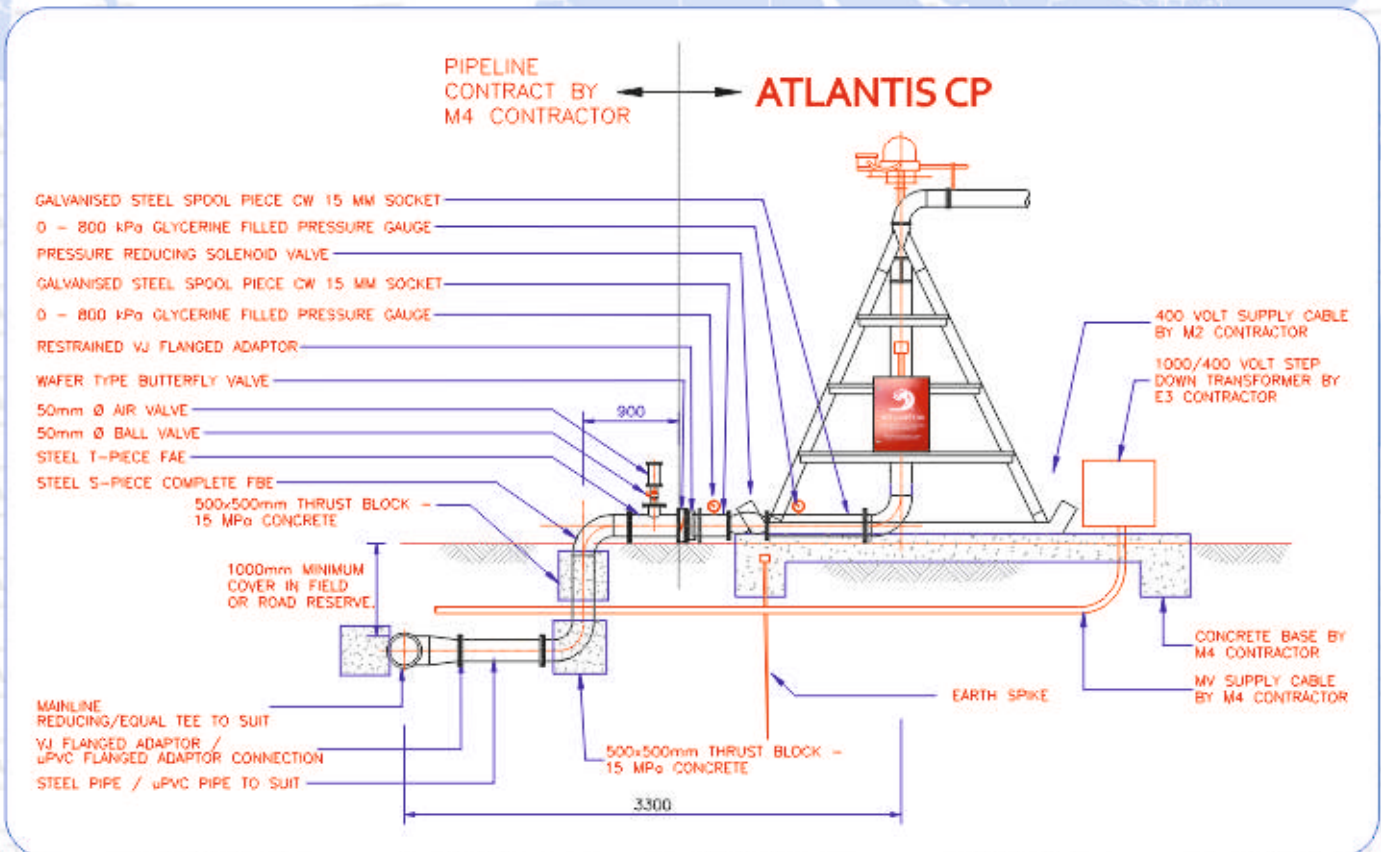
Our irrigation engineers work in the design of irrigation systems. Our engineers carry out Project studies in line with customer demands, taking into account the topography of the site, soil characteristics, water source characteristics, plant species to be planted and water needs. When necessary, they check the suitability of the project to the land by taking the most accurate and precise measurements with field visits. We are also setting up a turnkey system for irrigation planning and determination of all mechanical needs for precise irrigation.



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**W**ith our irrigation engineers, we prepare all the technical details and present them to our customers so that the project can be applied to the field. With our preliminary projects and application projects, we focus on customer satisfaction without skipping even the smallest detail.



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INSTALLATION

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Our technical teams are at all stages to ensure customer satisfaction. Our teams are the most competent in their own publications with international certification. In this way, we provide world-class logistics and assembly services.



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MAINTENANCE  
SERVICE SUPPORT  
SPARE PART

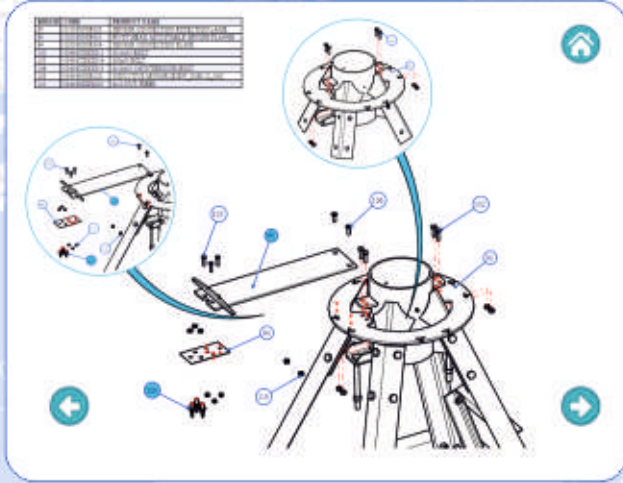


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%100  
CUSTOMER  
SATISFACTION

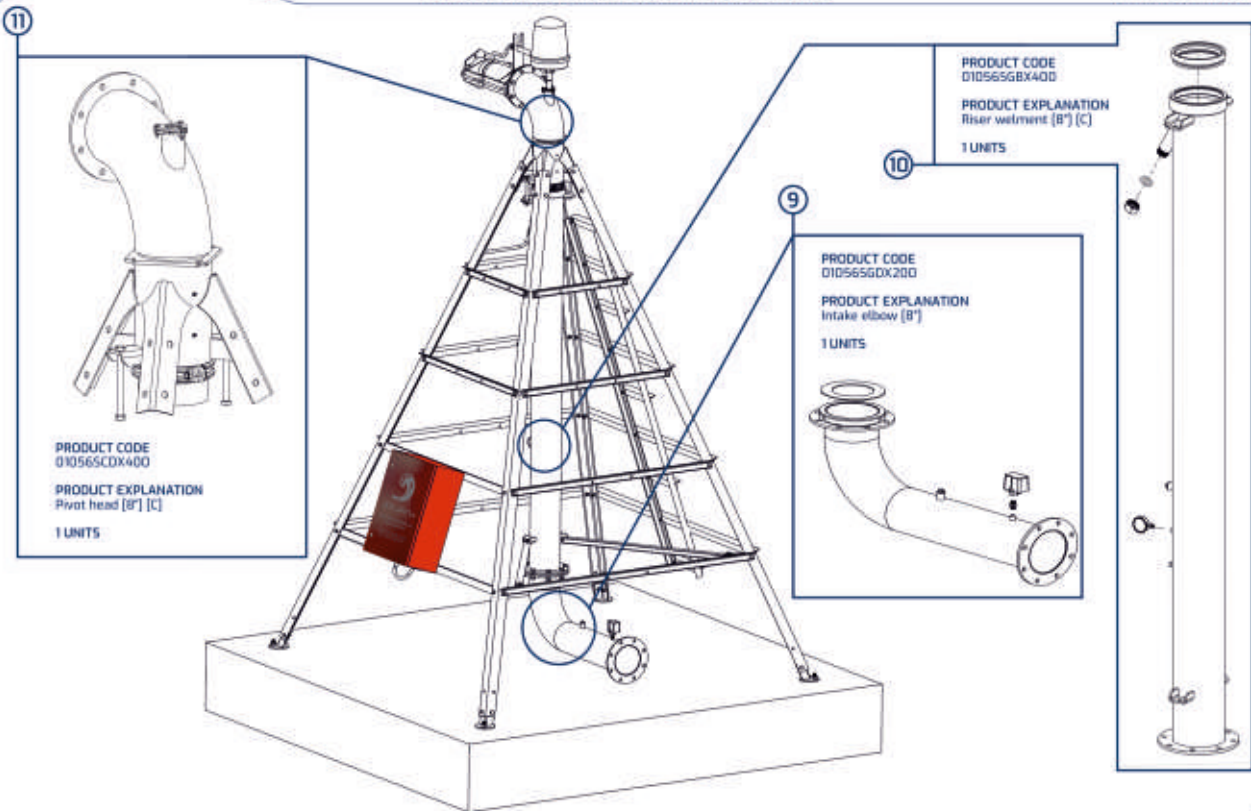
## INTERACTIVE SPARE PARTS MANAGEMENT



### PIVOT 6A MODEL INSTALLATION

### MAIN TOWER INSTALLATION STAGE

ATLANTIS  
CENTER PIVOT & LINEAR SYSTEMS



Rev. Tarihi : 06/05/2021  
Rev. No : 01

ATLANTIS MÜHENDİSLİK  
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— MAINTENANCE & SERVICE SUPPORT —

SPARE PARTS

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- Problems and Solutions
- Operation and Maintenance Management
- 24/7 Technical Service Solutions
- Fast Spare Parts Service
- Customer relations management





# ATLANTIS

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MAINTENANCE & SERVICE SUPPORT

SPARE PARTS

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## Sprinkler



Sprinkler; with its unique rotational motion, it combines with a fluctuation of grooved deflectors to provide a consistent droplet size and exceptional uniformity across a wide coverage area. This provides a soft, rain-like water application to the soil.

## Valves



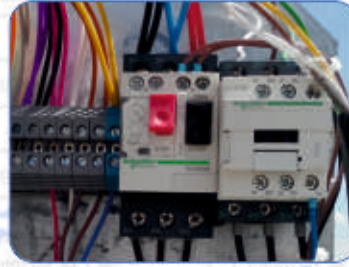
Valves; The valve is used as an outlet element that opens and closes depending on the condition in installations containing fluids. Generally, in systems where fluid pressure is important, they are safety devices that discharge fluid from the system by decreasing the pressure if the pressure rises, or to interrupt fluid communication in an emergency.

## Wheels



Our wheels measuring 10.0 x 20, 11.2 x 24, 14.9 x 24, 16.9 x 24, 11.2 x 38 enable center pivot and linear irrigation machines to move comfortably in any soil condition. It has been proven to be durable with 6-8 layers and inner tube.

## Timers



These are the systems used to automate center pivot and linear irrigation systems. It works efficiently with new or existing systems. It is easy to install and program.

## Electric panel



Center pivot and linear irrigation systems use the easiest and most user-friendly control panels on the market. The basic speed controls control panels including operating direction, on / off, irrigation rate, driving voltage and tower alarm, special designs for each system.

## Motor and Shaft



Improve motor performance with a wear-resistant aluminum housing, easily accessible drain and filler plug, structure suitable for continuous operation, built-in overload protection, entanglement protection to protect the clutch gear from damage 1:40 reducer ratio. 1. Protect the engine with the connected, shielded shaft, operating your system with top performance even on the toughest terrain.

## MAINTENANCE & SERVICE SUPPORT

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**For technical service,  
you can get support at**

**+90 533 472 42 27**



### Electrical Equipment And Connections

After turning off the main switch on the main control panel, check the cable connections and collector and tower control boxes inside the panel.



### Motors

Motor actors and gearbox can shorten the life of the motor. Be sure to check and replace worn actuators.



### Gear Box And Oil Treatments

Check the oil levels and oil quality of the gearbox and motors. Be sure to replace the oils that have passed the viscosity with a new one. Make sure that the seals do not get oil.



### Moving Parts

Be sure to lubricate all moving parts on the machine. Do not forget to make your lubrications in the grease fittings in the central tower – column pipe and grease fittings in the crosshead head shafts.



### Energy Efficiency

The operating pressure of your machine should be compatible with the sprinkler heads. You can lower the costs of submersible pumps or centrifugal energy consumption. Check the water inlet pressure of your machine continuously and keep it constant at the same pressure.



### Wheels And Tire Pressure

Discharge Check the wheel pressure (26psi) and check your walking tracks. The correct tire pressure is vital to the correct operation of the machine's mechanical parts and equipment. Otherwise, it will cause you to make mistakes in the schedule in your irrigation schedule. Also, do not forget to check and tighten the wheel nuts. All tires lose pressure over time, causing 1PSI pressure to change every 0.556 degrees Celsius. Fill in deep tire tracks caused by irrigation and soil structure.



### Alignment and Water Discharge

Make sure the tower control box micro switches and rod adjustments are correct. Your machine will cause misalignment of the pivot if the correct tij and switvh settings are not made. This will cause the machine to go into alarm and not operate. If you have problems with water quality or if your water contains sand, you should open your drain valves in the muff, drain the sand and other foreign material accumulated in the pipes and clean your pipes.



### Sprinkler Heads

One of the most important parts of your machine is the sprinkler head. You should choose the most suitable sprinkler head according to the soil plant structure in your field. When the irrigation season is over, you should disassemble it and keep it in the proper place, and when the season starts, you should reinsert it in the same nozzle order. In general, the sprinkler should be replaced after every 10,000 hours of operation. You should definitely replace the broken or worn sprinkler heads with new ones. These factors are the factors that will disrupt the uniform and you may experience fluctuation and yield losses in your products.

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FORMS

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- Technical Service Forms
- Warranty Forms
- Extended Warranty Forms
- Customer Satisfaction Forms (Customer Care)
- Delivery Acceptance Forms
- Training and Acceptance Forms
- Invoice and Other Forms
- Repair and Maintenance Forms
- Stock Inlet/Outlet Forms
- Zimmet (debit) Forms
- Entry/Exit Forms
- Personal ID forms and Card
- Request Forms



Customer Service

Excellent

Good

Average

Poor

FORMS	
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<input checked="" type="checkbox"/>	_____
<input checked="" type="checkbox"/>	_____
<input checked="" type="checkbox"/>	_____
<input checked="" type="checkbox"/>	_____

CUSTOMER CARE

# ATLANTIS

CENTER PIVOT & LINEAR SYSTEMS

COUNT ON IT



- Call center
- Questionary forms
- Field Visit
- Emergency support
- Quick and Reliable Service

Customer Service

Excellent

Good

Average

Poor

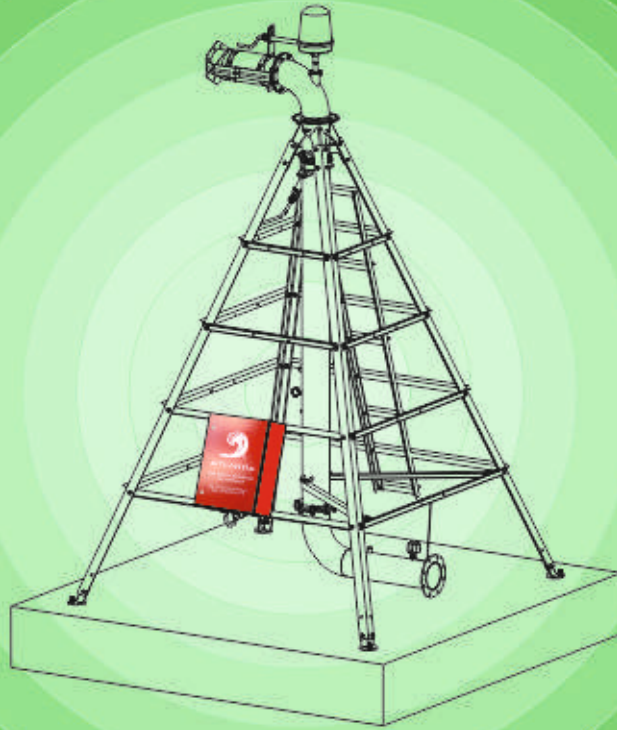


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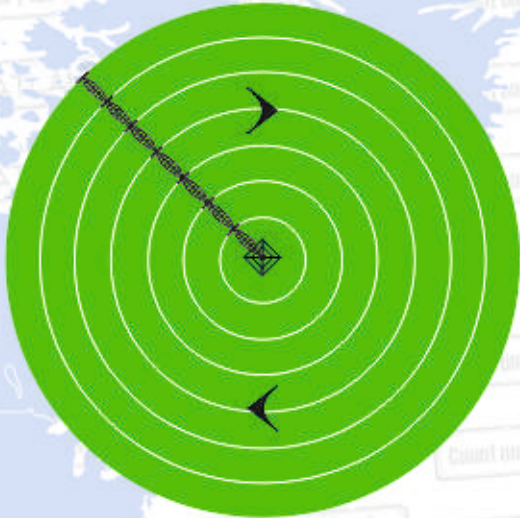
## CENTER PIVOT IRRIGATION SYSTEM



**COUNT ON IT**

Circular moving systems preferred in areas close to square. Systems that move full rounds are called Center Pivot, systems operating at different angle degrees are called Sectoral Pivot.

## CENTER PIVOT



## SECTORIAL PIVOT



# ATLANTIS — CENTER PIVOT IRRIGATION SYSTEMS

CENTER PIVOT & LINEAR SYSTEMS

COUNT ON IT



In many parts of the world, these systems, which were created for the purpose of irrigating large agricultural areas with the most economical and high performance, have been accepted by the irrigation of many plants in different land and climate conditions over the years.

Composed of completely galvanized steel pipes and steel construction, the system moves in a circular rotation on a reinforced concrete platform and automatically irrigates without human touch.

Center Pivot Irrigation Machines can operate at slopes up to 15%. The water usage efficiency in Center Pivot Irrigation Systems reaches 90–95%.

Center Pivot Irrigation Machines consist of towers between 34–65 meters. With the systems, thousands of acres of land can be irrigated automatically without human touch. Systems can start from 34 meters and reach a radius of 1300 meters. (A single machine can irrigate up to approximately 530 hector)

**COUNT ON IT**

## PIVOT POINT

- ① Collector ring: 10-11-12-13 rings, numbered coded, IP 55
- ② Main structure has heavy duty legs with the size of 100x100x10 - 80x80x8 - 70x70x7 mm angle iron.
- ③ The legs are connected with 50x50x5 mm angle iron.

## OTHER COMPONENTS ARE

- ④ Pivot riser pipe and the pivot head are manufactured with 8 5/8" pipe. Riser Pipe seal is V type that is resistive for impermeability under the high pressure. Intake elbow flange can be adjustable for needed direction where the water source comes from. Pivot point has a ladder to reach top.
- ⑤ Manometer : 0-10 Bar, stainless stell frame, glycerine Pressure gauge : Low and high pressure protective. 0-10 Bar adjustable.

## OVERHANGS

Extra boom for the irrigation coverage. Steel cable supported. Drainage ball valves are included at the beginning and at the end.

The length of the overhang is available between 0,75 Mts. to 24,6 Mts. (2,5ft to 80,7ft)

## DRIVE UNIT

The drive unit legs are produced with heavy duty 70x70x7 - 80x80x8mm angle iron.  
Horizontal supports are 50x50x4/5mm angle iron.  
5-9/16"-6 5/8" drive tube.





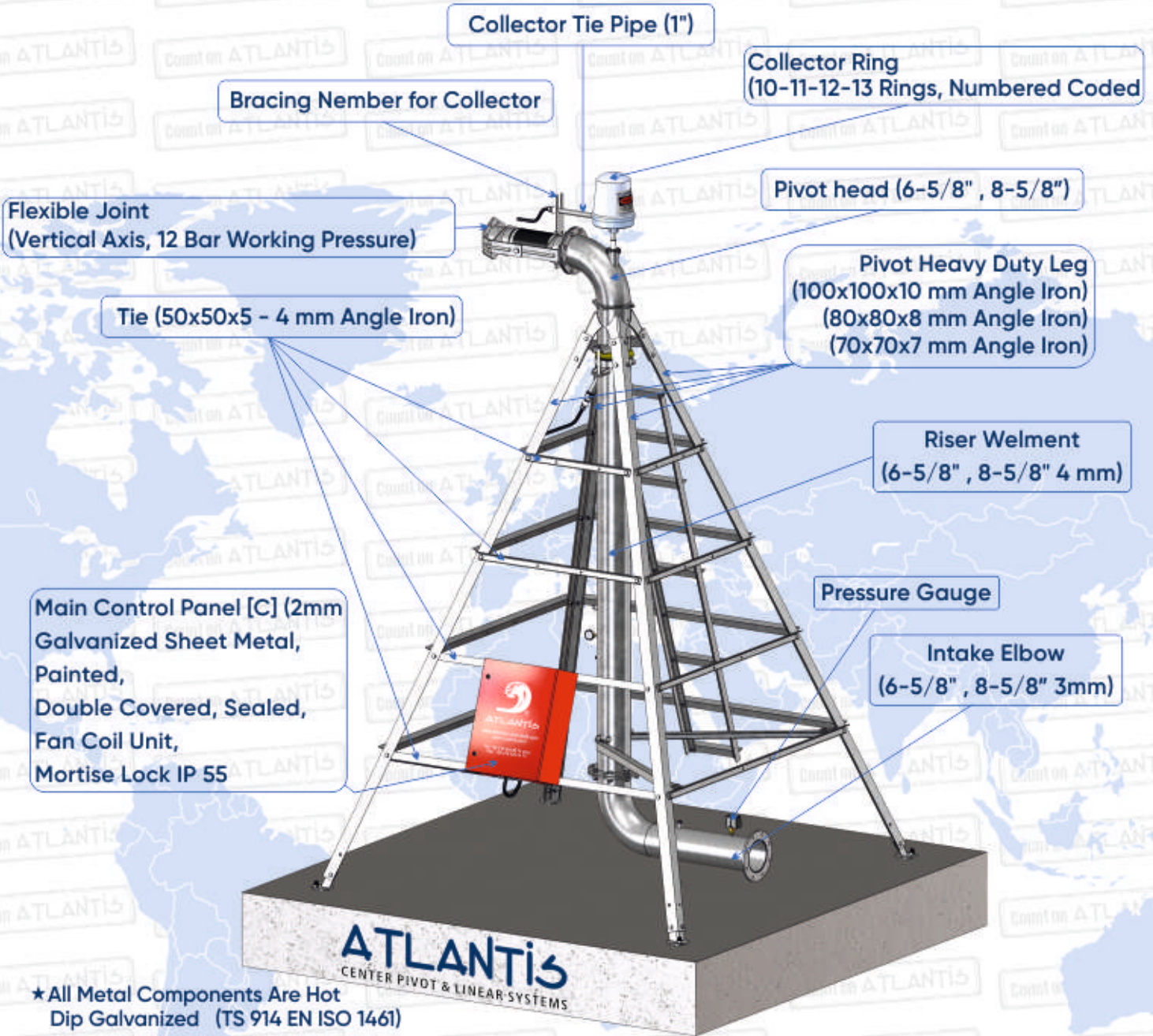
# ATLANTIS

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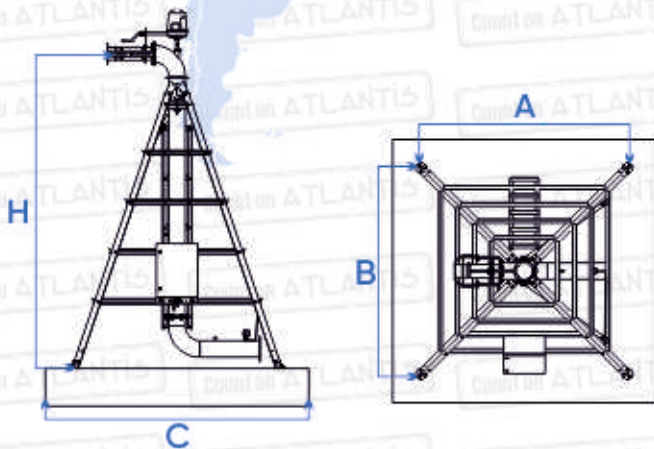
TECHNICAL SPECIFICATIONS OF

CENTER PIVOTS - MAIN TOWER

**COUNT ON IT**



★ All Metal Components Are Hot Dip Galvanized (TS 914 EN ISO 1461)



	A[CM]	B[CM]	C[CM]	D[CM]
LOW	219	219	290	330
STANDART	280	280	350	420
HIGH	325	325	400	485
ULTRA HIGH	370	370	450	550

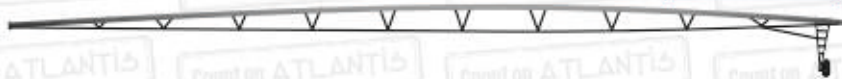
## AVAILABLE SPANS

# ATLANTIS

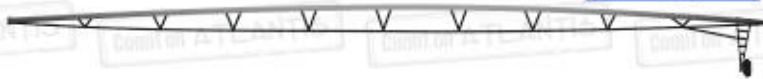
CENTER PIVOT & LINEAR SYSTEMS

### COUNT ON IT

65,5 Mts (213 ft)



59,4 Mts (194 ft)



53,5 Mts (175 ft)



47,6 Mts (156 ft)



41,7 Mts (136 ft)



35,8 Mts (117 ft)



① Pipes of span can be produced with 5 9/16" , 6 5/8" and 8 5/8" outer diameter. The minimum thickness of pipes 2,7- 3,0mm. It can be changed by the customer desires up to 4 mm.

② Connection steels are standart 50x50x3/4/5mm angle iron.

③ Truss rods are produced 16,17,5,19,22mm according to main pipe size.

④ Tower legs steels are standart 70x70x7mm, 75x75x5mm and 80x80x8mm angle iron.

⑤ Spans are connected to each other with stabizer joint that has 12 bar working pressure.



#### ● GEARMOTOR;

- ✓ Aliminum case
- ✓ 460V / 380V 60Hz/50Hz
- ✓ 0,75hp,1 Hp, 1,5 Hp
- ✓ Gear ratio:20:1,25:1,30:1 40:1
- ✓ All gears are heat treated
- ✓ Shipped with gear oil
- ✓ Dual shaft output
- ✓ Thearmally protected with automatic reset

#### ● GEARBOX;

- ✓ 1:50 gear ratio
- ✓ 2,5" shaft output
- ✓ Peak torque about 90,000-100,000 In.-Lbs.
- ✓ Waterproof

#### ● TYRES;

- ✓ 14,9 13-24 High flotation
- ✓ 6 ply - 8 ply
- ✓ W10 / W12 galvanized rims
- ✓ Inner tube
- ✓ Special pattern
- ✓ 20/28 mm tire tread
- ✓ 26 PSI

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CENTER PIVOT & LINEAR SYSTEMS

## CONTROL PANELS DETAIL

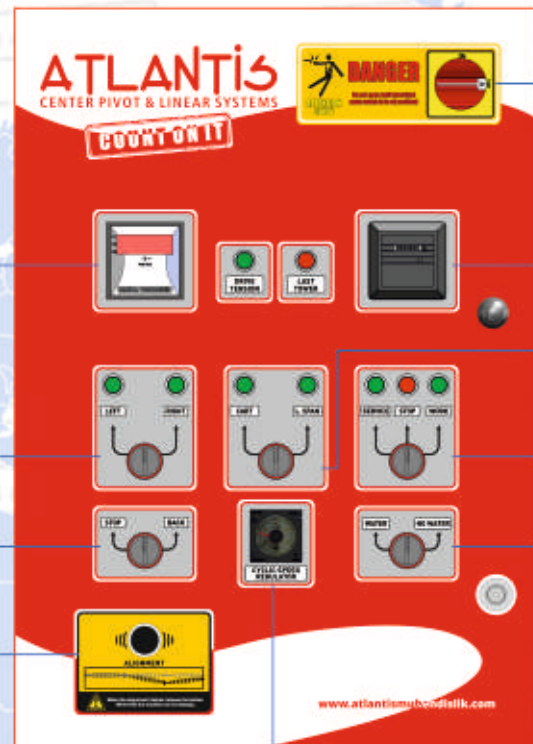
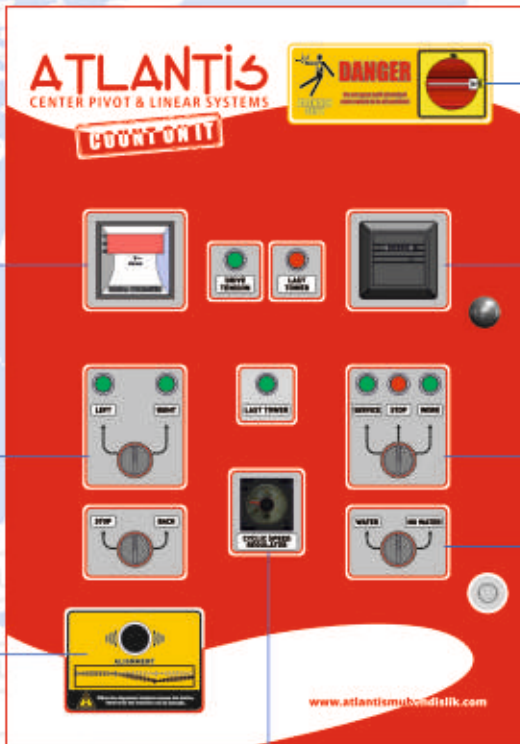
**COUNT ON IT**

Control panel is made of 2mm galvanized sheet. It has been painted in accordance with the outdoor conditions (sun, rain, wind). It is a cold unit with double cover, gasket, fan and mortise lock. Classic and logical models are available for customer requests. (IP 66)



### CENTER PIVOT CONTROL PANEL

### LINEAR CONTROL PANEL



- A** Main switch
- B** Hourmeter
- C** Voltmeter
- D** Working/Service Mode-Stop-Run
- E** Working Direction/Left-Right
- F** Working Type/With Water - Without Water
- G** Cyclic Speed Regulator
- H** Alignment button

- A** Main switch
- B** Hourmeter
- C** Voltmeter
- D** Working Direction/Left-Right
- E** Linear/Cart-Last Span
- F** Working/Service Mode-Stop-Run
- G** Sectorial/Stop-Go Back
- H** Working Type/With Water - Without Water
- I** Alignment button
- K** Cyclic Speed Regulator

## CONTROL PANELS DETAIL

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CENTER PIVOT & LINEAR SYSTEMS

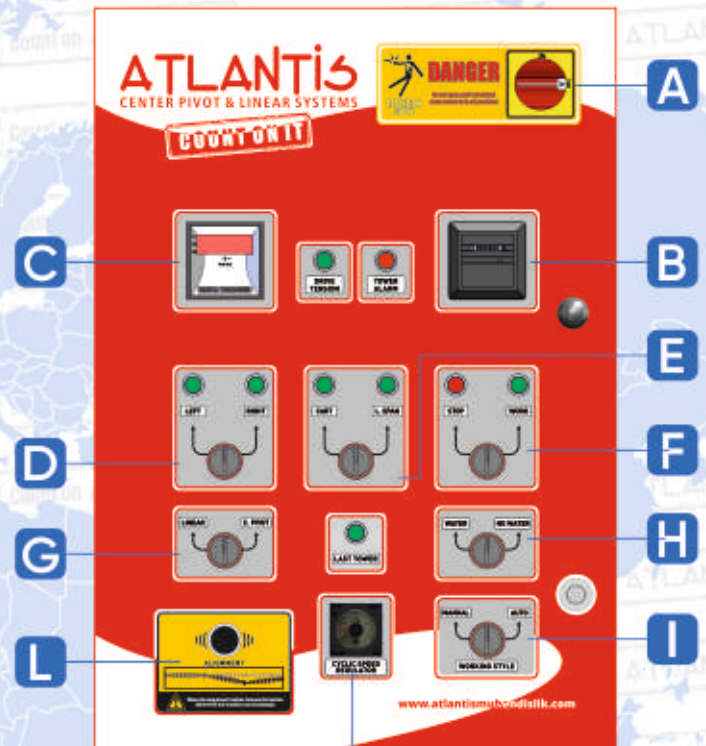
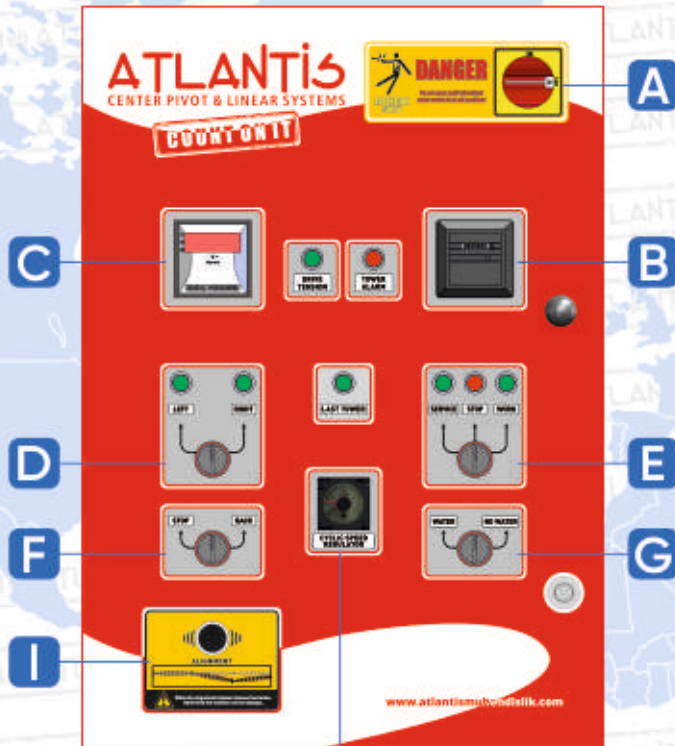
**COUNT ON IT**



Control panel is made of 2mm galvanized sheet. It has been painted in accordance with the outdoor conditions (sun, rain, wind). It is a cold unit with double cover, gasket, fan and mortise lock. Classic and logical models are available for customer requests. (IP 66)

### SECTORIAL CONTROL PANEL

### CENTER-LINEAR CONTROL PANEL



- A** Main switch
- B** Hourmeter
- C** Voltmeter
- D** Working Direction / Left - Right
- E** Working/Service Mode-Stop-Run
- F** Sectorial/Stop-Go Back
- G** Working Type/With Water - Without Water
- H** Cyclic Speed Regulator
- I** Alignment button

- A** Main switch
- B** Hourmeter
- C** Voltmeter
- D** Working Direction / Left - Right
- E** Linear/Cart-Last Span
- F** Working/Stop-Run
- G** Working Mode / Linear-Center Pivot
- H** Working Type/With Water - Without Water
- I** Working Style/Manuel-Automatic
- K** Cyclic Speed Regulator
- L** Alignment button

# ATLANTIS

## DIGITAL SCREEN CONTROL PANEL

CENTER PIVOT & LINEAR SYSTEMS

COUNT ON IT



Atlantis, developing technology now requires all equipment and machinery to be managed remotely. Increasing food demands and the epidemic process revealed how important remote management is. Atlantis produces user-friendly systems using GSM, RF and Ethernet infrastructures. Thanks to these systems, you can control your irrigation system remotely as you wish. You can manage it from your computer, mobile phone or tablet.



- A** Main switch
- B** Hourmeter
- C** Voltmeter
- D** Digital Control Led Panel
- E** Irrigation Rate
- F** Main Pump / With Water-Without Water
- G** Booster P. / Manuel-Auto
- H** Working/Service Mode-Stop-Run
- I** Working Mode/Manuel-Auto
- K** Working Direction/ Manuel-Auto
- L** Sectorial/Stop-Go Back
- M** Aligment button



# ATLANTIS

CENTER PIVOT & LINEAR SYSTEMS

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Learn more at  
visit to website

SATELLITE-BASED CONTROL

MOBILPHONE CONTROL

SCADA CONTROL

WEB BASE CONTROL

ATLANTIS is the leading agricultural irrigation company  
in the world and provides an array of field control options

GPS CONTROL

## REMOTE CONTROL SYSTEM

Satellite-based systems are specified by many of the world's best designers. Satellite systems use controllers placed on each hole to operate a specified number of Center Pivot. These controllers are coordinated to work together with a central computer, but can also be programmed independently for grow-in and stand-alone operation.



Future upgrades can be accomplished with advanced satellite firmware, keeping you current with technology.



Hardwire, 2-way radio communication allow for easy installation and maintenance.



Satellite upgrade kits enable older Atlantis satellite units to be upgraded very cost effectively vs. a complete system change-out.



Custom pedestal colors enable satellites to blend into the natural surroundings.

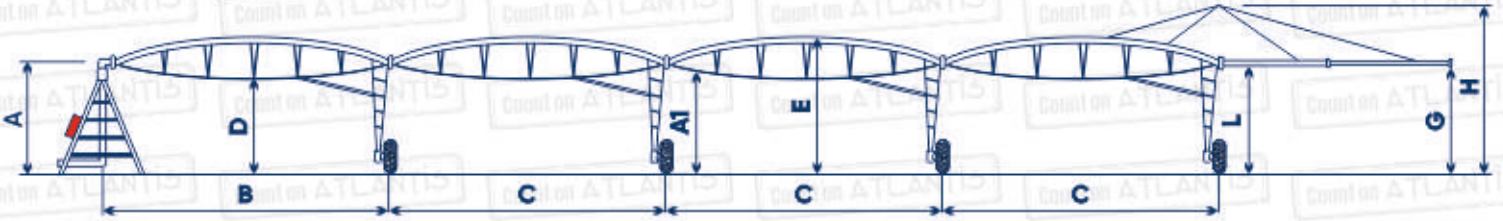
[www.atlantismuhendislik.com](http://www.atlantismuhendislik.com)

# ATLANTIS

## PIVOT MODELS TECHNICAL DETAILS

### CENTER PIVOT & LINEAR SYSTEMS

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### 8A MODELS

#### 8A MODEL LOW PIVOT

	L (m)	Ø (mm)	A	A1	B	C	D	E	L	G	H
SPANS	36,00	219,10	3,30	3,16	35,50	36,00	2,43	4,40	3,16		
	41,90	219,10	3,30	3,16	41,40	41,90	2,43	4,40	3,16		
	47,80	219,10	3,30	3,16	47,30	47,80	2,43	4,40	3,16		
	53,70	219,10	3,30	3,16	53,20	53,70	2,43	4,40	3,16		
OVERHANGS	6,60									3,36	5,64
	12,60									3,56	5,64



#### 8A MODEL STANDARD PIVOT

	L (m)	Ø (mm)	A	A1	B	C	D	E	L	G	H
SPANS	36,00	219,10	4,20	4,06	35,50	36,00	3,33	5,30	4,06		
	41,90	219,10	4,20	4,06	41,40	41,90	3,33	5,30	4,06		
	47,80	219,10	4,20	4,06	47,30	47,80	3,33	5,30	4,06		
	53,70	219,10	4,20	4,06	53,20	53,70	3,33	5,30	4,06		
OVERHANGS	6,60									4,26	6,54
	12,60									4,46	6,54



#### 8A MODEL HIGH PIVOT

	L (m)	Ø (mm)	A	A1	B	C	D	E	L	G	H
SPANS	36,00	219,10	4,85	4,71	35,50	36,00	3,98	5,95	4,71		
	41,90	219,10	4,85	4,71	41,40	41,90	3,98	5,95	4,71		
	47,80	219,10	4,85	4,71	47,30	47,80	3,98	5,95	4,71		
	53,70	219,10	4,85	4,71	53,20	53,70	3,98	5,95	4,71		
OVERHANGS	6,60									4,91	7,19
	12,60									5,11	7,19

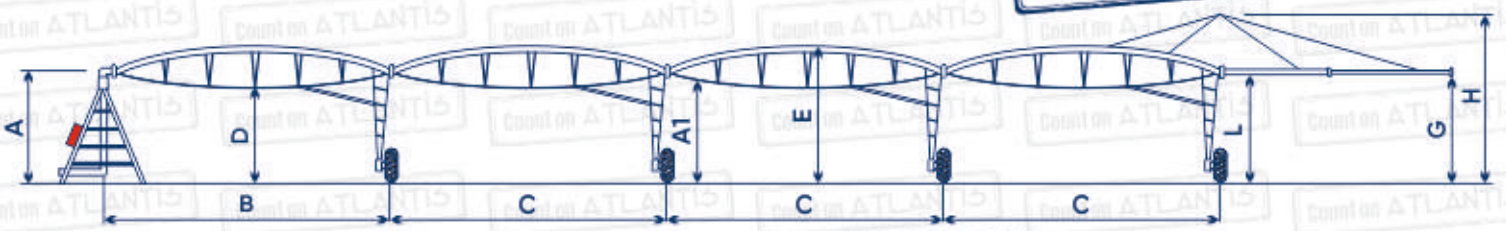


#### 8A MODEL ULTRA HIGH PIVOT

	L (m)	Ø (mm)	A	A1	B	C	D	E	L	G	H
SPANS	36,00	219,10	5,50	5,36	35,50	36,00	4,63	6,60	5,36		
	41,90	219,10	5,50	5,36	41,40	41,90	4,63	6,60	5,36		
	47,80	219,10	5,50	5,36	47,30	47,80	4,63	6,60	5,36		
	53,70	219,10	5,50	5,36	53,20	53,70	4,63	6,60	5,36		
OVERHANGS	6,60									5,56	7,84
	12,60									5,76	7,84



**COUNT ON IT**



**6A MODELS**

**6A MODEL LOW PIVOT**

	L (m)	Ø (mm)	A	A1	B	C	D	E	L	G	H
SPANS	36,00	168,30	3,30	3,16	35,50	36,00	2,43	4,40	3,16		
	41,90	168,30	3,30	3,16	41,40	41,90	2,43	4,40	3,16		
	47,80	168,30	3,30	3,16	47,30	47,80	2,43	4,40	3,16		
	53,70	168,30	3,30	3,16	53,20	53,70	2,43	4,40	3,16		
	59,60	168,30	3,30	3,16	59,10	59,60	2,43	4,40	3,16		
	65,50	168,30	3,30	3,16	65,00	65,50	2,43	4,40	3,16		
OVERHANGS	6,60									3,36	5,64
	12,60									3,56	5,64
	18,60									3,96	5,64
	24,60									4,90	5,64

**6A MODEL STANDARD PIVOT**

	L (m)	Ø (mm)	A	A1	B	C	D	E	L	G	H
SPANS	36,00	168,30	4,20	4,06	35,50	36,00	3,33	5,30	4,06		
	41,90	168,30	4,20	4,06	41,40	41,90	3,33	5,30	4,06		
	47,80	168,30	4,20	4,06	47,30	47,80	3,33	5,30	4,06		
	53,70	168,30	4,20	4,06	53,20	53,70	3,33	5,30	4,06		
	59,60	168,30	4,20	4,06	59,10	59,60	3,33	5,30	4,06		
	65,50	168,30	4,20	4,06	65,00	65,50	3,33	5,30	4,06		
OVERHANGS	6,60									4,26	6,54
	12,60									4,46	6,54
	18,60									4,86	6,54
	24,60									5,80	6,54

**6A MODEL HIGH PIVOT**

	L (m)	Ø (mm)	A	A1	B	C	D	E	L	G	H
SPANS	36,00	168,30	4,85	4,71	35,50	36,00	3,98	5,95	4,71		
	41,90	168,30	4,85	4,71	41,40	41,90	3,98	5,95	4,71		
	47,80	168,30	4,85	4,71	47,30	47,80	3,98	5,95	4,71		
	53,70	168,30	4,85	4,71	53,20	53,70	3,98	5,95	4,71		
	59,60	168,30	4,85	4,71	59,10	59,60	3,98	5,95	4,71		
	65,50	168,30	4,85	4,71	65,00	65,50	3,98	5,95	4,71		
OVERHANGS	6,60									4,91	7,19
	12,60									5,11	7,19
	18,60									5,51	7,19
	24,60									6,45	7,19

**6A MODEL ULTRA HIGH PIVOT**

	L (m)	Ø (mm)	A	A1	B	C	D	E	L	G	H
SPANS	36,00	168,30	5,50	5,36	35,50	36,00	4,63	6,60	5,36		
	41,90	168,30	5,50	5,36	41,40	41,90	4,63	6,60	5,36		
	47,80	168,30	5,50	5,36	47,30	47,80	4,63	6,60	5,36		
	53,70	168,30	5,50	5,36	53,20	53,70	4,63	6,60	5,36		
	59,60	168,30	5,50	5,36	59,10	59,60	4,63	6,60	5,36		
	65,50	168,30	5,50	5,36	65,00	65,50	4,63	6,60	5,36		
OVERHANGS	6,60									5,56	7,84
	12,60									5,76	7,84
	18,60									6,16	7,84
	24,60									7,10	7,84



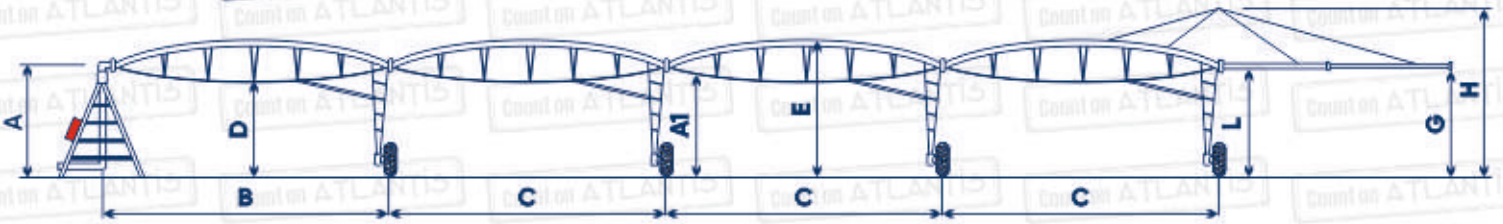


# ATLANTIS

## PIVOT MODELS TECHNICAL DETAILS

### CENTER PIVOT & LINEAR SYSTEMS

**COUNT ON IT**



### 5A MODELS

#### 5A MODEL LOW PIVOT

	L (m)	Ø (mm)	A	A1	B	C	D	E	L	G	H
SPANS	35,80	141,30	3,30	3,16	35,30	35,80	2,43	4,40	3,16		
	41,70	141,30	3,30	3,16	41,20	41,70	2,43	4,40	3,16		
	47,60	141,30	3,30	3,16	47,10	47,60	2,43	4,40	3,16		
	53,50	141,30	3,30	3,16	53,00	53,50	2,43	4,40	3,16		
	59,40	141,30	3,30	3,16	58,90	59,40	2,43	4,40	3,16		
OVERHANGS	6,60									3,36	5,64
	12,60									3,56	5,64
	18,60									3,96	5,64
	24,60									4,90	5,64

#### 5A MODEL STANDARD PIVOT

	L (m)	Ø (mm)	A	A1	B	C	D	E	L	G	H
SPANS	35,80	141,30	4,20	4,06	35,30	35,80	3,33	5,30	4,06		
	41,70	141,30	4,20	4,06	41,20	41,70	3,33	5,30	4,06		
	47,60	141,30	4,20	4,06	47,10	47,60	3,33	5,30	4,06		
	53,50	141,30	4,20	4,06	53,00	53,50	3,33	5,30	4,06		
	59,40	141,30	4,20	4,06	58,90	59,40	3,33	5,30	4,06		
OVERHANGS	6,60									4,26	6,54
	12,60									4,46	6,54
	18,60									4,86	6,54
	24,60									5,80	6,54

#### 5A MODEL HIGH PIVOT

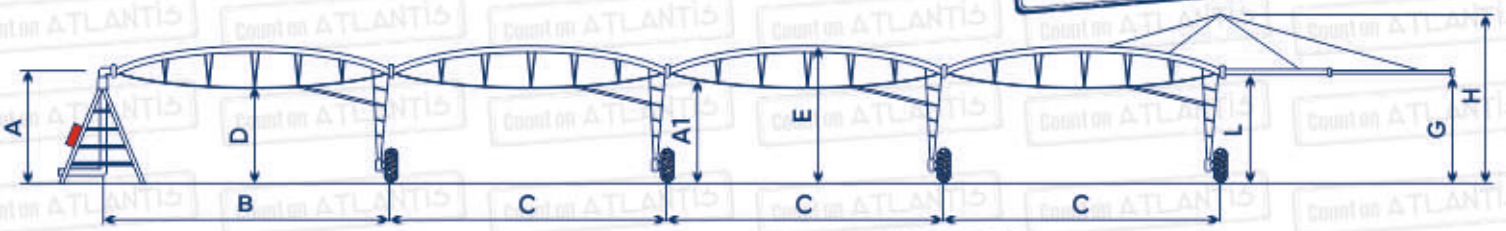
	L (m)	Ø (mm)	A	A1	B	C	D	E	L	G	H
SPANS	35,80	141,30	4,85	4,71	35,30	35,80	3,98	5,95	4,71		
	41,70	141,30	4,85	4,71	41,20	41,70	3,98	5,95	4,71		
	47,60	141,30	4,85	4,71	47,10	47,60	3,98	5,95	4,71		
	53,50	141,30	4,85	4,71	53,00	53,50	3,98	5,95	4,71		
	59,40	141,30	4,85	4,71	58,90	59,40	3,98	5,95	4,71		
OVERHANGS	6,60									4,91	7,19
	12,60									5,11	7,19
	18,60									5,51	7,19
	24,60									6,45	7,19

#### 5A MODEL ULTRA HIGH PIVOT

	L (m)	Ø (mm)	A	A1	B	C	D	E	L	G	H
SPANS	35,80	168,30	5,50	5,36	35,30	35,80	4,63	6,60	5,36		
	41,70	168,30	5,50	5,36	41,20	41,70	4,63	6,60	5,36		
	47,60	168,30	5,50	5,36	47,10	47,60	4,63	6,60	5,36		
	53,50	168,30	5,50	5,36	53,00	53,50	4,63	6,60	5,36		
	59,40	168,30	5,50	5,36	58,90	59,40	4,63	6,60	5,36		
OVERHANGS	6,60									5,56	7,84
	12,60									5,76	7,84
	18,60									6,16	7,84
	24,60									7,10	7,84



**COUNT ON IT**



**4A MODELS**

**4A MODEL LOW PIVOT**

	L (m)	Ø (mm)	A	A1	B	C	D	E	L	G	H
SPANS	35,80	114,30	3,30	3,16	35,30	35,80	2,43	4,40	3,16		
	41,70	114,30	3,30	3,16	41,20	41,70	2,43	4,40	3,16		
	47,60	114,30	3,30	3,16	47,10	47,60	2,43	4,40	3,16		
	53,50	114,30	3,30	3,16	53,00	53,50	2,43	4,40	3,16		
	59,40	114,30	3,30	3,16	58,90	59,40	2,43	4,40	3,16		
	65,30	114,30	3,30	3,16	64,80	65,30	2,43	4,40	3,16		
OVERHANGS	6,60									3,36	5,64
	12,60									3,56	5,64
	18,60									3,96	5,64
	24,60									4,90	5,64

**4A MODEL STANDARD PIVOT**

	L (m)	Ø (mm)	A	A1	B	C	D	E	L	G	H
SPANS	35,80	114,30	4,20	4,06	35,30	35,80	3,33	5,30	4,06		
	41,70	114,30	4,20	4,06	41,20	41,70	3,33	5,30	4,06		
	47,60	114,30	4,20	4,06	47,10	47,60	3,33	5,30	4,06		
	53,50	114,30	4,20	4,06	53,00	53,50	3,33	5,30	4,06		
	59,40	114,30	4,20	4,06	58,90	59,40	3,33	5,30	4,06		
	65,30	114,30	4,20	4,06	64,80	65,30	3,33	5,30	4,06		
OVERHANGS	6,60									4,26	6,54
	12,60									4,46	6,54
	18,60									4,86	6,54
	24,60									5,80	6,54

**4A MODEL HIGH PIVOT**

	L (m)	Ø (mm)	A	A1	B	C	D	E	L	G	H
SPANS	35,80	114,30	4,85	4,71	35,30	35,80	3,98	5,95	4,71		
	41,70	114,30	4,85	4,71	41,20	41,70	3,98	5,95	4,71		
	47,60	114,30	4,85	4,71	47,10	47,60	3,98	5,95	4,71		
	53,50	114,30	4,85	4,71	53,00	53,50	3,98	5,95	4,71		
	59,40	114,30	4,85	4,71	58,90	59,40	3,98	5,95	4,71		
	65,30	114,30	4,85	4,71	64,80	65,30	3,98	5,95	4,71		
OVERHANGS	6,60									4,91	7,19
	12,60									5,11	7,19
	18,60									5,51	7,19
	24,60									6,45	7,19

**4A MODEL ULTRA HIGH PIVOT**

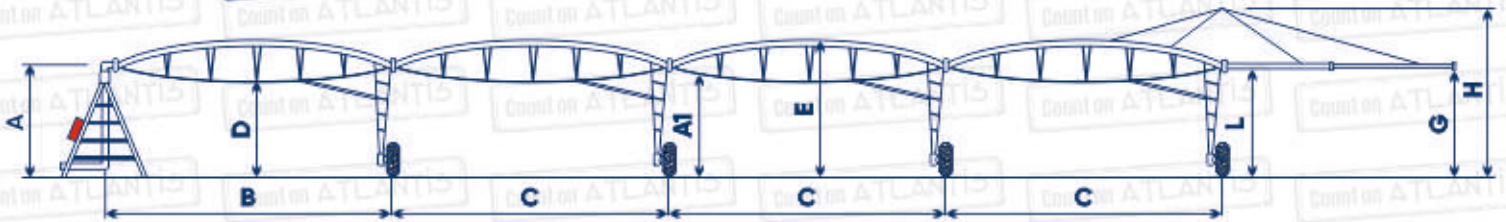
	L (m)	Ø (mm)	A	A1	B	C	D	E	L	G	H
SPANS	35,80	114,30	5,50	5,36	35,30	35,80	4,63	6,60	5,36		
	41,70	114,30	5,50	5,36	41,20	41,70	4,63	6,60	5,36		
	47,60	114,30	5,50	5,36	47,10	47,60	4,63	6,60	5,36		
	53,50	114,30	5,50	5,36	53,00	53,50	4,63	6,60	5,36		
	59,40	114,30	5,50	5,36	58,90	59,40	4,63	6,60	5,36		
	65,30	114,30	5,50	5,36	64,80	65,30	4,63	6,60	5,36		
OVERHANGS	6,60									5,56	7,84
	12,60									5,76	7,84
	18,60									6,16	7,84
	24,60									7,10	7,84

# ATLANTIS

## PIVOT MODELS TECHNICAL DETAILS

### CENTER PIVOT & LINEAR SYSTEMS

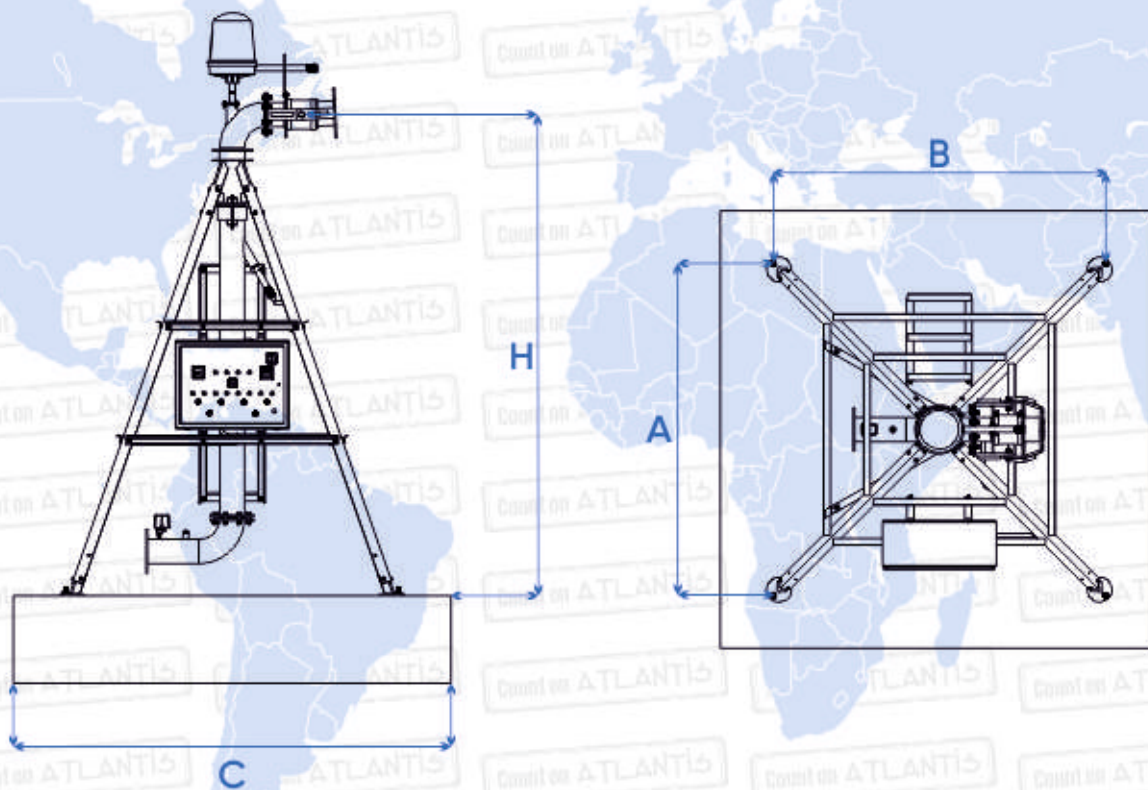
**COUNT ON IT**



### 4V MODELS

#### 4V MODEL STANDARD PIVOT

	L (m)	Ø (mm)	A	A1	B	C	D	E	L	G	H
SPANS	38,80	114,30	2,75	2,59	38,50	38,80	1,98	3,82	2,59		
	44,70	114,30	2,75	2,59	44,40	44,70	1,98	3,82	2,59		
	50,60	114,30	2,75	2,59	50,30	50,60	1,98	3,82	2,59		
	56,50	114,30	2,75	2,59	56,20	56,50	1,98	3,82	2,59		
	62,40	114,30	2,75	2,59	62,10	62,40	1,98	3,82	2,59		
OVERHANGS	6,60									2,79	3,95
	12,60									3,06	3,95



#### 4V MODEL MAIN TOWER

A	B	C	D
1,89	1,89	2,50	2,75

**COUNT ON IT**

## ATLANTIS



Pivot Point Legs	80 x 80 x 6-8mm
Collector	10,11,12,13 Conductor
Main Control Panel	110 V EU Standart
Tower Boxes	IP 55 EU Standart
Span Cable	11 Conductor*
Pivot Point	8-5/8"
Bolts and Nuts	8.8 Quality, Fiber Lock
Span Joint	Key Joint
Span Pipes	8 5/8", 6 5/8", 5 9/16" and 4 1/2" Bold 2,7-4,0mm
Truss Rods	16,17,5,19,22mm
Frame Branches	50 x 50 x 5mm or 50 x 50 x 4mm
Tower Legs	80 x 80 x 6 - 8 mm 70 x 70 x7- 6 mm
Drive Tube	6" x 2,7-3mm 5" x 2,7-3 mm 4" x 2,7-3mm
Gear Boxes	Vicky Brand*, Commins or UMC
Gear Motors	Vicky Brand*, Commins or UMC
Drive line Coupling	PTO Shaft or Alum. Coupling
Tyres	14,9 x 24-6 or 8ply 85-95 kgs - Vicky*/Ozka Brand
Sprinklers	Senninger, Nelson, Komet
P.Regulator	Senninger, Nelson, Komet
Goosneck	Steel or Reinforced Plastic
Sprink Hose	Atlantis With UV
Galvanizing	80 - 120 Micron (3,2-6mils)
Hook up System	OPTIONAL ACCESORIES
<b>(OPTIONAL ACCESORIES)</b>	8" or 6" Indirect Main Line Hook up With Z Pipe
	8" or 6" Flowmeter
	8" or 6" Check Valve
	Air Release Valve
	Bolts , Nuts and Gaskets
Fertiliser System	(OPTIONAL ACCESORIES)
Pump	ITC/SEKO 300L/H 7 Bar
Mixer	0,82 Kw Blower or Mechanical Agitator With 1,5mts
	Water Tank is not delivered with Fertiliser System

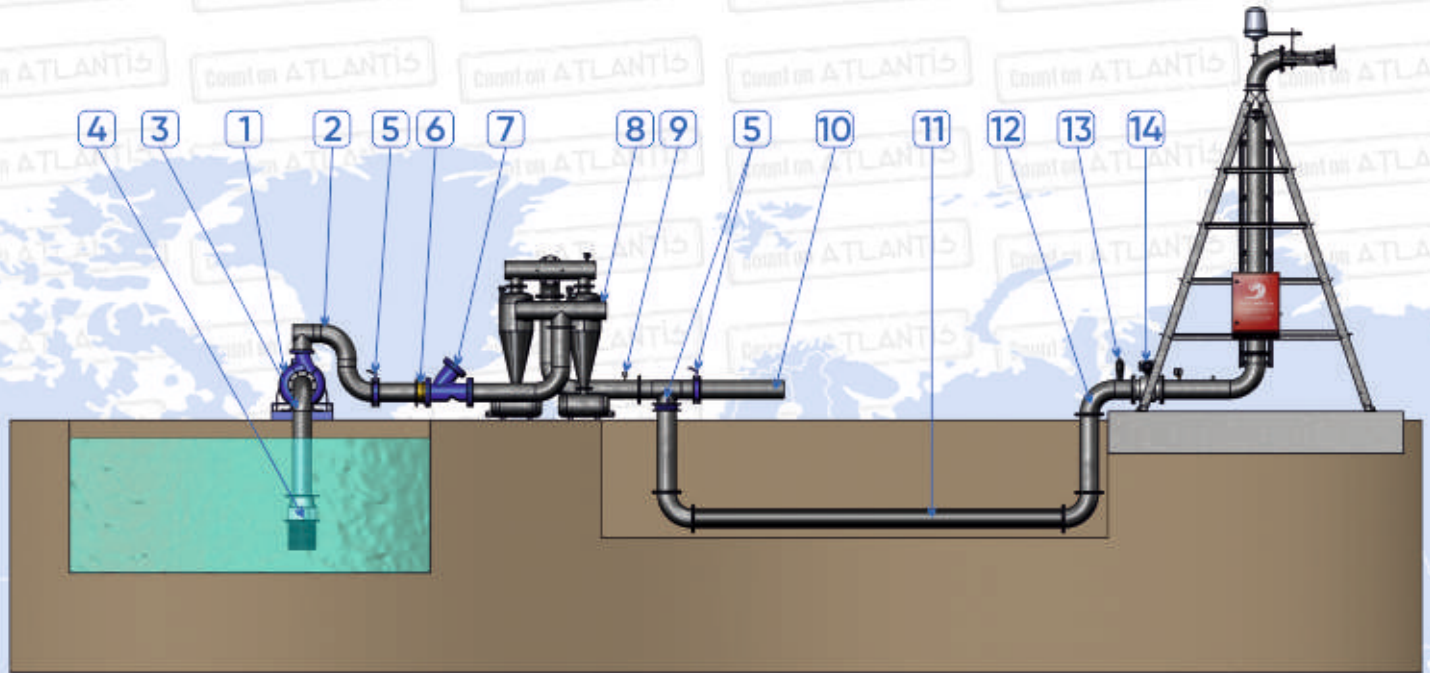
\* Vicky is Atlantis registered Brand

# ATLANTIS

CENTER PIVOT & LINEAR SYSTEMS

**COUNT ON IT**

## SAMPLE PUMP, FILTER AND CENTER PIVOT CONNECTIONS DESIGN (OPTIONAL)



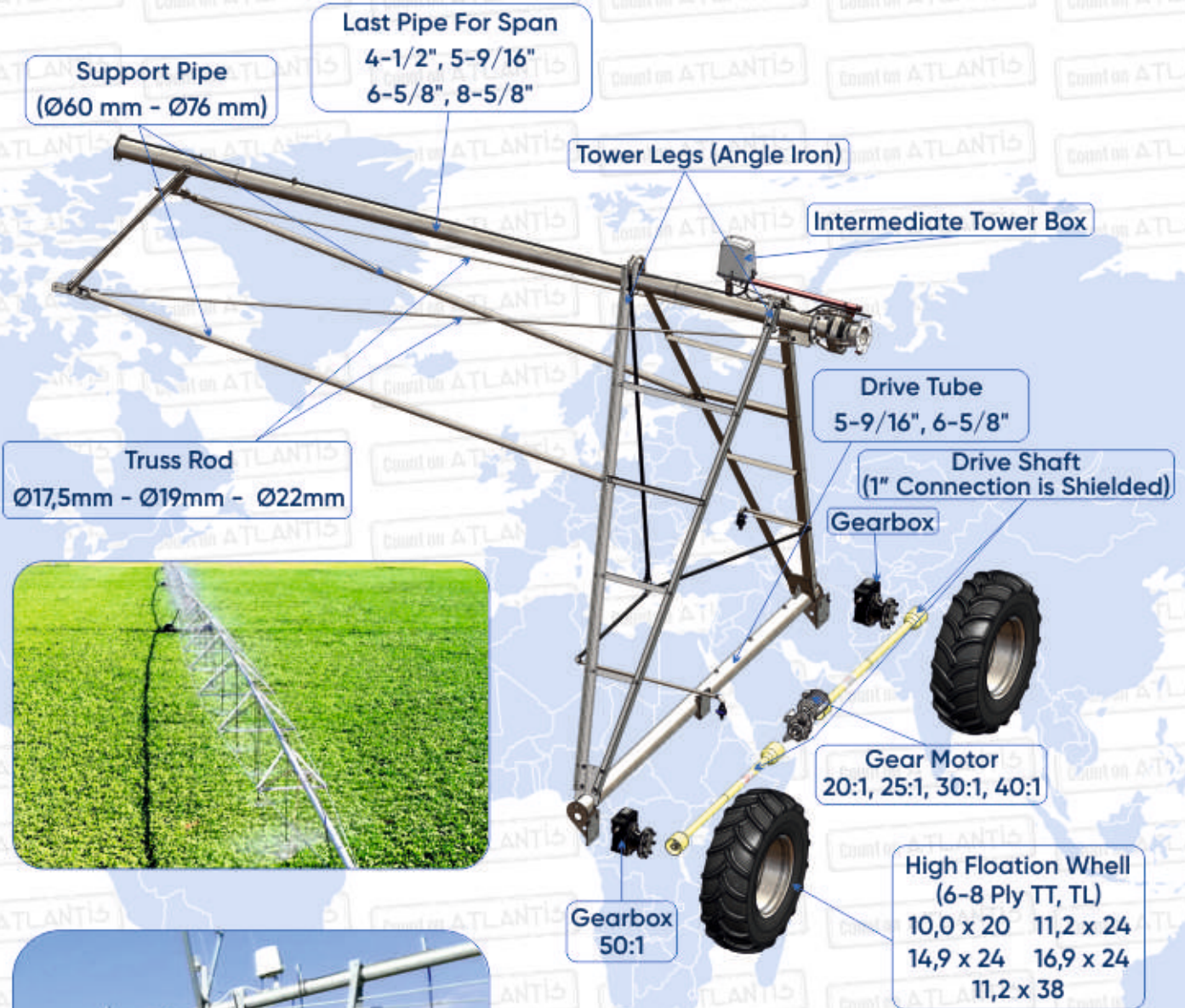
ITEM NO	DEFINITION	QUANTITY
1	Centrifugal Pump	1
2	Pump Water Line	1
3	Pump Suction Line	1
4	Suction Filter With Check Valve	1
5	BF Valve	3
6	NR Valve	1
7	Pressure Relief Valve	1
8	Hydrocyclone Set	1
9	Manometer	1
10	Dirt Drain Pipe	1
11	PE Outline Pipe	1
12	Inlet S Pipe	1
13	AR Valve	1
14	Flowmeter	1

TECHNICAL SPECIFICATIONS OF  
CENTER PIVOTS -WHEEL TOWER

# ATLANTIS

CENTER PIVOT & LINEAR SYSTEMS

**COUNT ON IT**

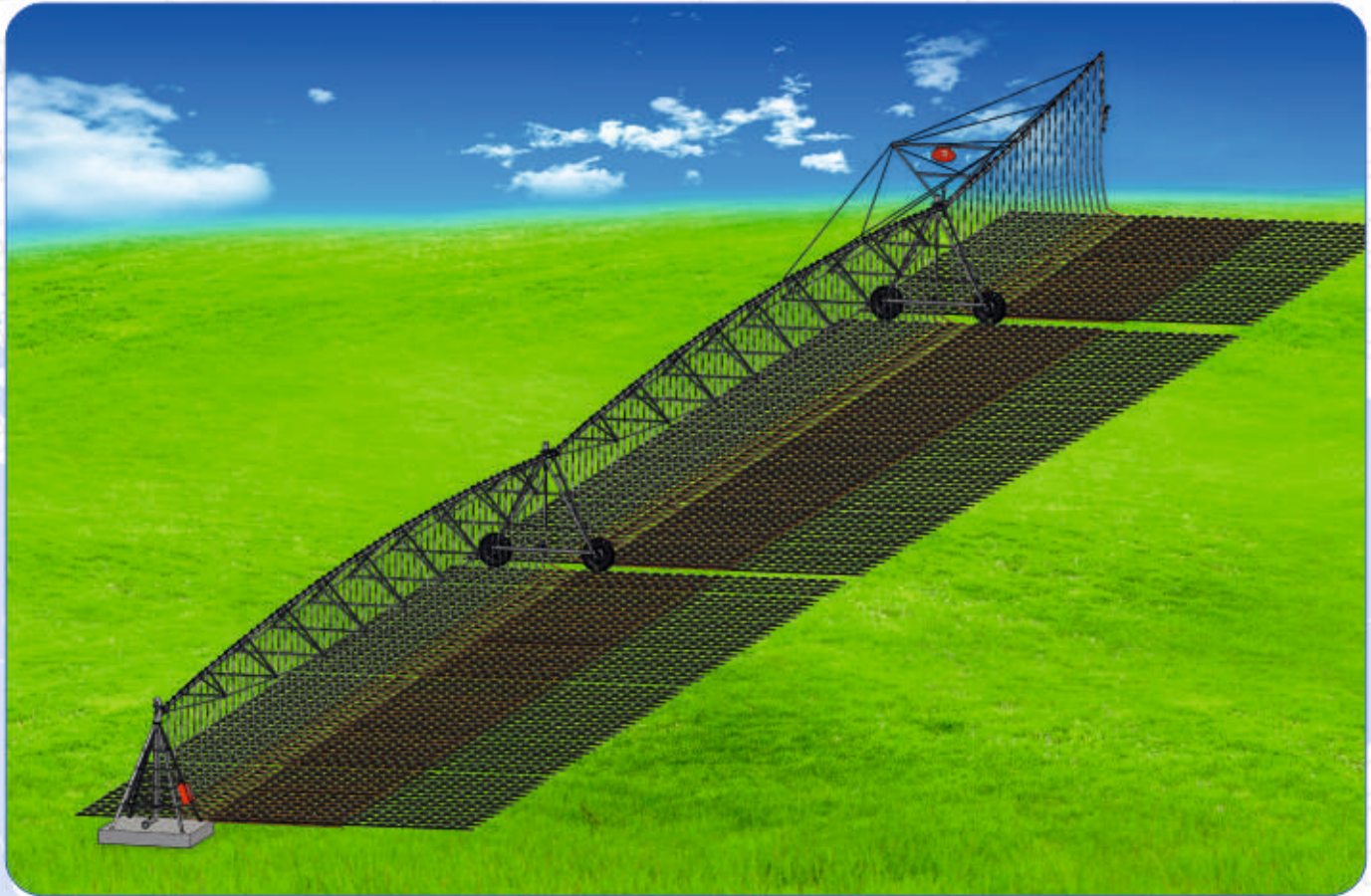


# ATLANTIS

MOBILE DRIP IRRIGATION (MOBILE CENTER DRIP)

CENTER PIVOT & LINEAR SYSTEMS

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These are systems that have been developed due to the more efficient use of decreasing water resources and the need for automatic irrigation machines. With the drip irrigation pipes added to the existing Center Pivot irrigation machines, the machines have the capability of both sprinkler and drip irrigation. In this way, the advantages of drip irrigation and the advantages of center pivots are combined to enable irrigation. . Water application efficiency can reach up to 95-98%.

1) As a result of the use of multi-year drip irrigation pipes, it is environmentally friendly. You don't have to buy drip irrigation pipes all the time.

2) It is economical and easy to maintain since a pipe is used at a rate of 1% -10% of the current drip irrigation pipe amount.

3) It provides the opportunity to do both sprinkler and drip irrigation with the same machine.

4) It is an automatic system. In this way, labor costs are minimized.

5) Fertilizers and pesticides can be applied either from the leaves or to the soil.

With Center Pivot Irrigation Systems,

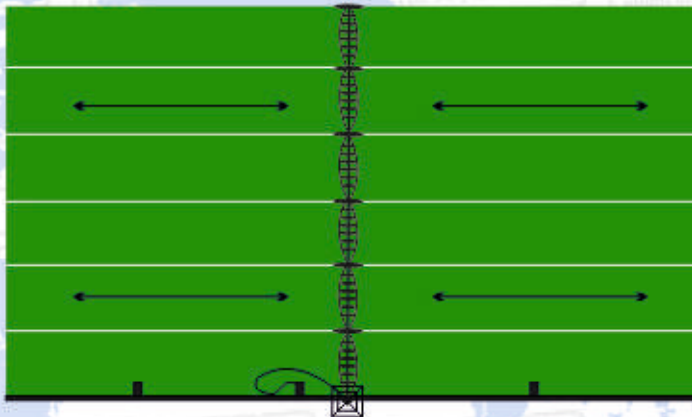
- Corn, Wheat, Sunflower
- Candy Cane, Canola,
- Barley, Clover,
- Sugar beet,
- Dwarf Fruit and Citrus Trees,
- Melon watermelon,
- All forage crops,
- Cotton, Onion, Potato
- Legumes,
- And many other plants can be watered.

# ATLANTIS

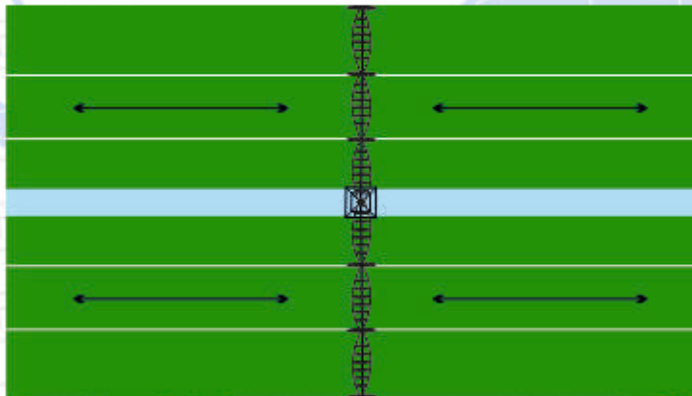
CENTER PIVOT & LINEAR SYSTEMS

**COUNT ON IT**

## LINEAR IRRIGATION SYSTEM



Many agricultural areas in the world consist of small and rectangular-shaped lands. Machines that move linearly are needed to irrigate these lands.



Thanks to the technology developed by Atlantis, min. We can produce machines that start from 2 hectares and can irrigate up to 300 hectares with a single machine. In this way, we are able to produce solutions for small farmers and large agricultural investors.



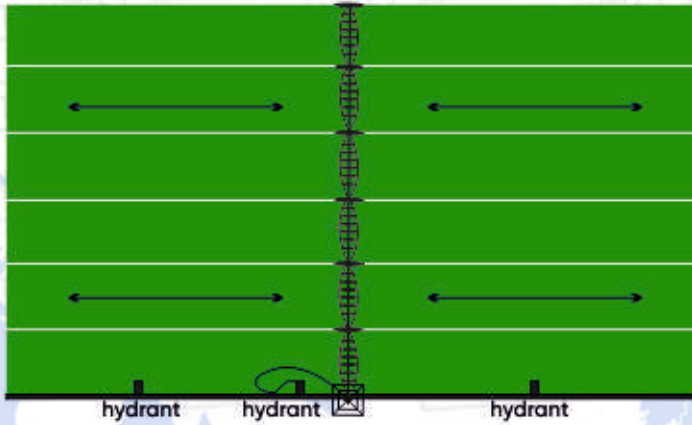


# ATLANTIS

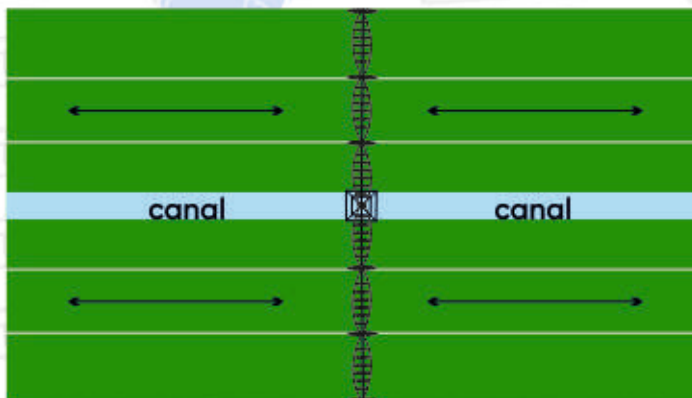
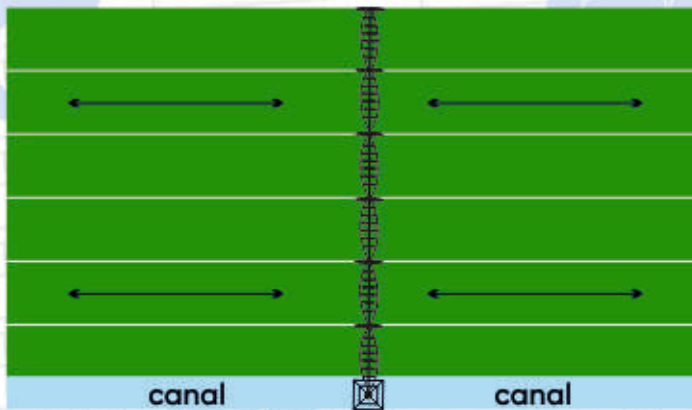
CENTER PIVOT & LINEAR SYSTEMS

**COUNT ON IT**

## HOSE FEED LINEAR



## DITCH FEED LINEAR





Linear irrigation systems are systems developed to irrigate thin and long rectangular fields by moving straight. For the system to work, the machine takes water along a line and irrigates by moving linearly. The machines can work comfortably at slopes of up to 4-5%. The length of the systems can reach up to 1000 meters.

Linear Irrigation Machines can provide irrigation efficiency up to 85-95%. Linear Irrigation Machines do not leave an irrigated area by irrigating up to 98% of the land. It is possible to fertilize from a single center with systems.

Linear Irrigation Machines can provide irrigation efficiency up to 85-95%. Linear Irrigation Machines do not leave an irrigated area by irrigating up to 98% of the land. It is possible to fertilize from a single center with systems.



# ATLANTIS

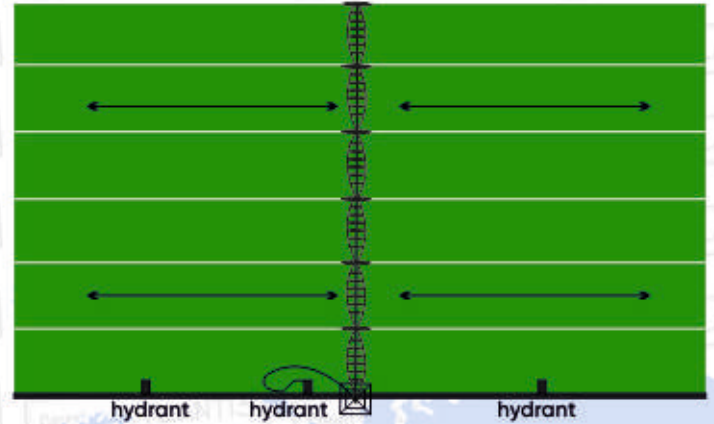
CENTER PIVOT & LINEAR SYSTEMS

## LINEAR IRRIGATION SYSTEMS

### COUNT ON IT

#### 2 WHEEL LINEAR IRRIGATION MACHINES

The water taken from the main pipe, which is laid under the ground throughout the land, by hydrant every 200 meters, is connected to the linear system with the help of the lateral pipe.

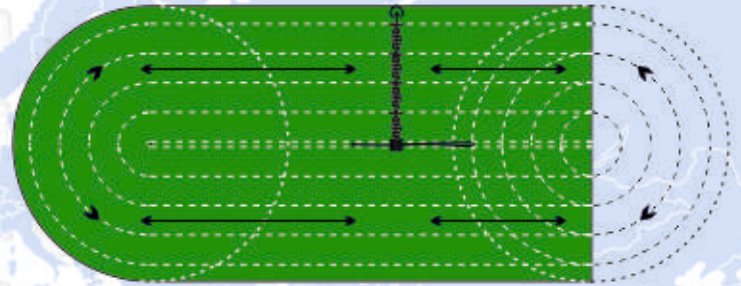


#### 4 WHEEL LINEAR IRRIGATION MACHINES

These are systems that consist of 4 wheels and have a strong traction system designed to irrigate larger lands with linear machines.

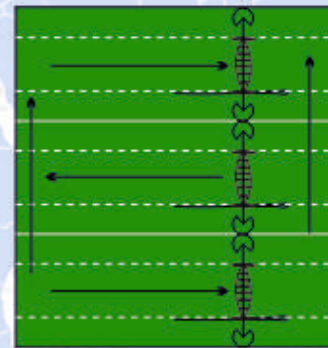
#### HIPPODROME SYSTEM LINEAR IRRIGATION MACHINES

With this type of machines, you can irrigate like Hippodrome. It is possible to irrigate larger lands with a single machine.



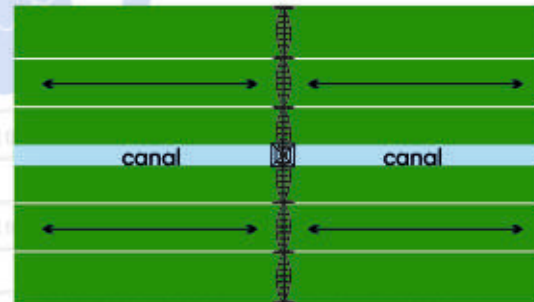
#### TOWABLE LINEAR IRRIGATION MACHINES

The machine, designed for irrigation of rectangular and side by side (adjacent) lands, can be carried to the side land by self-propelled or pulled with the help of a tractor and allows irrigation there.



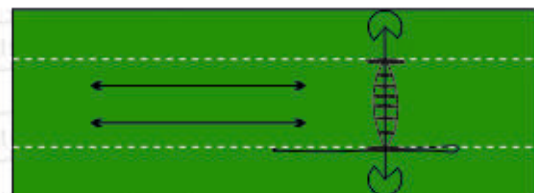
#### CHANNEL SUCTION LINEAR IRRIGATION MACHINES

They automatically irrigate by absorbing the water from the channel opened throughout the land, thanks to a pump placed on the linear machine. There is no need for a pipe to carry water in these machines. It is possible to irrigate larger lands with these systems.



#### MONO SPAN LINEAR IRRIGATION MACHINES

They are machines that consist of a single tower and are designed to irrigate small and side-by-side lands by being towed or manufactured as self-propelled. It is economical.

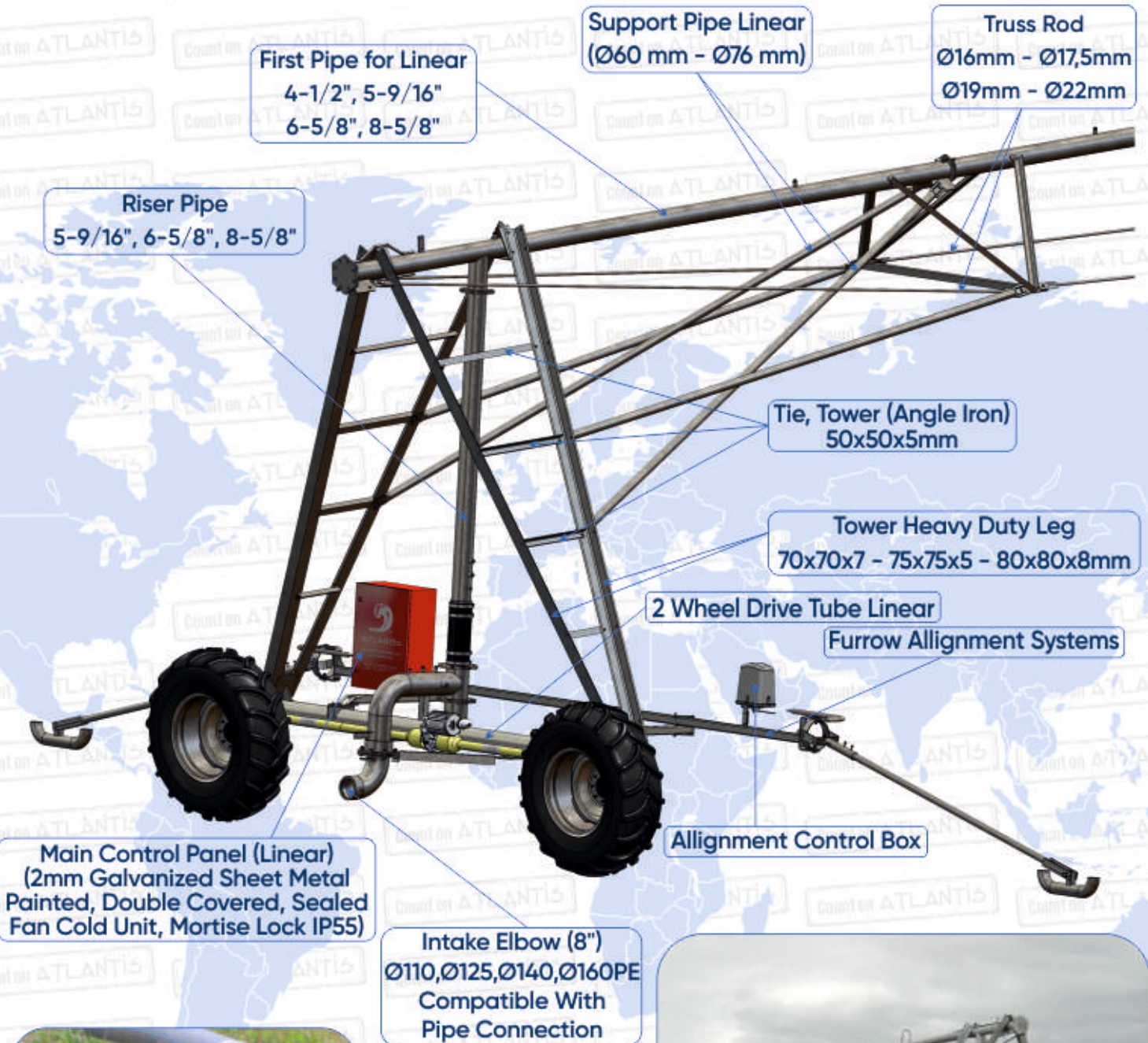


TECHNICAL SPECIFICATIONS OF  
LINEAR SYSTEM - 2 WHEEL LINEAR

# ATLANTIS

CENTER PIVOT & LINEAR SYSTEMS

**COUNT ON IT**

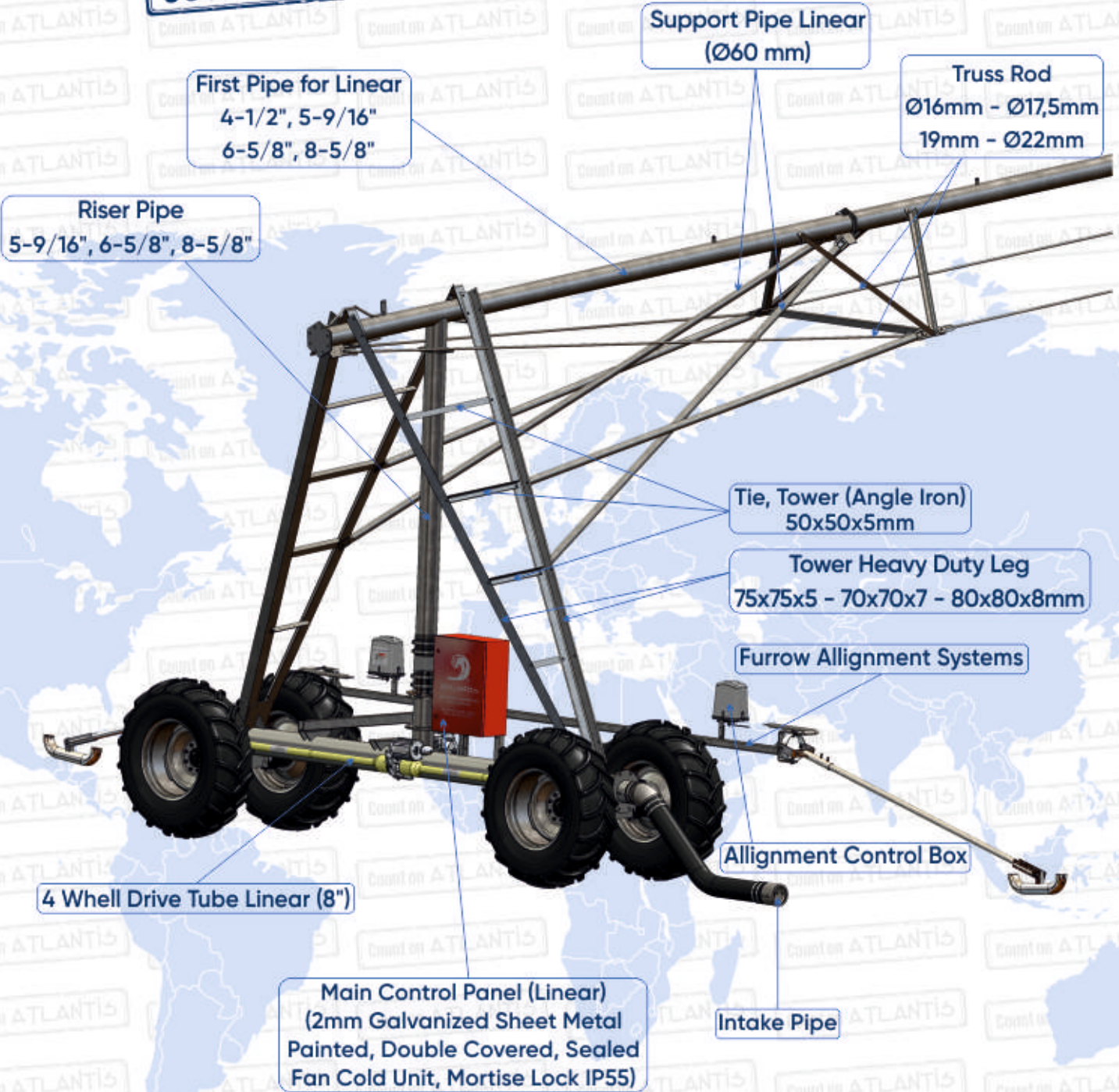


# ATLANTIS

CENTER PIVOT & LINEAR SYSTEMS

## TECHNICAL SPECIFICATIONS OF LINEAR SYSTEM - 4 WHEEL LINEAR

**COUNT ON IT**

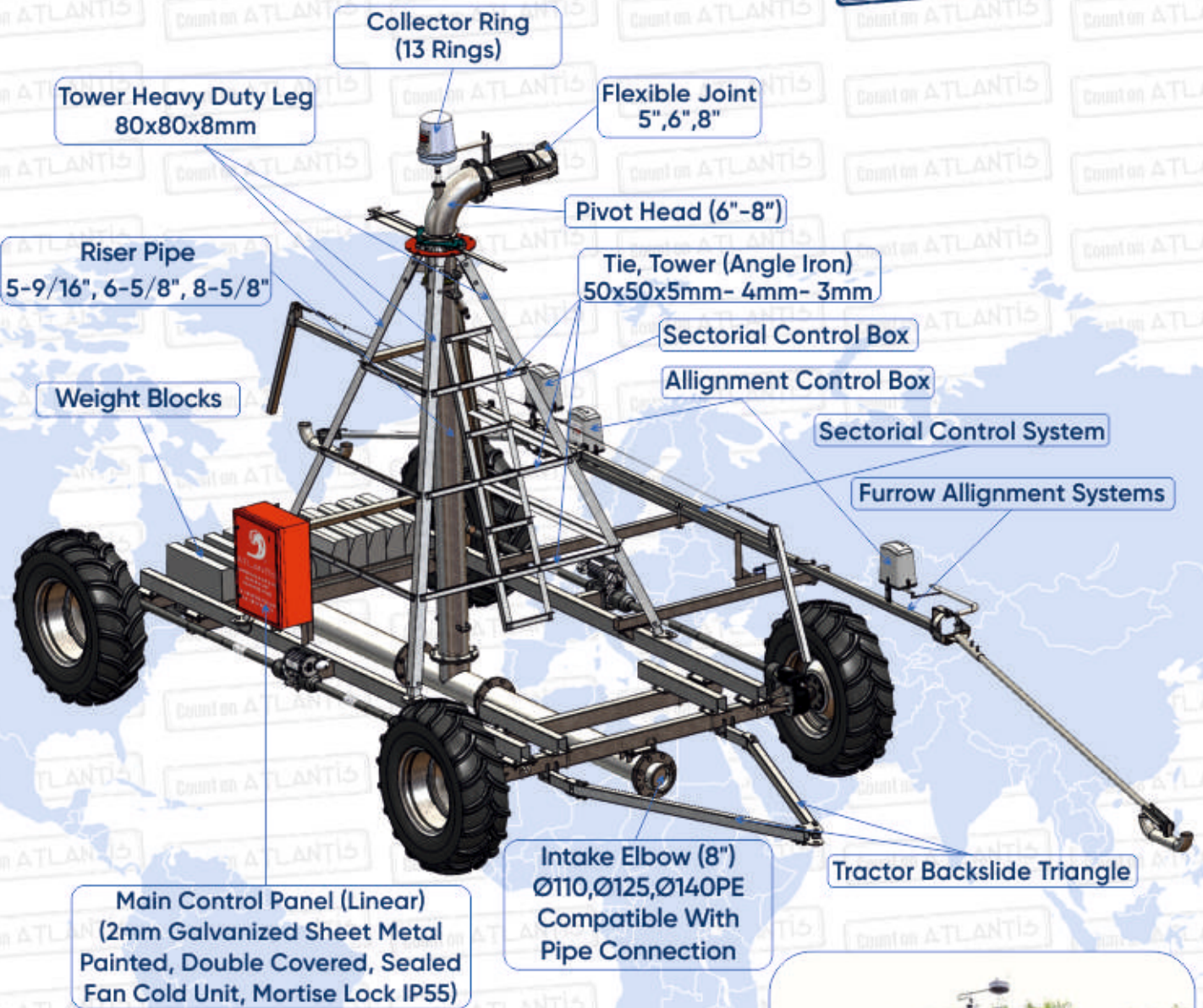


TECHNICAL SPECIFICATIONS OF  
CENTER LINEAR SYSTEM

# ATLANTIS

CENTER PIVOT & LINEAR SYSTEMS

**COUNT ON IT**



# ATLANTIS

CENTER PIVOT & LINEAR SYSTEMS

TECHNICAL SPECIFICATIONS OF

MULTICENTER SYSTEM

**COUNT ON IT**

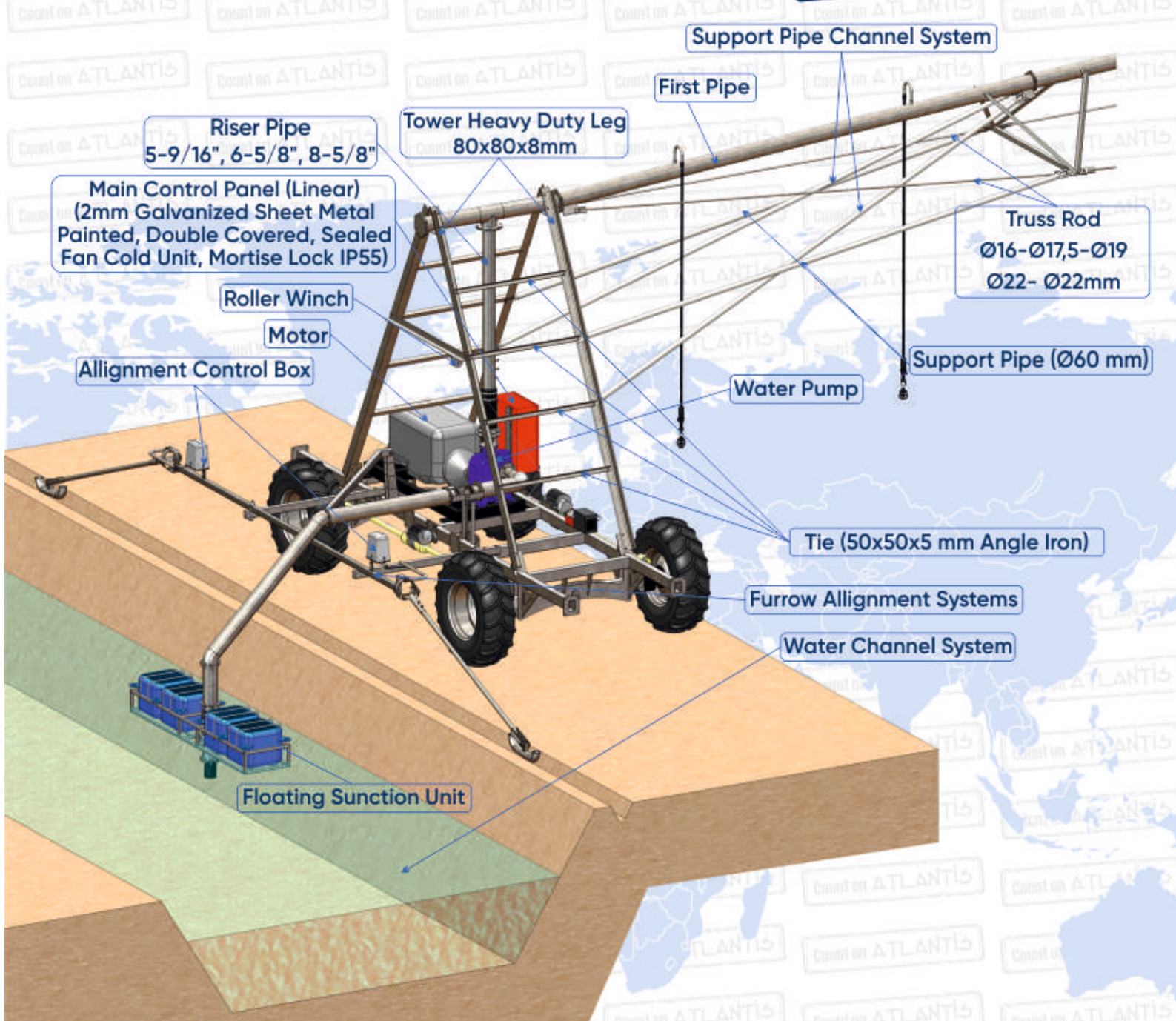


# SUCTION FROM CHANNEL SYSTEM

# ATLANTIS

CENTER PIVOT & LINEAR SYSTEMS

**COUNT ON IT**





# ATLANTIS

CENTER PIVOT & LINEAR SYSTEMS

CORNER CENTER PIVOT

**COUNT ON IT**



In the circular moving Center Pivot systems, more area can be irrigated thanks to a specially designed tower added to irrigate the corner areas where the system cannot reach more.

## PORTABLE (MULTICENTER) CENTER PIVOT



A single system is used to irrigate multiple fields. Thanks to the wheels mounted on the central tower that can move (in different directions), it can be carried by itself to the new irrigated area by walking or pulling it with the help of a tractor.

DRY WHEEL TRACK (OPTIONAL)

# ATLANTIS

CENTER PIVOT & LINEAR SYSTEMS

**COUNT ON IT**

## Dry Wheel Tracks

There is two solution to keep  
We use special sprinkls and valves.

**CENTER PIVOT**  
Single Direction



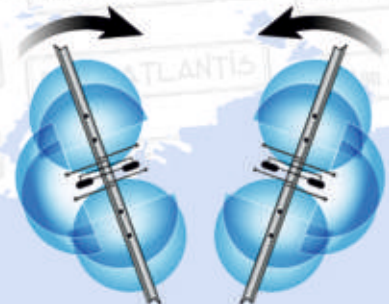
4 - IACO Hose Booms 10' or 15'

**CENTER PIVOT / LINEAR**  
Either Direction

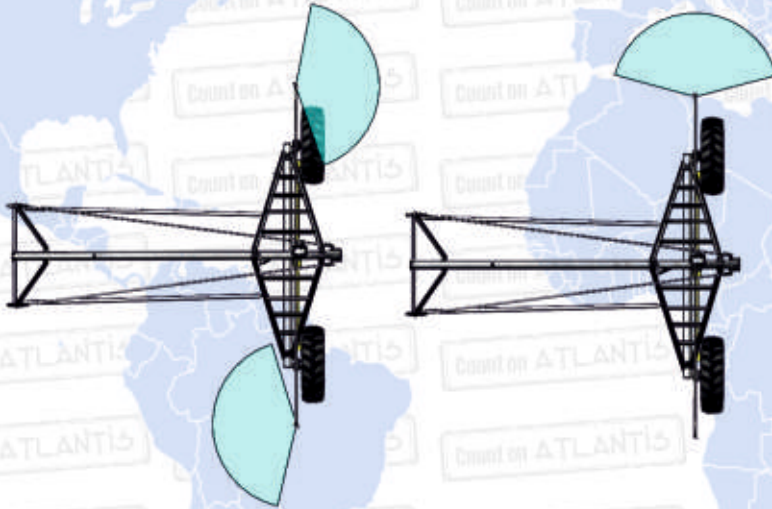


8 - IACO Hose Booms 10' or 15'  
1 - FluidPulse ValveCommander  
8 - Diaphragm Valves

**WIPER / CENTER PIVOT**  
Either Direction



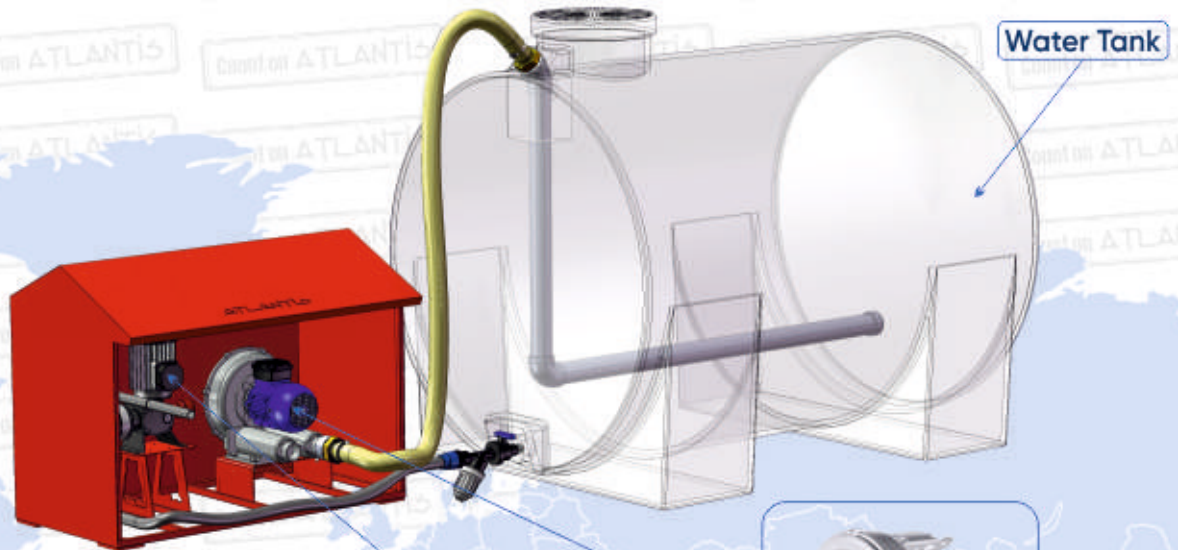
8 - IACO Hose Booms 10' or 15'  
1 - FluidPulse ValveCommander  
8 - Diaphragm Valves



**COUNT ON IT**

## Mechanical Diaphragm Metering Pumps MS1 Series

MS1 pumps are mechanical diaphragm metering pumps featuring a spring return mechanism in an aluminium housing.



**Dosing Pump  
1.6 - 5.5 Hp**



### FEATURES

Capacity: from 5,5 to 460 L/h  
Max pressure: 10 BAR  
Stroke rate: 58 • 78 • 116 strokes/minute  
Diaphragm diameter: from 64 to 165 mm  
Motor: standard 0,18 • 0,25 • 0,37 Kw (IP 55)  
Stroke length: 2 mm • 4 mm • 6 mm

### SINGLE IMPELLER

Flow rate: from 40 to 1370 m<sup>3</sup>/h  
Pressure: from 70 to 480 mbar  
Vacuum: from -60 to -340 mbar  
Motor : Single or 3-Phase  
Noise : from 46 to 71 dB A



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CENTER PIVOT & LINEAR SYSTEMS

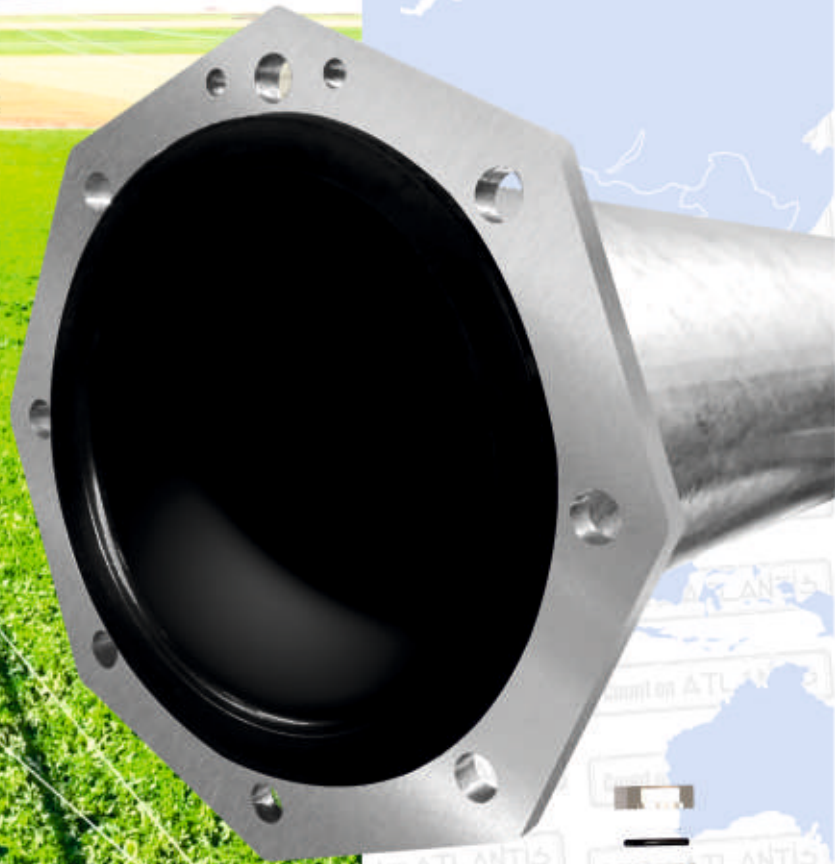
COUNT ON IT

CHOOSE THE BEST PIPE FOR YOUR AGRICULTURAL FIELD

# PolyPipe

Lining stands up to the most corrosive water or wastewater

Long-life, polypipe with  
galvanized steel pipe,  
made by ATLANTIS



[www.atlantismuhendislik.com](http://www.atlantismuhendislik.com)

# ATLANTIS

CENTER PIVOT & LINEAR SYSTEMS

INCREASES EFFICIENCY  
WITH HIGH PERFORMANCE

COUNT ON IT

## IRON BACTERIA

Groundwater, especially in Middle Eastern countries and African countries, are fossil water resources that have been formed over millions of years. Many of these water resources contain high levels of iron.

Dissolved iron found in groundwater is Iron ( $Fe^{++}$ ) as iron. Soluble iron-containing iron compounds are colorless when dissolved in water.

Ferric ( $Fe^{+++}$ ) oxidizes to iron when groundwater containing iron is pumped to the surface. This Ferric Oxide ( $Fe_2O_3$ ) is insoluble and reddish / brown in color. Its common name is rust and is particularly responsible for damage to pumps and Center Pivot pipes.

Since the rust particles are very small, they start to adhere to the surface of the pipe with the irrigation water and over time, most of these particles accumulate on the pipe, causing the pipe to rot and causing the center pivot to be damaged.

Iron in irrigation water can be an essential nutrient for plants, but instead it oxidizes when in contact with air, blocking the Center Pivot sprinkler nozzles, filters, pump assemblies and Center Pivot Span pipes, contributing to scale formation in the pipes, which also narrows the inner diameter of the pipe. The amount of water passing through will be significantly reduced. However, serious yield losses may be experienced as there will not be sufficient development in plants that receive insufficient water.

Since the accumulation of iron, lime or other chemicals in Atlantis Polypipe pipe will be less, your pump will continue to operate with less energy like the first day. Since there is no accumulation in the steel pipe, the pipes will last much longer.



**UNIQUE CONDITIONS  
REQUIRE SPECIFIC SOLUTIONS**

# ATLANTIS

CENTER PIVOT & LINEAR SYSTEMS

**COUNT ON IT**

- Atlantis has provided a superior protection against problematic water sources by coating the inside of the standard galvanized pipe of the Center pivot and Linear irrigation systems with polyethylene pipes with Polypipe, which it has developed as a result of its R&D studies for more than 5 years. In this way;

- Longer life span of Center Pivot and Linear Irrigation Systems has been provided.

- The pipe, which is more durable with PE inner coating in addition to galvanized coating, will provide impermeability for many years.

- Thanks to Polypipe, it is not affected by sand or sediments in the irrigation water. In this way, it is a system that you can use for many years.



With 3mm thick high quality Polyethylene placed inside the irrigation pipes covered with hot dip galvanized with a special technique, the pipes have been used for a longer time. Chemicals used for chemical fertilization or plant protection purposes, especially with irrigation water, cause serious wear and damage in pipes. Thanks to Atlantis Polypipe, galvanized and polyethylene coated pipes in irrigation systems are extra long-lasting.

TYPE OF WATER	Material Performance (%)				
	PolyPipe	Stainless Steel	Weathering Steel	Cathodic Anode	Galvanized Steel
<b>Soft Water</b> (low in carbonate, bicarbonate, calcium and magnesium)	%100	%20	%60	%10	%10
<b>Salty Water</b> (high in total dissolved solids and electroconductivity)	%100	%60	%10	%75	%10
<b>Acidic or Alkaline Water</b> (pH less than 6.2 or higher than 8.5)	%100	%45	%0	%0	%0
<b>High concentrations of chlorides and/or sulfates</b>	%100	%20	%0	%20	%0

**"The ultimate solution for corrosive water environments"**

# ATLANTIS

CENTER PIVOT & LINEAR SYSTEMS

**COUNT ON IT**

IMPROVED FLOW WITH  
REDUCED ENERGY REQUIREMENTS

## FOR A LONGER LIFE IRRIGATION SYSTEM, ATLANTIS PolyPipe

- Longer lifetime, as residue accumulation in the pipe is minimal,
- Reduce the energy consumed in the Pump by an average of 25% compared to a standard pipe
- It reduces pipe damage caused by the use of fertilizers, herbicides, pesticides and fungicides.
- Improves system performance by providing better water flow due to less friction, less pressure loss.
- Provides longer life for your irrigation system and reduces maintenance costs.
- Maintains nozzle performance for a homogeneous water distribution
- Prevents iron bacteria, algae and biofilm formation.

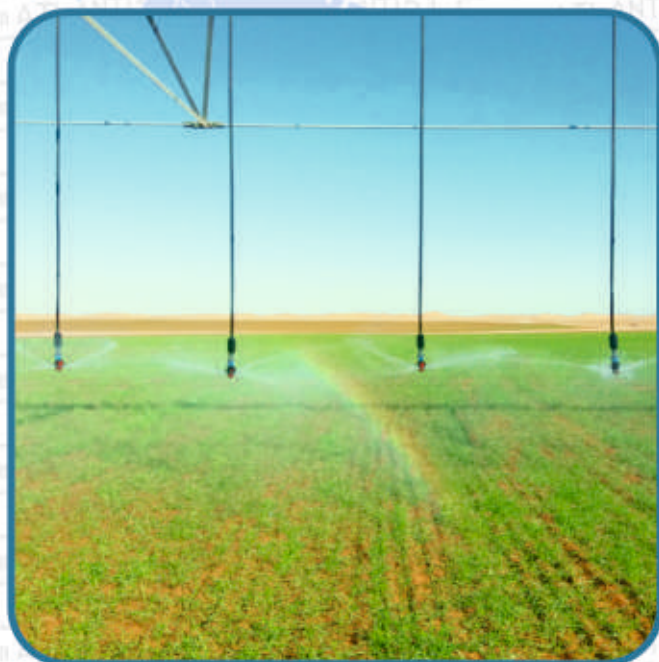


Provides a more uniform water distribution and a better throw distance in irrigation sprinklers.

All materials except Atlantis PolyPipe are not resistant to water corrosion. The quality of the water may reduce the life of the pipe within 1 year or a few years. With Atlantis PolyPipe, you can eliminate many problems in the water supply.

It is observed that even galvanized products are damaged and pipe life is shortened significantly in cases where the water source is caused by corrosion.

To determine the type of pipe you need, simply contact Atlantis and send a detailed analysis of your water supply. Our expert teams will offer you the right option in a short time.

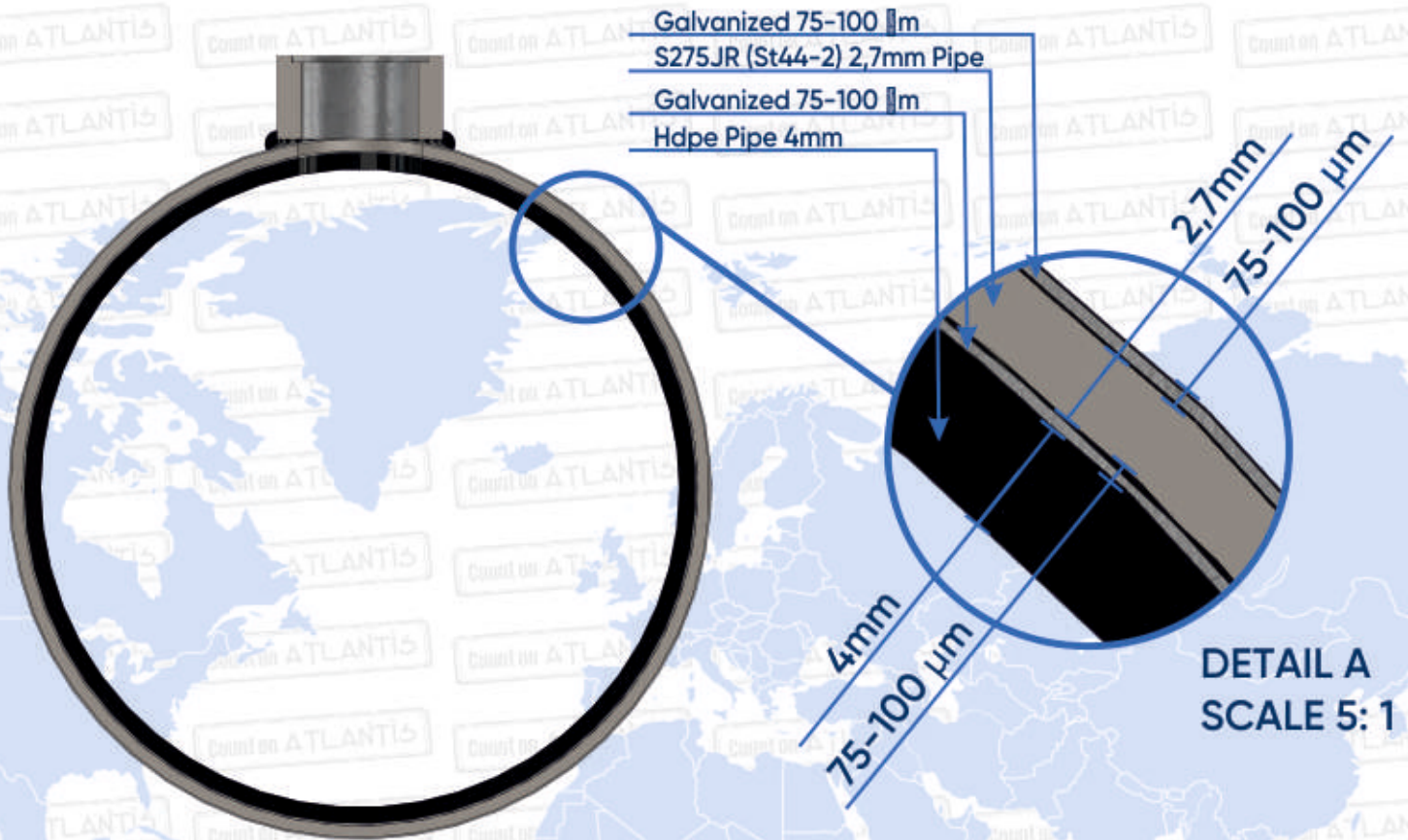


EXTENDS PIPELINE  
LIFE IN ALL WATER CONDITIONS

# ATLANTIS

CENTER PIVOT & LINEAR SYSTEMS

COUNT ON IT

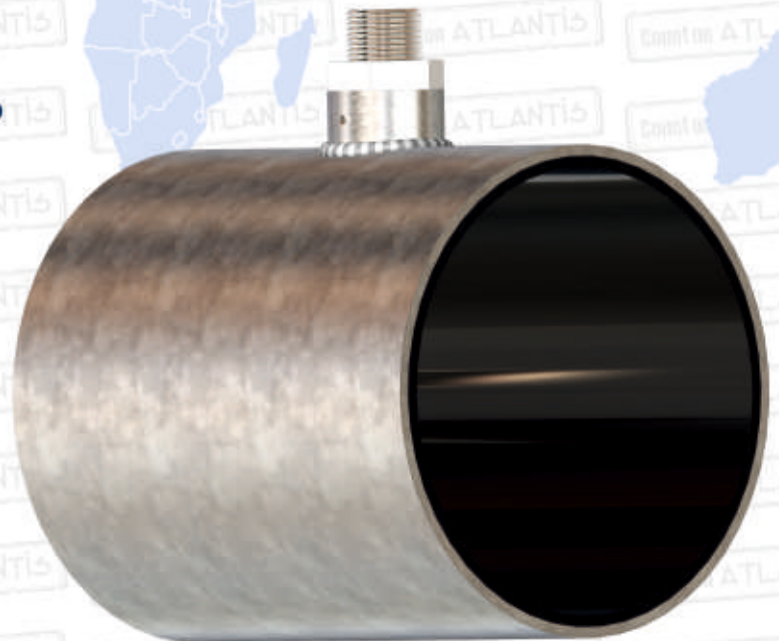


## CORROSIVE WATER SOLUTIONS

- Corrosive Factors
- Acidic (low pH)
- Alkaline (high pH)
- Soft water (low mineral content)
- Some chemical additives for crop management

PolyPipe(HDPE)  
High Density Polyethylene (HDPE)

PolyPipe are Available with Atlantis  
pivots, Center Linear , Towabl Pivot  
and all Linear models.





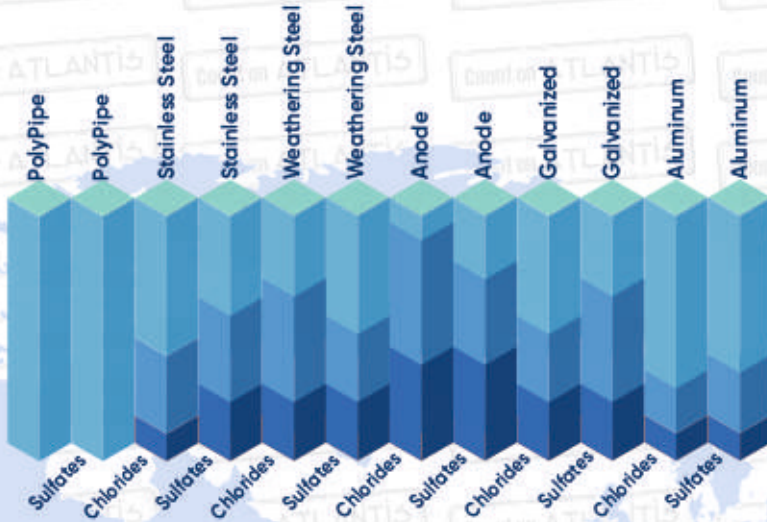
# ATLANTIS

CENTER PIVOT & LINEAR SYSTEMS

## MATERIAL SELECTION GUIDELINES

**COUNT ON IT**

### Concentration, PPM



### Chloride & Sulfate Concentration Guidelines for Pipeline Life

Minimal Life Shortened Life Average Life



**POLYPIPE LINING STANDS UP TO THE MOST CORROSIVE WATER OR WASTEWATER.**

pH, chlorides, and sulfates are not a complete indication of corrosion potential. Other corrosive elements may affect the life of all materials listed. Your dealer will provide a water analysis to determine the best solution for your particular situation.

### pH

	PloyPipe	Stainless Steel	Weathering Steel	Anode	Galvanized	Aluminum
12	Minimal Life	Shortened Life	Average Life	Average Life	Average Life	Average Life
10	Minimal Life	Shortened Life	Average Life	Average Life	Average Life	Average Life
8	Minimal Life	Shortened Life	Average Life	Minimal Life	Minimal Life	Minimal Life
6	Minimal Life	Shortened Life	Average Life	Minimal Life	Minimal Life	Minimal Life
4	Minimal Life	Shortened Life	Average Life	Minimal Life	Minimal Life	Minimal Life
2	Minimal Life	Shortened Life	Average Life	Minimal Life	Minimal Life	Minimal Life

### pH Guidelines for Pipeline Life

Minimal Life Shortened Life Average Life

Count on ATLANTIS

# ATLANTIS

CENTER PIVOT & LINEAR SYSTEMS

COUNT ON IT

# CENTER PIVOT & DRIP IRRIGATION



"Choosing the right irrigation system ..."

[www.atlantismuhendislik.com](http://www.atlantismuhendislik.com)

SUNFLOWER COTTON

CANOLA WHEAT ALFALFA

CORN SUGAR REED

BARLEY ONION ALL FEED PLANTS MELON

SUGAR BEET WATERMELON SUNFLOWER WHEAT

SHOVRT FRUIT PULSES

ONION POTATO

PUMPKIN

CANOLA watermelon

SUNFLOWER ALFALFA

CORN PEPPER MELON WHEAT PEPPER

COTTON

ALL FEED PLANTS

— ACCURATE COMPARISON —  
CORRECT RESULTS

# ATLANTIS

CENTER PIVOT & LINEAR SYSTEMS

**COUNT ON IT**

Center Pivot irrigation systems have been used worldwide since the 1950s. These systems have become more common over the years with new technological developments.

With new smart irrigation technologies, you can now control your irrigation system wherever you are in the world without going to the field.

Center Pivot and Linear irrigation systems, which are among the widely used irrigation systems, are compared with drip irrigation systems.

What are the known and mistakes in comparing irrigation systems? What should you consider when choosing systems? And how will you decide? Let's take a look at them together.

- What is the initial investment cost?
- What is the labor cost?
- What is the water application efficiency?
- What plants can you water?
- How long is the return on your investment?
- Is there any second hand value?

With the answers to the above questions, you will be able to easily choose the irrigation system that best suits you. And of course you will better understand the advantages of Center Pivot and Linear irrigation systems.



# ATLANTIS

CENTER PIVOT & LINEAR SYSTEMS

WHY CENTER PIVOT AND LINEAR IRRIGATION SYSTEMS

COUNT ON IT



## LAND SIZE

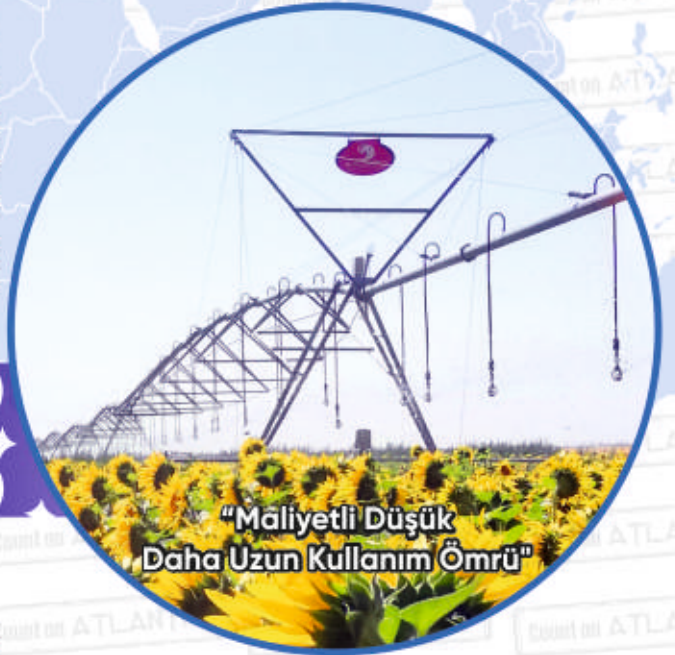
- Drip irrigation systems are more suitable for small and irregularly shaped lands, plants planted in a row, fruit trees.
- Center Pivot and Linear irrigation systems, on the other hand, are more suitable for lands with more regular borders, which are economically suitable for agriculture. It is especially suitable for irrigation of lands starting from 5 decares (0.5 ha) to thousands of decares / hectare.

PROTECT THE VALUE OF YOUR INVESTMENT



## Cost of the initial investment

- Drip irrigation systems are expensive in terms of initial investment costs. The initial investment costs of Center Pivot and Linear irrigation systems can range from 100 \$ -200 \$ / decare (1,000 \$ / ha-2,000 \$ / ha). On the other hand, the initial investment cost of drip irrigation systems varies between 250 \$ -400 \$ / decare (2,500 \$ / ha-4,000 \$ / ha). In other words, the initial investment cost of drip irrigation systems is 25% -100% more.



"Maliyetli Düşük  
Daha Uzun Kullanım Ömrü"

SAVE AT LOW COSTS

# ATLANTIS

CENTER PIVOT & LINEAR SYSTEMS

**COUNT ON IT**

## Lifetime of systems

- CenterPivot and Linear irrigation systems are longer lasting than drip irrigation systems. The lifetime of the systems can reach up to 20-25 years.
- After 5 years, you have to renew many elements of drip irrigation systems again, and even you can get the system working by paying the cost of re-installation. In contrast, only minor maintenance to Center Pivot and Linear systems.

## Second hand value

- Drip irrigation systems have no second hand value after use. In addition, you may have to pay additional costs for removal from your field.
- You can sell the Center Pivot and Linear systems second hand whenever you want.

- It is environmentally friendly as almost all of it is made of recyclable materials.
- Those who do field agriculture know very well that sprinkler irrigation is essential to germinate many vegetables or grains. If you use drip irrigation system, you must make an additional irrigation investment for the first germination. In this case, your initial irrigation investment will increase exponentially.

## Suitability for agricultural mechanization

- Another advantage of Center Pivot and Linear irrigation systems is that it is very easy to carry out all kinds of agricultural operations. For example, there is no need to lift or carry the pipe for activities such as hoeing, harvesting, spraying, as in drip irrigation.

**"Lower Cost, Longer Life, Saves You Money."**

## Pivot Irrigation System



1. year

5. year

10. year

15. year

20. year

First Investment

Continuous Use with Periodic Maintenance

## Drip Irrigation System



1. year

5. year

10. year

15. year

20. year

First Investment

Waste / Unusable  
Second Investment

Waste / Unusable  
Third Investment

Waste / Unusable  
Fourth Investment

Waste / Unusable  
Fifth Investment

# ATLANTIS

CENTER PIVOT & LINEAR SYSTEMS

REDUCE YOUR LABOR COST!

## COUNT ON IT

### Labor costs

- Drip systems have equipment that requires intensive labor. It requires a very intensive labor and labor to raise and lower the pipes. In addition, it takes a lot of time and labor to check whether thousands of meters long pipes are clogged, constantly cleaning filters, and repairing burst pipes.
- Once installed in Center Pivot and linear systems, the operations that you will perform are too small to compare with drip irrigation systems.

### Saving on water

- In general, common sense is shaped to provide water savings of drip irrigation systems. However, this is wrong from many points. Especially the high initial investment cost makes it difficult to add automation to systems. This causes the user to irrigation on the initiative or outside their control during operation and to use much more water than necessary.

- Since Center Pivot and Linear systems are fully automated and do not require additional investment, they save a large amount of water.  
**Product variety**

- There are claims that Center pivots cannot be used outside of a few products. However, this is not true. They are systems capable of irrigating almost all plants. They are not only suitable for watering trees such as coconut and palm trees of very high height.

- The great advantages of pivots appear in almost all plants.

CORN WHEAT SUNFLOWER SUGAR REED  
CANOLA BARLEY ALFALFA COTTON ONION  
POTATO SUGAR BEET SHOURT FRUIT  
CITRUS TREES MELON WATERMELON  
ALL FEED PLANTS PULSES

"Pivots not only save money, they also save water"



## AUTOMATIC PRECISION IRRIGATION MANAGEMENT

# ATLANTIS

CENTER PIVOT & LINEAR SYSTEMS

**COUNT ON IT**

### Suitable for automation

- Center Pivot irrigation systems are fully automatic irrigation machines. It will make irrigation by distributing your water to your field in the most economical way without requiring additional investment. At the same time, you can automatically deliver fertilizer and other chemicals with irrigation from the main center. On the other hand, a significant amount of additional investment is required for automation in drip irrigation systems.
- With remote control and monitoring over the Internet and mobile phone, you can manage your pivot the way you want, wherever you are in the world.
- In drip irrigation systems, it is not possible to follow each dripper or pipe remotely.

### Maintenance and repair costs

- Annual maintenance costs of Center Pivots are very low. You will have less than 1% annual maintenance cost for a pivot you purchase.
- However, in drip irrigation systems, a maintenance cost of approximately 7-10% of the investment occurs each year.

- Drip irrigation systems are systems that require great attention and care. If there is not a good enough filtration, most of the drippers will be blocked. In this case, it is possible for the system to become inoperable. For example, there will be more than 50,000 drippers in the drip irrigation system in an area of 50 ha (500 decares). It takes serious effort and time to control such a large number of water outlets.
- In the Center Pivot irrigation system, there are sprinklers not exceeding 100-150 pieces per 50 ha (500 decares). There is no need to walk around the field for the control of these sprinklers. Their maintenance is also very easy. In addition to all these, filtration, pressure equipment and pump elements that need to be controlled continuously in drip irrigation systems require additional time and labor. Center Pivot irrigation systems do not require filtration, which is an expensive investment.



## "Correct irrigation practices and use of chemical fertilizers"



" Smart Pivot Irrigation System With You Can Reach Your Machine From Anywhere You Want And Irrigate."





# ATLANTIS

CENTER PIVOT & LINEAR SYSTEMS

EASY DESIGN EASY OPERATION

COUNT ON IT



## Design and ease of installation

- The performance and success of an above-ground and sub-ground drip irrigation system (SDI) is highly dependent on the ingenious knowledge and attention of the designer.
- Center Pivot facilities are very easy to design, operate and maintain.
- When we compare the two systems in terms of assembly, there are enormous differences. Installation of the drip irrigation system requires great care.
- Compliance with the plant row spacing and proximity to the plant root zone are very important. However, especially the application of underground drip irrigation systems requires extra attention and effort.
- The rows should be arranged in accordance with the cultivation, hoeing and spraying of the field. Row spacing should be particularly suitable for the tractors and other machines to be used.
- In addition to these, it is obligatory to install pipes parallel to the slope and use pressure regulations in sloping areas. Pivot assembly is a simple standard process.
- Only necessary machinery and equipment are needed. It can be installed by a competent consultant.
- There is no need for an installation parallel to the slope. Since there are pressure regulations on the system, it does not need an additional investment.

## Filtration or clean water requirement

- In order to get a good efficiency from the drip irrigation system; expensive investment in filtration is required. Frequent inspection of filters; It should be cleaned with water or the discs in the filter screen should be replaced when necessary.
- Due to the irrigation head used in the Center or Linear Irrigation System, there is usually no need to use filters. This situation creates an important cost advantage for Center Pivots.

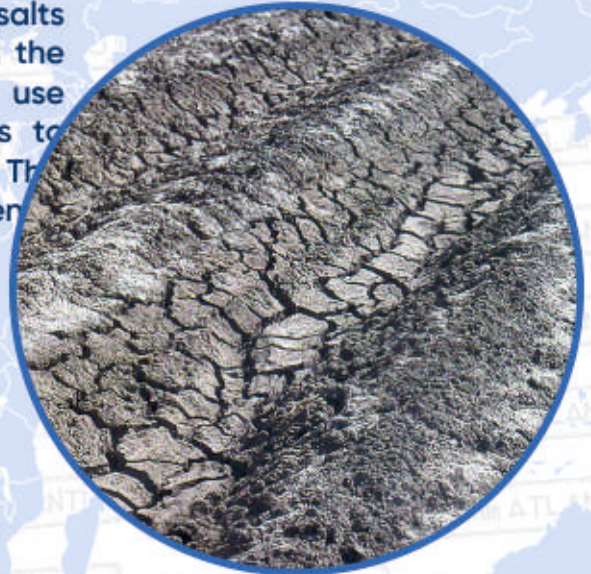
**COUNT ON IT**

## Germination and initial irrigation

- Germination is very important in crop production. If there is not enough and strong germination, you can cover the whole year with damage. The above-ground drip irrigation system is not particularly suitable for seed germination, in which case sprinkler irrigation is required.
- However, if a subsurface drip irrigation system is to be used, the seed cannot germinate as the dripline must be placed below the root zone. Sprinkler irrigation is mandatory in both ways. This requires an additional investment.
- Center Pivot; From the irrigation sprinkler nozzle on it directs the water to the soil like rain and ensures the germination of the seeds. No additional investment is required and a single system is sufficient to irrigate all plants.

## Blockage problem

- In a drip irrigation system, it is imperative to apply a low concentration of acid at regular intervals to dissolve salts and minerals dissolved in water that could clog the drippers. In addition to these, it is necessary to use chemicals in underground drip irrigation systems to prevent the plant roots from entering the dripper. This adds an additional expense and a heavy labor burden. In addition, it causes serious environmental pollution.



## Salinity problem

- Drip irrigation systems can cause salinization problems in the soil. Low water applications cause salt to move with water to the upper layers of the soil in hot regions.
- It is not possible to wash off the salt in the soil with drip irrigation. Underground drip irrigation systems can also cause salt formation in the root area.



# ATLANTIS

CENTER PIVOT & LINEAR SYSTEMS

**COUNT ON IT**

## Leaching Requirements

- Center Pivot system; Since it can irrigate in the form of sprinkler or surface irrigation, it washes the salt away from the root area correctly. Serious salt deposits occur in the drip irrigation system between the irrigated and non-irrigated areas. With Center Pivots, you can wash your entire field.



## HIGH RESISTANCE AGAINST DIFFICULT CONDITIONS

### Resistance to environmental factors

- Drip irrigation; It is very difficult to protect the pipes in their systems against environmental factors. Mice, crickets, crow's noses, worms, and birds can attack the drip irrigation system and cause damage. In this case, you may have to deal with frequent punctured pipe repairs on the field. This situation can cause serious water losses, the place where the explosion prevents other activities due to excessive irrigation, high repair costs and time loss. Pests cannot easily damage the steel structure, irrigation sprinklers and nozzles of the Center Pivot.

### Product pattern;

- Drip irrigation systems should be determined at the beginning according to the plant to be grown. Appropriate dripper ranges should be selected. Changing the predetermined range is not easy. For example, 70-75 cm between rows of corn, 140-250 cm between rows of tomatoes and 45-50 cm of sugar beets. It is difficult to rotate these plants by drip irrigation one after another. Since drip irrigation laying intervals are different, it is necessary to re-project and make additional investment. However, in Center Pivots, it is possible to plant and plant desired plants, there is no need for an additional investment.
- You can sew whatever you want without any problems.



YOUR CHOICE  
CENTER PIVOT and LINEAR

# ATLANTIS

CENTER PIVOT & LINEAR SYSTEMS

COUNT ON IT

**Second hand sale;**

- Drip irrigation systems are systems that require serious maintenance and repair every year. 20-25% of these systems have to be renewed every year due to damage and blockage. Once the drip irrigation system is collected from the field, almost all of it has no second hand value. It has only a very low scrap value. If you don't have a person or company around to pick up this scrap, you have to incur an additional cost to get rid of it. However, this is not the case for Center Pivots. Whether you sell it in the first year, 5-10 years or 20 years later, you can definitely sell it for a significant value. You can always take it to another land, install it and irrigate.



**Environmentally friendly**

- As you know, plastic materials require a long time to be disposed of from nature. It takes 150-400 years for a pipe made of PE or PVC to decompose in nature. After the installation, the drip irrigation system has different lifetimes, either one year (1 year) or multi-year (2-5 years). Almost all (90% - 100%) of Center Pivot irrigation systems are made of recyclable materials.



**"Finally, when you look at the return on your investment, it is obvious how appropriate it would be to choose Center Pivot Linear Irrigation Systems"**



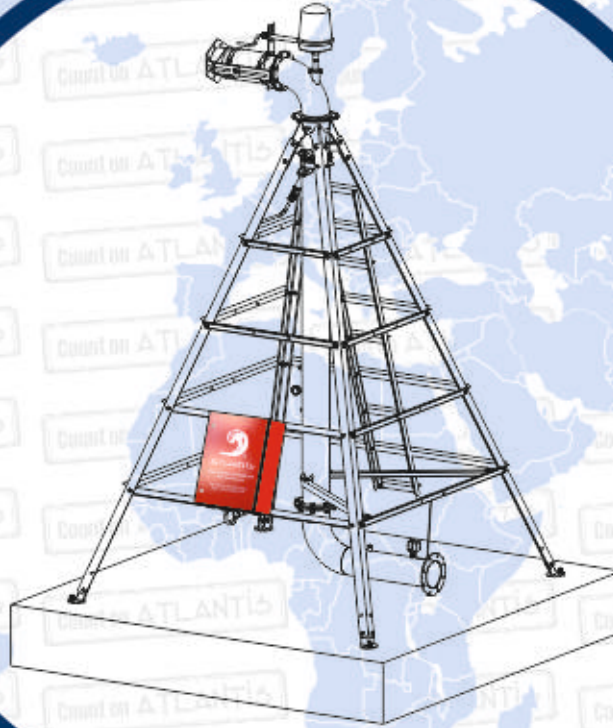
# ATLANTIS

CENTER PIVOT & LINEAR SYSTEMS

**COUNT ON IT**

## VICKY

**GEARBOX & CENTER DRIVE & COUPLER**



*"We work with long-lasting brands for our customers"*



# VICKY

# ATLANTIS

CENTER PIVOT & LINEAR SYSTEMS

**COUNT ON IT**



## IRRIGATION WHEEL DRIVE



**Input Caps**  
High Tensile Castings with Water Drainage System and Tapped Holes for Easy Installation of DPS-100 Drivetrain Protection System

**Input Shaft Seals**  
Triple Lip for maximum Protection

**Thrust Bearings**  
On Input Shaft have Highest Load Rating

**Input Shaft Protector**  
Gold Zinc Dichromate plated for Maximum Corrosion Resistance

**Surface Finish**  
Worms are either Precision Ground to 32 Ra or Precision Finished to 125 Ra for Higher Efficiency Rating

**Large Face Width**  
High Contact, Large Pitch Gear Set gives Higher Torque Loads than Competition

**External V-Ring Seals**  
Provide Additional Barrier against Debris and Corrosion

**Universal Bolt Pattern**  
Allows Usage on Virtually All Pivots

**Bull Gears**  
Made from either High Tensile Castings or are Centrifugally Cast Aluminum Bronze

**Double Welded Output Shaft & Flange**  
enables usage of the largest Tires & Wheels

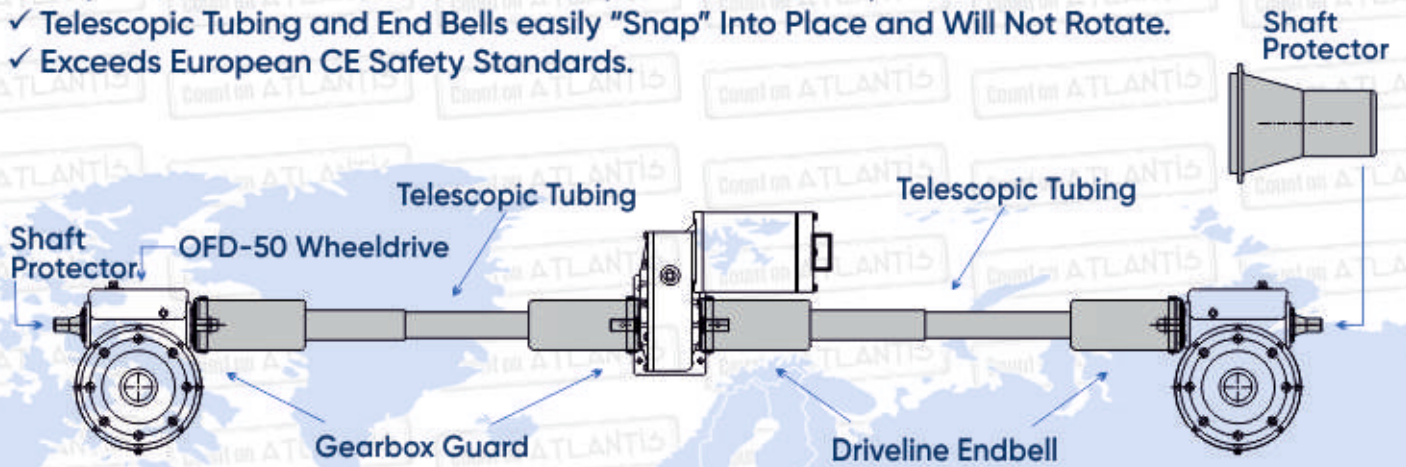
# ATLANTIS

## DRIVELINE SHIELDS

CENTER PIVOT & LINEAR SYSTEMS

**COUNT ON IT**

- ✓ The Only System Available that Completely Protects Drivetrain from Crop Wrappage.
- ✓ Polyethelene Plastic withstands UV Rays and is Weatherproof.
- ✓ Telescopic Tubing and End Bells easily "Snap" Into Place and Will Not Rotate.
- ✓ Exceeds European CE Safety Standards.



## SPECIFICATIONS

### Large-capacity rubber diaphragm

Expands with heat and pressure to minimize water condensation.

### Input and output bearings

Case hardened to provide the highest quality and highest load rating available in the industry.

### Worm gear

High-strength ductile iron provides significantly longer wear life than steel when combined with a cast iron bull gear.

### Tooth design

Industry exclusive 25° tooth angle provides 40% longer life and better reliability in tough conditions compared to normal 14 1/2° tooth designs.

### Largest bull gear neck and keyway

Provides strength in critical load-bearing area.

### Expansion chamber

Cap made of corrosion-resistant cast aluminum; rubber diaphragm allows oil to expand and contract during operation. Vented cap prevents pressure buildup and prevents seals from leaking.

### Threaded endcap

Allows accurate bearing preload to increase bearing life.

### 50:1 gear ratio

Fully recessed tooth design keeps oil between engaged gears.

### Bull gear

High-strength cast iron provides the highest load capacity and longest life in the industry. Optional bronze gear is available for extreme conditions.

### Multi-viscosity gearbox oil

Exceeds 85w140 GL5 oil for long gear wear under extreme load conditions.

THE STRONGEST  
MOST TRUSTED GEARBOX

# ATLANTIS

CENTER PIVOT & LINEAR SYSTEMS

**COUNT ON IT**

Our mission in Atlantis Center Pivot & Linear Irrigation Systems is to present the most durable and least serviceable gearbox to the sector. Atlantis gearboxes are presented to users after long-term structural and functional tests. We are one of the few companies in the world that can produce their own gearboxes.

For this reason, Atlantis takes pride in being a robust, reliable and responsive gearbox manufacturer.



01

Superior design:  
Long-term use due to tested and proven, extended lifetime

02

Improved design and increased torque:  
The conclusion we have reached from our engineering is that more torque

03

For increased tightness:  
More reliable protection thanks to newly designed shaft and improved seal. In this way, the entry of sludge and dust into the gear is minimized.

04

Bearing reduced as a result of special design.

05

More load carrying capacity:  
Specially designed and produced inlet and outlet bearings and their outer surface are hardened.

06

More resistant to extraordinary conditions:  
Gearbox housing designed to work in harsh areas. Use wherever you want.

07

Different usage options:  
More or less power, we have many options depending on what you are looking for.



# ATLANTIS

CENTER PIVOT & LINEAR SYSTEMS

**COUNT ON IT**

# VICKY



**IRRIGATION WHEEL DRIVE**

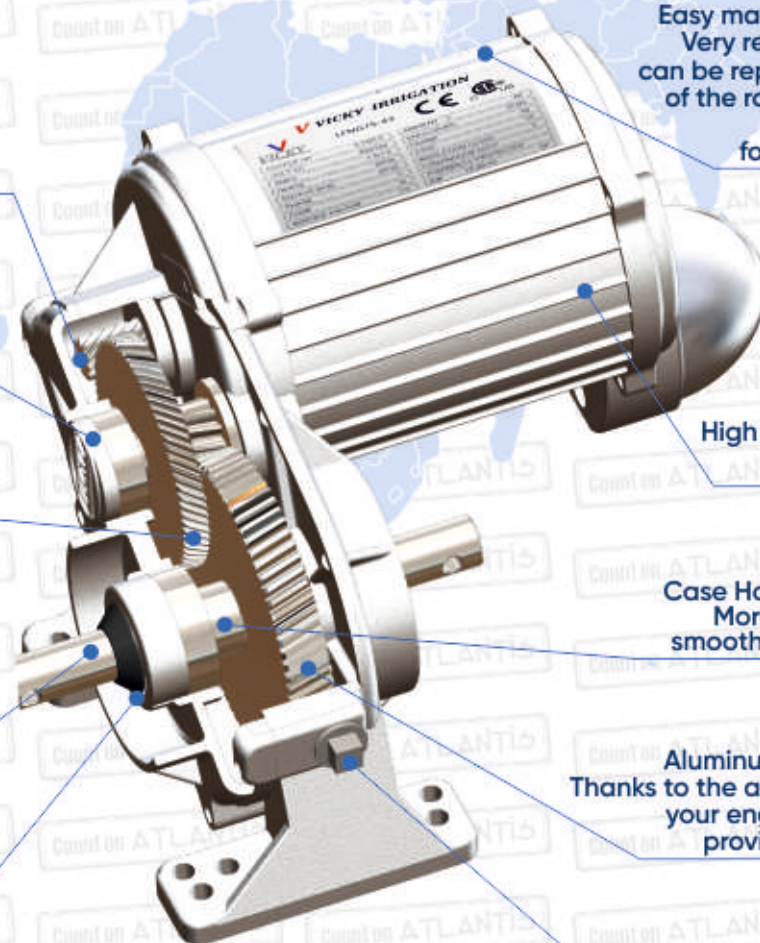
**Pinion Gear**  
Has excellent coordination with the motor shaft

**Extra Large Intermediate Bearing**  
Provides Much Longer Life

**Special angle joint,**  
This provides more loading capacity

**Motor Shaft**  
1" (25,4mm) diameter

**Output Seal**



**Easy maintenance for Stator**  
Very resistant to corrosion, can be replaced independent of the rotor, assembled with galvanized bolts for easy maintenance

**High Dust Proof Bearings**  
Provide longer life

**Case Hardened Steel Gears**  
More teeth meshed and smooth power transmission

**Aluminum coated enclosure**  
Thanks to the aluminum protection, your engine warms less and provides more efficiency.

**Drain Plug**  
Easily accessible and extra large

INCREASE YOUR PERFORMANCE

# ATLANTIS

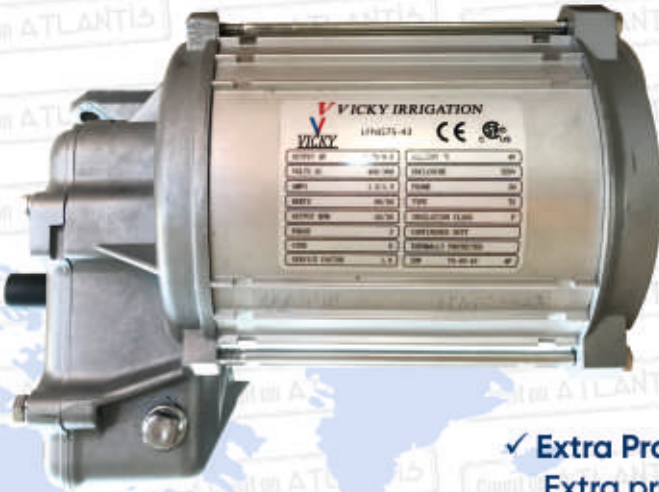
CENTER PIVOT & LINEAR SYSTEMS

**COUNT ON IT**

Have high performance, long-term use and easily accessible spare parts with the GearMotors we designed.

Get proven irrigation high performance thanks to Atlantis GearMotors.

This design is designed to keep your Center pivots and liners running for years. Different power and speed options will provide the most suitable solution for you wherever you want to use it.



✓ **Extra Protection Cover :**  
Extra protection cover against external factors



- **Get more power with steel gears.**
- **Aluminum coated enclosure**  
Thanks to the aluminum protection, your engine warmsless and provides more efficiency.
- **Improved ventilation**  
Better ventilation junction box thanks to improved design prevents moisture and contaminants from corroding the wire connections.
- **Plant protection**  
Prevents plants from entering the engine and protects the shaft seals.
- **Integral pinion gear eliminates coupler to improvereliability.**
- **More security**  
Integrated pinion gear eliminates coupler to increase reliability.
- **High torque**  
Specially designed motor windings, high operating torque.

Description	Power (Hp)	Driver Speed (rpm)		Drive Ratio	Output Speed (rpm)		Output Torque		Weight Kg/lbs
		(460 V)	(380 V)		(460 V)	(380 V)	(460 V)	(380 V)	
LFNG75-34	0,75	1720	1420	50:1	34	28	157.3 Nm	157.8 Nm	25.0/55
LFNG75-43	0,75	1720	1420	40:1	43	35	124.4 Nm	126.2 Nm	25.0/55
LFNG10-34	1,00	1720	1420	50:1	34	28	200.0 Nm	200.0 Nm	26.0/57
LFNG10-43	1,00	1720	1420	40:1	43	35	158.0 Nm	158.0 Nm	26.0/57
LFNG15-34	1,50	1720	1420	50:1	34	28	314.5 Nm	315.5 Nm	27.7/61
LFNG15-43	1,50	1720	1420	40:1	43	35	248.7 Nm	252.4 Nm	27.7/61
LFNG15-57	1,50	1720	1420	30:1	57	47	187.6 Nm	188.0 Nm	25.0/55
LFNG15-68	1,50	3440	2840	50:1	68	57	157.3 Nm	155.0 Nm	26.8/59
LFNG15-86	1,50	3440	2840	40:1	86	71	124.4 Nm	124.4 Nm	26.8/59

**COUNT ON IT**

## Driveline Coupler Shaft Quality Irrigation Products Standard Coupler

Designed to connect and protect the center drive gear motor and final drive gearboxes

The VICKY® Standard Coupler is a shock-attenuating drive connection between the center drive gear motor and final drive gearbox. It has been the industry standard for over 23 years on new systems from Original Equipment Manufacturers. It is available in a variety of sizes and configurations to fit any brand of center pivot.



**Part Number**

**Output RPM**

01355-121M

1" rd. x 7/8" sq.

01355-121P

1" rd. x 3/4" sq.

01355-121J

1" rd. x 1" sq.

01355-121I

1 1/8" rd. x 1" sq.

## Features and Benefits

The VICKY® Standard Coupler is designed to connect the center drive gear motor to the final drive gearboxes. In addition to connecting these critical drive train components the coupler acts as both a torque dampener to absorb start up torque from the gear motor and as a fuse to protect the other critical drive train components in an overload condition.

- ✓ Shock-attenuating puck insert allows for softer starts and stops, extending final drive gearbox life
- ✓ Designed as a fuse to protect the other critical drive train components in an overload condition
- ✓ Alignment rod holds insert in place and maintains alignment under extreme loads
- ✓ Urethane insert is an environmentally stable material with excellent UV and chemical resistance
- ✓ Grooved insert option converts any coupler for a towable application
- ✓ VICKY-bolts (Square-Neck, Hex-Head) create unique anti-rotation feature that allows for fast single wrench assembly
- ✓ Curved insert pressure pads compensate for out of line conditions
- ✓ Proven service record of over 23 years



# ATLANTIS

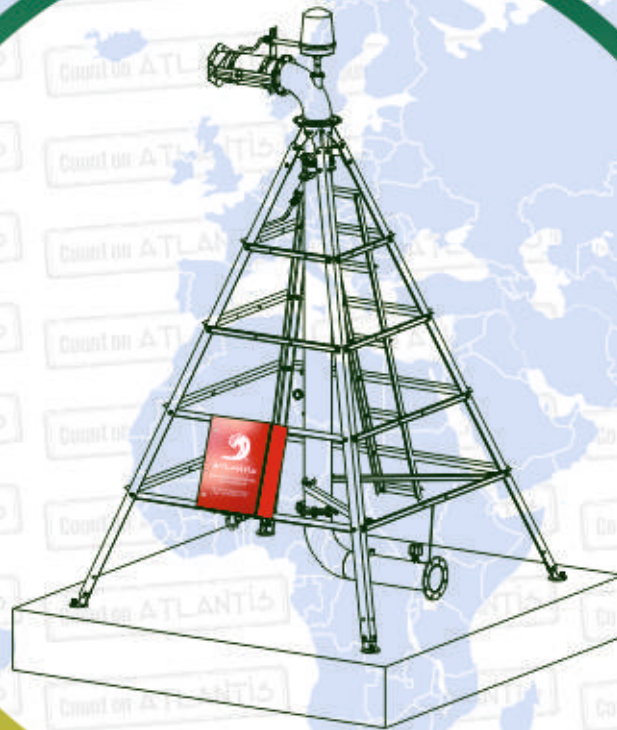
CENTER PIVOT & LINEAR SYSTEMS

**COUNT ON IT**



**UMC**<sup>®</sup>

**GEARBOX & CENTER DRIVE & COLLECTOR RINGS & COUPLER**



*"We work with long-lasting brands for our customers"*







**COUNT ON IT**

## Final Drive Gearbox Quality Irrigation Products

### 740-U™ Gearbox

The industry standard 50:1 gearbox

The UMC® 740-U™ gearbox is designed for use on center pivots and lateral / linear irrigation systems. It has been the industry standard 50:1 gearbox used on many center pivot and lateral / linear irrigation systems globally for decades. It is capable of handling most field conditions and applications and its larger input bearings enable it to handle more load than the 725-U™ and Moderate Duty™ gearboxes and in turn support heavier spans and larger wheels.



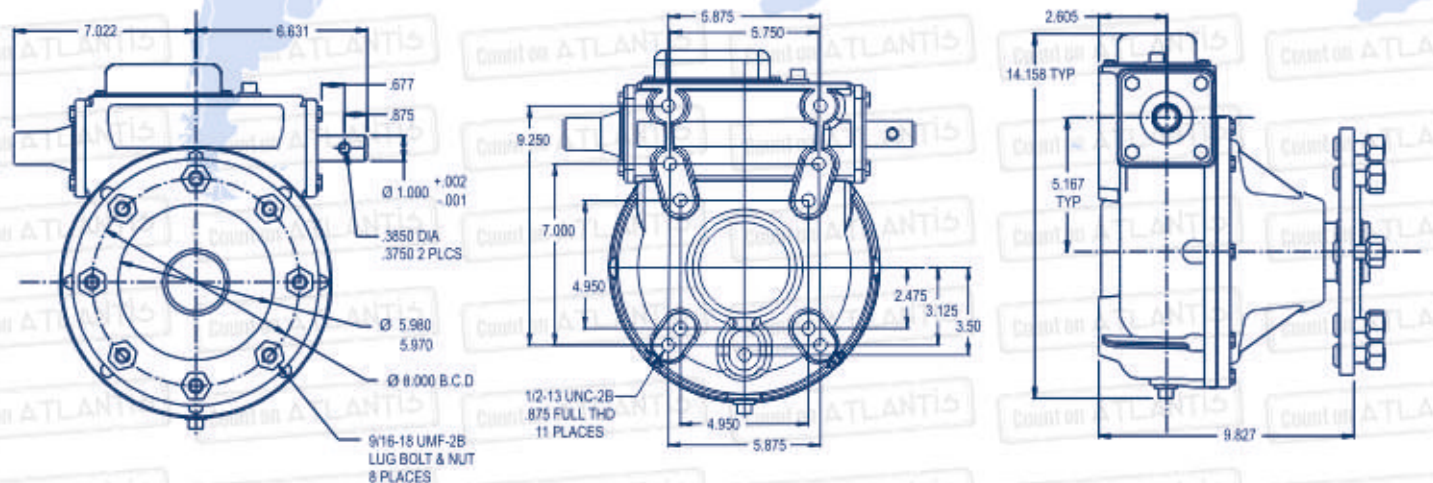
Part Number	Gear Ratio
10141-105A	50:1

### Features and Benefits

The UMC® 740-U™ gearbox features a 50:1 gear ratio, a 2.25" diameter output shaft, large input bearings, a steel worm gear, a cast iron bull gear and cartridge input and output seals that eliminate shaft grooving and reduce oil leaks.

- ✓ 2.25" diameter steel output shaft
- ✓ 50:1 gear ratio
- ✓ Cartridge input and output seals
- ✓ Large input bearings
- ✓ Full cycle external expansion chamber with stainless steel cover
- ✓ 11-Bolt mounting pattern
- ✓ External seal protectors for input and output seals
- ✓ Top oil fill plug
- ✓ Filled with extreme pressure gear oil
- ✓ Dual ended input shaft with a hub cap for the unused end
- ✓ Positive wheel register

### Dimensional Drawing | 740-u Final Drive Gearbox



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CENTER PIVOT & LINEAR SYSTEMS

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## Towable Final Drive Gearbox Quality Irrigation Products

### TNT-2-U™ Gearbox

Designed for towable center pivots and lateral / linear irrigation systems

The patented UMC® TNT-2-U™ gearbox is designed for use on towable center pivots and lateral / linear irrigation systems. The gearbox design allows the worm gear to disengage from the bull gear so the output shaft can rotate freely, enabling users to move irrigation systems from one field to another.

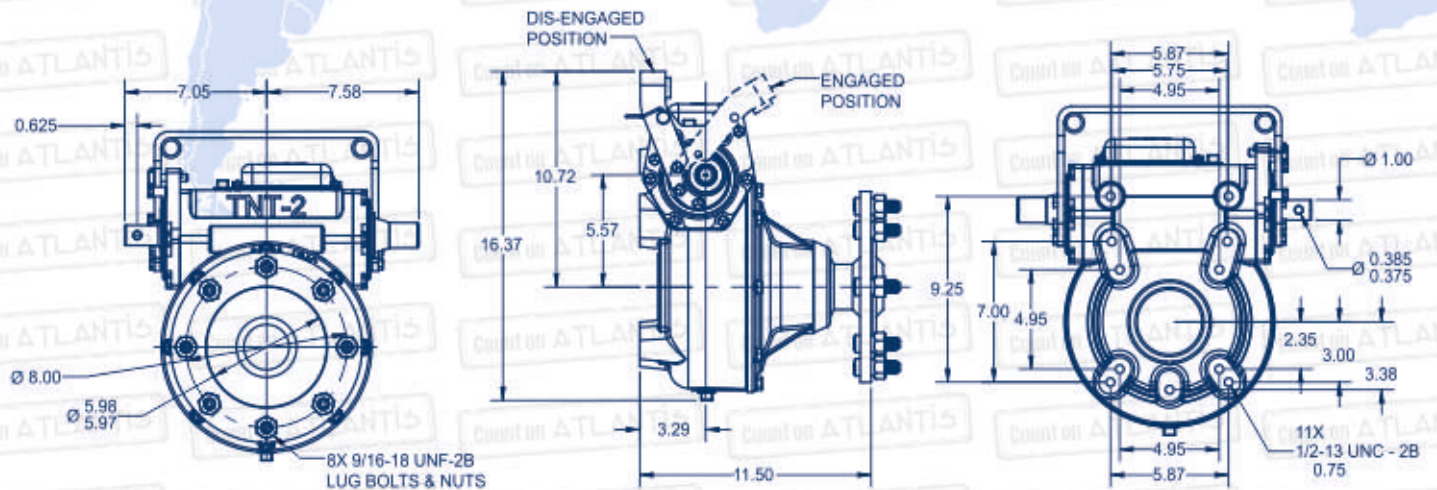
Part Number	Gear Ratio
10140-110A	50:1
10140-110B	50:1 (BRONZE)

### Features and Benefits

The patented UMC® TNT-2-U™ gearbox features a 50:1 gear ratio, a 2.25" diameter output shaft and a disengage-able worm gear for towing.

- ✓ 2.25" diameter steel output shaft
- ✓ 50:1 gear ratio
- ✓ Dual input seals and a triple lip output seal
- ✓ Disengage-able worm gear for towing
- ✓ Full cycle external expansion chamber with stainless steel cover
- ✓ 11-Bolt mounting pattern
- ✓ External seal protectors for input and output seals
- ✓ Top oil fill plug
- ✓ Filled with extreme pressure gear oil
- ✓ Dual ended input shaft with a hub cap for the unused end
- ✓ Extra long carriage bolts allow use with reinforced rims
- ✓ Positive wheel register
- ✓ Bronze gear optional

### Dimensional Drawing | 725-TNT-2-U Final Drive Gearbox





## Towable Products Quality Irrigation Products BT4-B™ Bolt-on Towable Hub

Designed to convert standard non-tow gearboxes into towable gearboxes

The UMC® BT4-B™ Bolt-on Tow Hub is designed to convert standard non-tow gearboxes into towable gearboxes. It fits all UMC® gearboxes and works with all gear ratios. It requires a pin and bracket assembly (sold separately) to lock the tow hub.

**Part Number**

**Gear Ratio**

04301-114A

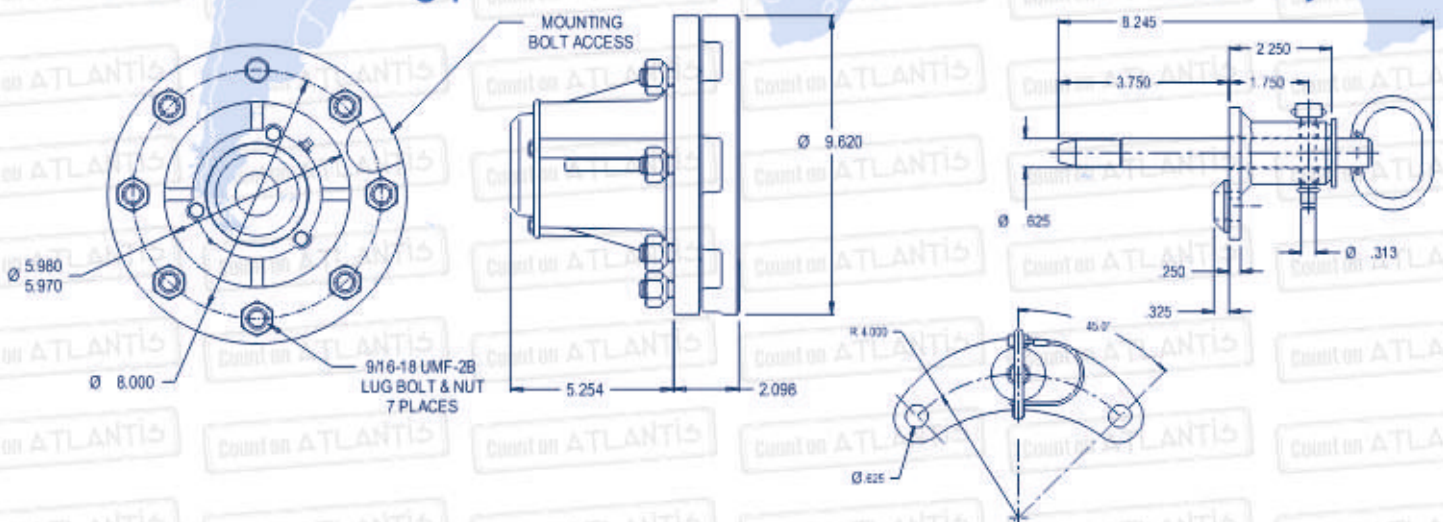
BT4-B Towable Hub

### Features and Benefits

The UMC® BT4-B™ bolt-on tow hub comes filled with grease and features a 2.00" shaft with a cast iron hub and extra long carriage bolts that allow use with reinforced rims.

- ✓ Fits all UMC® gearboxes
- ✓ Locking pin and bracket available (sold separately)
- ✓ Works with all gear ratios
- ✓ Heavy duty cast steel 2.00" shaft and cast iron hub
- ✓ Grease and pressure relief fittings included
- ✓ Bolt-on hub cap secured with three 1/4-20 bolts and sealed with silicone RTV
- ✓ Tapered roller bearings
- ✓ Extra long carriage bolts allow use with reinforced rims
- ✓ Positive wheel register

### Dimensional Drawing | BT4-B Towable Hub & Pin Bracket Assembly





# ATLANTIS

CENTER PIVOT & LINEAR SYSTEMS

COUNT ON IT



## Electrical Components Quality Irrigation Products

### Collector Rings

Designed to fit most center pivots

UMC®'s Collector Rings are made up of stationary brass rings with contact brushes that rotate around them. This assembly makes it possible to supply continuous power and signal voltage to the motors and controls of center pivot irrigation systems as the machine rotates around the pivot point.

Part Number	Description
10360-101U-AL	11 Terminal Collector Ring - Aluminum Lid
10360-113U-AL	13 Terminal Collector Ring - Aluminum Lid
10360-110U-AL	10 Terminal Collector Ring - Aluminum Lid
10360-110U	10 Terminal Collector Ring - Plastic Lid
10360-101U	11 Terminal Collector Ring - Plastic Lid
10360-113U	13 Terminal Collector Ring - Plastic Lid

### Features and Benefits

UMC®'s field proven collector rings are manufactured from the highest quality materials to ensure safe, reliable and trouble free operation.

- ✓ Available styles: 10-ring, 11-ring, and 13-ring
- ✓ Available with an aluminum or plastic cover
- ✓ Heavy duty die cast aluminum base
- ✓ Specially designed cover clamps
- ✓ Large copper brushes are 80% copper and 20% graphite for less resistance
- ✓ Seamless ring to reduce brush wear
- ✓ Wires are numbered for easy identification
- ✓ Grease-able bearings in the base, stops shaft seizure
- ✓ Individually packaged
- ✓ Rated Voltage: 600 VAC
- ✓ Rated Current: 30 AMPS All Rings
- ✓ CSA and CE Certified





## Center Drive Gear Motor Quality Irrigation Products

### Power Saver® 3.5

The most dependable center drive in the industry

The Standard UMC® Power Saver® 3.5 center drive is designed for use on center pivots and lateral / linear irrigation systems. It has been the center drive of choice for decades on systems around the world and is field proven to be tough and dependable.

Part Number	Output RPM
06168-101G	14 / 11 RPM
06168-101Q	29 / 24 RPM
06168-101H	35 / 29 RPM
06168-101A	44 / 35 RPM
06168-101B	57 / 47 RPM
06168-101F	67 / 55 RPM
06168-101D	86 / 70 RPM



## Features and Benefits

The Standard UMC® Power Saver® 3.5 center drive features a high efficiency helical gear reduction and industry leading irrigation duty motors that offer long life and quiet operation. It is available in 6 different gear ratios with 3 motor options.

- ✓ 95% efficient helical gear reduction
- ✓ Heat treated steel gears
- ✓ 6 gear ratio options (20:1, 25:1, 30:1, 40:1, 50:1 and 60:1)
- ✓ Available with three 3-phase motor options  
CSA, CE, CCC and SASO certified motors IP 45 rated
- ✓ Aluminum finned stator for superior heat dissipation
- ✓ Motor drain holes protected by UMC's exclusive Spray Guard™ for superior spray protection
- ✓ Internally vented junction box protects motor lead connections from moisture
- ✓ Magnet wire to motor lead connections covered with Teflon tubing and encapsulated with P.D. caps for superior moisture protection
- ✓ Class H wire and Class F insulation
- ✓ Thermally protected motor with automatic reset located in the junction box
- ✓ Multi-bolt mounting pattern fits (3 3/8" x 6 3/8"), (4 3/4" x 7 1/4") and (5" x 6") bolt patterns
- ✓ Dual input and output seals reduce oil leaks
- ✓ Top oil fill plug positioned to set the correct oil level
- ✓ Integrated crop guard for coupler shields to nest and protect oil seals from crop wrapping and debris
- ✓ Seals savers on output to protect oil seals

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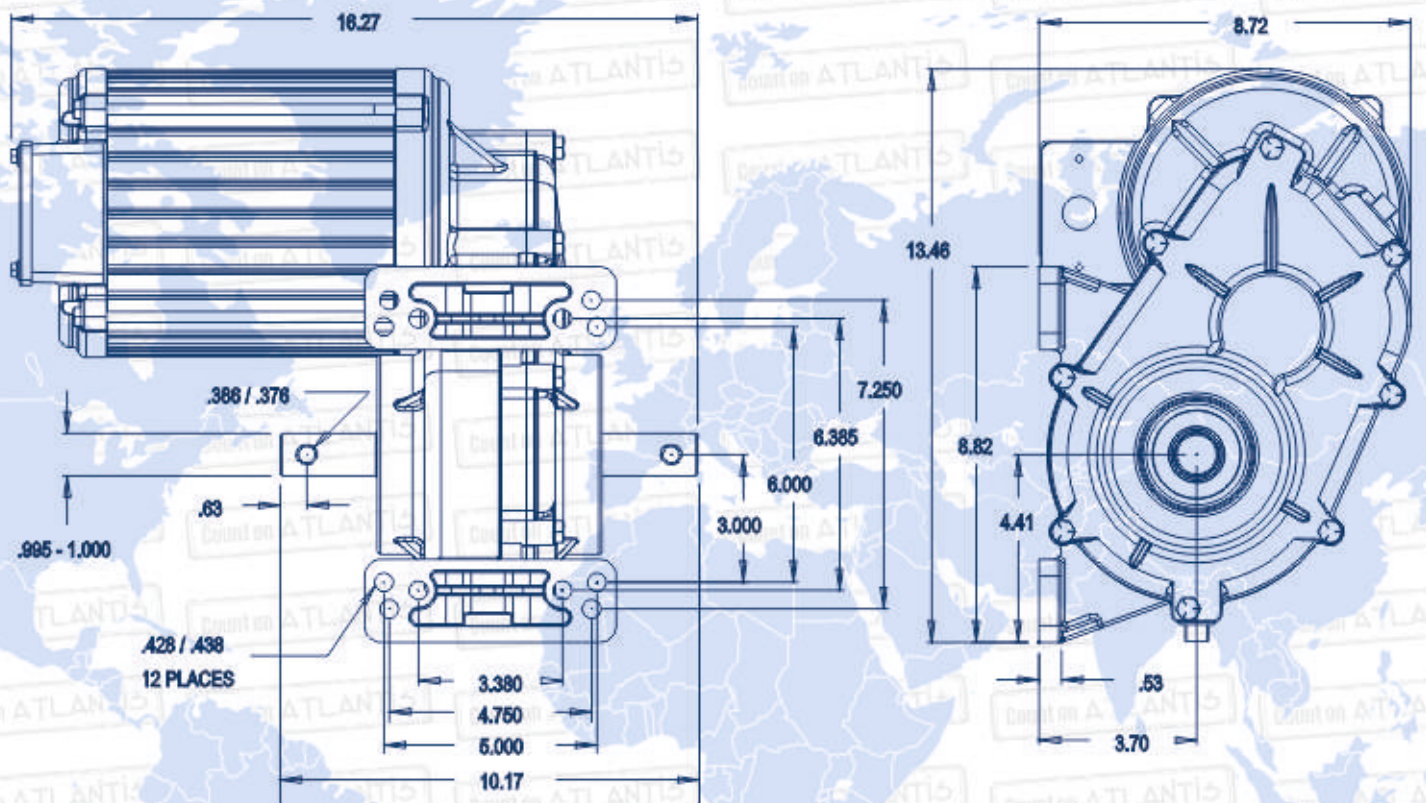
CENTER PIVOT & LINEAR SYSTEMS

**COUNT ON IT**



**UMC®**

## Dimensional Drawing Power Saver 3.5 Electric Gearmotor



Part Number	Gear Ratio	Motor HP	Service Factor	Volts AC	Frequency	Output RPM	Full Load AMP
06168-101G	60:1	0.60HP	1.0	460 / 380	60 / 50 Hz	14 / 11 RPM	1.6 / 1.7 A
06168-101Q	60:1	0.75HP	1.3	460 / 415 / 380	60 / 50 / 50 Hz	29 / 24 RPM	1.4 / 1.4 / 1.5 A
06168-101H	50:1	0.75HP	1.3	460 / 415 / 380	60 / 50 / 50 Hz	35 / 29 RPM	1.4 / 1.4 / 1.5 A
06168-101A	40:1	0.75HP	1.3	460 / 415 / 380	60 / 50 / 50 Hz	44 / 35 RPM	1.4 / 1.4 / 1.5 A
06168-101B	30:1	1.50HP	1.0	460 / 415 / 380	60 / 50 / 50 Hz	57 / 47 RPM	2.4 / 2.7 / 2.7 A
06168-101F	25:1	1.50HP	1.0	460 / 415 / 380	60 / 50 / 50 Hz	67 / 55 RPM	2.4 / 2.7 / 2.7 A
06168-101D	20:1	1.50HP	1.0	460 / 415 / 380	60 / 50 / 50 Hz	86 / 70 RPM	2.4 / 2.7 / 2.7 A

# ATLANTIS

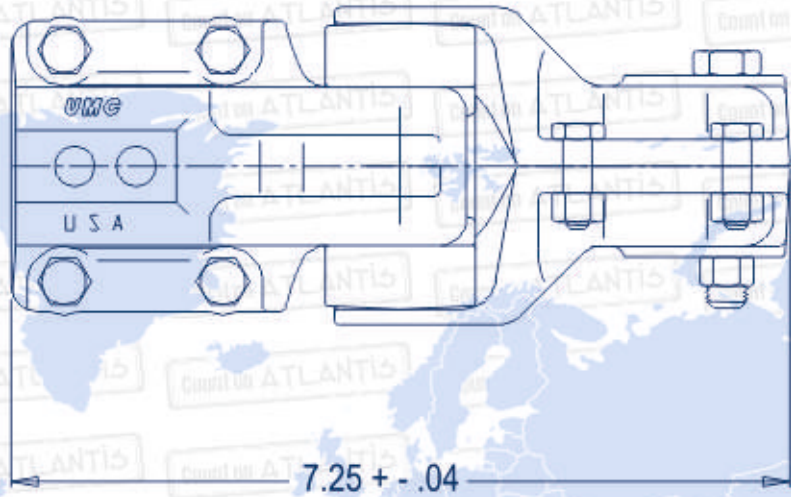
CENTER PIVOT & LINEAR SYSTEMS

**COUNT ON IT**

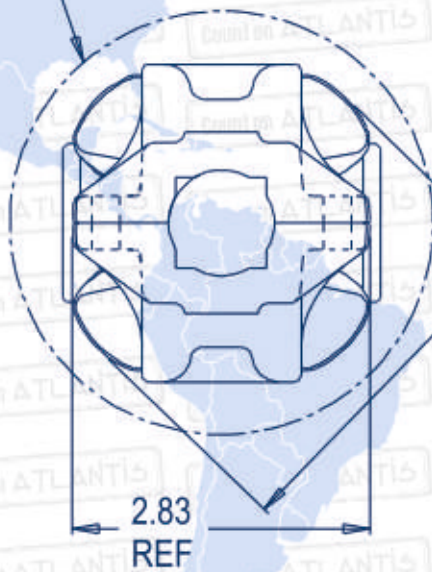


**UMC**<sup>®</sup>

## Dimensional Drawing Standard Coupler

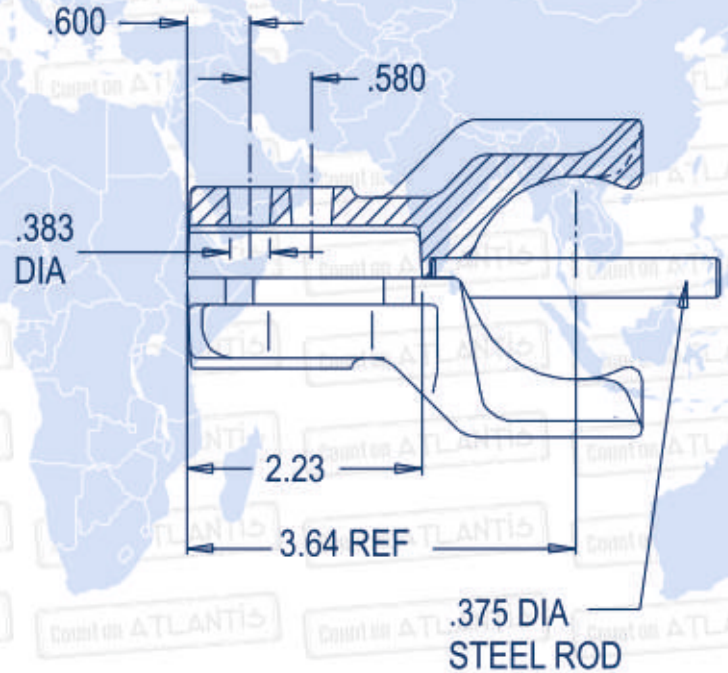


4.0 DIA. MINIMUM  
HOUSING CLEARANCE



3.35  
REF

2.83  
REF



.383  
DIA

.600

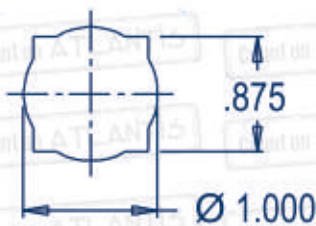
.580

2.23

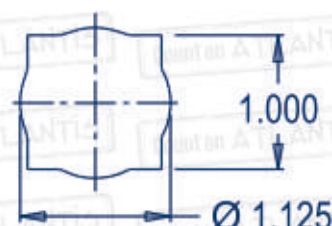
3.64 REF

.375 DIA  
STEEL ROD

## Available shaft configurations



#1 A



#8 G



## Driveline Coupler Quality Irrigation Products

### Standard Coupler

Designed to connect and protect the center drive gear motor and final drive gearboxes

The UMC® Standard Coupler is a shock-attenuating drive connection between the center drive gear motor and final drive gearbox. It has been the industry standard for over 30 years on new systems from Original Equipment Manufacturers. It is available in a variety of sizes and configurations to fit any brand of center pivot.



Part Number	Output RPM
01355-121M	1" rd. x 7/8" sq.
01355-121P	1" rd. x 3/4" sq.
01355-121J	1" rd. x 1" sq.
01355-121I	1 1/8" rd. x 1" sq.

### Features and Benefits

The UMC® Standard Coupler is designed to connect the center drive gear motor to the final drive gearboxes. In addition to connecting these critical drive train components the coupler acts as both a torque dampener to absorb start up torque from the gear motor and as a fuse to protect the other critical drive train components in an overload condition.

- ✓ Shock-attenuating puck insert allows for softer starts and stops, extending final drive gearbox life
- ✓ Designed as a fuse to protect the other critical drive train components in an overload condition
- ✓ Alignment rod holds insert in place and maintains alignment under extreme loads
- ✓ Urethane insert is an environmentally stable material with excellent UV and chemical resistance
- ✓ Grooved insert option converts any coupler for a towable application
- ✓ UMC SQUEX-bolts (Square-Neck, Hex-Head) create unique anti-rotation feature that allows for fast single wrench assembly
- ✓ Curved insert pressure pads compensate for out of line conditions
- ✓ Proven service record of over 30 years





## Center Drive Gear Motor Quality Irrigation Products

### Power Saver® 4

The most advanced center drive in the industry

The Standard UMC® Power Saver® 4 is our newest high performance helical center drive designed for use on center pivots and lateral / linear irrigation systems. It is a direct replacement for its predecessor, the Power Saver® 3.5, and has several new features that set it apart from every other center drive in the industry.

Part Number	Output RPM
06169-101G	14 / 11 RPM
06169-101Q	29 / 24 RPM
06169-101H	34 / 28 RPM
06169-101A	43 / 36 RPM
06169-101B	58 / 48 RPM
06169-101F	68 / 56 RPM
06169-101D	86 / 71 RPM



### Features and Benefits

The Standard UMC® Power Saver® 4 center drive features an optimized helical gear design that offers longer life and quieter operation, cartridge output seals that eliminate shaft grooving and reduce oil leaks, and a single bolt junction box cover that makes installation and maintenance easier and faster. It is available with 7 output RPM options.

- ✓ Cartridge output seals eliminate shaft grooving and reduce oil leaks
- ✓ Single bolt junction box cover makes installation and maintenance easier and faster
- ✓ 95% efficient helical gear reduction
- ✓ 6 gear ratio options (20:1, 25:1, 30:1, 40:1, 50:1 and 60:1)
- ✓ Available with three 3-phase motor options
- ✓ CSA, CE, CCC and SASO certified motors
- ✓ IP 45 rated
- ✓ Aluminum finned stator for superior heat dissipation
- ✓ Motor drain holes protected by UMC's exclusive Spray Guard™ for superior spray protection
- Internally vented junction box protects motor lead connections from moisture
- Magnet wire to motor lead connections covered with Teflon tubing and encapsulated with P.D. caps for superior moisture protection
- ✓ Class H wire and Class F insulation
- ✓ Thermally protected motor with automatic reset located in the junction box
- ✓ Multi-bolt mounting pattern fits (3 3/8" x 6 3/8"), (4 3/4" x 7 1/4") and (5" x 6") bolt patterns
- ✓ Top oil fill plug positioned to set the correct oil level
- ✓ Integrated crop guard for coupler shields to nest and protect oil seals from crop wrapping and debris
- ✓ Seals savers on output to protect oil seals

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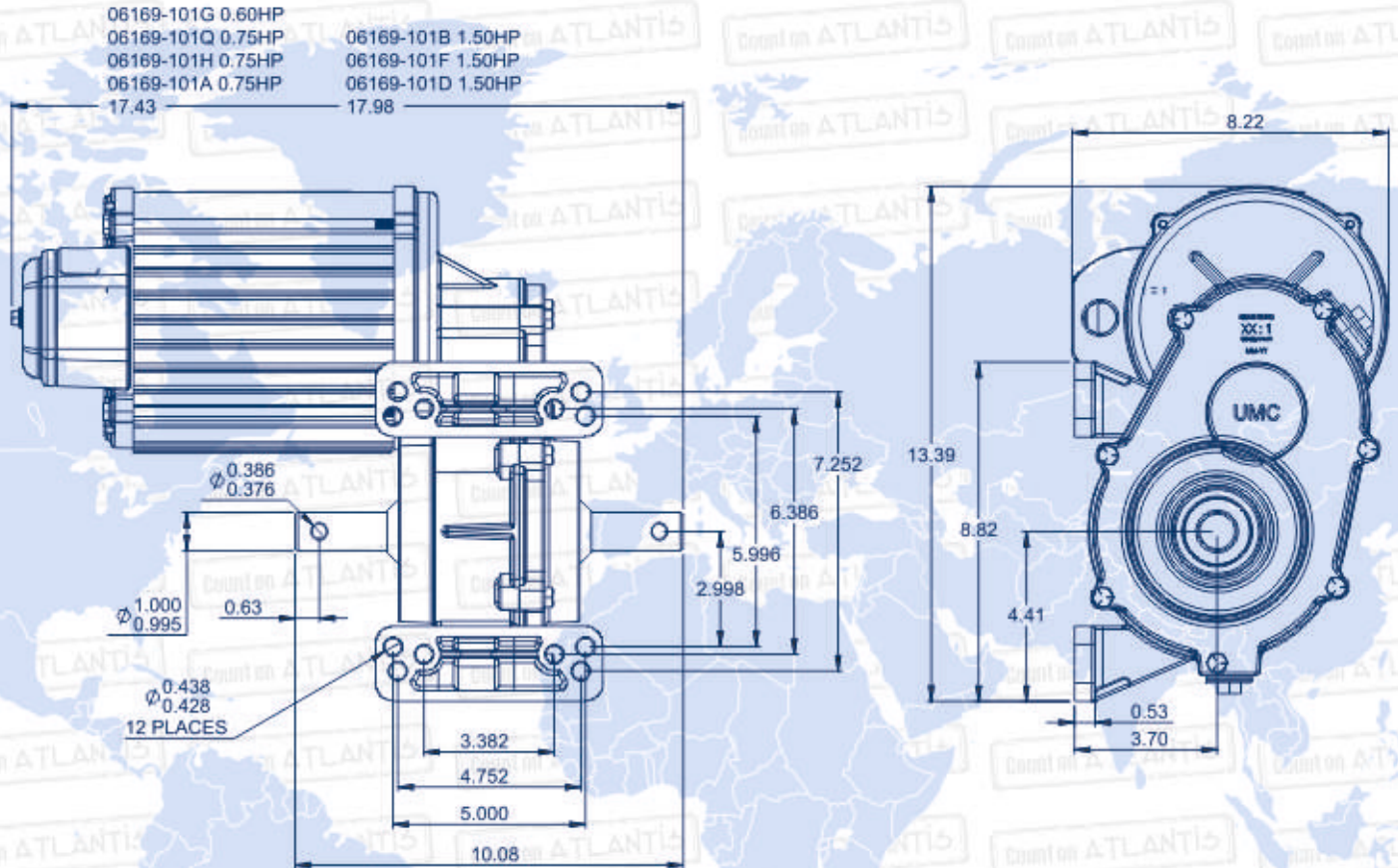
CENTER PIVOT & LINEAR SYSTEMS

**COUNT ON IT**



**UMC®**

## Dimensional Drawing Power Saver® 4 Electric Gearmotor



Part Number	Gear Ratio	Motor HP	Service Factor	Volts AC	Frequency	Output RPM	Full Load AMP
06169-101G	60:1	0.60HP	1.0	460/380	60/50 Hz	14/11 RPM	1.6/1.7 A
06169-101Q	60:1	0.75HP	1.3	460/415/380	60/50/50 Hz	29/24 RPM	1.4/1.4/1.5 A
06169-101H	50:1	0.75HP	1.3	460/415/380	60/50/50 Hz	34/28 RPM	1.4/1.4/1.5 A
06169-101A	40:1	0.75HP	1.3	460/415/380	60/50/50 Hz	43/36 RPM	1.4/1.4/1.5 A
06169-101B	30:1	1.50HP	1.0	460/415/380	60/50/50 Hz	58/48 RPM	2.4/2.5/2.7 A
06169-101F	25:1	1.50HP	1.0	460/415/380	60/50/50 Hz	68/56 RPM	2.4/2.5/2.7 A
06169-101D	20:1	1.50HP	1.0	460/415/380	60/50/50 Hz	86/71 RPM	2.4/2.5/2.7 A



## Center Drive Gear Motor Quality Irrigation Products

### Power Saver® 4 Premium Efficient

The most advanced center drive in the industry

The Premium Efficient UMC® Power Saver® 4 is our newest high performance helical center drive designed for use on center pivots and lateral / linear irrigation systems. It is a direct replacement for its predecessor, the Power Saver® 3.5, and has several new features that set it apart from every other center drive in the industry.



Part Number	Output RPM
06169-101M-E	29 / 24 RPM
06169-101K-E	43 / 36 RPM
06169-101B-E	58 / 48 RPM
06169-101F-E	68 / 56 RPM
06169-101D-E	86 / 71 RPM

### Features and Benefits

The Premium Efficient UMC® Power Saver® 4 center drive features a high efficiency helical gear reduction, a 1.50HP PEM / IE3 motor and is available with 5 output RPM options.

- ✓ Cartridge output seals eliminate shaft grooving and reduce oil leaks
- ✓ Single bolt junction box cover makes installation and maintenance easier and faster
- ✓ 95% efficient helical gear reduction
- ✓ Heat treated forged steel gears result in less wear and quieter operation
- ✓ 5 gear ratio options (20:1, 25:1, 30:1, 40:1, and 60:1)
- ✓ CSA and CE certified motors
- ✓ IP 45 rated
- ✓ Aluminum finned stator for superior heat dissipation
- ✓ Motor drain holes protected by UMC's exclusive Spray Guard™ for superior spray protection
- ✓ Internally vented junction box protects motor lead connections from moisture
- ✓ Magnet wire to motor lead connections covered with Teflon tubing and encapsulated with P.D. caps for superior moisture protection
- ✓ Class H wire and Class F insulation
- ✓ Thermally protected motor with automatic reset located in the junction box
- ✓ Multi-bolt mounting pattern fits (3 3/8" x 6 3/8"), (4 3/4" x 7 1/4") and (5" x 6") bolt patterns
- ✓ Top oil fill plug positioned to set the correct oil level
- ✓ Integrated crop guard for coupler shields to nest and protect oil seals from crop wrapping and debris
- ✓ Seals savers on output to protect oil seals



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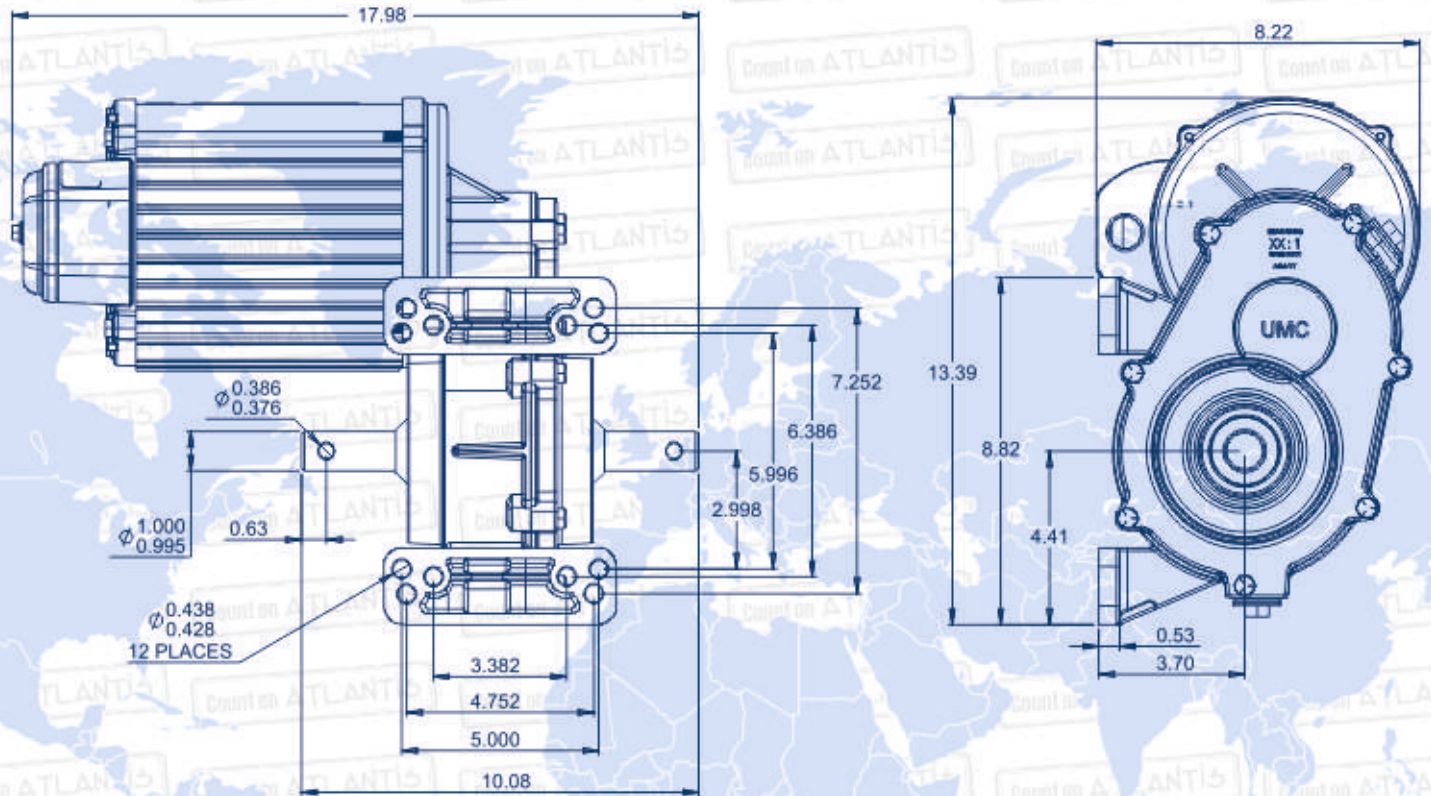
CENTER PIVOT & LINEAR SYSTEMS

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**UMC®**

## Dimensional Drawing Power Saver® 4 - Premium Efficient



Part Number	Gear Ratio	Motor HP	Service Factor	Volts AC	Frequency	Output RPM	Full Load AMP
06169-101M-E	60:1	1.50HP PEM/IE3	1.0	460/415/380	60/50/50 Hz	29/24 RPM	2.2/2.4/2.5 A
06169-101K-E	40:1	1.50HP PEM/IE3	1.0	460/415/380	60/50/50 Hz	43/36 RPM	2.2/2.4/2.5 A
06169-101B-E	30:1	1.50HP PEM/IE3	1.0	460/415/380	60/50/50 Hz	58/48 RPM	2.2/2.4/2.5 A
06169-101F-E	25:1	1.50HP PEM/IE3	1.0	460/415/380	60/50/50 Hz	68/56 RPM	2.2/2.4/2.5 A
06169-101D-E	20:1	1.50HP PEM/IE3	1.0	460/415/380	60/50/50 Hz	86/71 RPM	2.2/2.4/2.5 A



## Center Drive Gear Motor Quality Irrigation Products

### Power Saver® 4 Inverter Duty

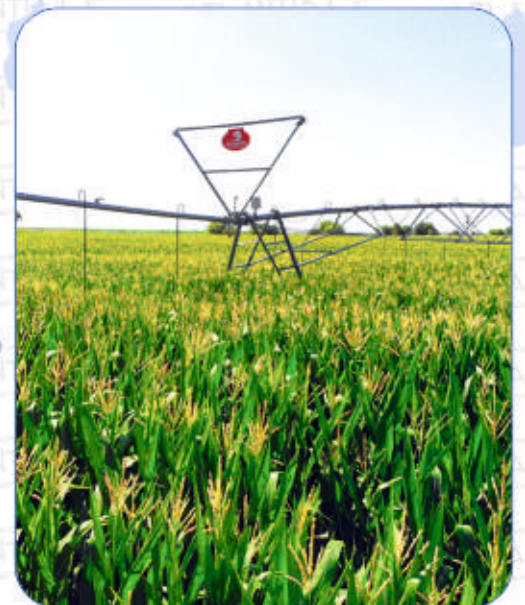
Designed for constant move center pivot irrigation

The Inverter Duty UMC® Power Saver® 4 center drive is designed for use on constant move center pivots, lateral / linear irrigation systems and corner arms. When used in conjunction with an inverter, these units are capable of a wide range of speed allowing for use of a pivot in a versatile range of applications.

The Inverter Duty UMC® Power Saver® 4 center drives were designed with the future of center pivot irrigation in mind. They have been field proven on constant move corner arms and constant move center pivot irrigation systems.

### Features and Benefits

- ✓ Cartridge output seals eliminate shaft grooving and reduce oil leaks
- ✓ 95% efficient helical gear reduction
- ✓ Heat treated forged steel gears result in less wear and quieter operation
- ✓ 4 output RPM range options
- ✓ Available with two 3-phase inverter duty motor options
- ✓ CSA and CE certified motors
- ✓ Aluminum stator for superior heat dissipation
- ✓ Motor drain holes protected by UMC's exclusive Spray Guard™ for superior spray protection
- ✓ Magnet wire to motor lead connections covered with Teflon tubing and encapsulated with P.D. caps for superior moisture protection
- ✓ Class H wire and Class F insulation
- ✓ Multi-bolt mounting pattern fits (3 3/8" x 6 3/8"), (4 3/4" x 7 1/4") and (5" x 6") bolt patterns
- ✓ Top oil fill plug positioned to set the correct oil level
- ✓ Integrated crop guard for coupler shields to nest and protect oil seals from crop wrapping and debris
- ✓ Seals savers on output to protect oil seals
- ✓ The center drive's Red Stripe Design is a trademark of Universal Motion Components Co., Inc. registered in the U.S.



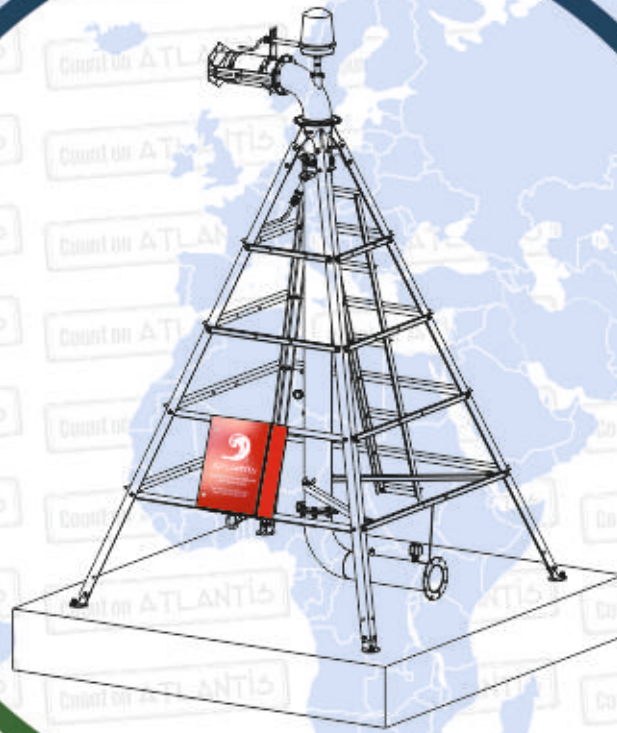
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CENTER PIVOT & LINEAR SYSTEMS

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**PIVOT SPRINKLER & NOZZLE & BIGGUN**



*"We work with long-lasting brands for our customers"*



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## 3030 SERIES

With Multi-Function 3NV Nozzle  
PRESS, SPIN, CLICK



At the heart of the 3030 Series is the new 3NV Nozzle. Built with the precision accuracy of the 3TN, this innovative dial-nozzle combines multiple functions so you can "micromanage" your system.

- ◆ Quick-change – push & turn, audible "click"
- ◆ Stainless steel spring for accurate and secure positioning
- ◆ Covers complete nozzle range, using the same numbering and flow rates as the 3TN Nozzle System
- ◆ Same color-codes as 3TN but oddsize nozzles have weather-enduring scalloped edge



EVEN NOZZLE



ODD NOZZLE

Manage your system  
without ever having  
to remove a nozzle

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**NELSON**



SQUARE THREAD  
PRESSURE  
REGULATOR



SQUARE THREAD X  
3/4" ADAPTER



SQUARE THREAD X  
HOSE BARB

ROTATOR®/SPINNER BODY



UNIVERSAL BODY



ACCELERATOR/  
SPRAYHEAD BODY



ORBITOR BODY



## For new systems SPRINKLER PACKAGE INSTALLATION ENHANCEMENTS

- ◆ Maximize efficiency & accuracy - install sprinklers, then walk the line and install nozzles.
- ◆ Lugs on end of nozzle are sized & shaped to allow only correct installation and removal.
- ◆ Visually identify sprinkler modes for quality assurance.
- ◆ Use flush function as needed depending on water quality.

## ... or seamless integration into existing systems.

### COST & TIME SAVING

- ◆ To gain the benefits of the new 3030 Series you simply need a new Nozzle & Body. Existing 3000 Series Cap, Plate, Regulator & Fittings integrate entirely. (NOTE: Orbitor weight can be re-used but need new body/plate.)
- ◆ Since On, Off & Flush functions all take place without removing the nozzle, no more dropped or lost nozzles in the field!
- ◆ A 3NV Dual Nozzle clip (with Hi-Flo, Lo-Flo differentiation) helps farmers adapt to differing watering needs (such as crop establishment, chemigation or lowering water tables).

The 3NV nozzle fits all existing sprinkler types: Rotator, Spinner, Accelerator, Sprayhead, Orbitor, Part Circle. Maximize efficiency with the Square Thread fitting.

## Gain Lots, Give up Nothing.

- ◆ SUPERIOR FLUSHING OPTIONS: Sequence to work debris through. It's never advised to stick something in a nozzle - the 3NV flushes with a quick and simple turn of the nozzle. No tools necessary.
- ◆ "ON" AND "OFF" CAN BE SELECTIVE: If you're overwatering, or if you need to conserve water for a time, simply select the sprinklers you want to turn off. Consider the cost savings of having a built-in ball valve on every sprinkler!

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# R3030 ROTATOR®

THE ROTATOR® IS THE WORLD'S PREMIER PIVOT SPRINKLER. IT OPERATES WITH A FIELD-PROVEN DRIVE PRINCIPLE AND SIMPLICITY OF DESIGN WITH ONLY ONE MOVING PART. YOU CAN EXPECT THE HIGHEST LEVELS OF RELIABILITY AND LONG WEAR LIFE UNDER TOUGH FIELD CONDITIONS.



## FEATURES & BENEFITS

### GREATER THROW RADIUS.

Nelson's Pivot Rotator® features the greatest throw distance available on drop tubes. As a rotating type sprinkler the Rotator® produces a wider pattern resulting in a lower application rate, reduced runoff and longer soak time.

### REDUCED WIND DRIFT AND EVAPORATIVE LOSS.

The Rotator® more than meets the challenge of putting a rotating-type sprinkler on drop tubes – down out of the wind – to minimize wind drift and evaporative loss.

### COLOR-CODED NOZZLES.

The 3NV Nozzle system is at the center of the 3030 Series Pivot-Product line with easy-to-identify, wear-resistant, precision-accurate nozzles. This innovative dial-nozzle combines multiple functions so you can "micro-manage" your system. PRESS, SPIN, CLICK between "on", "off", "flush" and "line flush" functions.

PROTECTIVE SHIELD PROVIDES LONGER WEAR LIFE AND ENHANCED RELIABILITY.



### VERSATILE MODULAR DESIGN.

Because no one sprinkler is right for all conditions, the 3030 Series features modular design components which are easily changed with a simple push and turn. You may want to start out the season with one configuration and change to a different one later.



**PATENTED SINGLE-STRUT INLET SEAT**  
Improves plug resistance over other brands. Now standard in Nelson Universal Flo and Hi Flo Pressure Regulators.

**SQUARE THREAD**  
for quick change

**3NV NOZZLE**

**ROTATOR® BODY**

**MULTI-TRAJECTORY ROTATOR® PLATES**

**ROTATOR® CAP ASSEMBLY (Blue)**















PIVOT ROTATOR® ALSO AVAILABLE IN THE TRADITIONAL 3000 SERIES CONFIGURATION.

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**COUNT ON IT**



PIVOT ROTATOR® PERFORMANCE*		PRESSURE RANGE*	3NV NOZZLE RANGE**		THROW DIAMETER DATA*** (no wind tests)
	<b>U4-8° BLUE PLATE</b> FOR UP-TOP APPLICATIONS Utilizes 4 low-trajectory streams for excellent coverage and windfighting ability at higher pressures.	20-50 PSI (1.4-3.4 BAR)	MINIMUM #14 @ 30 PSI (2.0 BAR) #16 for lower pressures	MAX #50	MOUNTING HEIGHT 12 FT. (3.7 M) THROW DIAMETER 70 FT. (21.3 M)  COVERAGE @ 30 PSI (2.0 BAR) #32 NOZZLE
	<b>MULTI-TRAJECTORY WHITE PLATE</b> FOR UP-TOP APPLICATIONS Designed with multiple trajectory streams for superior up-top performance at low pressures.	15-30 PSI (1.0-2.0 BAR)	#14 @ 15 PSI (1.0 BAR)	#50	MOUNTING HEIGHT 12 FT. (3.7 M) THROW DIAMETER 74 FT. (22.6 M)  COVERAGE @ 30 PSI (2.0 BAR) #32 NOZZLE
	<b>D4-8° GREEN PLATE</b> FOR DROP TUBE APPLICATIONS Utilizes 4 low-trajectory streams for maximum coverage and windfighting ability.	20-50 PSI (1.4-3.4 BAR)	#14 @ 30 PSI (2.0 BAR) #16 for lower pressures	#50	MOUNTING HEIGHT 9 FT. (2.7 M) THROW DIAMETER 72 FT. (21.9 M) MOUNTING HEIGHT 6 FT. (1.8 M) THROW DIAMETER 64 FT. (19.5 M)  COVERAGE @ 30 PSI (2.0 BAR) #32 NOZZLE
	<b>D6-12° RED PLATE</b> FOR DROP TUBE APPLICATIONS 6 medium-trajectory, diffused streams provide droplet breakup with low stream height.	15-30 PSI (1.0-2.0 BAR)	#14 @ 15 PSI (1.0 BAR)	#50	MOUNTING HEIGHT 9 FT. (2.7 M) THROW DIAMETER 66 FT. (20.1 M) MOUNTING HEIGHT 6 FT. (1.8 M) THROW DIAMETER 58 FT. (17.7 M)  COVERAGE @ 25 PSI (1.7 BAR) #36 NOZZLE
	<b>MULTI-TRAJECTORY ORANGE PLATE</b> FOR DROP TUBE APPLICATIONS Designed with multiple trajectory streams to penetrate the upper canopy of tall crops.	15-30 PSI (1.0-2.0 BAR)	#14 @ 15 PSI (1.0 BAR)	#50	MOUNTING HEIGHT 9 FT. (2.7 M) THROW DIAMETER 72 FT. (21.9 M) MOUNTING HEIGHT 6 FT. (1.8 M) THROW DIAMETER 66 FT. (20.1 M)  COVERAGE @ 25 PSI (1.7 BAR) #36 NOZZLE
	<b>MULTI-TRAJECTORY BROWN PLATE</b> FOR DROP TUBE APPLICATIONS 10 multiple trajectory streams provide maximum uniformity and superior performance on low growing crops like potatoes.	15-30 PSI (1.0-2.0 BAR)	#14 @ 15 PSI (1.0 BAR)	#50	MOUNTING HEIGHT 9 FT. (2.7 M) THROW DIAMETER 68 FT. (20.7 M) MOUNTING HEIGHT 6 FT. (1.8 M) THROW DIAMETER 62 FT. (18.9 M)  COVERAGE @ 25 PSI (1.7 BAR) #36 NOZZLE
	<b>LOW-PRESSURE OLIVE PLATE</b> FOR LOW-PRESSURE APPLICATIONS 10 multiple trajectory streams provide maximum uniformity and superior performance on low growing crops like potatoes.	10-15 PSI (0.7-1.0 BAR)	#12 @ 10 PSI (.7 BAR)	#50	MOUNTING HEIGHT 6 FT. (1.8 M) THROW DIAMETER 58 FT. (17.7 M)  COVERAGE @ 15 PSI (1.0 BAR) #36 NOZZLE

- Careful selection of pressure and sprinkler configuration must be taken into account to optimize droplet size.
- Pressure limits may exist on minimum and maximum nozzle sizes.
- Throw Distance Varies with Pressure, Nozzle Size, Mounting Height and Hydraulic Conditions.



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## PIVOT SPRINKLERS / 3030 SERIES

### A FAMILY OF PRODUCTS FOR A MULTITUDE OF NEEDS

VAST DIFFERENCES IN CROPS, SOILS, FARMING PRACTICES AND CLIMATIC CONDITIONS WORLDWIDE, COUPLED WITH REGIONAL DIFFERENCES IN THE AVAILABILITY OF WATER AND ENERGY REQUIRE AN ARRAY OF SPRINKLER PERFORMANCE CHARACTERISTICS.

WE HAVE WHAT YOU NEED TO GET THE JOB DONE:



IN ORDER TO SELECT THE BEST PRODUCT FOR YOUR NEEDS CONSIDER THE FOLLOWING:

- 1 AVAILABLE PRESSURE**  
Choose performance - save water and energy.
- 2 DESIRED UNIFORMITY & THROW DISTANCE**  
Rotator provides highest uniformity possible.
- 3 SOIL TYPES**  
See pages 16-17 for infiltration curves as they relate to application rates.
- 4 WIND CONDITIONS**  
Choose sprinkler with multi-trajectory plate options to fight the wind while also filling in the water pattern.





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## 3030 SERIES / OPTIONS

### ROTATOR®

10-50 psi (0.7-3.4 bar)  
50-74' (15.2-22.6 m)

R



#### GREATER THROW RADIUS.

As a rotating type sprinkler the R3000 & R3030 Rotator® produce a wider pattern resulting in a lower application rate, reduced runoff and longer soak time.

#### HIGHER UNIFORMITY.

The Rotator greatly improves uniformity because of the increased overlap from adjacent sprinklers.

#### REDUCED WIND DRIFT AND EVAPORATIVE LOSS.

The Rotator more than meets the challenge of putting a rotating type sprinkler on drop tubes – down out of the wind – to minimize wind drift and evaporative loss.

NOZZLE: 3TN OR 3NV

APPLICATION RATE: LOW

### ACCELERATOR

6-15 psi (0.4-1 bar)  
30-55' (9.1-16.8 m)

A



#### COMBINATION OF THROW DISTANCE AND SMALLER DROPLETS.

The Accelerator increases rotation speed through the nozzle range for the right balance of wind-fighting and proper treatment of the soil. Its unique design provides a low pressure option with the proven reliability and long wear life of the Rotator.

#### VERSATILITY.

Maximizes performance of in-canopy water application and also provides a lower cost, low pressure solution in many above canopy applications. With no vibration, mount on any type of drop assembly or up-top.

NOZZLE: 3TN OR 3NV

APPLICATION RATE: LOW-MEDIUM

### SPINNER

10-20 psi (0.7-1.4 bar)  
42-54' (12.8-16.5 m)

S



#### GENTLE RAIN AT LOW PRESSURE.

The free-spinning action of the S3000 & S3030 Spinner provides a gentle, rain-like droplet for sensitive soils and crops.

#### SUPERIOR UNIFORMITY AT LOW PRESSURE.

A low pressure alternative to fixed spray-heads, the Spinner provides higher uniformity with better overlap and lower application rates.

#### NO MOUNTING RESTRICTIONS.

The Spinner operates without vibration. Retrofit on rigid, semi-rigid, or flexible drop hose assemblies.

NOZZLE: 3TN OR 3NV

APPLICATION RATE: LOW-MEDIUM

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**COUNT ON IT**

## THROW DIAMETER, PRESSURE & NOZZLE RANGE



BLUE ROTATOR® CAP

MAX. #50 NOZ. MIN. #14 NOZ. @ 30 PSI (2.0 BAR) #16 FOR LOW PRESS	MAX. #50 NOZ. MIN. #14 NOZ. @ 15 PSI (1.0 BAR)	MAX. #50 NOZ. MIN. #14 NOZ. @ 30 PSI (2.0 BAR) #16 FOR LOW PRESS	MAX. #50 NOZ. MIN. #14 NOZ. @ 15 PSI (1.0 BAR)	MAX. #50 NOZ. MIN. #14 NOZ. @ 15 PSI (1.0 BAR)	MAX. #50 NOZ. MIN. #14 NOZ. @ 15 PSI (1.0 BAR)	MAX. #50 NOZ. MIN. #12 NOZ. @ 10 PSI (0.7 BAR)
BLUE UP-TOP U4-8°	WHITE UP-TOP	GREEN D4-8°	RED D6-12°	ORANGE MULTI-TRAJECTORY	BROWN MULTI-TRAJECTORY	OLIVE LOW PRESSURE
						
70' DIAMETER (21.3 M) AT 12' (3.7 M) MOUNTING @ 30 PSI (2.0 BAR) #32 NOZZLE	74' DIAMETER (22.6 M) AT 12' (3.7 M) MOUNTING @ 30 PSI (2.0 BAR) #32 NOZZLE	72' DIAMETER (21.9 M) AT 9' (2.7 M) MOUNTING @ 30 PSI (2.0 BAR) #32 NOZZLE	66' DIAMETER (20.1 M) AT 9' (2.7 M) MOUNTING @ 25 PSI (1.7 BAR) #36 NOZZLE	72' DIAMETER (21.9 M) AT 9' (2.7 M) MOUNTING @ 25 PSI (1.7 BAR) #36 NOZZLE	68' DIAMETER (20.7 M) AT 9' (2.7 M) MOUNTING @ 25 PSI (1.7 BAR) #36 NOZZLE	58' DIAMETER (17.7) AT 6' (1.8 M) MOUNTING @ 15 PSI (1.0 BAR) #36 NOZZLE
20-50 PSI (1.4-3.4 BAR)	15-30 PSI (1.0-2.0 BAR)	20-50 PSI (1.4-3.4 BAR)	15-30 PSI (1.0-2.0 BAR)	15-30 PSI (1.0-2.0 BAR)	15-30 PSI (1.0-2.0 BAR)	10-15 PSI (0.7-1.0 BAR)



MAROON ACCELERATOR CAP

MAX. #50 NOZ. MIN. #10 NOZ. @ 10 PSI (0.7 BAR) #18 @ 6 PSI	MAX. #50 NOZ. MIN. #10 NOZ. @ 15 PSI (1.0 BAR) #12 @ 10 PSI #18 @ 6 PSI	MAX. #50 NOZ. MIN. #10 NOZ. @ 15 PSI (1.0 BAR) #12 @ 10 PSI #18 @ 6 PSI
MAROON	GOLD	NAVY UP-TOP
		
48' DIAMETER (14.6 M) AT 9' (2.7 M) MOUNTING @ 10 PSI (0.7 BAR) #32 NOZZLE	54' DIAMETER (16.5 M) AT 9' (2.7 M) MOUNTING @ 10 PSI (0.7 BAR) #36 NOZZLE	55' DIAMETER (16.8 M) AT 12' (3.7 M) MOUNTING @ 10 PSI (0.7 BAR) #36 NOZZLE
6-15 PSI (0.4-1.0 BAR)	6-15 PSI (0.4-1.0 BAR)	6-15 PSI (0.4-1.0 BAR)



OPTIONAL SPRINKLER CONVERTER



EASILY CONVERT FROM ACCELERATOR TO SPRAYHEAD TO BUBBLER



GRAY SPINNER CAP

MAX. #50 NOZ. MIN. #14 NOZ. @ 15 PSI (1.0 BAR) #18 FOR LOW PRESS.	MAX. #50 NOZ. MIN. #14 NOZ. @ 15 PSI (1.0 BAR) #16 FOR LOW PRESS.	MAX. #50 NOZ. MIN. #14 NOZ. @ 15 PSI (1.0 BAR) #16 FOR LOW PRESS.	MAX. #15 NOZ. MIN. #10 NOZ. @ 10 PSI (0.7 BAR)
RED D6-12°	PURPLE D6-20°	YELLOW D8-21°	BEIGE* SMALL NOZZLE
			
44' DIAMETER (13.4 M) AT 6' (1.8 M) MOUNTING @ 15 PSI (1.0 BAR) #36 NOZZLE	54' DIAMETER (16.5 M) AT 6' (1.8 M) MOUNTING @ 15 PSI (1.0 BAR) #36 NOZZLE	50' DIAMETER (15.2 M) AT 6' (1.8 M) MOUNTING @ 15 PSI (1.0 BAR) #36 NOZZLE	38' DIAMETER (11.6 M) AT 6' (1.8 M) MOUNTING @ 15 PSI (1.0 BAR) #12 NOZZLE
10-20 PSI (0.7-1.4 BAR)	10-20 PSI (0.7-1.4 BAR)	10-20 PSI (.7-1.4 BAR)	10-15 PSI (0.7-1.0 BAR)



PART CIRCLE SPINNER

#14-40 NOZ.  
10-20 PSI  
(.7-1.4 BAR)

\*The beige plate should be used on flexible drops, or those with at least 1ft. (.3 m) of hose. The smaller nozzles will be more susceptible to plugging.

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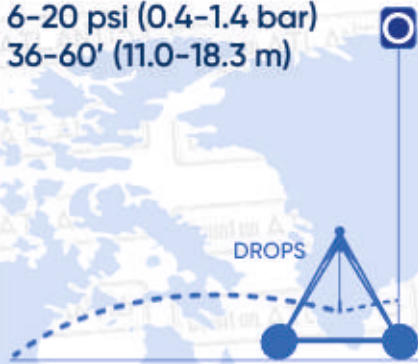
COUNT ON IT



## 3030 SERIES / OPTIONS

### ORBITOR

6-20 psi (0.4-1.4 bar)  
36-60' (11.0-18.3 m)



### STREAMLINED DESIGN.

Featuring technology that eliminates the struts of a sprinkler body, Nelson's Pivot Orbitor provides outstanding uniformity and optimal droplets at low pressures (6-20 psi / 0.4-1.4 bar). Expect long wear life and durability in poor water conditions, because there are no sprinkler body struts for debris to hang up on.

### REDUCED WIND DRIFT AND EVAPORATIVE LOSS.

Strutless sprinkler body design reduces droplet breakup, drift and drool.

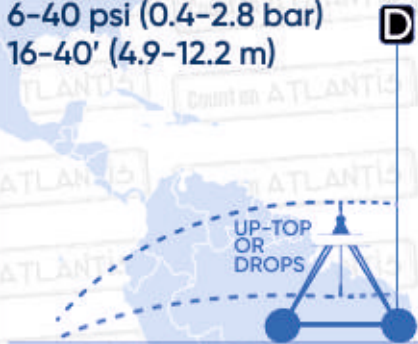
**IMPORTANT! THE ORBITOR REQUIRES A MINIMUM OF 2' (0.6 M) OF REINFORCED FLEXIBLE HOSE IN THE MOUNTING ASSEMBLY.**

**NOZZLE: 3TN OR 3NV**

**APPLICATION RATE: LOW-MEDIUM**

### SPRAYHEAD

6-40 psi (0.4-2.8 bar)  
16-40' (4.9-12.2 m)



### GERMINATE, IRRIGATE & CHEMIGATE.

The flip-over dual spray cap allows easy conversion of the spray pattern. Choose from spray plate options to germinate, irrigate, and chemigate.

### "LOW ENERGY DOWN IN THE CROP".

The sleek, crop-guarded body design provides durability for dragging the Sprayhead down in tall growing crops like corn.

### OPTIONAL LEPA ACCESSORIES.

The hose drag adapter allows simple conversion of the Sprayhead to a hose drag system. Both the D3000 and D3030 have "bubble" modes for LEPA. D3000 requires bubble clip - see page 15.

**NOZZLE: 3TN OR 3NV**

**APPLICATION RATE: HIGH**

### TRASHBUSTER

PRESSURE & THROW  
DEPENDS ON SPRINKLER  
SELECTION

NOZZLE: 3TN OR 3000FC  
APPLICATION RATE: LOW-HIGH



### FLOW CONTROL NOZZLE.

The Flow Control Nozzle (only available for 3000 Series) not only eliminates the need for pressure regulators, but also passes debris more easily. It is not to be used on flexible hose drop assemblies.

### BODY DESIGNED FOR WASTEWATER.

The open architecture design of the body allows for debris to pass through more easily, alleviating build up of material on the plate and body.

### BY OPERATING ON DROP TUBES

You can distribute effluent more days of the year, keep corrosive water off the pivot structure, eliminate excess wind/pathogen drift, and reduce odor. The Trashbuster can be configured into either a Spray or Rotator sprinkler.

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## THROW DIAMETER, PRESSURE & NOZZLE RANGE



#11-#50 NOZ. NOZZLE RANGE	#11-#50 NOZ. NOZZLE RANGE	#11-#50 NOZ. NOZZLE RANGE
BLACK STANDARD ANGLE	BLUE LOW ANGLE	PURPLE SMALL DROPLET
		
58' DIAMETER (17.7 M) AT 6' (1.8 M) MOUNTING @ 15 PSI (1.0 BAR) #36 NOZZLE	50' DIAMETER (15.2 M) AT 6' (1.8 M) MOUNTING @ 15 PSI (1.0 BAR) #36 NOZZLE	47' DIAMETER (14.3 M) AT 6' (1.8 M) MOUNTING @ 15 PSI (1.0 BAR) #36 NOZZLE
6-20 PSI (0.4-1.4 BAR)	6-20 PSI (0.4-1.4 BAR)	6-20 PSI (0.4-1.4 BAR)



ORBITER WITH WEIGHTED COVER



ORBITER WITH PLASTIC COVER

### IMPORTANT MOUNTING INFORMATION:

- The Orbiter requires a minimum of 2' (0.6 m) of reinforced flexible hose in the mounting assembly.
- When using the Orbiter with the weighted cover, do not use any other conventional weight styles instead of, or in addition to, the Orbiter weight.
- When using the Orbiter with the plastic cover, an inline weight is required. Use Nelson Slim Weights (page 25) or 3/4" NPT threaded weights. Slip weights require the Nelson Clamp Saver (page 25).
- Always be sure that the Orbiter Weight, Slim Weight, or threaded weight is securely tightened.
- Always be sure that all components in the mounting assembly and the Orbiter are securely tightened. Use new\* Nelson pressure regulators and fittings.
- If 3/4" ball valves are used, use metal nipples or Nelson P/N-12291 plastic nipples.

\*New, patented single-strut seat manufactured after 2007.



BLACK FLIP-OVER SPRAYHEAD CAP

TURQUOISE	GREEN	BLUE	GRAY
RED	YELLOW	BLACK	ORANGE
WHITE	PURPLE	BROWN	TAN BUBBLE-WIDE

SEE SPRAYHEAD LITERATURE FOR PLATE CHARACTERISTICS, THROW DIAMETER AND PRESSURE/NOZZLE RANGES. THE SPRAYHEAD CAN BE USED UP-TOP OR ON DROPS.

3030 SERIES PART-CIRCLE SPRAY & HOSE DRAG ADAPTER BOTH REQUIRE UNIVERSAL BODY; 3000 SERIES DOES NOT.

BUBBLER ATTACHMENT (LEPA) #10577 FOR D3000 ONLY

FLIP-OVER HOSE DRAG CAP ASSEMBLY #12676



U3030 BODY #12381 PART CIRCLE SPRAY #9894-001



U3030 BODY #12381 HOSE DRAG ADAPTER #9427



SHOWN WITH SPRAY/ACCELERATOR BODY. FLIP OVER TO USE WITH ROTATOR/SPINNER BODY.



BLUE ROTATOR CAP

### ROTATOR® CONFIGURATION

BLUE
GREEN



PURPLE T3000 CAP & SPRAY PLATE

### SPRAYHEAD CONFIGURATION

GREEN	YELLOW	PURPLE
BLUE	BLACK	ORANGE



3000FC NOZZLE #10106-XXX REQUIRES A RIGID DROP AND 25 PSI (1.7 BAR) MINIMUM.

# ATLANTIS

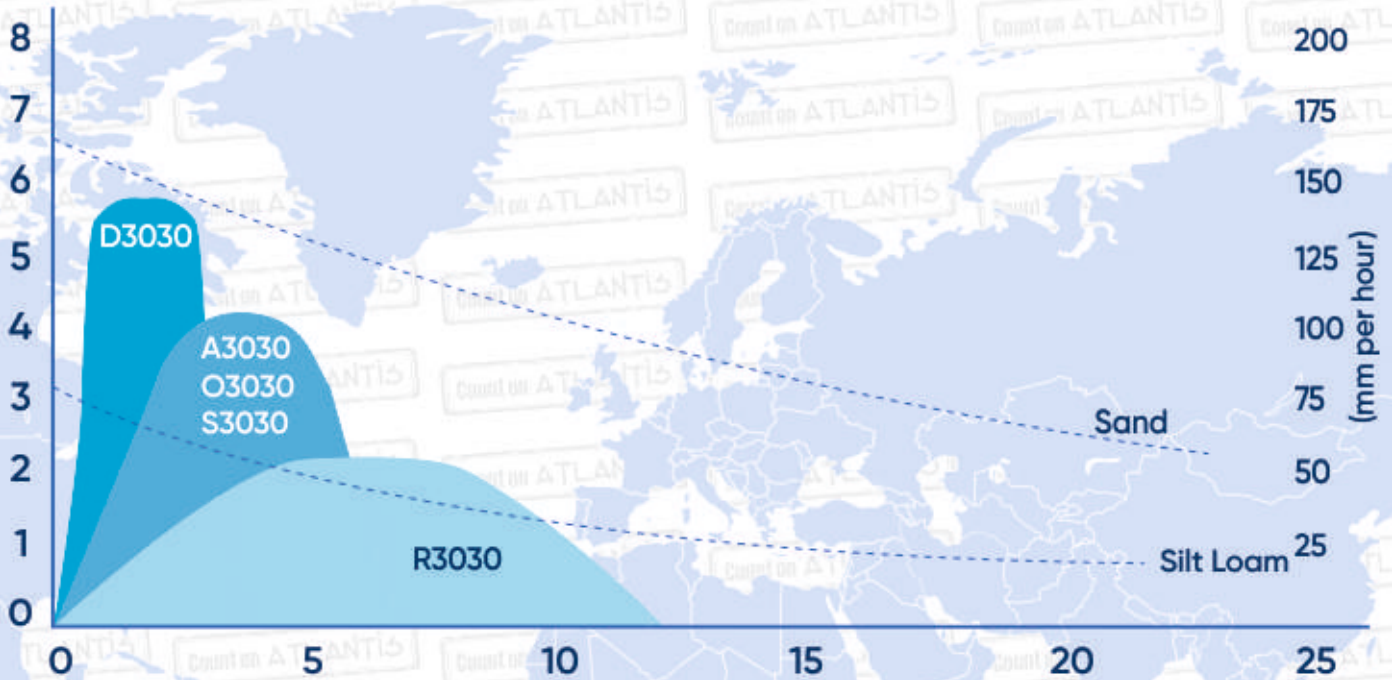
CENTER PIVOT & LINEAR SYSTEMS

**COUNT ON IT**



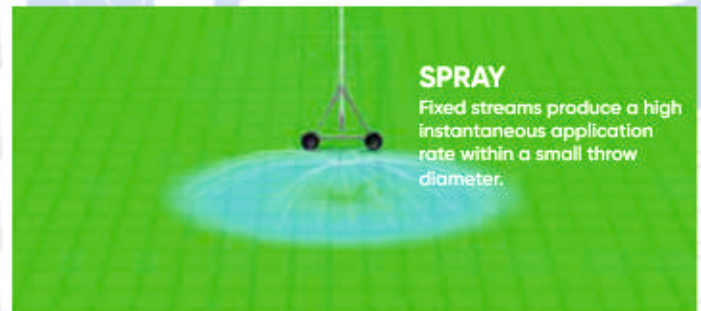
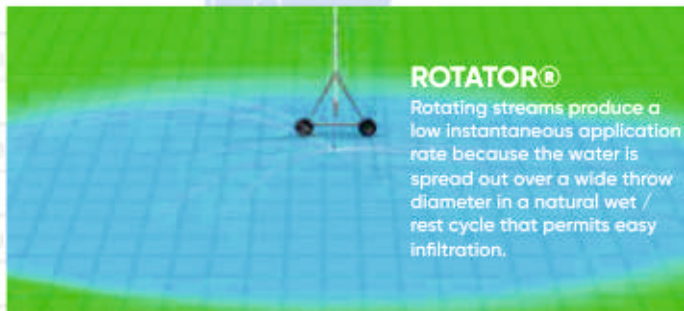
## UNDERSTANDING APPLICATION RATES

WITH SUPERIMPOSED APPLICATION RATES FOR CENTER PIVOT SPRINKLERS, IT IS OBVIOUS THAT THE ROTATOR®, WHICH PROVIDES THE WIDEST THROW DISTANCE ON DROP TUBES, COMES THE CLOSEST TO MATCHING INFILTRATION RATES OF THE SOIL. THE BEST CONDITION FOR INFILTRATION IS TO KEEP THE SOIL SURFACE OPEN AND APPLY WATER USING A WIDE APPLICATION WIDTH.



WITHOUT SPRINKLER PERFORMANCE THAT CAN APPLY WATER AT AN APPLICATION RATE THAT MORE CLOSELY MATCHES THE INFILTRATION RATE OF THE SOIL, THE EFFICIENCY GAINED WITH DROPS – AND MONEY SAVED WITH LOW PRESSURE – IS SOON LOST TO RUNOFF.

Average application rate (AAR) is the rate of water application over the wetted area. It is an average value assuming uniformity within the wetted area. Pivot average application rates increase with the higher flow demands required at the outer portion of a center pivot. Comparably, in analyzing different sprinkler options, superior throw distance yields lower average application rates.



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3TN & 3NV NOZZLES

## PRECISION IRRIGATION — BEGINNING TO END

### DO YOUR DUE DILIGENCE.

An accurate nozzle chart is essential to center pivot irrigation. Nelson has developed a highly-sophisticated design tool for dealers and distributors to determine nozzle sizing after entering system specs and selecting pivot spans, fittings, sprinklers and regulators. Irrigating in a circle is complex—make sure you use the necessary tools to get the job done right the first time.



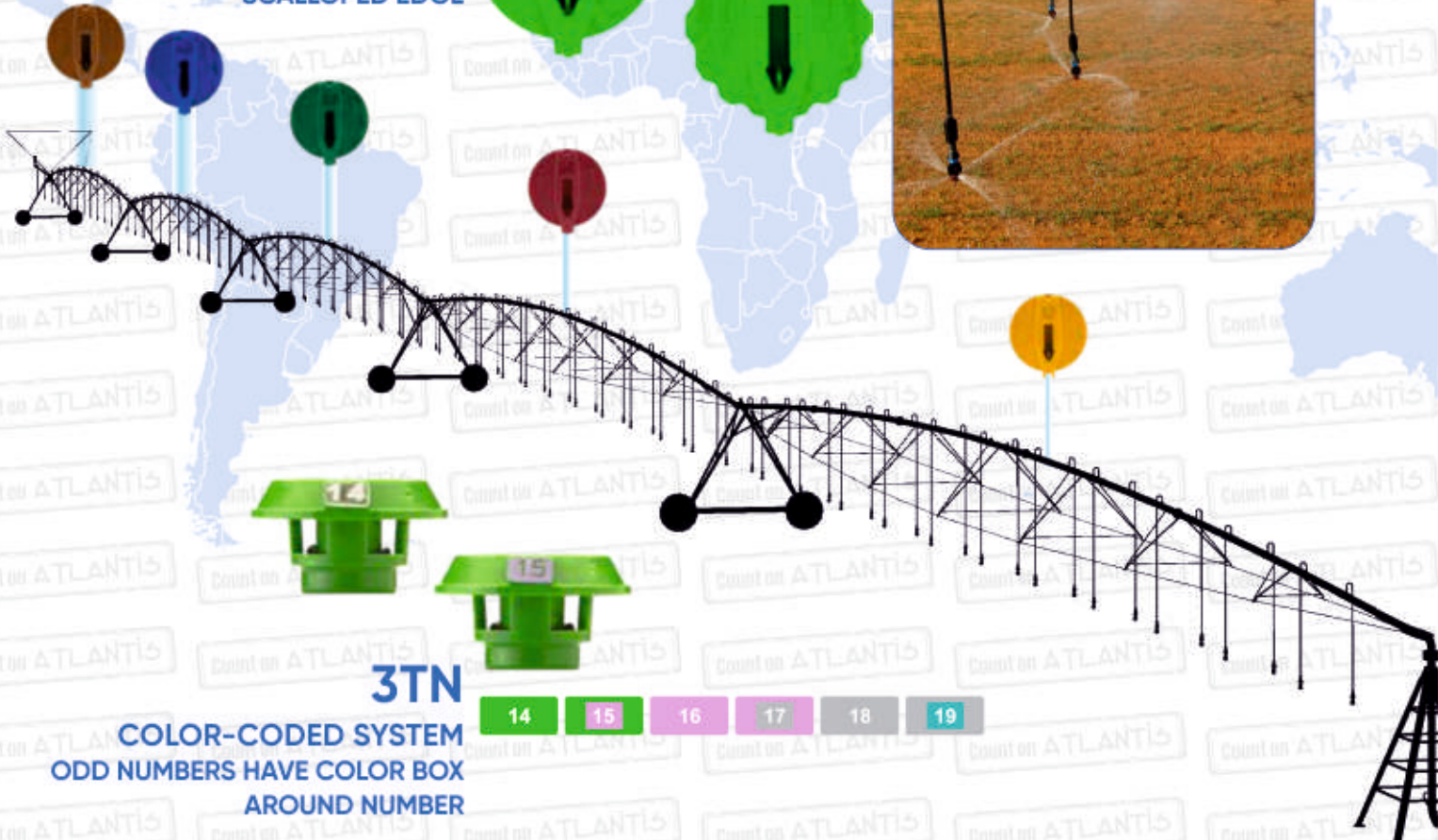
EVEN NOZZLE

3NV

COLOR-CODED SYSTEM  
ODD NUMBERS HAVE  
SCALLOPED EDGE



ODD NOZZLE



3TN

COLOR-CODED SYSTEM  
ODD NUMBERS HAVE COLOR BOX  
AROUND NUMBER

14 15 16 17 18 19

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## NOZZLE CHART



## PERFORMANCE DATA

The nozzle sizing system is based on 128th inch increments, e.g. 3TN/3NV Nozzle #26 has an orifice diameter of 26/128th inches while 3TN/3NV Nozzle #27 has an orifice diameter of 27/128th inches. For 3TN Nozzles, the odd-numbered nozzles have a color box around the number marking. This color box denotes the color of the next larger nozzle size. The odd-numbered 3NV Nozzles have a scalloped edge rather than secondary coloring.

NOZZLE #	#9		#10		#11		#12		#13		#14		#15		#16		#17		#18		#19		
COLOR	LIGHT BLUE		BEIGE		BEIGE		GOLD		GOLD		LIME		LIME		LAVENDER		LAVENDER		GRAY		GRAY		
COLOR BOX (3TN)	BEIGE				GOLD				LIME				LAVENDER				GRAY				TURQUOISE		
PSI	BAR	GPM	LPM	GPM	LPM	GPM	LPM	GPM	LPM	GPM	LPM	GPM	LPM	GPM	LPM	GPM	LPM	GPM	LPM	GPM	LPM	GPM	LPM
6	0.4	0.34	1.28	0.42	1.59	0.50	1.89	0.61	2.30	0.71	2.68	0.82	3.10	0.95	3.59	1.08	4.08	1.22	4.61	1.36	5.14	1.53	5.79
10	0.7	0.44	1.66	0.54	2.04	0.65	2.46	0.79	2.99	0.92	3.48	1.06	4.01	1.23	4.65	1.40	5.29	1.58	5.98	1.75	6.62	1.97	7.45
15	1.0	0.53	2.00	0.66	2.50	0.79	2.99	0.96	3.63	1.13	4.27	1.29	4.88	1.51	5.71	1.71	6.47	1.93	7.30	2.14	8.09	2.41	9.12
20	1.4	0.62	2.34	0.76	2.87	0.92	3.48	1.11	4.20	1.30	4.92	1.49	5.63	1.74	6.58	1.98	7.49	2.23	8.44	2.48	9.38	2.79	10.56
25	1.7	0.69	2.61	0.85	3.22	1.02	3.86	1.24	4.69	1.46	5.52	1.67	6.32	1.95	7.38	2.21	8.36	2.50	9.46	2.77	10.48	3.12	11.81
30	2.1	0.76	2.87	0.93	3.52	1.12	4.23	1.36	5.14	1.59	6.01	1.83	6.92	2.14	8.09	2.42	9.15	2.74	10.37	3.03	11.46	3.41	12.90
40	2.8	0.87	3.29	1.07	4.05	1.29	4.88	1.57	5.94	1.84	6.96	2.11	7.98	2.47	9.34	2.80	10.59	3.16	11.96	3.50	13.24	3.94	14.91
50	3.4	0.97	3.67	1.20	4.54	1.45	5.48	1.76	6.66	2.06	7.79	2.36	8.93	2.76	10.44	3.13	11.84	3.53	13.32	3.91	14.79	4.41	16.69

NOZZLE #	#20		#21		#22		#23		#24		#25		#26		#27		#28		#29		#30		
COLOR	TURQUOISE		TURQUOISE		YELLOW		YELLOW		RED		RED		WHITE		WHITE		BLUE		BLUE		DARK BROWN		
COLOR BOX (3TN)	TURQUOISE		YELLOW				RED				WHITE				BLUE				DARK BROWN				
PSI	BAR	GPM	LPM	GPM	LPM	GPM	LPM	GPM	LPM	GPM	LPM	GPM	LPM	GPM	LPM	GPM	LPM	GPM	LPM	GPM	LPM	GPM	LPM
6	0.4	1.70	6.43	1.84	6.96	2.04	7.72	2.22	8.40	2.44	9.23	2.64	9.99	2.87	10.86	3.07	11.61	3.35	12.68	3.58	13.55	3.83	14.49
10	0.7	2.19	8.28	2.38	9.00	2.64	9.99	2.86	10.82	3.16	11.96	3.41	12.90	3.70	14.00	3.97	15.00	4.32	16.35	4.62	17.48	4.94	18.69
15	1.0	2.69	10.18	2.91	11.01	3.23	12.22	3.50	13.24	3.86	14.61	4.17	15.78	4.53	17.14	4.86	18.39	5.29	20.02	5.66	21.42	6.06	22.93
20	1.4	3.10	11.73	3.36	12.71	3.73	14.11	4.05	15.32	4.46	16.88	4.82	18.24	5.23	19.79	5.61	21.23	6.11	23.12	6.53	24.71	6.99	26.45
25	1.7	3.47	13.13	3.76	14.23	4.17	15.78	4.52	17.10	4.99	18.88	5.38	20.36	5.85	22.14	6.27	23.73	6.83	25.85	7.30	27.63	7.82	29.59
30	2.1	3.80	14.38	4.12	15.59	4.56	17.25	4.96	18.77	5.47	20.70	5.90	22.33	6.41	24.26	6.87	26.00	7.48	28.31	8.00	30.28	8.56	32.39
40	2.8	4.39	16.61	4.76	18.01	5.27	19.94	5.72	21.65	6.31	23.88	6.81	25.77	7.40	28.00	7.94	30.65	8.64	32.70	9.24	34.97	9.89	37.43
50	3.4	4.90	18.54	5.32	20.13	5.89	22.29	6.40	24.22	7.06	26.72	7.61	28.80	8.28	31.33	8.87	33.57	9.66	36.56	10.33	39.13	11.06	41.86

NOZZLE #	#31		#32		#33		#34		#35		#36		#37		#38		#39		#40		#41		
COLOR	DARK BROWN		ORANGE		ORANGE		DARK GREEN		DARK GREEN		PURPLE		PURPLE		BLACK		BLACK		DARK TURQUOISE		DARK TURQUOISE		
COLOR BOX (3TN)	ORANGE				DARK GREEN				PURPLE				BLACK				DARK TURQUOISE				MUSTARD		
PSI	BAR	GPM	LPM	GPM	LPM	GPM	LPM	GPM	LPM	GPM	LPM	GPM	LPM	GPM	LPM	GPM	LPM	GPM	LPM	GPM	LPM	GPM	LPM
6	0.4	4.06	15.36	4.36	16.50	4.65	17.60	4.94	18.69	5.20	19.68	5.47	20.07	5.84	22.10	6.18	23.39	6.52	24.68	6.85	25.92	7.26	27.48
10	0.7	5.24	19.83	5.63	21.50	6.00	22.71	6.37	24.11	6.72	25.43	7.06	26.72	7.54	28.54	7.97	30.16	8.42	31.87	8.85	33.49	9.37	35.47
15	1.0	6.41	24.26	6.89	26.07	7.35	29.71	7.81	29.56	8.23	31.15	8.65	32.74	9.24	34.97	9.77	36.98	10.31	39.02	10.84	41.02	11.48	43.45
20	1.4	7.40	28.00	7.96	30.12	8.49	32.13	9.01	34.10	9.50	35.95	9.98	37.77	10.67	40.38	11.28	42.69	11.91	45.08	12.51	47.35	13.26	50.19
25	1.7	8.28	31.34	8.90	33.68	9.49	35.91	10.08	38.15	10.62	40.19	11.16	42.24	11.92	45.11	12.61	47.72	13.31	50.38	13.99	52.95	14.82	56.09
30	2.1	9.07	34.32	9.75	36.90	10.39	39.32	11.04	41.78	11.64	44.05	12.23	46.29	13.06	49.43	13.81	52.27	14.58	55.19	15.33	58.02	16.23	61.43
40	2.8	10.47	36.62	11.26	42.62	12.00	45.42	12.75	48.25	13.44	50.87	14.12	53.44	15.08	57.07	15.95	60.37	16.84	63.74	17.70	66.99	18.75	70.97
50	3.4	11.71	44.32	12.59	47.65	13.42	50.79	14.25	53.93	15.02	56.85	15.79	59.76	16.86	63.81	17.83	67.48	18.81	71.20	19.79	74.90	20.96	79.33

NOZZLE #	#42		#43		#44		#45		#46		#47		#48		#49		#50		
COLOR	MUSTARD		MUSTARD		MAROON		MAROON		CREAM		CREAM		DARK BLUE		DARK BLUE		COPPER		
COLOR BOX (3TN)			MAROON				CREAM				DARK BLUE				COPPER				
PSI	BAR	GPM	LPM	GPM	LPM	GPM	LPM	GPM	LPM	GPM	LPM	GPM	LPM	GPM	LPM	GPM	LPM	GPM	LPM
6	0.4	7.60	28.76	7.96	30.13	8.33	31.52	8.73	33.04	9.12	34.51	9.58	36.26	9.96	37.69	10.31	39.02	10.77	40.76
10	0.7	9.81	37.13	10.28	38.91	10.75	40.68	11.27	42.66	11.77	44.54	12.36	46.78	12.86	48.67	13.31	50.38	13.91	52.64
15	1.0	12.01	45.45	12.59	47.65	13.17	49.84	13.80	52.23	14.41	54.54	15.14	57.30	15.75	59.61	16.30	61.70	17.03	64.45
20	1.4	13.87	52.49	14.54	55.03	15.20	57.53	15.93	60.30	16.64	62.98	17.49	66.20	18.19	68.84	18.82	71.23	19.67	74.45
25	1.7	15.51	58.70	16.25	61.51	17.00	64.34	17.81	67.41	18.61	70.43	19.55	74.00	20.33	79.94	21.05	79.67	21.99	83.23
30	2.1	16.99	64.30	17.80	67.37	18.62	70.47	19.51	73.85	20.38	77.13	21.42	81.07	22.28	84.32	23.05	87.24	24.09	91.18
40	2.8	19.61	74.22	20.56	77.82	21.50	81.37	22.53	85.28	23.54	89.09	24.73	93.60	25.72	97.35	26.62	100.76	27.82	105.29
50	3.4	21.93	83.00	22.98	86.98	24.04	90.99	25.19	95.34	26.31	99.58	27.65	104.66	28.76	108.85	29.76	112.64	31.10	117.71

This flow data was obtained under ideal test conditions and may be adversely affected by poor hydraulic entrance conditions, turbulence or other factors.

Nelson irrigation makes no representation regarding sprinkler flow rate accuracy under various plumbing and drop pipe conditions.

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## PERFORMANCE DATA

### PRECISION ACCURACY IN TOUGH FIELD ENVIRONMENTS

THE FUNCTION OF A PRESSURE REGULATOR IN CENTER PIVOT SPRINKLER DESIGN IS TO FIX A VARYING INLET PRESSURE TO A SET OUTLET PRESSURE, REGARDLESS OF CHANGES IN THE SYSTEM PRESSURE DUE TO HYDRAULIC CONDITIONS, ELEVATION CHANGES AND PUMPING SCENARIOS.

THE BENEFITS INCLUDE A UNIFORM DEPTH OF WATER APPLICATION, CONTROLLED SPRINKLER PERFORMANCE (DROPLET SIZE AND THROW DISTANCE), AND FLEXIBILITY IN SYSTEM OPERATION.

### SQUARE THREAD CONNECTION



Integral adapter connects directly into all Nelson 3000 & 3030 Series Sprinklers.



HI-FLO SHOWN WITH 3/4" FNPT X 3/4" FNPT CONNECTION



CHEMICALLY RESISTANT MATERIALS



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## PERFORMANCE DATA

### PRESSURE REGULATORS

The Nelson Universal Pressure Regulator has a flow up to 12 GPM (2.7 M3/H) at 15 PSI (1.0 BAR) and above.

**HOW MUCH ELEVATION CHANGE IS ACCEPTABLE? LESS THAN 10% FLOW VARIATION IS A GOOD RULE OF THUMB.**

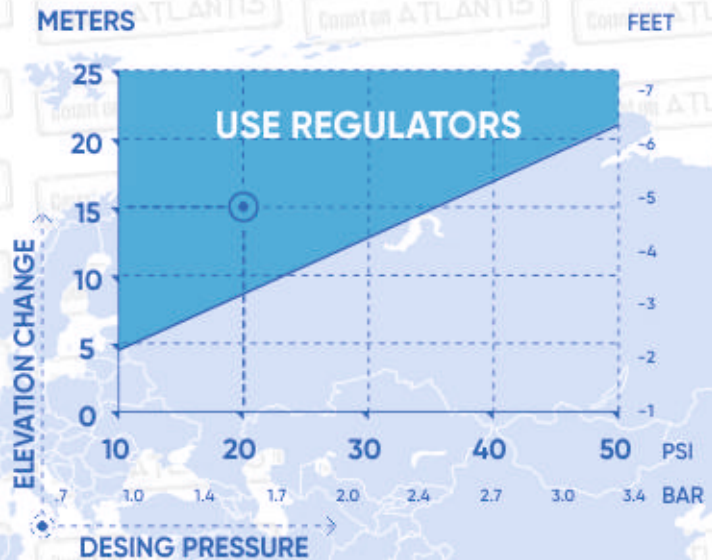
This graph is based on the elevation limit which will cause a flow variation of ten percent or more. If the elevation change from the lowest point is above the line then a flow variation of more than 10 percent will occur. Notice the lower design pressure allows less elevation change before pressure regulators are recommended.

**NOTE:** Even if elevation changes do not require pressure regulators, you should consider them for their other advantages.

#### TECHNICAL TIPS FOR REGULATING SYSTEMS

**IMPORTANT:** Allow approximately 5 PSI (.35 BAR) extra pressure in order for the regulator to function properly. For example, the minimum design pressure for a 20 PSI (1.4 BAR) pressure regulator is 25 PSI (1.7 BAR).

**IMPORTANT:** If your system is designed with Nelson sprinklers, use Nelson Pressure Regulators. Individual manufacturers' pressure regulator performance varies. Interchanging could result in inaccurate nozzle selection.



	6 PSI (0.4 bar)		10 PSI (0.7 bar)		15 PSI (1.0 bar)		20 PSI (1.4 bar)		25 PSI (1.7 bar)		30 PSI (2.1 bar)		40 PSI (2.8 bar)		50 PSI (3.4 bar)	
	UNI-FLO	HI-FLO	UNI-FLO	HI-FLO	UNI-FLO	HI-FLO	UNI-FLO	HI-FLO	UNI-FLO	HI-FLO	UNI-FLO	HI-FLO	UNI-FLO	HI-FLO	UNI-FLO	HI-FLO
3/4" FNPT X SQUARE THREAD	9572-001	9611-001	9572-002	9611-002	9572-003	9611-003	9572-004	9611-004	9572-005	9611-005	9572-006	9611-006	9572-007	9611-007	9572-008	9611-008
3/4" FNPT X 3/4" FNPT	9491-001	9071-001	9491-002	9071-002	9491-003	9071-003	9491-004	9071-004	9491-005	9071-005	9491-006	9071-006	9491-007	9071-007	9491-008	9071-008

### 3/4" FNPT X FNPT CONNECTION



Use 9410 3/4" MNPT adapter

#### PATENTED PLUG RESISTANT DESIGN

Superior plug-resistance with a single-strut seat design in both the Hi-Flo and Universal Flo models.

#### EXTENDED PERFORMANCE & PRECISION ACCURACY

Precision components coupled with an internally lubricated o-ring minimize frictional drag and hysteresis.



Statement of Expected Performance. Nelson Pressure Regulators are accurate to 6% of the manufacturer's coefficient of variation.

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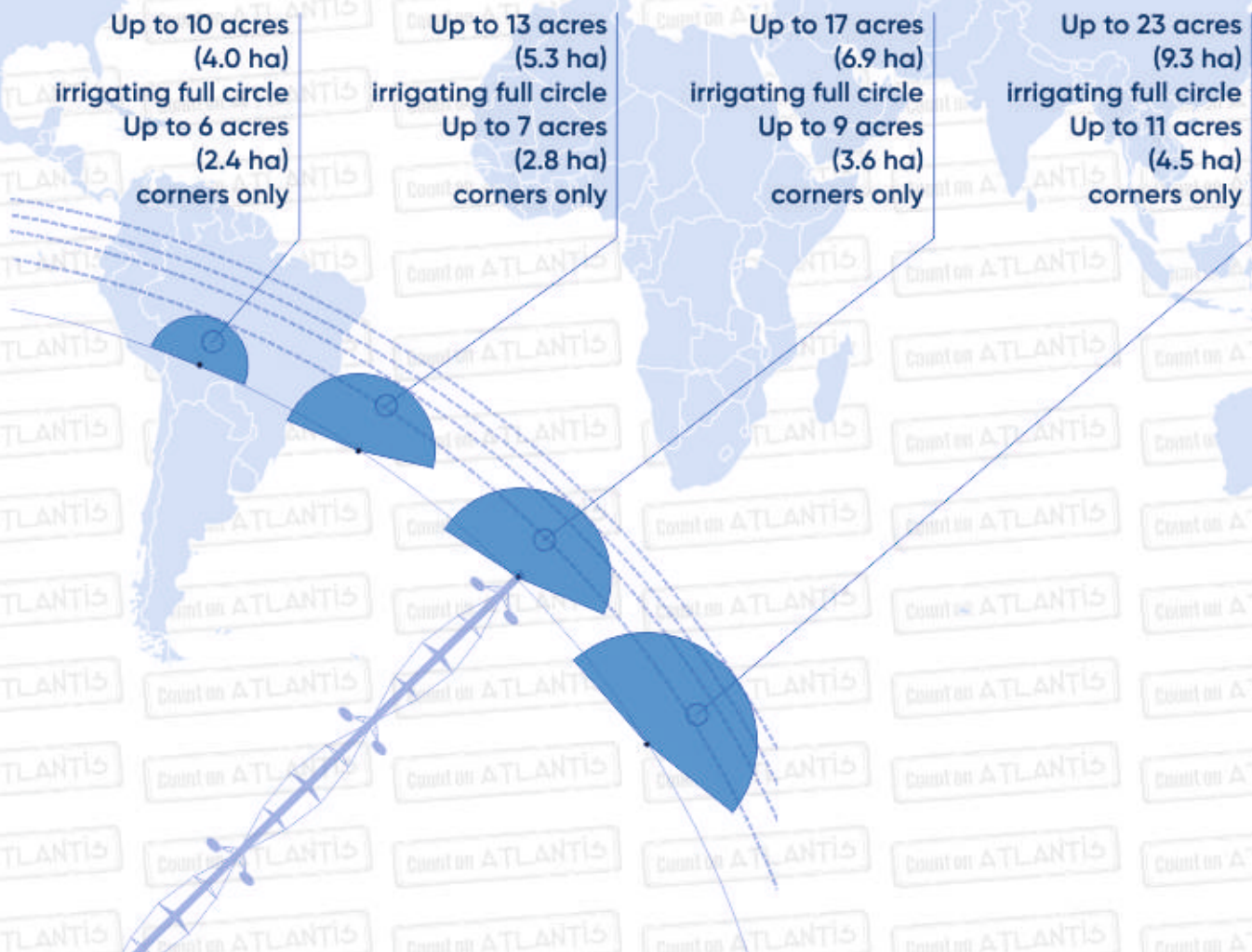
## END OF SYSTEM / SPRINKLER OPTIONS

## END OF PIVOT SPRINKLER OPTIONS FOR SHORT & LONG RADIUS OF THROW

 <p><b>R55VT</b> 40-55' (12-17m) @ 15-60 PSI (1.0-4.2 bar) 19 gpm-105 gpm (4.2 m<sup>3</sup>/h-23.8 m<sup>3</sup>/h)</p>	 <p><b>R75</b> 50-70' (15-21 m) @ 25-60 PSI (1.7-4.2 bar) 24 gpm-70 gpm (5.4 m<sup>3</sup>/h-15.4 m<sup>3</sup>/h)</p>	 <p><b>SR75</b> 70-90' (21-28 m) @ 25-80 PSI (1.7-5.5 bar) 30 gpm-160 gpm (6.8 m<sup>3</sup>/h-36.3 m<sup>3</sup>/h)</p>	 <p><b>SR100</b> 90-120' (28-37 m) @ 40-80 PSI (2.8-5.5 bar) 50 gpm-300 gpm (11.4 m<sup>3</sup>/h-68.2 m<sup>3</sup>/h)</p>
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## TYPICAL ADDED ACREAGE ON A 1/4 MILE PIVOT

<p>Up to 10 acres (4.0 ha) irrigating full circle Up to 6 acres (2.4 ha) corners only</p>	<p>Up to 13 acres (5.3 ha) irrigating full circle Up to 7 acres (2.8 ha) corners only</p>	<p>Up to 17 acres (6.9 ha) irrigating full circle Up to 9 acres (3.6 ha) corners only</p>	<p>Up to 23 acres (9.3 ha) irrigating full circle Up to 11 acres (4.5 ha) corners only</p>
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END OF SYSTEM / SPRINKLER OPTIONS

## ADDITIONAL ACREAGE AT LOW PRESSURE

NO OTHER END OF PIVOT SPRINKLER WORKS IN THE LOW PRESSURE RANGE OF 15-60 PSI (1-4 BAR) AND PROVIDES UP TO 10 ADDITIONAL IRRIGATED ACRES (ON A 1/4 MILE PIVOT).

The R55 VT End of Pivot Sprinkler is changing the way farmers irrigate with center pivots. It can be used to pick up added acreage both throughout the full revolution of the pivot or just in the corners, depending on site specifics and irrigator preferences.

It can be used in conjunction with a higher volume Big Gun® Sprinkler – or on its own. The R55 VT (with blue plate) is to be mounted in an upright position at the end of the overhang.

The New R55i VT, with a specially engineered green plate, has been made for inverted applications. This configuration is found to be easier to plumb – and some say it's effective in helping manage debris that collects at the end of the system. Please note that radius is typically less for the inverted, green plate than for the blue plate.



R55 VT



R55i VT



Drain required

Nelson's R55VT and R75 End of Pivot Sprinklers are now even easier to add to any center pivot system with the End Sprinkler Adapter. Choose from the heavy-duty NPT or BSP threaded options. This adapter eliminates expensive fittings and is very easy to install. (Not to be used with impact sprinklers.)

A SECONDARY END GUN CAN PICK UP EXTRA ACRES BY IRRIGATING WHERE THE SR100 CAN'T – AS THE PIVOT ENTERS/EXITS THE CORNER, AND AROUND OBSTACLES SUCH AS ROADS AND BUILDINGS.



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## END OF SYSTEM / SPRINKLER OPTIONS



### R55 VT

Gain up to 10 acres (4.0 ha) irrigating full circle and up to 6 acres (2.4 ha) corners only on a 1/4 mile pivot.

#### R55 VT PERFORMANCE (U.S. UNITS)

Pressure (PSI)	#52 Purple Nozzle		#56 White Nozzle		#60 Red Nozzle		#65 Orange Nozzle		#70 Yellow Nozzle		#80 Green Nozzle		#90 Blue Nozzle	
	FLOW (GPM)	RADIUS (FT)	FLOW (GPM)	RADIUS (FT)	FLOW (GPM)	RADIUS (FT)	FLOW (GPM)	RADIUS (FT)	FLOW (GPM)	RADIUS (FT)	FLOW (GPM)	RADIUS (FT)	FLOW (GPM)	RADIUS (FT)
15	18.8	40	23.5	40	28.0	40	33.0	40	36.7	40	46.0	40	52.8	41
20	21.6	43	27.0	43	32.1	43	38.0	44	42.2	44	52.9	44	60.6	45
25	24.3	45	30.3	46	36.1	46	42.6	47	47.3	48	59.3	48	68.0	48
30	26.7	46	33.4	47	39.7	47	47.0	48	52.0	49	65.2	49	74.8	50
35	29.0	47	36.2	48	43.1	49	51.0	49	56.5	50	70.8	50	81.1	51
40	31.2	48	38.9	49	46.2	50	54.8	50	60.6	51	75.8	51	87.0	52
45	33.1	48	41.3	50	49.0	51	58.3	51	64.3	52	80.5	53	92.3	54
50	34.9	48	43.4	50	51.6	51	61.4	52	67.7	53	84.7	54	97.2	54
55	36.5	48	45.4	50	54.0	51	64.3	52	70.7	53	88.4	54	101.5	55
60	37.9	48	47.1	50	56.0	51	66.9	52	73.4	53	91.7	54	105.4	56

**UPRIGHT MOUNTING OPERATING PRESSURE MUST BE 15-60 PSI (1-4 BAR)**



#### R55 VT PERFORMANCE (METRIC UNITS)

Pressure (PSI)	#52 Purple Nozzle		#56 White Nozzle		#60 Red Nozzle		#65 Orange Nozzle		#70 Yellow Nozzle		#80 Green Nozzle		#90 Blue Nozzle	
	FLOW (GPM)	RADIUS (FT)	FLOW (GPM)	RADIUS (FT)	FLOW (GPM)	RADIUS (FT)	FLOW (GPM)	RADIUS (FT)	FLOW (GPM)	RADIUS (FT)	FLOW (GPM)	RADIUS (FT)	FLOW (GPM)	RADIUS (FT)
1	4.2	12.2	5.3	12.2	6.3	12.2	7.4	12.2	8.2	12.2	10.3	12.2	11.8	12.5
1.5	5.1	13.3	6.4	13.4	7.6	13.4	9.0	13.7	10.0	13.8	12.5	13.8	14.4	14.0
2	6.0	14.0	7.5	14.3	8.9	14.3	10.5	14.6	11.6	14.9	14.6	14.9	16.7	15.1
2.5	6.7	14.4	8.4	14.7	10.0	15.0	11.8	15.0	13.1	15.3	16.4	15.3	18.8	15.6
3	7.4	14.6	9.2	15.2	11.0	15.5	13.0	15.5	14.4	15.8	18.0	16.0	20.6	16.3
3.5	8.0	14.6	9.9	15.2	11.8	15.5	14.1	15.8	15.5	16.2	19.4	16.5	22.2	16.5
4	8.5	14.6	10.5	15.2	12.5	15.5	15.0	15.8	16.4	16.2	20.5	16.5	23.6	16.9

**POOR ENTRANCE CONDITIONS DIMINISH PERFORMANCE.**

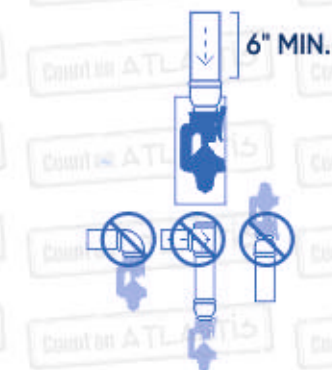


### R55i VT

#### R55i VT PERFORMANCE (U.S. UNITS)

Pressure (PSI)	#52 Purple Nozzle		#56 White Nozzle		#60 Red Nozzle		#65 Orange Nozzle		#70 Yellow Nozzle		#80 Green Nozzle	
	FLOW (GPM)	RADIUS (FT)	FLOW (GPM)	RADIUS (FT)	FLOW (GPM)	RADIUS (FT)	FLOW (GPM)	RADIUS (FT)	FLOW (GPM)	RADIUS (FT)	FLOW (GPM)	RADIUS (FT)
15	18.8	38	23.5	38	28.0	37	33.0	37	36.7	36	46.0	35
20	21.6	40	27.0	41	32.1	40	38.0	40	42.2	39	52.9	38
25	24.3	43	30.3	44	36.1	42	42.6	42	47.3	41	59.3	40
30	26.7	44	33.4	45	39.7	44	47.0	44	52.0	43	65.2	42
35	29.0	45	36.2	46	43.1	45	51.0	45	56.5	44	70.8	43
40	31.2	46	38.9	47	46.2	47	54.8	46	60.6	46	75.8	45
45	33.1	47	41.3	48	49.0	48	58.3	47	64.3	47	80.5	46
50	34.9	47	43.4	48	51.6	48	61.4	48	67.7	47	84.7	46
55	36.5	48	45.4	49	54.0	49	64.3	48	70.7	48	88.4	47
60	37.9	49	47.1	49	56.0	49	66.9	48	73.4	48	91.7	47

**INVERTED MOUNTING OPERATING PRESSURE MUST BE 15-60 PSI (1-4 BAR)**



#### R55i VT PERFORMANCE (METRIC UNITS)

Pressure (PSI)	#52 Purple Nozzle		#56 White Nozzle		#60 Red Nozzle		#65 Orange Nozzle		#70 Yellow Nozzle		#80 Green Nozzle	
	FLOW (GPM)	RADIUS (FT)	FLOW (GPM)	RADIUS (FT)	FLOW (GPM)	RADIUS (FT)	FLOW (GPM)	RADIUS (FT)	FLOW (GPM)	RADIUS (FT)	FLOW (GPM)	RADIUS (FT)
1	4.2	11.6	5.3	11.6	6.3	11.3	7.4	11.3	8.2	11.0	10.3	10.7
1.5	5.1	12.5	6.4	12.8	7.6	12.4	9.0	12.4	10.0	12.1	12.5	11.8
2	6.0	13.4	7.5	13.7	8.9	13.3	10.5	13.3	11.6	13.0	14.6	12.7
2.5	6.7	13.8	8.4	14.1	10.0	13.9	11.8	13.8	13.1	13.6	16.4	13.3
3	7.4	14.2	9.2	14.5	11.0	14.5	13.0	14.2	14.4	14.2	18.0	13.9
3.5	8.0	14.4	9.9	14.7	11.8	14.7	14.1	14.6	15.5	14.4	19.4	14.1
4	8.5	14.8	10.5	14.9	12.5	14.9	15.0	14.6	16.4	14.6	20.5	14.3

**POOR ENTRANCE CONDITIONS DIMINISH PERFORMANCE.**

# ATLANTIS

CENTER PIVOT & LINEAR SYSTEMS

**COUNT ON IT**



## END OF SYSTEM / SPRINKLER OPTIONS

### ROTATOR® TECHNOLOGY RE-IMAGINED

INTRODUCING THE NEW R75 END OF PIVOT SPRINKLER. THIS VERSATILE, HIGH-UNIFORMITY SPRINKLER IS BASED ON FIELD-PROVEN ROTATOR® TECHNOLOGY. THE R75 AND R75LP (LOW PRESSURE OPTION) HELP FILL IN THE CORNERS AND GAIN ADDED GROUND... UP TO 70 FEET (21 M).

**R75**  
40-60 psi  
(2.8-4.0 bar)

**R75LP**  
25-40 psi  
(1.7-2.8 bar)



The Nelson Universal Pressure Regulator has a flow up to 12 GPM (2.7 M3/H) at 15 PSI (1.0 BAR) and above.

#### PERFORMANCE DATA

	#52 (13/32")		#56 (7/16")		#60 (15/32")		#64 (1/2")		#68 (17/32")		#72 (9/16")		
	Pressure (PSI)	FLOW (GPM)	RADIUS (FT)	FLOW (GPM)	RADIUS (FT)	FLOW (GPM)	RADIUS (FT)	FLOW (GPM)	RADIUS (FT)	FLOW (GPM)	RADIUS (FT)	FLOW (GPM)	RADIUS (FT)
<b>R75LP</b>	25	23.6	49.0	27.3	51.0	31.2	53.0	35.4	55.0	39.8	55.0	44.4	56.0
	30	26.0	52.0	29.8	53.0	34.1	54.0	38.8	57.0	43.7	57.0	48.8	58.0
	35	28.0	53.0	32.4	55.0	36.9	55.0	42.0	59.0	47.2	59.0	52.6	60.0
	40	30.0	54.0	34.6	56.0	39.7	56.0	44.9	59.0	50.6	60.0	56.4	61.0
<b>R75</b>	40	30.0	57.0	34.6	59.0	39.7	61.0	44.9	65.0	50.6	65.0	56.4	64.0
	45	31.7	58.0	36.8	60.0	42.0	62.0	47.6	66.0	53.7	66.0	59.7	65.0
	50	33.6	59.0	38.8	61.0	44.4	63.0	50.2	67.0	56.5	67.0	63.1	65.0
	55												
	60												

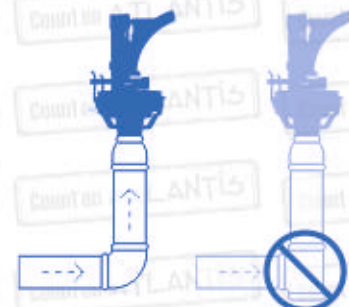
#### METRIC UNITS

	#52 (13/32")		#56 (7/16")		#60 (15/32")		#64 (1/2")		#68 (17/32")		#72 (9/16")		
	Pressure (BAR)	FLOW (m3/h)	RADIUS (m)	FLOW (m3/h)	RADIUS (m)	FLOW (m3/h)	RADIUS (m)	FLOW (m3/h)	RADIUS (m)	FLOW (m3/h)	RADIUS (m)	FLOW (m3/h)	RADIUS (m)
<b>R75LP</b>	1.75	5.4	14.9	6.3	15.5	7.1	16.2	8.1	16.8	9.2	16.8	10.2	17.1
	2.00	5.8	15.5	6.7	16.2	7.6	16.5	8.7	17.4	9.8	17.4	10.9	17.7
	2.50	6.4	16.5	7.5	16.8	8.5	16.8	9.7	18.0	10.9	18.0	12.1	18.3
	2.75	6.8	16.5	7.8	17.1	9.0	17.1	10.2	18.0	11.5	18.3	12.7	18.6
<b>R75</b>	2.75	6.8	17.4	7.8	18.0	9.0	18.6	10.2	19.8	11.5	19.8	12.7	19.5
	3.00	7.1	17.7	8.2	18.3	9.4	18.9	10.6	20.1	12.0	20.1	13.3	19.8
	3.50	7.7	18.0	8.9	18.6	10.2	19.2	11.5	20.4	13.0	20.4	14.4	19.8
	4.00	8.2	18.0	9.5	18.9	10.9	19.8	12.3	21.0	13.9	20.7	15.4	20.4

R75/R75LP performance data has been obtained under ideal test conditions and may be adversely affected by wind, poor hydraulic entrance conditions or other factors. Test riser height of 9 feet (2.7 meters) above measurement surface.

No representation regarding droplet condition, uniformity, application rate, or suitability for a particular application is made herein.

#### REQUIRED PLUMBING



**DRAIN REQUIRED**

**POOR ENTRANCE CONDITIONS DIMINISH PERFORMANCE.**



EASY TO ACCESS NOZZLE.



DUAL BARREL SPRAY PLATE FOR DISTANCE & UNIFORMITY.



ADJUSTABLE STOPS TO ACHIEVE BEST ARC OF COVERAGE.

# ATLANTIS

CENTER PIVOT & LINEAR SYSTEMS



COUNT ON IT

END OF SYSTEM / SPRINKLER OPTIONS

## STILL AROUND FOR A REASON

SR SERIES HAS THE SAME SLOW FORWARD & REVERSE SPEEDS IMPROVING STABILITY / UNIFORMITY

THE PREFERRED CHOICE FOR TOUGH APPLICATIONS

SET IT AND FORGET IT -SIMPLE ADJUSTMENT ALLOWS ARC SETTING TO WITHIN 1 DEGREE

DURABLE & RELIABLE WITH ENGINEERED SIMPLICITY

THE ONLY GUN FOR HOUR AFTER HOUR, YEAR AFTER YEAR OPERATION.

## ORIGINAL BIG GUN

THE LEADER IN QUALITY, PERFORMANCE & SUPPORT



### SR75

30 GPM-160 GPM (6.8 M<sup>3</sup>/H-36.3 M<sup>3</sup>/H)

WITH PROVEN DEPENDABILITY, PERFORMANCE, LONG WEAR LIFE AND REPAIRABILITY KNOWN FROM BIG GUN® SPRINKLERS, THE 18 DEGREE SR75 IS AN AFFORDABLE BIG GUN OPTION THAT PERFORMS WELL AT LOW PRESSURES.



### SR100

50 GPM-300 GPM (11.4 M<sup>3</sup>/H-68.2 M<sup>3</sup>/H)

THE SR100 BIG GUN WITH AN 18 DEGREE TRAJECTORY IS THE MOST POPULAR PIVOT END GUN USED ON CENTER PIVOTS TODAY. A BIG GUN® SPRINKLER (OPERATING THROUGH A COMPLETE ROTATION) ON A QUARTER-SECTION PIVOT CAN EFFECTIVELY IRRIGATE UP TO 20 ADDITIONAL ACRES (8.1 HA). CONSIDERING THE COST EFFECTIVENESS OF PUTTING THIS ADDITIONAL LAND INTO PRODUCTION, AN END GUN OPTION SHOULDN'T BE OVERLOOKED.

# ATLANTIS

CENTER PIVOT & LINEAR SYSTEMS

**COUNT ON IT**



Gain up to 23 acres (9.3 ha) irrigating full circle and up to 11 acres (4.5 ha) corners only on a 1/4 mile pivot.

## PERFORMANCE DATA (US UNITS) 75 TAPER RING NOZZLE – 24° TRAJECTORY

Pressure (psi)	0.4"		0.45"		0.5"		0.55"		0.6"		0.65"		0.7"		0.75"		0.8"	
	GPM	RAD (FT)	GPM	RAD (FT)	GPM	RAD (FT)	GPM	RAD (FT)	GPM	RAD (FT)	GPM	RAD (FT)	GPM	RAD (FT)	GPM	RAD (FT)	GPM	RAD (FT)
25	-	-	-	-	-	-	42	73	50	78	59	81	69	84	80	87	91	91
30	-	-	-	-	37	79	45	79	55	83	64	86	75	91	87	94	99	96
35	-	-	32	77	40	82	49	86	59	89	69	96	81	98	93	101	106	104
40	27	75	35	80	43	86	52	90	63	95	74	99	87	102	98	107	112	111
50	30	81	39	87	48	93	59	98	70	102	83	106	95	110	109	115	123	119
60	33	85	42	92	53	99	64	104	77	110	91	114	104	119	120	123	136	127
70	36	88	45	97	57	105	69	111	83	116	98	122	113	127	129	130	147	135
80	39	91	49	104	61	111	74	117	89	122	105	128	121	133	138	137	158	142

## 100 TAPER BORE NOZZLE – 24° TRAJECTORY

Pressure (psi)	0.5"		0.55"		0.6"		0.65"		0.7"		0.75"		0.8"		0.85"		0.9"		1.0"	
	GPM	RAD (FT)	GPM	RAD (FT)	GPM	RAD (FT)	GPM	RAD (FT)	GPM	RAD (FT)	GPM	RAD (FT)	GPM	RAD (FT)	GPM	RAD (FT)	GPM	RAD (FT)	GPM	RAD (FT)
40	47	96	57	101	66	107	78	111	91	115	103	120	118	125	134	128	152	131	-	-
50	50	103	64	108	74	113	87	118	100	123	115	128	130	133	150	137	165	140	204	150
60	55	108	69	114	81	120	96	125	110	130	126	135	143	140	164	144	182	148	224	158
70	60	113	75	119	88	125	103	132	120	138	136	142	155	148	177	151	197	155	243	169
80	64	118	79	124	94	130	110	137	128	143	146	148	165	153	189	157	210	163	258	177
90	68	123	83	129	100	135	117	142	135	148	155	153	175	158	201	163	223	168	274	181
100	72	128	87	134	106	140	123	147	143	153	163	158	185	163	212	168	235	173	289	186
110	76	133	92	139	111	145	129	152	150	158	171	162	195	168	222	172	247	178	304	190

## PERFORMANCE DATA (METRIC UNITS) 75 TAPER RING NOZZLE – 24° TRAJECTORY

Pressure (psi)	10.2 mm			11.4 mm			12.7 mm			14.0 mm			15.2 mm			16.5 mm			17.8 mm			19.1 mm			20.3 mm		
	L/S	M <sup>3</sup> /HR	RAD (M)	L/S	M <sup>3</sup> /HR	RAD (M)	L/S	M <sup>3</sup> /HR	RAD (M)	L/S	M <sup>3</sup> /HR	RAD (M)	L/S	M <sup>3</sup> /HR	RAD (M)	L/S	M <sup>3</sup> /HR	RAD (M)	L/S	M <sup>3</sup> /HR	RAD (M)	L/S	M <sup>3</sup> /HR	RAD (M)	L/S	M <sup>3</sup> /HR	RAD (M)
1.75	-	-	-	-	-	-	-	-	-	2.64	9.5	22.5	3.18	11.5	24.0	3.73	13.4	25.0	4.37	15.7	26.0	5.04	18.2	27.0	5.73	20.6	28.0
2	-	-	-	-	-	-	2.30	8.3	23.5	2.82	10.2	24.0	3.40	12.2	25.5	3.99	14.4	26.0	4.66	16.8	27.0	5.37	19.3	28.5	6.10	22.0	29.5
2.5	-	-	-	2.09	7.5	24.0	2.58	9.3	25.5	3.15	11.4	26.0	3.79	13.7	27.5	4.46	16.0	28.5	5.19	18.7	29.5	5.97	21.5	31.0	6.78	24.4	32.0
3	1.78	6.4	23.5	2.28	8.2	25.0	2.83	10.2	27.0	3.45	12.4	28.0	4.15	14.9	29.5	4.88	17.6	31.0	5.66	20.4	32.0	6.50	23.4	33.0	7.39	26.6	34.5
3.5	1.93	6.9	24.5	2.46	8.9	26.5	3.06	11.0	28.5	3.73	13.4	30.0	4.48	16.1	31.5	5.27	19.0	33.0	6.10	22.0	34.0	6.99	25.2	35.5	7.95	28.6	36.5
4	2.07	7.4	25.5	2.63	9.5	28.0	3.27	11.8	30.0	3.99	14.3	31.5	4.78	17.2	33.0	5.64	20.3	34.5	6.50	23.4	36.0	7.45	26.8	37.0	8.47	30.5	38.5
4.5	2.19	7.9	26.5	2.78	10.0	29.0	3.47	12.5	31.5	4.23	15.2	33.0	5.06	18.2	34.5	5.98	21.5	36.5	6.88	24.8	37.5	7.87	28.3	39.0	8.96	32.2	40.5
5	2.32	8.3	27.0	2.93	10.5	30.5	3.66	13.2	32.5	4.45	16.0	34.5	5.33	19.2	36.0	6.30	22.7	37.5	7.24	26.1	39.0	8.27	29.8	40.5	9.41	33.9	42.0
5.5	2.43	8.8	27.5	3.07	11.0	31.5	3.85	13.8	34.0	4.67	16.8	35.0	5.59	20.1	37.0	6.61	23.8	38.5	7.58	27.3	40.5	8.65	31.2	41.5	9.85	35.5	43.0
6	2.55	9.2	28.0	3.20	11.5	32.5	4.02	14.5	35.0	4.88	17.6	36.0	5.84	21.0	38.0	6.90	24.8	39.5	7.90	28.4	41.5	9.02	32.5	42.5	10.26	36.9	44.0

## 100 TAPER BORE NOZZLE – 24° TRAJECTORY

Pressure (psi)	12.7 mm			14.0 mm			15.2 mm			16.5 mm			17.8 mm			19.1 mm			20.3 mm			21.6 mm			22.9 mm			25.4 mm		
	L/S	M <sup>3</sup> /HR	RAD (M)	L/S	M <sup>3</sup> /HR	RAD (M)	L/S	M <sup>3</sup> /HR	RAD (M)	L/S	M <sup>3</sup> /HR	RAD (M)	L/S	M <sup>3</sup> /HR	RAD (M)	L/S	M <sup>3</sup> /HR	RAD (M)	L/S	M <sup>3</sup> /HR	RAD (M)	L/S	M <sup>3</sup> /HR	RAD (M)	L/S	M <sup>3</sup> /HR	RAD (M)			
2.75	2.88	10.4	29.5	3.61	13.0	31.0	4.15	14.9	32.5	4.92	17.7	34.0	5.69	20.5	35.0	6.48	23.3	36.5	7.38	26.6	38.0	8.44	30.4	39.0	9.45	34.0	40.0	-	-	-
3	3.01	10.8	30.0	3.76	13.5	31.5	4.34	15.6	33.5	5.13	18.5	34.5	5.94	21.4	36.0	6.77	24.4	37.5	7.70	27.7	39.0	8.82	31.7	40.0	9.86	35.5	41.0	12.02	43.3	43.0
3.5	3.24	11.7	31.5	4.04	14.5	33.0	4.70	16.9	34.5	5.54	20.0	36.0	6.42	23.1	37.5	7.32	26.3	39.0	8.32	30.0	40.5	9.52	34.3	42.0	10.63	38.3	42.5	12.99	46.8	45.5
4	3.46	12.5	32.5	4.30	15.5	34.5	5.04	18.1	36.0	5.92	21.3	37.5	6.86	24.7	39.0	7.82	28.2	40.5	8.89	32.0	42.0	10.18	36.6	43.5	11.35	40.8	44.5	13.89	50.0	48.0
4.5	3.67	13.2	34.0	4.54	16.3	35.5	5.35	19.3	37.0	6.28	22.6	39.0	7.28	26.2	41.0	8.30	29.9	42.5	9.43	34.0	44.0	10.79	38.9	45.0	12.02	43.3	46.0	14.73	53.0	50.0
5	3.86	13.9	35.0	4.76	17.2	37.0	5.65	20.3	38.5	6.62	23.8	40.5	7.67	27.6	42.0	8.75	31.5	43.5	9.94	35.8	45.0	11.38	41.0	46.5	12.65	45.5	47.5	15.53	55.9	52.0
5.5	4.05	14.6	36.0	4.98	17.9	38.0	5.93	21.4	39.5	6.94	25.0	42.0	8.05	29.0	43.5	9.18	33.1	45.0	10.42	37.5	46.5	11.93	43.0	48.0	13.26	47.7	49.0	16.30	58.7	53.5
6	4.22	15.2	37.0	5.18	18.7	39.0	6.21	22.3	40.5	7.25	26.1	43.0	8.40	30.3	44.5	9.59	34.5	46.0	10.89	39.2	47.5	12.46	44.9	49.0	13.83	49.8	50.5	17.02	61.3	55.0
6.5	4.39	15.8	38.0	5.38	19.4	40.0	6.47	23.3	41.5	7.54	27.2	44.0	8.75	31.5	46.0	9.99	36.0	47.5	11.33	40.8	49.0	12.97	46.7	50.5	14.38	51.8	52.0	17.72	63.8	56.0
7	4.56	16.4	39.0	5.57	20.0	41.5	6.72	24.2	43.0	7.83	28.2	45.5	9.08	32.7	47.0	10.37	37.3	48.5	11.76	42.3	50.0	13.46	48.4	51.5	14.91	53.7	53.0	18.39	66.2	57.0
7.5	4.71	17.0	40.5	5.75	20.7	42.5	6.96	25.1	43.5	8.10	29.2	46.5	9.40	33.8	47.5	10.73	38.6	49.0	12.17	43.8	50.5	13.93	50.1	52.0	15.43	55.5	54.0	19.04	68.5	57.5

Diameters are based on a 24° trajectory for the 75 and 100 Series. The lower trajectory angles result in better wind fighting ability, but reduced throw distances. Throw reduction depends upon nozzle flow rate. In general, the throw distance is reduced approximately 3% with each 3° drop in trajectory angle. Big Gun® performance data has been obtained under ideal test conditions and may be adversely affected by wind, poor hydraulic entrance conditions or other factors. Test riser height of 3 feet (0.91 meters) above measurement surface. No representation regarding droplet condition, uniformity, application rate, or suitability for a particular application is made herein. Additional nozzle options and sizes available.

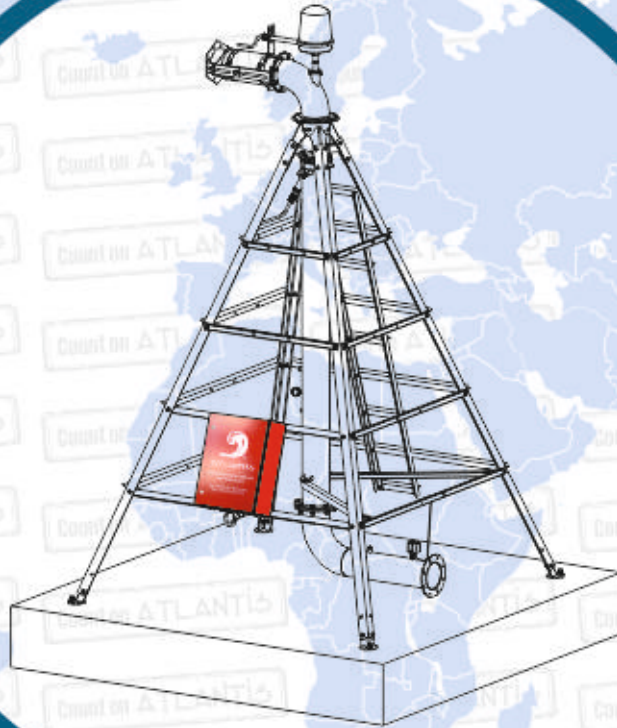
# ATLANTIS

CENTER PIVOT & LINEAR SYSTEMS

**COUNT ON IT**

**Senninger®**

**PIVOT SPRINKLER & NOZZLE**



*"We work with long-lasting brands for our customers"*





# ATLANTIS

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**FEATURES**

- Easy change nozzle introduced in 2008
- Color-coded for easy size identification
- Excellent durability
- Warranted to maintain correct orifice size for five years

**UP3 NOZZLE FLOWS**

Nozzle Number and Nozzle color	Nozzle Orifice Size		6 psi		10 psi		15 psi		20 psi		25 psi		30 psi		35 psi		40 psi		50 psi	
			0.41 bar		0.69 bar		1.03 bar		1.38 bar		1.72 bar		2.07 bar		2.42 bar		2.76 bar		3.45 bar	
			gpm	(L/hr)	gpm	(L/hr)	gpm	(L/hr)	gpm	(L/hr)	gpm	(L/hr)	gpm	(L/hr)	gpm	(L/hr)	gpm	(L/hr)	gpm	(L/hr)
#2 Pink	1/32"	0.79 mm	0.07	16	0.09	20	0.11	25	0.12	27	0.14	32	0.15	34	0.16	36	0.18	41	0.20	45
	5/128"	0.99 mm	0.11	25	0.14	32	0.17	39	0.19	43	0.22	50	0.24	55	0.26	59	0.28	64	0.31	70
#3 Ice	3/64"	1.19 mm	0.15	34	0.20	45	0.24	55	0.28	64	0.31	70	0.34	77	0.37	84	0.40	91	0.44	100
	7/128"	1.4 mm	0.21	48	0.27	61	0.33	75	0.38	86	0.43	98	0.47	107	0.50	114	0.54	123	0.60	136
#4 Light Blue	1/16"	1.59 mm	0.27	61	0.35	79	0.43	98	0.50	114	0.56	127	0.61	139	0.66	150	0.70	159	0.79	179
	9/128"	1.78 mm	0.35	79	0.45	102	0.55	125	0.63	143	0.71	161	0.77	175	0.84	191	0.89	202	1.00	227
#5 Beige	5/64"	1.98 mm	0.43	98	0.55	125	0.68	154	0.78	177	0.87	198	0.96	218	1.04	236	1.11	252	1.24	282
	11/128"	2.16 mm	0.52	118	0.67	152	0.82	186	0.95	216	1.06	241	1.16	263	1.26	286	1.34	304	1.50	341
#6 Gold	3/32"	2.38 mm	0.62	141	0.80	182	0.98	223	1.13	257	1.26	286	1.38	313	1.50	341	1.60	363	1.79	407
	13/128"	2.59 mm	0.73	166	0.94	213	1.15	261	1.33	302	1.49	338	1.63	370	1.76	400	1.88	427	2.10	477
#7 Lime	7/64"	2.78 mm	0.85	193	1.09	248	1.34	304	1.54	350	1.73	393	1.89	429	2.04	463	2.18	495	2.44	554
	15/128"	2.97 mm	0.97	220	1.26	286	1.54	350	1.77	402	1.98	450	2.17	493	2.35	534	2.51	570	2.81	638
#8 Lavender	1/8"	3.18 mm	1.11	252	1.43	325	1.75	397	2.02	459	2.26	513	2.48	563	2.68	609	2.86	650	3.20	727
	17/128"	3.38 mm	1.25	284	1.62	368	1.98	450	2.29	520	2.56	581	2.80	636	3.02	686	3.23	734	3.61	820
#9 Grey	9/64"	3.57 mm	1.40	318	1.81	411	2.22	504	2.56	581	2.87	652	3.14	713	3.39	770	3.63	824	4.06	922
	19/128"	3.76 mm	1.57	357	2.02	459	2.48	563	2.86	650	3.20	727	3.50	795	3.78	859	4.04	918	4.52	1027
#10 Turquoise	5/32"	3.97 mm	1.74	395	2.24	509	2.75	625	3.17	720	3.55	806	3.88	881	4.20	954	4.49	1020	5.01	1138
	21/128"	4.17 mm	1.92	436	2.47	561	3.03	688	3.50	795	3.91	888	4.29	974	4.63	1052	4.95	1124	5.53	1256
#11 Yellow	11/64"	4.37 mm	2.10	477	2.72	618	3.33	756	3.84	872	4.30	977	4.71	1070	5.08	1154	5.43	1233	6.08	1381
	23/128"	4.57 mm	2.30	522	2.97	675	3.64	827	4.20	954	4.70	1067	5.15	1170	5.56	1263	5.94	1349	6.65	1510
#12 Red	3/16"	4.76 mm	2.51	570	3.24	736	3.97	902	4.58	1040	5.12	1163	5.61	1274	6.06	1376	6.48	1472	7.24	1644
	25/128"	4.95 mm	2.72	618	3.52	799	4.31	979	4.97	1129	5.56	1263	6.09	1383	6.58	1494	7.03	1597	7.86	1785
#13 White	13/64"	5.16 mm	2.95	670	3.81	865	4.66	1058	5.38	1222	6.02	1367	6.59	1497	7.12	1617	7.61	1728	8.51	1933
	27/128"	5.36 mm	3.18	722	4.11	933	5.03	1142	5.81	1320	6.49	1474	7.11	1615	7.68	1744	8.21	1865	9.18	2085
#14 Blue	7/32"	5.56 mm	3.42	777	4.42	1004	5.41	1229	6.25	1420	6.99	1588	7.65	1738	8.27	1878	8.84	2008	9.88	2244
	29/128"	5.77 mm	3.67	834	4.74	1077	5.81	1320	6.71	1524	7.50	1703	8.21	1865	8.87	2015	9.48	2153	10.60	2408
#15 Dk. Brown	15/64"	5.95 mm	3.93	893	5.08	1154	6.22	1413	7.18	1631	8.03	1824	8.79	1996	9.50	2158	10.15	2305	11.35	2578
	31/128"	6.15 mm	4.20	954	5.42	1231	6.64	1508	7.67	1742	8.57	1946	9.39	2133	10.14	2303	10.84	2462	12.12	2753
#16 Orange	1/4"	6.35 mm	4.48	1018	5.78	1313	7.08	1608	8.17	1856	9.14	2076	10.01	2274	10.81	2455	11.56	2626	12.92	2934
	33/128"	6.55 mm	4.76	1081	6.15	1397	7.53	1710	8.69	1974	9.72	2208	10.65	2419	11.50	2612	12.30	2794	13.75	3123
#17 Dk. Green	17/64"	6.75 mm	5.06	1149	6.53	1483	7.99	1815	9.23	2096	10.32	2344	11.31	2569	12.21	2773	13.06	2966	14.60	3316
	35/128"	6.93 mm	5.36	1217	6.92	1572	8.47	1924	9.78	2221	10.94	2485	11.98	2721	12.94	2939	13.84	3143	15.47	3514
#18 Purple	9/32"	7.14 mm	5.67	1288	7.32	1663	8.96	2035	10.35	2351	11.57	2628	12.68	2880	13.69	3109	14.64	3325	16.37	3718
	37/128"	7.34 mm	5.99	1360	7.73	1756	9.47	2151	10.93	2482	12.22	2775	13.39	3041	14.46	3284	15.46	3511	17.28	3925
#19 Black	19/64"	7.54 mm	6.31	1433	8.15	1851	9.98	2267	11.53	2619	12.89	2928	14.12	3207	15.25	3464	16.30	3702	18.23	4140
	39/128"	7.75 mm	6.65	1510	8.58	1949	10.51	2387	12.14	2757	13.57	3082	14.86	3375	16.05	3645	17.16	3897	19.19	4359
#20 Dk. Turquoise	5/16"	7.94 mm	6.99	1588	9.02	2049	11.05	2510	12.76	2898	14.27	3241	15.63	3550	16.88	3834	18.05	4100	20.18	4583
	41/128"	8.13 mm	7.34	1667	9.47	2151	11.60	2635	13.40	3043	14.98	3402	16.41	3727	17.72	4025	18.95	4304	21.18	4811
#21 Mustard	21/64"	8.33 mm	7.70	1749	9.93	2255	12.17	2764	14.05	3191	15.71	3568	17.21	3909	18.59	4222	19.87	4513	22.21	5044
	43/128"	8.53 mm	8.06	1831	10.40	2362	12.74	2894	14.71	3341	16.45	3736	18.02	4093	19.46	4420	20.80	4724	23.26	5283
#22 Maroon	11/32"	8.73 mm	8.43	1915	10.88	2471	13.33	3028	15.39	3495	17.20	3907	18.85	4281	20.36	4624	21.76	4942	24.33	5526
	45/128"	8.94 mm	8.81	2001	11.37	2582	13.92	3162	16.08	3652	17.98	4084	19.69	4472	21.27	4831	22.74	5165	25.42	5774
#23 Cream	23/64"	9.13 mm	9.19	2087	11.87	2696	14.54	3302	16.78	3811	18.77	4263	20.56	4670	22.20	5042	23.74	5392	26.54	6028
	47/128"	9.32 mm	9.58	2176	12.37	2810	15.15	3441	17.49	3972	19.56	4443	21.43	4867	23.14	5256	24.74	5619	27.66	6282
#24 Dk. Blue	3/8"	9.53 mm	9.98	2267	12.88	2925	15.78	3584	18.22	4138	20.37	4627	22.31	5067	24.10	5474	25.77	5853	28.81	6543
	49/128"	9.73 mm	10.38	2358	13.40	3043	16.41	3727	18.95	4304	21.18	4811	23.20	5269	25.06	5692	26.79	6085	29.96	6805
#25 Copper	25/64"	9.92 mm	10.78	2448	13.92	3162	17.05	3872	19.69	4472	22.01	4999	24.11	5476	26.04	5914	27.84	6323	31.13	7070
	51/128"	10.11 mm	11.19	2542	14.45	3282	17.69	4018	20.43	4640	22.84	5188	25.02	5683	27.03	6139	28.89	6562	32.30	7336
#26 Bronze	13/32"	10.32 mm	11.60	2635	14.98	3402	18.35	4168	21.18	4811	23.68	5378	25.94	5892	28.02	6364	29.96	6805	33.49	7606

# ATLANTIS

CENTER PIVOT & LINEAR SYSTEMS

**Senninger®**

**COUNT ON IT**

## UP3 | UNIVERSAL PIVOT PRODUCTS PLATFORM

Developed in 2008, Senninger's exclusive UP3 (Universal Pivot Products Platform) product line adds significant benefits to the proven technologies of the i-Wob, Xi-Wob, LDN, Super Spray and Xcel-Wobbler UP3 TOP making nozzle changes just a click away.

Growers may want to renozzle to utilize different flow rates on their sprinkler package. Lower flow rates are often used for germination and chemigation. Some growers experience frequent drops in well capacity or simply want to tailor-manage their resources. The UP3 nozzle design offers a quick solution for easy nozzle changes along with two convenient options for nozzle carriers so your next nozzle is always at hand when you're ready to make the change.



### EASY-CLEAN/EASY-CHANGE NOZZLE DESIGN (Patented)



Just pinch and pull to remove the nozzle then place and click to re-

install. Cleaning and changing nozzles is easy and convenient. There is no need to disassemble or remove the sprinkler.

The color-coded nozzles are highly visible and easy to identify. The nozzle numbers (corresponding to orifice sizes in 64ths of an inch) are visible on the ears, with half sizes denoted beneath the second digit and the notches on the lower edge of the nozzle.

### UP3 DUAL NOZZLE CARRIER (Patent Pending)



Growers may want to renozzle to utilize different

flow rates on their sprinkler package. Lower flow rates are often used for germination and chemigation.

Some growers experience frequent drops in well capacity or simply want to tailor-manage their resources. The UP3 nozzle design offers a quick solution for easy nozzle changes along with two convenient options for nozzle carriers so your next nozzle is always at hand when you're ready to make the change.

### UP3 DUAL NOZZLE FITTING



Growers may want to renozzle to utilize different flow rates on their sprinkler package. Lower flow rates are

often used for germination and chemigation. Some growers experience frequent drops in well capacity or simply want to tailor-manage their resources. The UP3 nozzle design offers a quick solution for easy nozzle changes along with two convenient options for nozzle carriers so your next nozzle is always at hand when you're ready to make the change.



# ATLANTIS

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**Senninger®**

**Xi-Wob® | WOBBLERS**



The Senninger Xi-Wob provides the same low application intensity and uniform distribution pattern that has made the i-Wob the leading pivot sprinkler on the market. The Xi-Wob's patented counter balance technology makes it ideal for installation on semi-rigid PE drops, steel drops, and flexible hose drops when used with the Magnum Weight.



## FEATURES

- Wobbler technology produces low application intensity to preserve soil integrity.
- Low pressure operation - 10 to 15 psi (0.69 to 1.03 bar) - saves money and energy.
- Three different models available based on desired trajectory and droplet size.
- UP3 snap-in nozzle is easy to remove for cleaning or changing. To remove the nozzle simply pinch and pull, then place and click to install.

## XI-WOB SYSTEM ASSEMBLY

- The Xi-Wob must be mounted no more than 1 ft (0.3 m) below the truss rod on semirigid Polyethylene or steel drops. Do not use PVC drops.
- The Xi-Wob can also be mounted on flexible hose drops when used with the Magnum Weight.



**THREE MODELS AVAILABLE!**

(610 Model shown above)



Use the Magnum Weight or The One Weight on flexible hose installations.

# ATLANTIS

CENTER PIVOT & LINEAR SYSTEMS



**COUNT ON IT**

## Xi-Wob® | WOBBLERS

### LOW APPLICATION INTENSITY

Stream-driven applicators provide good throw distance, but their distinct streams instantaneously place the entire flow in a relatively small area. This more intense application can negatively impact the soil surface. In contrast, the Xi-Wob applies water to a larger area of soil surface, reducing the impact of the sprinkler's pattern on the soil structure. Larger instantaneous coverage offers a slower intake rate to help reduce runoff and wheel tracking.

### UNMATCHED UNIFORMITY

The Xi-Wob offers a gentle, more uniform delivery and an even droplet size. Consistently sized droplets help maintain a sprinkler's pattern integrity in wind conditions and are more resistant to evaporation. The Xi-Wob's droplet size can be tailored to the needs of the soil through the selection of proper deflectors and operating pressures.

### INSTANTANEOUS AREA OF COVERAGE



Xi-Wob



Stream Driven

In this example, the Xi-Wob is spreading the same amount of water over an area five times greater than the area covered by the spray nozzle.

Three different deflector models based on desired trajectory and droplet size.



XI-WOB DESIGN CRITERIA	Model 610 (Blue) 6-Groove 10° Trajectory Medium Droplets	Model 615 (Black) 6-Groove 15° Trajectory Large Droplets	Model 910 (Grey) 9-Groove 10° Trajectory Smaller Droplets
<b>Nozzle sizes</b>			
Minimum	#7 7/64" (2.78 mm)	#10 5/32" (3.97 mm)	#10 5/32" (3.97 mm)
Maximum*	#24 3/8" (9.53 mm)	#24 3/8" (9.53 mm)	#24 3/8" (9.53 mm)
<b>Flows</b>			
Minimum	1.09 gpm (248 L/hr)	2.24 gpm (509 L/hr)	2.24 gpm (509 L/hr)
Maximum	15.78 gpm (3584 L/hr)	15.78 gpm (3584 L/hr)	15.78 gpm (3584 L/hr)
<b>Diameters</b>			
Minimum at 3 ft (0.91 m)	30 ft (9.1 m)	38 ft (11.6 m)	33 ft (10.1 m)
Maximum at 3 ft (0.91 m)	41 ft (12.5 m)	43 ft (13.1 m)	36 ft (11.0 m)
Minimum at 6 ft (1.83 m)	35 ft (10.7 m)	43 ft (13.1 m)	38 ft (11.6 m)
Maximum at 6 ft (1.83 m)	45 ft (13.7 m)	50 ft (15.2 m)	43 ft (13.1 m)
Minimum at 9 ft (2.74 m)	37 ft (11.3 m)	46 ft (14.0 m)	43 ft (13.1 m)
Maximum at 9 ft (2.74 m)	47 ft (14.3 m)	55 ft (16.8 m)	50 ft (15.2 m)
<b>Maximum Spacing**</b>			
at 6 ft (1.8 m) ground clearance	18 ft (5.5 m)	20 ft (6.1 m)	18 ft (5.5 m)
at 9 ft (2.74 m) ground clearance	18 ft (5.5 m)	20 ft (6.1 m)	18 ft (5.5 m)
<b>Pressure at the Nozzle</b>			
Minimum	10 psi (0.69 bar)	10 psi (0.69 bar)	10 psi (0.69 bar)
Maximum	15 psi (1.03 bar)	15 psi (1.03 bar)	15 psi (1.03 bar)

\*It is recommended that larger nozzle sizes be used only on soils that are suited for higher application rates.

\*\* For optimum performance, Senninger recommends the use of maximum spacing for 1-2 spans only.

Note: When outlet spacing exceeds 10 ft (3.0 m), keep Xi-Wobs above crop canopy. This is especially important on high profile crops. Not warranted for rigid installation on offsets or booms larger than 10.5 ft (3.2 m). Longer offsets and booms require a minimum of 2 ft (0.61 m) reinforced flex hose.

# ATLANTIS

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## Xcel-Wobbler® TOP | WOBBLERS



Senninger has expanded their patented Wobbler technology with a new top-of-pipe Xcel-Wobbler employing the innovative UP3 nozzle. This new sprinkler is designed for low pressure to promote energy savings. It produces a wind-resistant larger droplet size. The gentle rain-like application is suitable for all soils and various terrains.



### FEATURES

- Wobbler technology provides outstanding uniformity over a large wetted area
- More economical than other sprinkler packages
- Low pressure operation – 10 psi (0.69 bar)–saves energy and provides larger droplet size
- UP3 snap-in nozzle is easy to remove for cleaning.

### XCEL-WOBBLER SYSTEM ASSEMBLY

- The Xcel-Wobbler TOP must employ a 10 psi (0.69 bar) pressure regulator (PSR or PSR-2 recommended).
- Use a 3/4" galvanized nipple or Senninger's impact-modified thermoplastic nipple into the mainline (maximum 2 feet length). PVC nipples are not recommended.
- The Xcel-Wobbler UP3 TOP is designed specifically for upright installation on top-of-pipe.
- The Xcel-Wobbler UP3 TOP is not recommended for a manifold installation of two or more units from a single outlet.

Note: Any modifications or deletions regarding installation requirements will void warranty.

### XCEL-WOBBLER TOP DESIGN CRITERIA

(Blue)  
6-groove 5-degrees  
Large Droplets

XCEL-WOBBLER TOP DESIGN CRITERIA		(Blue) 6-groove 5-degrees Large Droplets
Nozzle sizes		
Minimum		#6 3/32" (2.38 mm)
Maximum*		#26 13/32" (10.32 mm)
Flows		
Minimum		0.80 gpm (182 L/hr)
Maximum		14.98 gpm (3402 L/hr)
Diameters		
Minimum at 12 ft. (3.66 m)		44 ft (13.4 m)
Maximum at 12 ft. (3.66 m)		51 ft (15.5 m)
Maximum Spacing**		
at 12 ft (3.66 m) ground clearance		20 ft (6.1 m)
Pressure at the Nozzle		10 psi (0.69 bar)

\* It is recommended that larger nozzle sizes be used only on soils that can handle higher application rates.

# ATLANTIS

CENTER PIVOT & LINEAR SYSTEMS



**COUNT ON IT**

## Pivot Master® | IMPACT SPRINKLER







Senninger's Pivot Master impact sprinklers distribute water in a low 6° trajectory and are designed to resist wind-drift. Their large diameter of throw means fewer sprinklers are needed.



### FEATURES

- Color-coded band identifies each model based on flow (see chart below)
- Durable design with an enclosed splasharm spring and bearing for protection from the elements
- 3/4" NPT brass connection for use in galvanized steel fittings
- Hand Tight Nozzles eliminate the need for tools during renozzling; simply place and twist to install. Nozzles sizes are easily identified with color-coding. Warranted to maintain their correct orifice size for five years



PIVOT MASTER IMPACT DESIGN CRITERIA	 3006 - Orange	 4006 - White	 5006 - Blue	 5006-2 - Blue
<b>Nozzle sizes</b>				
Minimum	#7 7/64" (2.78 mm)	#10 5/32" (3.97 mm)	#13 13/64" (5.16 mm)	#13 x 12 13/64" x 3/16" (5.16 x 4.76 mm)
Maximum*	#9 9/64" (3.57 mm)	#12 3/16" (4.76 mm)	#18 9/32" (7.14 mm)	#18 x 18 9/32" x 9/32" (7.14 x 7.14mm)
<b>Flows</b>				
Minimum	1.87 gpm (425 L/hr)	3.80 gpm (863 L/hr)	6.20 gpm (1408 L/hr)	11.34 gpm (2576 L/hr)
Maximum	4.35 gpm (988 L/hr)	7.70 gpm (1749 L/hr)	16.0 gpm (3634 L/hr)	36.0 gpm (8177 L/hr)
<b>Diameters</b>				
Minimum at 12 ft (3.66 m)	73 ft (22.3 m)	80 ft (24.4 m)	84 ft (25.6 m)	84 ft (25.6 m)
Maximum at 12 ft (3.66 m)	87 ft (26.5 m)	93 ft (28.3 m)	105 ft (32.0 m)	105 ft (32.0 m)
<b>Pressure at the Nozzle</b>				
Minimum	30 psi (2.07 bar)	30 psi (2.07 bar)	30 psi (2.07 bar)	30 psi (2.07 bar)
Maximum	60 psi (4.14 bar)	60 psi (4.14 bar)	60 psi (4.14 bar)	60 psi (4.14 bar)

\*It is recommended that larger nozzle sizes be used only on soils that can handle higher application rates. Larger flow models available. Square-orifice nozzles not recommended.

# ATLANTIS

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**Senninger®**

**LEPA & CLOSE SPACING**



Close Spacing is a water-efficient irrigation practice featuring low-pressure LEPA bubblers.

## **LDN UP3 BUBBLER ASSEMBLY**

The bubbler side of the deflector pad gently deposits water onto the soil surface in a bubbling stream. This aerated cascading stream resists the effects of wind and evaporation. It can also be used to prevent wetting row crop foliage.

## **LDN LEPA SHROUD WITH BUBBLE INSERTS**

The Shroud is used in conjunction with deflector pads containing an insert. Growers can choose either the beige bubble pad insert or the red CM1 pad insert opposite a variety of deflectors based on their soil type and crop. The Shroud deflects the water from the bubbler insert down in a gentle dome-shaped pattern providing complete coverage of the field. Due to its less concentrated distribution pattern, the LDN Shroud can be used on fields without furrows and is often used for germination as well as irrigation.

## **FEATURES**

- Prevent wind-drift losses
- Minimize evaporative loss
- Avoid wetting plant canopy in row crops
- Achieve a more uniform root zone coverage
- Can increase yield using less water



# ATLANTIS

CENTER PIVOT & LINEAR SYSTEMS

**Senninger®**

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## LEPA & CLOSE SPACING



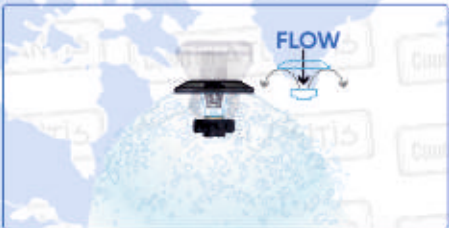
LDN with Shroud and beige bubble insert



LDN with Shroud and red CM1 insert



LDN with UP3 Bubbler Pad Assembly



### LDN LEPA PAD ASSEMBLY OPTIONS



### LDN PAD WITH BUBBLE INSERTS (Shroud required)



### LDN BUBBLER PAD ASSEMBLIES (Shroud not required)



Small 12-grooved pads available (Used with UP3 Nozzles #2, #2.5, #3, #3.5, #4, #4.5).  
120-Mesh Filtration Recommended.

### Bubble Recommendations

Flow: 0.27 to 18.35 gpm (61 to 4168 L/hr)  
Pressure: 6 to 15 psi (0.41 to 1.03 bar)  
#4 - 26 Nozzles

### EASY CONVERSION TO SPRAY IRRIGATION

For spray irrigation with either the LDN Bubbler Assembly or the LDN with the Shroud, simply twist and flip the deflector.

Growers use this mode for germination. Deflectors are available with different trajectories - blue (concave) for a slightly upward spray, black (flat), green (convex) for a slightly downward spray, and white for a higher spray. They are available with different surfaces -grooved or smooth.

### FOR OPTIMUM RESULTS, INCORPORATE:

Ball Valve - for easy water shut-off when converting between spray, LEPA and chemigation mode.

\*Ball Valve requires F x M adapter when installed over a weight.



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## LDN® SINGLE

The Senninger LDN (Low Drift Nozzle) was the first spray nozzle providing the option to stack multiple deflector-pads. This widens the wetted footprint of larger flows and produces more uniform droplets that helps match the soil's infiltration rate to reduce run-off.



### LDN SINGLE PAD

Single Pad Trajectories:



CONCAVE  
(blue)

FLAT  
(black)

CONVEX  
(green)

## EASY CONVERSION TO AND FROM SPRAY IRRIGATION

For spray irrigation with either the LDN Bubbler Assembly or the LDN with the Shroud, simply twist and unlock the deflector pad. Flip it over and twist to lock it back in place.

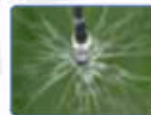
The LDN is incredibly versatile thanks to its various deflector pad options. The surfaces of the deflector pads (smooth, grooved, medium groove, or deep groove) each deliver a different spray pattern and droplet size. Each surface is also available in three basic geometries based on the desired trajectory of throw – flat (black), concave (blue) for a slightly upward spray, and convex (green) for a slightly downward spray.



**SMOOTH**  
Fine Droplets  
Tighter Soils  
Nozzles #2 - 26



**MEDIUM**  
12 GROOVE  
Medium Droplets  
Medium Soils  
Nozzles #2 - 9



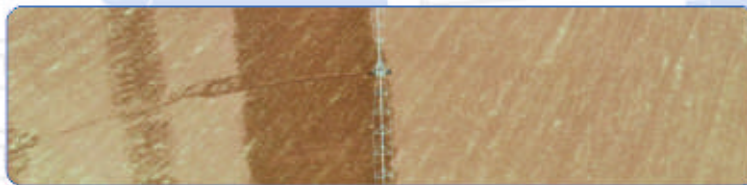
**33 GROOVE**  
Medium Droplets  
Medium Soils  
Nozzles #4 - 26



**24 DEEP GROOVE**  
Larger Droplets  
Looser Soils  
Nozzles #4 - #26

## CHEMIGATION CONVERSION

The LDN offers chemigation pad inserts for corn or cotton. These are designed to produce an upward spray under the crop canopy to wash the underside of the leaves, where pests might hide. To change from irrigation to chemigation mode, simply twist and unlock the deflector pad. Flip it over and twist to lock it back in place. Any LDN Pad can be backed with a corn chemigation pad or a cotton chemigation pad insert.



LDN DESIGN CRITERIA	Single Mini Pad 12 groove	Single Pad 24 Deep Groove	Single Pad 33 Groove
<b>Nozzle sizes</b>			
Minimum	#4 1/16" (1.59 mm)	#4 1/16" (1.59 mm)	#10 5/32" (3.97 mm)
Maximum*	#9 9/64" (3.57 mm)	#26 13/32" (10.32 mm)	#26 13/32" (10.32 mm)
<b>Flows</b>			
Minimum	0.27 gpm (61 L/hr)	0.27 gpm (61 L/hr)	1.74 gpm (395 L/hr)
Maximum	2.56 gpm (581 L/hr)	21.18 gpm (4811 L/hr)	21.18 gpm (4811 L/hr)
<b>Maximum Spacing at 6 ft (1.8 m) ground clearance</b>			
	10 ft (3.0 m)	10 ft (3.0 m)	10 ft (3.0 m)
<b>Pressure at the Nozzle</b>			
Minimum	6 psi (0.41 bar)	6 psi (0.41 bar)	6 psi (0.41 bar)
Maximum	20 psi (1.38 bar)	20 psi (1.38 bar)	20 psi (1.38 bar)

**Corn Chemigation Pad Inserts:**  
58° upward throw

CM-1 Insert    CM-2 Insert

**Cotton Chemigation Pad and Pad Inserts:**  
15 - 30° upward throw

Cotton Pad    CT-5 Insert



**COUNT ON IT**

## LDN® PART-CIRCLE



The Senninger Part-Circle LDN is specifically designed to distribute water away from wheel tracks to minimize tracking.

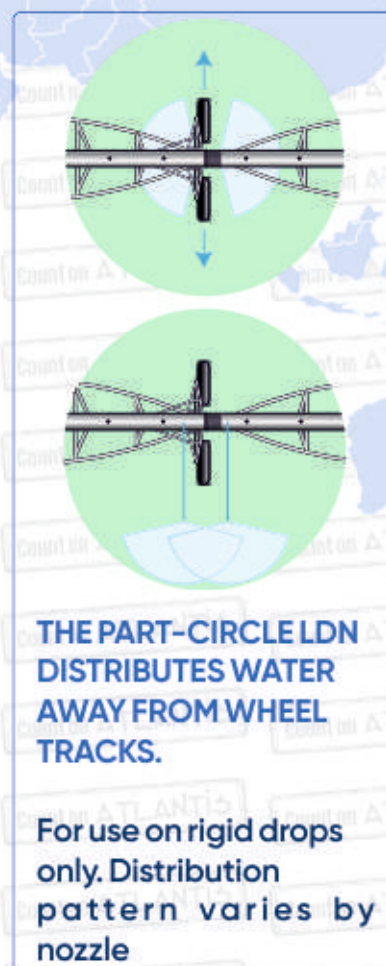
### FEATURES

- Can be used in conjunction with standard full circle LDNs or other Senninger sprinklers on the remainder of a pivot.
- Distributes water in a 170° pattern with 17 streams at a 10° trajectory for minimum evaporative loss.
- Integrated base allows the applicator to be installed directly into a pressure regulator or onto a standard 3/4" NPT female connection with no special threads or fittings required.
- Maximum radius of throw- up to 29 ft (8.8 m)
- UP3 snap-in nozzle is easy to remove for cleaning or changing. To remove the nozzle simply pinch and pull, then place and click to install.



LDN PART-CIRCLE DESIGN CRITERIA	Part-Circle
<b>Nozzle sizes</b>	
Minimum	#6 3/32" (2.38 mm)
Maximum*	#18 9/32" (7.14 mm)
<b>Flows</b>	
Minimum	0.62 gpm (141 L/hr)
Maximum	10.35 gpm (2351 L/hr)
<b>Radius</b>	
Minimum at 3 ft (0.91 m)	9 ft (2.7 m)
Maximum at 3 ft (0.91 m)	25 ft (7.6 m)
Minimum at 6 ft (1.83 m)	11 ft (3.4 m)
Maximum at 6 ft (1.83 m)	28 ft (8.5 m)
Minimum at 9 ft (2.74 m)	13.5 ft (4.1 m)
Maximum at 9 ft (2.74 m)	29 ft (8.8 m)
<b>Pressure at the Nozzle</b>	
Minimum	6 psi (0.41 bar)
Maximum	15 psi (1.03 bar)

\*It is recommended that larger nozzle sizes be used only on soils that can handle higher application rates.



# ATLANTIS

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**Senninger®**

**SUPER SPRAY®**



The Senninger Super Spray has interchangeable deflector pad options to meet various droplet size, crop, climatic, and soil requirements. Its design makes it ideal for surface water due to the distance between the nozzle, deflector and bracket legs.

## FEATURES

- Twenty-two versatile, easily changeable snap-in pads are available
- No moving parts for longer product life
- Can be mounted on top-of-pipe or on hose drops
- UP3 snap-in nozzle is easy to remove for cleaning or changing. To remove the nozzle simply pinch and pull, then place and click to install.



Use the Magnum Weight or The One Weight on flexible hose installations.



### DRAG HOSE ADAPTER

You can apply water directly into the furrow with the Super Spray drag hose adapter and a drag line. The adapter snaps right into the Super Spray, replacing the deflector pad.

SUPER SPRAY DESIGN CRITERIA	Flat, Concave, Convex (black, blue, green)	Mini Smooth (black, blue, green)	Corn Chemigation (red) Cotton Chemigation (white)	Mini Corn Chemigation (red) Mini Cotton Chemigation (white)
<b>Nozzle sizes</b>				
Minimum	#4 1/16" (1.59 mm)	#4 1/16" (1.59 mm)	#10 5/32" (3.97 mm)	#4 1/16" (1.59 mm)
Maximum*	#26 13/32" (10.32 mm)	#9.5 19/128" (3.76 mm)	#26 13/32" (10.32 mm)	#9.5 19/128" (3.76 mm)
<b>Flows</b>				
Minimum	0.27 gpm (61 L/hr)	0.27 gpm (61 L/hr)	1.74 gpm (395 L/hr)	0.27 gpm (61 L/hr)
Maximum	2996 gpm (6805 L/hr)	2.02 gpm (459 L/hr)	2996 gpm (6805 L/hr)	2.02 gpm (459 L/hr)
<b>Maximum Spacing</b>				
at 6 ft (1.8 m) ground clearance	10 ft (3.0 m)	10 ft (3.0 m)	10 ft (3.0 m)	10 ft (3.0 m)
at 9 ft (2.74 m) ground clearance	10 ft (3.0 m)	10 ft (3.0 m)	10 ft (3.0 m)	10 ft (3.0 m)
<b>Pressure at the Nozzle</b>				
Minimum	6 psi (0.41 bar)	6 psi (0.41 bar)	6 psi (0.41 bar)	6 psi (0.41 bar)
Maximum	40 psi (2.76 bar)	40 psi (2.76 bar)	40 psi (2.76 bar)	40 psi (2.76 bar)

\*It is recommended that larger nozzle sizes be used only on soils that can handle higher application rates.

# ATLANTIS

CENTER PIVOT & LINEAR SYSTEMS




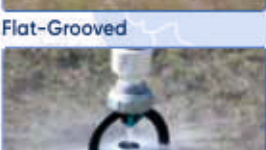

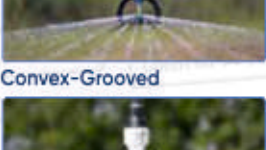
**Senninger®**

**COUNT ON IT**



## SUPER SPRAY®

Super Spray deflector pads are identified by their shape (flat, concave, or convex) and surface type (smooth, medium-grooved, or deep-grooved). The shape and surface help control spray pattern and droplet size. Chemigation pads are available in high profile (corn) and low profile (cotton) to reach the underside of foliage. These snap-in pads and UP3 nozzles can be easily changed during the season to fit varying field, flow, and growing conditions.



### DEFLECTOR PADS

CONCAVE	
	24 Deep-Groove
	36 Deep-Groove
	48 Deep-Groove
	36 Medium-Groove
	Smooth
	Mini Smooth



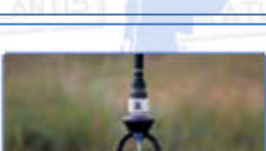
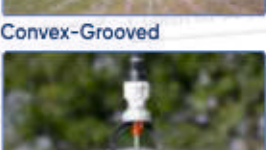
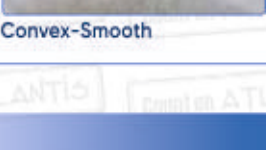

  

CORN CHEMIGATION	
	Corn Chemigation
	Mini Corn Chemigation


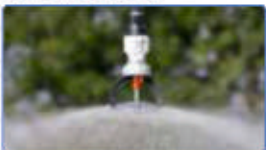


  


COTTON CHEMIGATION	
	Cotton Chemigation
	Mini Cotton Chemigation

FLAT	
	24 Deep-Groove
	36 Deep-Groove
	48 Deep-Groove
	36 Medium-Groove
	Smooth
	Mini Smooth

CONVEX	
	24 Deep-Groove
	36 Deep-Groove
	48 Deep-Groove
	36 Medium-Groove
	Smooth
	Mini Smooth

# ATLANTIS

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## Senninger®

### GOOSENECKS



Senninger goosenecks are constructed of noncorrosive, UV-resistant thermoplastic materials for long life. This reduces plugging from rust flaking sometimes associated with galvanized goosenecks.



180° Single

#### FEATURES

- Three models available: 180° single, 125° single, and 125° double
- Lightweight for easier handling and installation
- Lower freight costs
- Available with either a 3/4" hose or 3/4" NPT male threaded outlet connection or the 180° single is also available with 19mm barb outlet connection.

The Senninger line of 125° goosenecks and truss rod hose slings allow the conversion of wide-spaced machines to closer drop spacing and reduces or eliminates the need for adding extra outlets.

Use only with  
Truss Rod  
Hose Slings



125° Double



125° Single

#### Water Patterns



Conventional Applicators



Single 125° Goosenecks (with Truss Rod Hose Slings)



Double 125° Goosenecks (with Truss Rod Hose Slings)



#### GOOSENECK SYSTEM ASSEMBLY

- Max recommended pressure: 120 psi (8.27 bar).
- Max recommended flow: 20 gpm (4543 L/hr) or 15 gpm per side for the double model.
- Max recommended water temperature: 110°F (43°C).
- Ambient temperatures to 150° F (66° C) will not damage goosenecks.
- Attaches to mainline using galvanized nipple or Senninger's impactmodified thermoplastic nipple (PVC nipples not recommended)
- Wrench tighten using nipple hex until snug. Overtightening may cause issues.
- If using a sealant, use only Teflon tape.
- When using rigid drops in high profile crops, drop length should not exceed one foot below truss rod.

**Note:** Any modifications or deletions regarding installation requirements will void warranty.

Goosenecks shown are pre-assembled with Senninger's impactmodified thermoplastic nipple. Use of other plastic nipples is not recommended. Also available without nipple.

# ATLANTIS

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## TRUSS ROD HOSE SLINGS



Senninger's single and double 125° goosenecks used with truss rod hose slings provide easy positioning of drops along the span. They help lower application intensity by increasing the wetted area of coverage to promote better soil infiltration.

### FEATURES

- Easy to install
- Color coded models for various truss rod sizes: 5/8" (rust), 11/16" (green), 3/4" (black), 13/16" (grey), 7/8" (blue)
- Securely fastens 3/4" flexible hose to the truss rod to maintain the drop/sprinkler position and allows for easy adjustments
- Supports flexible hose to prevent kinking and abrasive wear
- Used in conjunction with the 125° model goosenecks
- Helps reduce pattern interruption from colliding streams



# ATLANTIS

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## PSR-2 | PRESSURE REGULATORS



The patented PSR-2 is ideal for systems pumping surface water.

Senninger introduced the first high quality in-line pressure regulator to the irrigation industry in 1966.

Senninger pressure regulators maintain a constant preset outlet pressure that can be matched to the applicator design, regardless of variations in inlet pressure. This helps maintain sprinkler pattern integrity and performance.

### FEATURES

- Flows: 0.5 to 15 gpm (114 to 3407 L/hr) allows the use of the same model along the entire machine.
- Each regulator maintains a constant preset outlet pressure based on its flow/inlet pressure.
- Outlet pressures: 6 to 50 psi (0.41 to 3.45 bar)
- Tamper-proof housing
- Very low hysteresis and friction losses
- 100% pressure tested, to ensure quality and performance

### APPLICATION INTENSITY

Uncontrolled pressure fluctuations in irrigation systems result in unwanted flow deviations and over and under-watering. These fluctuations occur with the cycling on/off of an end gun, activation of a corner arm, variations in field elevation or water supply. Proper use of pressure regulators helps maintain the overall efficiency of an irrigation system.

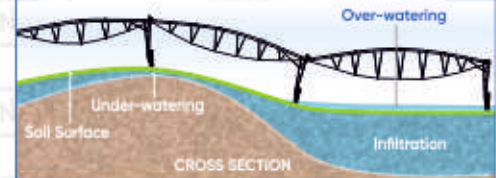
PSR-2 DESIGN CRITERIA	Preset Operating Pressure	Maximum Inlet Pressure	Flow Range
PSR-2-06	6 psi (0.41 bar)	80 psi (5.51 bar)	0.5 - 15 gpm 114 - 3407 L/hr
PSR-2-10	10 psi (0.69 bar)	90 psi (6.20 bar)	
PSR-2-12	12 psi (0.83 bar)	90 psi (6.20 bar)	
PSR-2-15	15 psi (1.03 bar)	95 psi (6.55 bar)	
PSR-2-20	20 psi (1.38 bar)	100 psi (6.89 bar)	
PSR-2-25	25 psi (1.72 bar)	105 psi (7.24 bar)	
PSR-2-30	30 psi (2.07 bar)	110 psi (7.58 bar)	
PSR-2-35	35 psi (2.41 bar)	115 psi (7.93 bar)	
PSR-2-40	40 psi (2.76 bar)	120 psi (8.27 bar)	
PSR-2-50	50 psi (3.45 bar)	130 psi (8.96 bar)	

The pressure regulator shall maintain the predetermined operating pressure provided that the inlet pressure is at least 5 psi (0.34 bar) above the expected outlet pressure, but not exceeding the maximum inlet pressure as shown above.

**CAUTION:** Always install downstream from all shut-off valves. Not

#### Without Pressure Regulators

Many irrigation systems have the potential to experience elevation and pressure changes, which cause flow fluctuations on unregulated systems.



#### With Pressure Regulators

Distribution remains uniform even as elevation changes.



## PSL / PMR | PRESSURE REGULATORS

PRL DESIGN CRITERIA	Preset Operating Pressure	Maximum Inlet Pressure	Flow Range
PRL06	6 psi (0.41 bar)	80 psi (5.51 bar)	0.5 – 5 gpm 114 – 1136 L/hr
PRL10	10 psi (0.69 bar)	90 psi (6.20 bar)	
PRL12	12 psi (0.83 bar)	90 psi (6.20 bar)	0.5 – 8 gpm 114 – 1817 L/hr
PRL15	15 psi (1.03 bar)	95 psi (6.55 bar)	
PRL20	20 psi (1.38 bar)	100 psi (6.89 bar)	
PRL25	25 psi (1.72 bar)	105 psi (7.24 bar)	
PRL30	30 psi (2.07 bar)	110 psi (7.58 bar)	
PRL35	35 psi (2.41 bar)	115 psi (7.93 bar)	
PRL40	40 psi (2.76 bar)	120 psi (8.27 bar)	



**PRL**  
**Low Flow**

### FEATURES

- Flows: 0.5 to 8.0 gpm (114 to 1817 L/hr) depending on model
- Each regulator maintains a constant preset outlet pressure based on its flow/inlet pressure.
- Outlet pressures: 6 to 40 psi (0.41 to 2.76 bar)
- Tamper-proof housing
- Very low hysteresis and friction losses
- 100% pressure tested, to ensure quality and performance

The pressure regulator shall maintain the predetermined operating pressure provided that the inlet pressure is at least 5 psi (0.34 bar) above the expected outlet pressure, but not exceeding the maximum inlet pressure as shown above.

**CAUTION:** Always install downstream from all shut-off valves.

Not NSF certified. Recommended for outdoor use only.



**PMR**  
**Medium Flow**

### FEATURES

Flows: 2.0 to 20 gpm (454 to 4542 L/hr) depending on model

- Each regulator maintains a constant preset outlet pressure based on its flow/inlet pressure.
- Outlet pressures: 6 to 60 psi (0.41 to 4.14 bar)
- Very low hysteresis and friction losses
- 100% pressure tested, to ensure quality and performance

PMR-MF DESIGN CRITERIA	Preset Operating Pressure	Maximum Inlet Pressure	Flow Range
PRL06 MF	6 psi (0.41 bar)	80 psi (5.51 bar)	4 – 16 gpm 909 – 3634 L/hr
PRL10 MF	10 psi (0.69 bar)	90 psi (6.20 bar)	
PRL12 MF	12 psi (0.83 bar)	90 psi (6.20 bar)	2 – 20 gpm 454 – 4542 L/hr
PRL15 MF	15 psi (1.03 bar)	95 psi (6.55 bar)	
PRL20 MF	20 psi (1.38 bar)	100 psi (6.89 bar)	
PRL25 MF	25 psi (1.72 bar)	105 psi (7.24 bar)	
PRL30 MF	30 psi (2.07 bar)	110 psi (7.58 bar)	
PRL35 MF	35 psi (2.41 bar)	115 psi (7.93 bar)	
PRL40 MF	40 psi (2.76 bar)	120 psi (8.27 bar)	
PRL50 MF	50 psi (3.45 bar)	130 psi (8.96 bar)	
PRL60 MF	60 psi (4.14 bar)	140 psi (9.65 bar)	

The pressure regulator shall maintain the predetermined operating pressure provided that the inlet pressure is at least 5 psi (0.34 bar) above the expected outlet pressure, but not exceeding the maximum inlet pressure as shown above.

**CAUTION:** Always install downstream from all shut-off valves. Not NSF certified. Recommended for outdoor use only.



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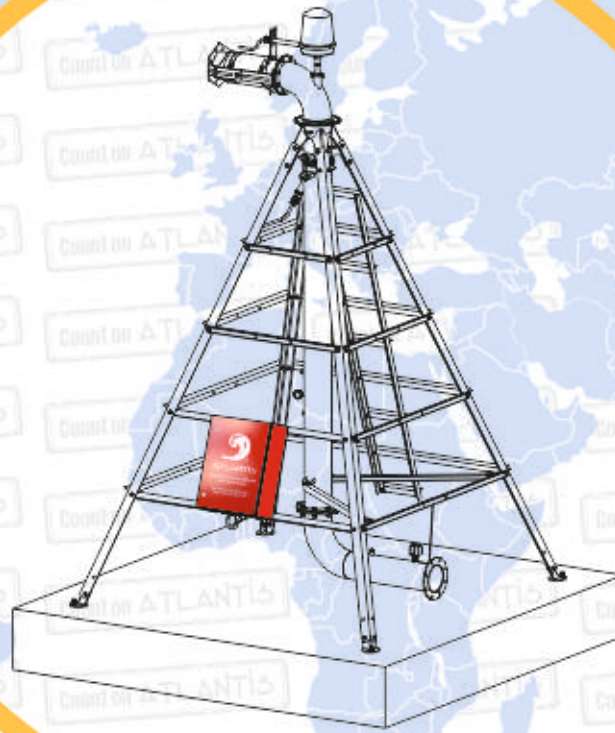
CENTER PIVOT & LINEAR SYSTEMS

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INNOVATIVE  
IRRIGATION

**BIG VOLUME END GUNS & NOZZLE & SPRINKLER**



*"We work with long-lasting brands for our customers"*



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# ATLANTIS

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komet

INNOVATIVE  
IRRIGATION

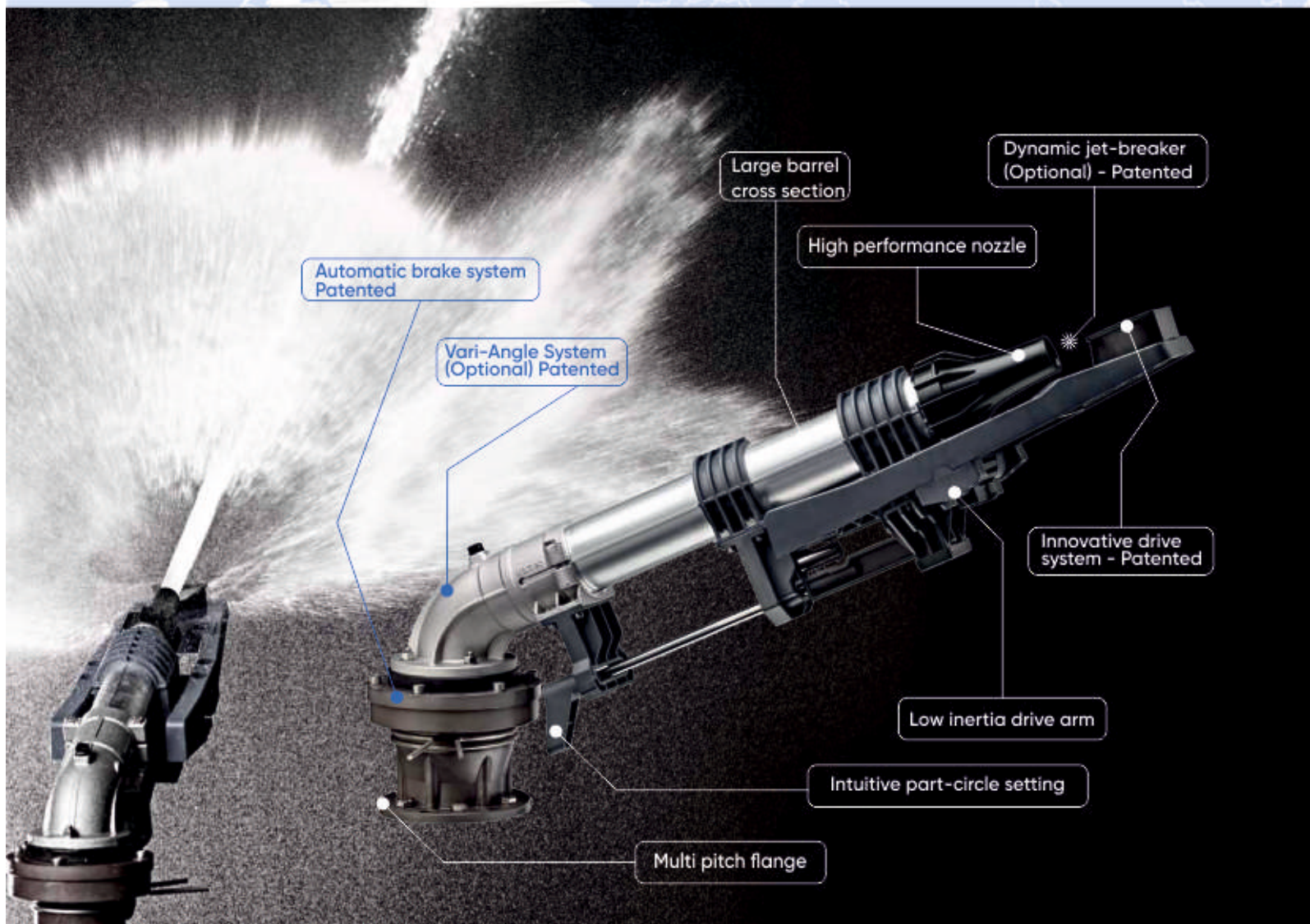
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## Twin Detail

While conceiving new products, we must make sure that they meet the values in which we strongly believe: quality, reliability and a solid advantage to the customer. The quality of a product is a reflection of what the people who create, manufacture and market it, stand for. This approach to our work is very important to us.

Reliability is achieved by using the most suitable and functional materials for the intended purpose as well as implementing the strictest quality controls in every step throughout the manufacturing process of our products. The advantage to the customer is found in our efforts to offer products of highest quality and reliability combined with innovative features that we implement in all of them.

The Komet Twin big volume sprinklers represent our capacity to integrate innovative technology, performance and reliability.



# ATLANTIS

CENTER PIVOT & LINEAR SYSTEMS

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komet

INNOVATIVE  
IRRIGATION

## Reliability

It is important that every irrigation system operates reliably in order to avoid yield losses, waste of energy with its associated costs but more than anything to optimize the soil potential. The gun not being continuously monitored, has to operate always at its best without the necessity of adjustments or maintenance.

### Komet Self Control

With changing operating conditions such as pressure and flow the gun self-adjusts all systems in order to allow always for an operation at best efficiency level.

### Komet Design

Reliability is a main concern when designing our products. Each component is developed with the utmost care and the materials are selected to satisfy the requirements of the intended application environment.

### Komet Quality

The precision tooling of every component, the strict quality control during every manufacturing step and the final water test of every single gun are our guarantee of a quality control at its best.

The barrel, made of marine grade aluminum, is designed to maximize throw and optimize distribution. The internal straightening vanes are the result of intense fluid dynamic studies.

The drive arm mechanism is made of technical polymers that ensure superior performance and excellent resistance to wear, superior to aluminum. The reduced weight of the parts allows for very good operation even at low pressures.

The Automatic Brake System is unique in its function due to the materials used. The internal parts are made of chemically treated stainless steel and inserted into an anodized aluminium housing to increase the resistance to corrosion and wear.

# ATLANTIS

CENTER PIVOT & LINEAR SYSTEMS



komet

INNOVATIVE IRRIGATION

COUNT ON IT

## Twin Max



Fixed Trajectory 18° / 12° / 24°



Large barrel cross section



12 Nozzles  $\varnothing 10 - 24 \text{ mm} / 0.39'' - 0.94''$



Dynamic Jet-Breaker (Optional)



Part and full circle model



Thread 2" FBSP or FNPT



571mm  
Dimensions 24°

## Available Models



PIVOT 18°



PIVOT 12°



24°

P.S. The performance data were obtained under ideal testing conditions and may be adversely affected by wind and other factors. Pressure refers to pressure at nozzle. A lowered trajectory angle improves the irrigation efficiency in windy conditions. For every 3° drop of the trajectory angle the throw is reduced by approx. 3 to 4%.



# ATLANTIS

CENTER PIVOT & LINEAR SYSTEMS

**COUNT ON IT**



**komet**

INNOVATIVE IRRIGATION

## Twin Max | Detail Table

Pressure bar	Nozzle 10mm - 0.39"		Nozzle 11mm - 0.43"		Nozzle 12mm - 0.47"		Nozzle 13mm - 0.51"	
	Flow m <sup>3</sup> /h	Radius m	Flow m <sup>3</sup> /h	Radius m	Flow m <sup>3</sup> /h	Radius m	Flow m <sup>3</sup> /h	Radius m
2,0	5,4	21,8	6,6	22,9	7,8	23,9	9,2	25,1
2,5	6,1	24,1	7,3	25,3	8,7	26,5	10,3	27,6
3,0	6,7	26,3	8,1	27,7	9,6	29,1	11,2	30,2
3,5	7,2	28,1	8,7	29,3	10,3	30,9	12,1	32,0
4,0	7,7	29,8	9,3	29,5	11,1	32,7	13,0	33,8
4,5	8,1	30,8	9,9	31,3	11,7	33,7	13,8	34,9
5,0	8,6	31,8	10,4	32,3	12,4	34,6	14,5	35,9
5,5	9,0	32,9	10,9	34,2	13,0	35,5	15,2	36,9
6,0	9,4	33,9	11,4	35,2	13,5	36,4	15,9	37,9
6,5	9,8	34,6	11,9	36,0	14,1	37,2	16,6	38,7

## Twin Max | High Performance Nozzle / Trajectory Angle

24°

Pressure bar	Nozzle 14mm - 0.55"		Nozzle 15mm - 0.59"		Nozzle 16mm - 0.63"		Nozzle 17mm - 0.67"		Nozzle 18mm - 0.71"		Nozzle 20mm - 0.79"		Nozzle 22mm - 0.87"		Nozzle 24mm - 0.94"	
	Flow m <sup>3</sup> /h	Radius m	Flow m <sup>3</sup> /h	Radius m	Flow m <sup>3</sup> /h	Radius m	Flow m <sup>3</sup> /h	Radius m	Flow m <sup>3</sup> /h	Radius m	Flow m <sup>3</sup> /h	Radius m	Flow m <sup>3</sup> /h	Radius m	Flow m <sup>3</sup> /h	Radius m
2,0	10,6	26,3	12,2	27,4	13,9	28,6	15,7	28,7	17,6	28,9	21,7	29,1	26,3	29,5	31,3	30,0
2,5	11,9	28,8	13,7	29,9	15,5	31,0	17,6	31,6	19,7	32,2	24,3	33,5	29,4	34,1	35,0	34,8
3,0	13,0	31,3	15,0	32,3	17,0	33,4	19,2	34,5	21,6	35,6	26,6	37,8	32,2	38,7	38,3	39,6
3,5	14,1	33,1	16,2	34,2	18,4	35,3	20,8	36,5	23,3	37,7	28,7	40,1	34,8	41,3	41,4	42,6
4,0	15,1	34,9	17,3	36,0	19,7	37,1	22,2	38,4	24,9	39,7	30,7	42,3	37,2	44,0	44,3	45,6
4,5	16,0	36,0	18,3	37,2	20,9	38,4	23,6	39,7	26,4	41,0	32,6	43,7	39,4	45,5	46,9	47,3
5,0	16,8	37,1	19,3	38,4	22,0	39,6	24,8	40,9	27,8	42,3	34,4	45,0	41,6	47,0	49,5	49,1
5,5	17,7	38,2	20,3	39,5	23,1	40,9	26,0	42,2	29,2	43,6	36,0	46,2	43,6	48,4	51,9	50,6
6,0	18,4	39,3	21,2	40,7	24,1	42,2	27,2	43,5	30,5	44,8	37,6	47,5	45,5	49,8	54,2	52,2
6,5	19,2	40,2	22,0	41,6	25,1	43,1	28,3	44,4	31,7	45,8	39,2	48,5	47,4	50,9	56,4	53,4



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## Twin 101 ULTRA

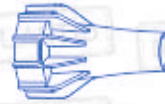


Fixed Trajectory 24° / 21° / 18°



Large barrel cross section

17 Nozzles  $\varnothing 12 - 28 \text{ mm} / 0.47'' - 1.10''$



Dynamic Jet-Breaker (Optional)

Part and full circle model



658mm

Dimensions 24°

Flange: External 168 mm (6 39/64"),  
6 holes 10.5 mm (13/32") on pitch circle  
130 mm (5 1/8") and 6 holes 10.5 mm  
(13/32") on pitch circle 146 mm (5 3/4")

## Available Models



24° / 21°

VARI ANGLE

PIVOT 18°

P.S. The performance data were obtained under ideal testing conditions and may be adversely affected by wind and other factors. Pressure refers to pressure at nozzle. A lowered trajectory angle improves the irrigation efficiency in windy conditions. For every 3° drop of the trajectory angle the throw is reduced by approx. 3 to 4%.



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## Twin 101 ULTRA | Detail Table

Pressure bar	Nozzle 12mm - 0.47"		Nozzle 14mm - 0.55"		Nozzle 16mm - 0.63"	
	Flow m <sup>3</sup> /h	Radius m	Flow m <sup>3</sup> /h	Radius m	Flow m <sup>3</sup> /h	Radius m
2,0	7,8	24,2	10,6	26,5	13,8	28,9
2,5	8,7	26,8	11,9	29,0	15,4	31,3
3,0	9,6	29,4	13,0	31,6	16,9	33,7
3,5	10,3	31,2	14,1	33,3	18,2	35,5
4,0	11,1	32,9	15,1	35,1	19,5	37,3
4,5	11,7	33,9	16,0	36,2	20,7	38,6
5,0	12,4	34,8	16,8	37,3	21,8	39,8
5,5	13,0	35,7	17,7	38,4	22,9	41,1
6,0	13,5	36,6	18,4	39,5	23,9	42,4
6,5	14,1	37,4	19,2	40,4	24,9	43,3
7,0	14,6	38,2	19,9	41,2	25,8	44,2

## Twin 101 ULTRA | High Performance Nozzle / Trajectory Angle 24°

Pressure bar	Nozzle 18mm - 0.71"		Nozzle 20mm - 0.79"		Nozzle 22mm - 0.87"		Nozzle 24mm - 0.94"		Nozzle 26mm - 1.02"		Nozzle 28mm - 1.10"	
	Flow m <sup>3</sup> /h	Radius m	Flow m <sup>3</sup> /h	Radius m	Flow m <sup>3</sup> /h	Radius m	Flow m <sup>3</sup> /h	Radius m	Flow m <sup>3</sup> /h	Radius m	Flow m <sup>3</sup> /h	Radius m
2,0	17,5	29,1	21,7	29,4	26,1	29,8	31,1	30,2	36,7	30,6	42,3	30,9
2,5	19,5	32,5	24,2	33,8	29,2	34,4	34,7	35,1	41,0	35,8	47,3	36,5
3,0	21,4	35,9	26,5	38,2	31,9	39,1	38,0	39,9	44,9	41,0	51,8	42,1
3,5	23,1	37,9	28,7	40,4	34,5	41,6	41,1	42,9	48,5	44,4	56,0	45,9
4,0	24,7	39,9	30,7	42,5	36,9	44,2	43,9	45,8	51,8	47,8	59,8	49,7
4,5	26,2	41,2	32,5	43,9	39,1	45,7	46,6	47,6	55,0	49,8	63,5	52,0
5,0	27,6	42,5	34,3	45,2	41,2	47,3	49,1	49,3	58,0	51,8	66,9	54,3
5,5	29,0	43,8	35,9	46,5	43,2	48,7	51,5	50,9	60,8	53,5	70,2	56,2
6,0	30,3	45,0	37,5	47,7	45,2	50,1	53,8	52,5	63,5	55,3	73,3	58,1
6,5	31,5	46,0	39,1	48,7	47,0	51,2	56,0	53,7	66,1	56,5	76,3	59,3
7,0	32,7	46,9	40,6	49,7	48,8	52,3	58,1	54,9	68,6	57,7	79,2	60,6



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## Twin Max

High Performance Nozzles

Trajectory Angle 24°

PSI	Nozzle 0,47"		Nozzle 0,47"		Nozzle 0,47"		Nozzle 0,47"		Nozzle 0,47"		Nozzle 0,47"		Nozzle 0,47"		Nozzle 0,47"		Nozzle 0,47"		Nozzle 0,47"		Nozzle 0,47"			
	GPM	DIA	GPM	DIA	GPM	DIA	GPM	DIA	GPM	DIA	GPM	DIA	GPM	DIA	GPM	DIA	GPM	DIA	GPM	DIA	GPM	DIA		
25	22	135'	27	140'	32	147'	38	154'	44	163'	50	171'	57	178'	64	180'	72	181'	89	184'	107	187'	128	190'
30	24	145'	29	152'	35	159'	41	167'	48	174'	55	182'	62	190'	70	191'	79	193'	97	196'	118	199'	140	201'
35	26	155'	32	163'	38	171'	44	179'	51	186'	59	193'	67	200'	76	205'	85	209'	105	217'	127	220'	151	224'
40	28	165'	34	174'	40	183'	47	190'	55	197'	63	204'	72	211'	81	218'	91	224'	112	237'	136	242'	162	246'
45	30	175'	36	184'	43	194'	50	201'	58	207'	67	214'	76	221'	86	229'	97	236'	119	251'	144	257'	172	263'
50	31	184'	38	194'	45	204'	53	211'	62	218'	71	225'	80	232'	91	240'	102	248'	126	264'	152	272'	181	280'
55	33	191'	40	201'	47	210'	56	217'	65	225'	74	232'	84	239'	95	247'	107	255'	132	272'	159	282'	190	292'
60	34	198'	42	207'	50	217'	58	224'	67	232'	77	239'	88	246'	99	255'	111	263'	138	281'	166	292'	198	303'
65	36	202'	43	212'	52	221'	61	229'	70	236'	81	244'	92	252'	103	260'	116	269'	143	286'	173	298'	206	311'
70	37	207'	45	216'	54	225'	63	233'	73	241'	84	249'	95	257'	107	266'	120	275'	149	292'	180	305'	214	318'
80	40	216'	48	225'	57	233'	67	242'	78	251'	89	260'	102	269'	115	277'	129	286'	159	304'	192	318'	229	333'
90	42	225'	51	233'	61	241'	71	251'	83	261'	95	270'	108	280'	122	288'	137	297'	169	315'	204	330'	243	346'
100	44	231'	54	240'	64	248'	75	258'	87	268'	100	278'	114	288'	128	296'	144	305'	178	323'	215	340'	256	357'
110	47	235'	56	245'	67	255'	79	265'	91	274'	105	284'	119	293'	135	303'	151	312'	186	330'	225	348'	268	366'

## Twin 101 ULTRA

High Performance Nozzles

Trajectory Angle 24°

PSI	Nozzle 0,47"		Nozzle 0,55"		Nozzle 0,63"		Nozzle 0,71"		Nozzle 0,79"		Nozzle 0,87"		Nozzle 0,94"		Nozzle 1,02"		Nozzle 1,10"	
	GPM	DIA	GPM	DIA	GPM	DIA	GPM	DIA	GPM	DIA	GPM	DIA	GPM	DIA	GPM	DIA	GPM	DIA
30	35	161'	48	176	62	192'	78	195'	97	198'	117	201'	139	203'	164	206'	189	208'
40	40	185'	55	200'	71	214'	90	227'	112	240'	135	244'	161	249'	190	254'	219	260'
50	45	205'	62	219'	80	233'	101	249'	125	266'	151	274'	180	282'	212	292'	245	302'
60	50	218'	67	233'	87	247'	111	265'	137	282'	165	293'	197	304'	232	318'	268	331'
70	54	226'	73	242'	94	258'	119	276'	148	294'	178	307'	212	320'	251	336'	289	352'
80	57	235'	78	252'	101	270'	128	288'	158	305'	191	320'	227	334'	268	352'	309	370'
90	61	243'	83	262'	107	281'	135	299'	168	316'	202	332'	241	348'	284	367'	328	385'
100	64	250'	87	269'	113	289'	143	307'	177	325'	213	342'	254	359'	300	377'	346	396'
110	67	256'	91	276'	118	295'	150	313'	186	332'	224	350'	266	368'	314	386'	363	404'

## Twin 140 ULTRA

High Performance Nozzles

Trajectory Angle 24°

PSI	Nozzle 0,63"		Nozzle 0,71"		Nozzle 0,79"		Nozzle 0,87"		Nozzle 0,94"		Nozzle 1,02"		Nozzle 1,10"		Nozzle 1,18"		Nozzle 1,26"		Nozzle 1,34"	
	GPM	DIA	GPM	DIA	GPM	DIA	GPM	DIA	GPM	DIA	GPM	DIA	GPM	DIA	GPM	DIA	GPM	DIA	GPM	DIA
30	62	192'	78	196'	97	199'	117	202'	139	204'	164	207'	189	209'	217	211'	249	213'	280	215'
40	71	215'	90	228'	112	241'	135	246'	161	250'	190	256'	219	261'	251	266'	288	270'	323	273'
50	80	234'	101	251'	125	267'	151	275'	180	284'	212	294'	245	304'	281	311'	322	318'	361	324'
60	87	248'	111	266'	137	283'	165	295'	197	306'	232	319'	268	333'	308	343'	353	354'	395	363'
70	94	260'	119	277'	148	295'	178	308'	212	321'	251	337'	289	353'	332	367'	381	381'	427	393'
80	101	271'	128	289'	158	307'	191	321'	227	336'	268	354'	309	372'	355	387'	407	402'	457	417'
90	107	282'	135	300'	168	318'	202	334'	241	350'	284	369'	328	387'	377	403'	432	419'	484	436'
100	113	290'	143	308'	177	326'	213	343'	254	360'	300	379'	346	398'	397	414'	455	430'	511	449'
110	118	296'	150	315'	186	334'	224	352'	266	369'	314	388'	363	406'	416	423'	478	439'	535	459'



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## Twin 160 ULTRA

High Performance Nozzles

Trajectory Angle **24°**

PSI	Nozzle 0,71"		Nozzle 0,79"		Nozzle 0,87"		Nozzle 0,94"		Nozzle 1,02"		Nozzle 1,10"		Nozzle 1,18"		Nozzle 1,26"		Nozzle 1,34"		Nozzle 1,42"		Nozzle 1,50"		Nozzle 1,57"	
	GPM	DIA	GPM	DIA	GPM	DIA	GPM	DIA	GPM	DIA	GPM	DIA	GPM	DIA	GPM	DIA	GPM	DIA	GPM	DIA	GPM	DIA	GPM	DIA
40	92	227'	113	240'	137	244'	163	248'	192	254'	222	259'	255	264'	292	268'	327	271'	366	274'	409	277'	450	280'
50	102	256'	127	273'	153	282'	182	290'	215	301'	248	311'	285	318'	326	325'	366	332'	409	338'	458	345'	503	350'
60	112	275'	139	293'	167	305'	199	316'	235	330'	272	344'	312	355'	357	366'	400	378'	449	386'	501	397'	551	403'
70	121	285'	150	303'	181	317'	215	330'	254	347'	294	363'	337	377'	386	391'	433	404'	484	417'	541	431'	595	438'
80	130	294'	160	312'	193	327'	230	341'	272	360'	314	378'	360	393'	412	409'	462	424'	518	439'	579	454'	636	464'
90	137	303'	170	321'	205	337'	244	353'	288	372'	333	391'	382	407'	437	423'	490	440'	549	456'	614	473'	675	484'
100	145	311'	179	330'	216	347'	257	364'	304	383'	351	402'	403	418'	461	434'	517	453'	579	472'	647	490'	711	502'
110	152	319'	188	338'	226	356'	270	374'	319	393'	368	412'	423	428'	484	445'	542	465'	607	485'	679	505'	746	519'
120	159	326'	196	346'	237	365'	281	384'	333	402'	384	420'	441	437'	505	453'	566	475'	634	495'	709	516'	779	533'
130	165	334'	204	354'	246	373'	293	393'	347	410'	400	428'	460	445'	526	461'	589	482'	660	503'	738	523'	811	540'

## Twin 202 ULTRA

High Performance Nozzles

Trajectory Angle **24°**

PSI	Nozzle 0,87"		Nozzle 0,94"		Nozzle 1,02"		Nozzle 1,10"		Nozzle 1,18"		Nozzle 1,26"		Nozzle 1,34"		Nozzle 1,42"		Nozzle 1,50"		Nozzle 1,57"		Nozzle 1,65"		Nozzle 1,73"		Nozzle 1,77"	
	GPM	DIA	GPM	DIA	GPM	DIA	GPM	DIA	GPM	DIA	GPM	DIA	GPM	DIA	GPM	DIA	GPM	DIA	GPM	DIA	GPM	DIA	GPM	DIA	GPM	DIA
40	137	247'	163	252'	192	257'	222	263'	255	267'	292	271'	327	274'	366	278'	409	281'	450	283'	496	285'	548	288'	573	290'
50	153	285'	182	294'	215	304'	248	315'	285	322'	326	330'	366	336'	409	343'	458	349'	503	354'	555	358'	613	363'	640	362'
60	167	307'	199	319'	235	333'	272	347'	312	358'	357	369'	400	379'	449	389'	501	400'	551	407'	608	415'	671	422'	701	424'
70	181	319'	215	332'	254	349'	294	365'	337	379'	386	393'	433	406'	484	420'	541	433'	595	443'	656	453'	725	464'	758	469'
80	193	328'	230	343'	272	361'	314	380'	360	395'	412	411'	462	428'	518	441'	579	456'	636	468'	702	481'	775	493'	810	499'
90	205	338'	244	355'	288	374'	333	393'	382	409'	437	425'	490	442'	549	459'	614	475'	675	489'	744	503'	822	517'	859	523'
100	216	349'	257	366'	304	385'	351	404'	403	420'	461	437'	517	456'	579	474'	647	493'	711	508'	784	523'	867	538'	905	546'
110	226	359'	270	377'	319	396'	368	415'	423	431'	484	448'	542	469'	607	489'	679	509'	746	524'	823	541'	909	557'	950	565'
120	237	369'	281	388'	333	407'	384	425'	441	442'	505	459'	566	480'	634	501'	709	522'	779	538'	859	555'	950	572'	992	581'
130	246	377'	293	397'	347	415'	400	433'	460	449'	526	466'	589	487'	660	508'	738	529'	811	546'	894	563'	988	581'	1032	590'

P.S. The performance data were obtained under ideal testing conditions and may be adversely affected by wind and other factors. Pressure refers to pressure at nozzle. A lowered trajectory angle improves the irrigation efficiency in windy conditions. For every 3° drop of the trajectory angle the throw is reduced by approx. 3 to 4%.



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## TWIN MAX



### TWIN MAX PIVOT 18°

- Fixed trajectory 18°
- 12 Performance taper bore nozzles  
Ø10 - 24 mm / 0.39" - 0.94"
- Part and full circle model
- 2" Thread



### TWIN MAX PIVOT 12°

- Fixed trajectory 18°
- 12 Performance taper bore nozzles  
Ø10 - 24 mm / 0.39" - 0.94"
- Part and full circle model
- 2" Thread



### TWIN MAX 24°

- Fixed trajectory 24°
- 12 Performance taper bore nozzles  
Ø10 - 24 mm / 0.39" - 0.94"
- Part and full circle model
- 2" Thread



## TWIN 101 ULTRA



### TWIN 101 ULTRA 24° - 21°

- Fixed trajectory 24° / 21°
- 17 Performance taper bore nozzles  
Ø12 - 28 mm / 0.47" - 1.10"
- Part and full circle model
- Flange
- 2" Thread



### TWIN 101 ULTRA PIVOT 18°

- Fixed trajectory 18°
- 17 Performance taper bore nozzles  
Ø12 - 28 mm / 0.47" - 1.10"
- Part and full circle model
- 2" Thread



### TWIN 101 ULTRA VARI ANGLE

- Adjustable trajectory 15° - 45°
- 17 Performance taper bore nozzles  
Ø12 - 28 mm / 0.47" - 1.10"
- Part and full circle model
- Flange
- 2" Thread



### TWIN 101 ULTRA FULL CIRCLE

- Fixed trajectory 24°
- 17 Performance taper bore nozzles  
Ø12 - 28 mm / 0.47" - 1.10"
- Part and full circle model
- Flange
- 2" Thread



## TWIN 104 ULTRA



### TWIN 104 ULTRA 24° - 21°

- Fixed trajectory 24° / 21°
- 19 Performance taper bore nozzles  
Ø16 - 34 mm / 0.63" - 1.34"
- Part and full circle model
- Flange



### TWIN 104 ULTRA VARI ANGLE

- Fixed trajectory 15° / 45°
- 19 Performance taper bore nozzles  
Ø16 - 34 mm / 0.63" - 1.34"
- Part and full circle model
- Flange



### TWIN 104 ULTRA INVERTER

- Fixed trajectory 24°
- 19 Performance taper bore nozzles  
Ø16 - 34 mm / 0.63" - 1.34"
- Part and full circle model
- Flange



## TWIN 160 ULTRA



### TWIN 160 ULTRA 24° - 21°

- Fixed trajectory 24° / 21°
- 23 Performance taper bore nozzles  
Ø18 - 40 mm / 0.71" - 1.57"
- Part and full circle model
- Flange



### TWIN 160 ULTRA FULL CIRCLE

- Fixed trajectory 24°
- 23 Performance taper bore nozzles  
Ø18 - 40 mm / 0.71" - 1.57"
- Part and full circle model
- Flange



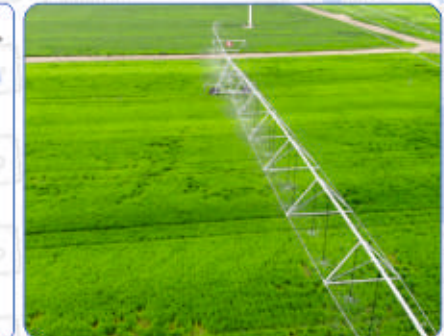
### TWIN 160 ULTRA VARI ANGLE

- Adjustable trajectory 15° - 45°
- 23 Performance taper bore nozzles  
Ø18 - 40 mm / 0.71" - 1.57"
- Part and full circle model
- Flange



### TWIN 160 ULTRA INVERTER

- Fixed trajectory 24°
- 23 Performance taper bore nozzles  
Ø18 - 40 mm / 0.71" - 1.57"
- Part and full circle model
- Flange



## TWIN 202 ULTRA



### TWIN 202 ULTRA 24°

- Fixed trajectory 24°
- 24 Performance taper bore nozzles  
Ø22 - 45 mm / 0.87" - 1.77"
- Part and full circle model
- Flange



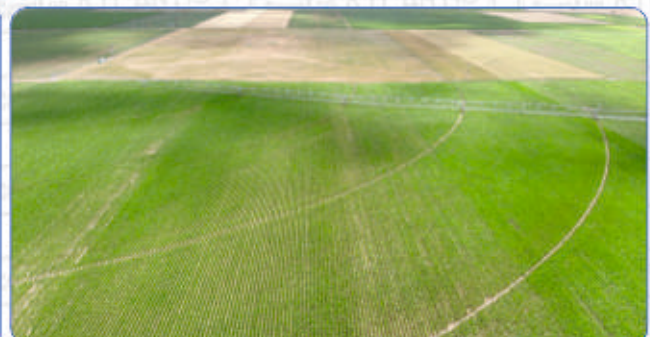
### TWIN 202 ULTRA VARI ANGLE

- Adjustable trajectory 15° - 45°
- 24 Performance taper bore nozzles  
Ø22 - 45 mm / 0.87" - 1.77"
- Part and full circle model
- Flange



### TWIN 202 ULTRA INVERTER

- Fixed trajectory 24°
- 24 Performance taper bore nozzles  
Ø22 - 45 mm / 0.87" - 1.77"
- Part and full circle model
- Flange



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## Pivot Sprinkler

The quality of a product is a direct reflection of the principles of the people who design, manufacture and market it. When developing new products, we at Komet must make sure that they live up to the values in which we strongly believe: quality, reliability and a solid advantage to the customer. These are the core values that all Komet products are built upon. By combining highly engineered materials and the strictest quality controls, we manufacture reliability into every product we make. Add to that the industry exclusive innovative features implemented into all of our products, and the advantages to our customers are obvious. The Komet Pivot Sprinkler Products represent the pinnacle of quality, innovative technology, performance and reliability.



Komet Rapid Fit Nozzle System



Truss Rod Clip (TRC)

Komet Precision Regulator (KPR)



Complete line of All-Flow Pressure Regulators

Komet Precision Spray (KPS)



Complete line of LESA/LEPA sprinkler devices

Komet Precision Twister (KPT)



Complete line of distribution devices for installation on drops and on top of pipe



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## Adaptability

It is fundamental that a pivot sprinkler adapts to different application conditions while maintaining excellent performance. The sprinkler must be able to cope with a wide range of environmental factors such as soil type, terrain, atmospheric conditions, water quality as well as different crops. For optimal irrigation the grower must have the ability to adapt to its prevailing factors.

## Komet Trajectory angles

Working closely with growers allowed us to identify and develop four different defl ectors to maximize the irrigation effi ciency for different application requirements. For use on drops: Standard angle suitable for most applications, low angle for applications in windy conditions or where higher ground clearance is required without water interfering with the pivot structure and ultra-low angle for extreme conditions such as high winds, high heat and/or low fl ow and where it is most important to get the water to the soil. For use on top of pipe: Low profile trajectory suitable for all applications when sprinkler installation on top of pipe is required.

Standard Trajectory Angle



For use on drops

Low Trajectory Angle



For use on drops

Ultra-Low Trajectory Angle



For use on drops

Low Profile Trajectory Angle



For use on top of pipe



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## Komet Rapid Fit Nozzle System

The Komet Rapid Fit Nozzle System allows for a fast and easy installation of the nozzle into the sprinkler. There is no need to remove the sprinkler from the drop assembly should the nozzle be plugged or in case it needs to be changed for different flow requirements. The nozzle can be removed for cleaning or replacing while the sprinkler is operating.



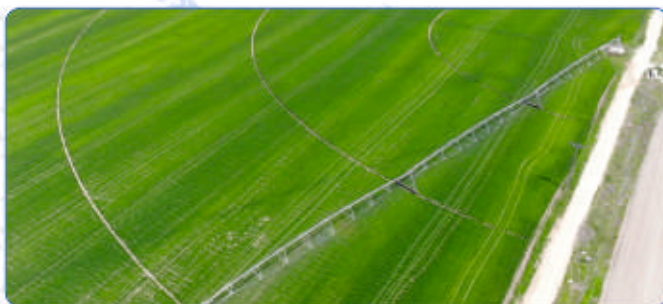
## Komet Rapid Fit Nozzle System

The Komet Precision Twister (KPT) comes with a 2nd nozzle carrier integrated into the sprinkler body. It is very useful should the irrigation require different flow rates during the irrigation season.



## Komet Truss Rod Clip

Lowering the application rate, can be a decisive advantage in irrigation. A suitable solution is to increase the wetted area by using drops over the truss rod, fixed with the Komet Truss Rod Clip. The design of the Komet Truss Rod Clip allows for an easy fixation on the truss rod while maintaining the natural shape of the hose. To facilitate selection, 4 models with two size combinations each are available, covering all common rod sizes.



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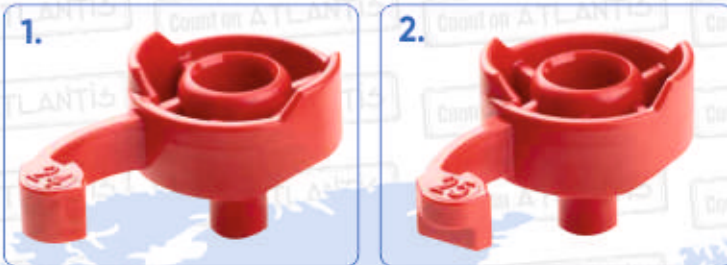


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## Rapid Fit Nozzle



## NOZZLE IDENTIFICATION

Nozzles are identified by the industry standard color code and orifice sizes are based on 128th inch increments.

1. All EVEN nozzle sizes have a full tip of the lever.
2. All ODD nozzle sizes have a notched tip of the lever.

Rapid Fit Nozzle		US UNITS (GPM)				METRIC UNITS (L/Hr)			
Nozzle size in 1/128" increments	COLOR	Pressure at nozzle				Pressure at nozzle			
		6 PSI	10 PSI	15 PSI	20 PSI	0,41 bar	0,69 bar	1,03 bar	1,38 bar
		Flow (GPM)				Flow (GPM)			
8	Light Blue	0.28	0.37	0.46	0.53	64,7	84,2	103,8	120,5
9	Light Blue	0.36	0.47	0.58	0.67	81,7	106,4	131,2	152,2
10	Beige	0.44	0.58	0.71	0.83	100,7	131,1	161,6	187,5
11	Beige	0.54	0.70	0.86	1.00	121,6	158,4	195,3	226,6
12	Gold	0.64	0.83	1.02	1.19	144,6	188,2	232,1	269,3
13	Gold	0.75	0.97	1.20	1.39	169,4	220,6	272,0	315,6
14	Lime	0.86	1.13	1.39	1.61	196,3	255,6	315,1	365,6
15	Lime	0.99	1.29	1.59	1.85	225,1	293,0	361,3	419,2
16	Lavender	1.13	1.47	1.81	2.10	255,8	333,1	410,7	476,5
17	Lavender	1.27	1.65	2.04	2.37	288,5	375,6	463,2	537,4
18	Grey	1.42	1.85	2.28	2.65	323,1	420,7	518,8	601,9
19	Grey	1.58	2.06	2.54	2.95	359,7	468,4	577,5	670,1
20	Turquoise	1.75	2.28	2.82	3.27	398,3	518,6	639,4	741,8
21	Turquoise	1.93	2.52	3.10	3.60	438,8	571,3	704,4	817,2
22	Yellow	2.12	2.76	3.40	3.95	481,2	626,5	772,5	896,3
23	Yellow	2.31	3.01	3.71	4.31	525,5	684,2	843,7	978,9
24	Red	2.52	3.28	4.04	4.69	571,8	744,5	918,0	1065,1
25	Red	2.73	3.55	4.38	5.09	620,1	807,3	995,5	1155,0
26	White	2.95	3.84	4.74	5.50	670,2	872,7	1076,0	1248,4
27	White	3.18	4.14	5.11	5.92	722,4	940,5	1159,7	1345,5
28	Blue	3.42	4.45	5.49	6.37	776,4	1010,9	1246,4	1446,2
29	Blue	3.66	4.77	5.88	6.83	832,4	1083,8	1336,3	1550,4
30	Dark Brown	3.92	5.10	6.29	7.30	890,3	1159,2	1429,3	1658,3
31	Dark Brown	4.18	5.45	6.72	7.79	950,1	1237,1	1525,3	1769,8
32	Orange	4.46	5.80	7.15	8.30	1011,9	1317,5	1624,5	1884,8
33	Orange	4.59	5.98	7.38	8.56	1043,5	1358,6	1675,3	1943,7
34	Dark Green	4.88	6.35	7.83	9.09	1108,2	1442,8	1779,1	2064,1
35	Dark Green	5.17	6.73	8.30	9.63	1174,8	1529,5	1886,0	2188,2
36	Purple	5.47	7.13	8.79	10.20	1243,3	1618,7	1996,0	2315,8
37	Purple	5.78	7.53	9.29	10.77	1313,7	1710,5	2109,1	2447,0
38	Black	6.10	7.95	9.80	11.37	1386,1	1804,7	2225,2	2581,8
39	Black	6.43	8.37	10.32	11.98	1460,4	1901,4	2344,5	2720,2
40	Dark Turquoise	6.77	8.81	10.86	12.60	1536,6	2000,6	2466,9	2862,1
41	Dark Turquoise	7.11	9.26	11.41	13.24	1614,7	2102,4	2592,3	3007,7
42	Mustard	7.46	9.72	11.98	13.90	1694,8	2206,6	2720,8	3156,8
43	Mustard	7.82	10.19	12.56	14.57	1776,8	2313,4	2852,4	3309,5
44	Maroon	8.19	10.67	13.15	15.26	1860,7	2422,6	2987,1	3465,8
45	Maroon	8.57	11.16	13.76	15.96	1946,5	2534,3	3124,9	3625,6
46	Cream	8.96	11.66	14.38	16.68	2034,2	2648,6	3265,8	3789,1
47	Cream	9.35	12.18	15.01	17.42	2123,9	2765,3	3409,7	3956,1
48	Dark Blue	9.75	12.70	15.66	18.17	2215,4	2884,5	3556,7	4126,6
49	Dark Blue	10.17	13.24	16.32	18.94	2308,9	3006,2	3706,8	4300,8
50	Copper	10.59	13.78	16.99	19.72	2404,3	3130,5	3860,0	4478,5
51	Copper	11.01	14.34	17.68	20.52	2501,7	3257,2	4016,2	4659,7
52	Gold	11.45	14.91	18.38	21.33	2600,9	3386,4	4175,5	4844,4

**Disclaimer:** This flow data was obtained under ideal testing conditions and may be affected by poor hydraulic flow conditions, turbulences and other conditions.

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INNOVATIVE IRRIGATION

## Precision Twister (KPT) Key Features

Integrated additional Nozzle Carrier

Integrated adapter

Komet Rapid Fit Nozzle System  
Nozzle range 10 - 52 / 128"

Plug resistant extra-wide body

Innovative automatic Motion Control System

Internal width  
3.00" / 76 mm

Internal height  
2.04" / 52 mm

Crop Guard

### Dimensions

Komet Twister Deflector System:  
standard/low/ultra-low trajectories

Innovative 3-D Motion System

Komet integrated weight  
0,75 lb / 350 gr

7.65" / 195 mm

4.65" / 118 mm





## Precision Twister (KPT) Available Models

### Precision Twister (KPT)



#### STANDARD TRAJECTORY ANGLE

Standard Angle with multi trajectory suitable for most applications. Unmatched droplet size consistency over the entire throw and nozzle range. Large wetted diameter and gentle water application with low instantaneous application.

### Precision Twister (KPT)



#### LOW TRAJECTORY ANGLE

Low Angle with multi trajectory suitable for applications in windy conditions. Unmatched droplet size consistency over the entire throw and nozzle range. Large wetted diameter with reduced wind drift.

### Precision Twister (KPT)



#### ULTRA-LOW TRAJECTORY ANGLE

Ultra-Low Angle with multi trajectory suitable for applications in high wind, high heat conditions and/or low flow. Unmatched droplet size consistency over the entire throw and nozzle range. Very little wind drift.

### Precision Twister (KPT-Peak)



#### LOW PROFILE TRAJECTORY FOR USE ON TOP OF PIPE

Low Profile Multi-Trajectory suitable for all on top of pipe applications with unmatched droplet size consistency. Large wetted diameter, gentle water application with low instantaneous application, and reduced wind drift. Komet KPT-Link connector required for installation.



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INNOVATIVE IRRIGATION

## Performance Data Metric Units



Performance data



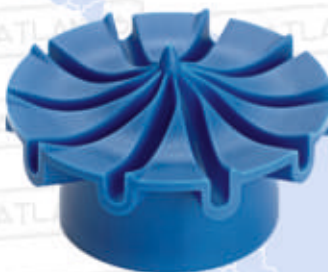
### Precision Twister (KPT)

### STANDARD TRAJECTORY ANGLE

Deflector Specifications		Operating Parameters				Installation
Trajectory	Grooves	Nozzle Range (mm)	Pressure Range (bar)	Flow Range (l/hr)	Spacing Max. (m)	Drop Type
Standard Angle	10	2,0 - 10,3	0,41 - 1,38	100,7 - 4844,4	6,1	Flex hose Poly Pipe

Nozzle Size		Throw Diameter												Stream Height S (m)			
		Installation Height H=0,9m				Installation Height H=1,8m				Installation Height H=2,7m				Pressure (bar)			
		Pressure (bar)		Pressure (bar)		Pressure (bar)		Pressure (bar)		Pressure (bar)		Pressure (bar)		Pressure (bar)			
mm	1/128"	0,41	0,69	1,03	1,38	0,41	0,69	1,03	1,38	0,41	0,69	1,03	1,38	0,41	0,69	1,03	1,38
2,0	10	8,2	10,2	11,8	12,8	10,0	12,0	13,6	14,6	11,3	13,2	14,9	15,9	0,55	0,79	0,87	1,13
3,2	16	9,5	11,5	13,2	14,1	11,3	13,3	15,0	15,9	12,6	14,6	16,3	17,2	0,65	0,85	0,91	1,15
4,6	23	10,6	12,6	14,3	15,3	12,4	14,4	16,1	17,1	13,7	15,7	17,4	18,3	0,69	0,85	1,00	1,21
5,8	29	11,2	13,2	14,9	15,8	13,0	15,0	16,7	17,6	14,3	16,3	18,0	18,9	0,70	0,87	1,10	1,25
6,7	34	11,5	13,4	15,1	16,1	13,3	15,2	16,9	17,9	14,5	16,5	18,2	19,2	0,70	0,87	1,17	1,25
7,9	40	11,4	13,4	15,1	16,0	13,2	15,2	16,9	17,8	14,5	16,5	18,2	19,1	0,70	0,90	1,17	1,25
8,9	45	11,1	13,1	14,8	15,8	12,9	14,9	16,6	17,6	14,2	16,2	17,9	18,8	0,70	0,92	1,17	1,25
10,3	52	10,3	12,3	14,0	15,0	12,1	14,1	15,8	16,8	13,4	15,4	17,1	18,0	0,70	0,92	1,17	1,25

Performance data



### Precision Twister (KPT)

### LOW TRAJECTORY ANGLE

Deflector Specifications		Operating Parameters				Installation
Trajectory	Grooves	Nozzle Range (mm)	Pressure Range (bar)	Flow Range (l/hr)	Spacing Max. (m)	Drop Type
Low Angle	10	2,0 - 10,3	0,41 - 1,38	100,7 - 4844,4	5,5	Flex Hose Poly Pipe

Nozzle Size		Throw Diameter												Stream Height S (m)			
		Installation Height H=0,9m				Installation Height H=1,8m				Installation Height H=2,7m				Pressure (bar)			
		Pressure (bar)		Pressure (bar)		Pressure (bar)		Pressure (bar)		Pressure (bar)		Pressure (bar)		Pressure (bar)			
mm	1/128"	0,41	0,69	1,03	1,38	0,41	0,69	1,03	1,38	0,41	0,69	1,03	1,38	0,41	0,69	1,03	1,38
2,0	10	7,4	9,4	11,0	11,9	9,5	11,4	13,1	14,0	11,0	12,9	14,6	15,5	0,32	0,46	0,63	0,70
3,2	16	8,6	10,6	12,2	13,1	10,7	12,6	14,3	15,2	12,2	14,1	15,8	16,7	0,32	0,47	0,64	0,70
4,6	23	9,6	11,5	13,2	14,1	11,7	13,6	15,2	16,1	13,2	15,1	16,7	17,6	0,33	0,48	0,65	0,72
5,8	29	10,1	12,0	13,7	14,5	12,1	14,1	15,7	16,6	13,6	15,6	17,2	18,1	0,33	0,48	0,65	0,72
6,7	34	10,2	12,2	13,8	14,7	12,3	14,2	15,9	16,7	13,8	15,7	17,4	18,2	0,33	0,48	0,65	0,75
7,9	40	10,1	12,0	13,7	14,5	12,1	14,1	15,7	16,6	13,6	15,6	17,2	18,1	0,33	0,50	0,65	0,75
8,9	45	9,7	11,7	13,3	14,2	11,8	13,7	15,4	16,2	13,3	15,2	16,9	17,7	0,32	0,50	0,65	0,75
10,3	52	8,8	10,8	12,4	13,3	10,9	12,8	14,5	15,4	12,4	14,3	16,0	16,9	0,32	0,50	0,65	0,75

For optimal performance of the Komet Precision Twister (KPT) when installed on drop pipes, it is recommended to use the maximum spacing up to the 2nd span only. Keep the Komet Precision Twister (KPT) out of the crop canopy when spacing exceeds 3 m. Install the Komet Precision Twister (KPT) with a ground clearance of at least 1 m. Performance data regarding flow and throw in relation to installation height and deflector type shown in the tables, originate from the mathematical model used in the Komet Pivot Calculator software. Performance data was obtained under ideal testing conditions and is the base for the mathematical model. Pressure refers to pressure at nozzle. Stream height is the height from the deflector to the highest droplets in the trajectory profile. Performance may be adversely affected by wind and other factors.

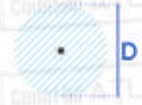


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## Performance Data Metric Units

Performance data



### Precision Twister (KPT)

### ULTRA-LOW TRAJECTORY ANGLE

Deflector Specifications		Operating Parameters				Installation
Trajectory	Grooves	Nozzle Range (mm)	Pressure Range (bar)	Flow Range (l/hr)	Spacing Max. (m)	Drop Type
Standard Angle	10	2,0 - 10,3	0,41 - 1,38	100,7 - 4844,4	4,6	Flex hose Poly Pipe

Nozzle Size		Throw Diameter												Stream Height S (m)			
		Installation Height H=0,9m				Installation Height H=1,8m				Installation Height H=2,7m				Pressure (bar)			
		Pressure (bar)		Pressure (bar)		Pressure (bar)		Pressure (bar)		Pressure (bar)		Pressure (bar)		Pressure (bar)			
mm	1/128"	0,41	0,69	1,03	1,38	0,41	0,69	1,03	1,38	0,41	0,69	1,03	1,38	0,41	0,69	1,03	1,38
2,0	10	6,4	8,2	9,7	10,7	9,0	10,8	12,4	13,3	10,7	12,5	14,1	15,1	0,12	0,16	0,26	0,27
3,2	16	7,5	9,3	10,9	11,8	10,1	11,9	13,5	14,4	11,8	13,6	15,2	16,2	0,11	0,17	0,19	0,25
4,6	23	8,3	10,2	11,7	12,7	11,0	12,8	14,4	15,3	12,7	14,5	16,1	17,1	0,11	0,17	0,19	0,31
5,8	29	8,8	10,6	12,2	13,1	11,4	13,2	14,8	15,7	13,1	15,0	16,5	17,5	0,11	0,17	0,20	0,33
6,7	34	8,9	10,7	12,3	13,2	11,5	13,3	14,9	15,8	13,2	15,1	16,6	17,6	0,11	0,17	0,20	0,37
7,9	40	8,7	10,5	12,1	13,0	11,3	13,1	14,7	15,7	13,1	14,9	16,5	17,4	0,11	0,17	0,20	0,37
8,9	45	8,3	10,1	11,7	12,7	10,9	12,7	14,3	15,3	12,7	14,5	16,1	17,0	0,11	0,19	0,21	0,37
10,3	52	7,4	9,2	10,8	11,7	10,0	11,8	13,4	14,4	11,8	13,6	15,2	16,1	0,11	0,19	0,21	0,37

Performance data



### Precision Twister (KPT)

### LOW PROFILE TRAJECTORY

Deflector Specifications		Operating Parameters				Installation
Trajectory	Grooves	Nozzle Range (mm)	Pressure Range (bar)	Flow Range (l/hr)	Spacing Max. (m)	Drop Type
Low Angle	10	2,0 - 10,3	0,41 - 1,38	100,7 - 4844,4	6,1	Flex Hose Poly Pipe

Nozzle Size		Throw Diameter								Stream Height S (m)			
		Installation Height H=0,9m				Installation Height H=1,8m				Pressure (bar)			
		Pressure (bar)		Pressure (bar)		Pressure (bar)		Pressure (bar)		Pressure (bar)		Pressure (bar)	
mm	1/128"	0,41	0,69	1,03	1,38	0,41	0,69	1,03	1,38	0,41	0,69	1,03	1,38
2,0	10	9,8	11,7	13,5	15,0	12,0	13,9	15,7	17,2				
3,2	16	10,2	12,1	14,0	15,4	12,4	14,2	16,2	17,6				
4,6	23	10,7	12,5	14,4	15,9	12,9	14,8	16,6	18,1				
5,8	29	11,0	12,8	14,7	16,2	13,2	15,1	17,0	18,4				
6,7	34	11,2	13,1	15,0	16,4	13,4	15,3	17,2	18,7				
7,9	40	11,5	13,3	15,2	16,7	13,7	15,6	17,4	18,9				
8,9	45	11,6	13,5	15,4	16,8	13,8	15,7	17,6	19,1				
10,3	52	11,8	13,7	15,5	17,0	14,0	15,9	17,7	19,2				

For optimal performance of the Komet Precision Twister (KPT) when installed on drop pipes, it is recommended to use the maximum spacing up to the 2nd span only. Keep the Komet Precision Twister (KPT) out of the crop canopy when spacing exceeds 3 m. Install the Komet Precision Twister (KPT) with a ground clearance of at least 1 m. Performance data regarding flow and throw in relation to installation height and deflector type shown in the tables, originate from the mathematical model used in the Komet Pivot Calculator software. Performance data was obtained under ideal testing conditions and is the base for the mathematical model. Pressure refers to pressure at nozzle. Stream height is the height from the deflector to the highest droplets in the trajectory profile. Performance may be adversely affected by wind and other factors.

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## Precision Spray (KPS) Key Features

Integrated additional Nozzle Carrier

Integrated adapter

Komet Rapid Fit Nozzle System  
Nozzle range 8 - 52 / 128"

Plug resistant extra-wide body

### Dimensions



3.00" / 76 mm

Komet integrated weight  
0,75 lb / 350 gr

Internal width  
1.97" / 50 mm

Internal height  
1.61" / 41 mm



## Komet Rapid Fit Deflector System



① Pull to remove the deflector

② Turn it over for the 57° upstream corn chemigation deflector or install an additional mini deflector

③ Re-insert deflector, push to install and click to secure





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## Performance Data Metric Units



Performance data



BLUE DEFLECTOR CC33

### Precision Spray (KPS) 360

Deflector Specifications				Operating Parameters				Installation
Trajectory	Grooves	Type	Coverage	Nozzle Range (mm)	Pressure Range (bar)	Flow Range (l/hr)	Spacing Max. (m)	Drop Type
Concave	33	Medium	360°	1,6 - 10,3	0,41-2,1	64,7-5973,5	3,4	All Types

Nozzle Size		Throw Diameter D (m)												Stream Height S (m)			
		Installation Height H=0,9m				Installation Height H=1,8m				Installation Height H=2,7m				Pressure (bar)			
		Pressure (bar)		Pressure (bar)		Pressure (bar)		Pressure (bar)		Pressure (bar)		Pressure (bar)		Pressure (bar)			
mm	1/128"	0,41	0,69	1,03	1,38	0,41	0,69	1,03	1,38	0,41	0,69	1,03	1,38	0,41	0,69	1,03	1,38
1,6	8	4,8	6,0	7,0	7,9	5,9	7,3	8,6	9,7	6,6	8,2	9,7	10,9	0,02	0,04	0,05	0,06
3,2	16	6,1	7,5	8,9	10,0	7,4	9,2	10,9	12,3	8,4	10,4	12,2	13,8	0,03	0,08	0,09	0,09
4,6	23	6,8	8,5	10,0	11,3	8,4	10,4	12,3	13,8	9,4	11,7	13,8	15,6	0,04	0,10	0,12	0,15
5,8	29	7,4	9,2	10,8	12,2	9,1	11,2	13,3	15,0	10,2	12,6	14,9	16,8	0,06	0,12	0,13	0,16
6,7	34	7,8	9,7	11,4	12,9	9,6	11,8	14,0	15,8	10,8	13,3	15,7	17,8	0,07	0,13	0,15	0,19
7,9	40	8,2	10,2	12,1	13,6	10,1	12,5	14,8	16,7	11,4	14,1	16,6	18,8	0,08	0,15	0,17	0,20
8,9	45	8,6	10,6	12,5	14,2	10,5	13,0	15,4	17,3	11,8	14,7	17,3	19,5	0,08	0,15	0,18	0,23
10,3	52	9,0	11,2	13,2	14,9	11,0	13,7	16,1	18,2	12,4	15,4	18,2	20,5	0,09	0,18	0,20	0,25

Performance data



BLACK DEFLECTOR FL33

### Precision Spray (KPS) 360

Deflector Specifications				Operating Parameters				Installation
Trajectory	Grooves	Type	Coverage	Nozzle Range (mm)	Pressure Range (bar)	Flow Range (l/hr)	Spacing Max. (m)	Drop Type
Concave	33	Medium	360°	1,6 - 10,3	0,41-2,1	64,7-5973,5	3,4	All Types

Nozzle Size		Throw Diameter D (m)												Stream Height S (m)			
		Installation Height H=0,9m				Installation Height H=1,8m				Installation Height H=2,7m				Pressure (bar)			
		Pressure (bar)		Pressure (bar)		Pressure (bar)		Pressure (bar)		Pressure (bar)		Pressure (bar)		Pressure (bar)			
mm	1/128"	0,41	0,69	1,03	1,38	0,41	0,69	1,03	1,38	0,41	0,69	1,03	1,38	0,41	0,69	1,03	1,38
1,6	8	5,3	6,5	7,7	8,6	6,6	8,2	9,6	10,8	7,6	9,3	10,9	12,3				
3,2	16	5,8	7,2	8,4	9,5	7,3	9,0	10,5	11,8	8,3	10,2	12,0	13,5				
4,6	23	6,5	8,1	9,5	10,6	8,2	10,1	11,8	13,3	9,3	11,5	13,5	15,2				
5,8	29	7,1	8,7	10,2	11,4	8,8	10,9	12,8	14,3	10,1	12,4	14,6	16,4				
6,7	34	7,4	9,1	10,7	12,1	9,3	11,4	13,4	15,1	10,6	13,1	15,3	17,2				
7,9	40	7,8	9,6	11,3	12,7	9,8	12,1	14,2	15,9	11,2	13,8	16,1	18,1				
8,9	45	8,1	10,0	11,7	13,2	10,2	12,5	14,7	16,5	11,6	14,3	16,8	18,8				
10,3	52	8,4	10,3	12,1	13,6	10,5	12,9	15,1	17,0	11,9	14,7	17,2	19,4				

FLAT

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INNOVATIVE IRRIGATION

## Performance Data Metric Units



Performance data



GREY DEFLECTOR FL24

### Precision Spray (KPS) 360

Deflector Specifications				Operating Parameters				Installation
Trajectory	Grooves	Type	Coverage	Nozzle Range (mm)	Pressure Range (bar)	Flow Range (l/hr)	Spacing Max. (m)	Drop Type
Concave	33	Medium	360°	1,6 - 10,3	0,41-2,1	64,7-5973,5	3,4	All Types

Nozzle Size		Throw Diameter D (m)												Stream Height S (m)			
		Installation Height H=0,9m				Installation Height H=1,8m				Installation Height H=2,7m				Pressure (bar)			
		Pressure (bar)		Pressure (bar)		Pressure (bar)		Pressure (bar)		Pressure (bar)		Pressure (bar)		Pressure (bar)			
mm	1/128"	0,41	0,69	1,03	1,38	0,41	0,69	1,03	1,38	0,41	0,69	1,03	1,38	0,41	0,69	1,03	1,38
1,6	8	5,2	6,5	7,7	8,8	6,7	8,4	9,9	11,2	7,7	9,7	11,5	13,0				
3,2	16	6,1	7,6	9,0	10,2	7,8	9,7	11,5	13,0	9,0	11,2	13,3	15,1				
4,6	23	6,6	8,2	9,7	11,0	8,4	10,5	12,4	14,1	9,7	12,1	14,4	16,3				
5,8	29	6,9	8,6	10,2	11,6	8,8	11,0	13,1	14,8	10,2	12,7	15,1	17,1				
6,7	34	7,1	8,9	10,6	12,0	9,1	11,4	13,5	15,3	10,6	13,2	15,6	17,7				
7,9	40	7,4	9,2	10,9	12,4	9,5	11,8	14,0	15,9	10,9	13,6	16,2	18,3				
8,9	45	7,6	9,5	11,2	12,7	9,7	12,1	14,4	16,3	11,2	14,0	16,6	18,8				
10,3	52	7,8	9,8	11,6	13,1	10,0	12,5	14,8	16,8	11,6	14,4	17,1	19,4				

FLAT

Performance data



YELLOW DEFLECTOR FL30

### Precision Spray (KPS) 360

Deflector Specifications				Operating Parameters				Installation
Trajectory	Grooves	Type	Coverage	Nozzle Range (mm)	Pressure Range (bar)	Flow Range (l/hr)	Spacing Max. (m)	Drop Type
Concave	33	Medium	360°	1,6 - 10,3	0,41-2,1	64,7-5973,5	3,4	All Types

Nozzle Size		Throw Diameter D (m)												Stream Height S (m)			
		Installation Height H=0,9m				Installation Height H=1,8m				Installation Height H=2,7m				Pressure (bar)			
		Pressure (bar)		Pressure (bar)		Pressure (bar)		Pressure (bar)		Pressure (bar)		Pressure (bar)		Pressure (bar)			
mm	1/128"	0,41	0,69	1,03	1,38	0,41	0,69	1,03	1,38	0,41	0,69	1,03	1,38	0,41	0,69	1,03	1,38
1,6	8	4,7	5,7	6,7	7,6	6,0	7,3	8,6	9,7	6,9	8,5	9,9	11,1				
3,2	16	5,6	6,9	8,1	9,1	7,1	8,8	10,3	11,6	8,2	10,1	11,9	13,4				
4,6	23	6,2	7,6	8,9	10,0	7,9	9,7	11,3	12,7	9,1	11,2	13,1	14,7				
5,8	29	6,5	8,0	9,4	10,6	8,3	10,3	12,0	13,5	9,6	11,9	13,9	15,6				
6,7	34	6,8	8,4	9,8	11,0	8,7	10,7	12,6	14,1	10,0	12,4	14,5	16,3				
7,9	40	7,1	8,7	10,3	11,5	9,1	11,2	13,1	14,7	10,5	12,9	15,1	17,0				
8,9	45	7,3	9,0	10,6	11,9	9,4	11,5	13,5	15,2	10,8	13,3	15,6	17,5				
10,3	52	7,6	9,4	11,0	12,3	9,7	12,0	14,0	15,8	11,2	13,8	16,2	18,2				

FLAT



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## Performance Data Metric Units

### Performance data



MINI BLACK DEFLECTOR FL24

### Precision Spray (KPS) 360

Deflector Specifications				Operating Parameters				Installation
Trajectory	Grooves	Type	Coverage	Nozzle Range (mm)	Pressure Range (bar)	Flow Range (l/hr)	Spacing Max. (m)	Drop Type
Concave	24	Medium	360°	1,6 - 3,6	0,41-2,1	64,7-742,2	3,4	All Types

Nozzle Size		Throw Diameter D (m)												Stream Height S (m)			
		Installation Height H=0,9m				Installation Height H=1,8m				Installation Height H=2,7m				Pressure (bar)			
		Pressure (bar)		Pressure (bar)		Pressure (bar)		Pressure (bar)		Pressure (bar)		Pressure (bar)		Pressure (bar)			
mm	1/128"	0,41	0,69	1,03	1,38	0,41	0,69	1,03	1,38	0,41	0,69	1,03	1,38	0,41	0,69	1,03	1,38
1,6	8	5,6	6,8	8,0	9,0	7,0	8,6	10,1	11,3	8,0	9,8	11,5	12,9	FLAT			
3,6	18	6,8	8,3	9,7	10,9	8,5	10,5	12,2	13,7	9,7	12,0	14,0	15,7				

### Performance data



MINI TURQUOISE DEFLECTOR FL

### Precision Spray (KPS) 360

Deflector Specifications				Operating Parameters				Installation
Trajectory	Grooves	Type	Coverage	Nozzle Range (mm)	Pressure Range (bar)	Flow Range (l/hr)	Spacing Max. (m)	Drop Type
Concave	0	sMOOTH	360°	1,6 - 10,3	0,41-2,1	64,7-5973,5	3,4	All Types

Nozzle Size		Throw Diameter D (m)												Stream Height S (m)			
		Installation Height H=0,9m				Installation Height H=1,8m				Installation Height H=2,7m				Pressure (bar)			
		Pressure (bar)		Pressure (bar)		Pressure (bar)		Pressure (bar)		Pressure (bar)		Pressure (bar)		Pressure (bar)			
mm	1/128"	0,41	0,69	1,03	1,38	0,41	0,69	1,03	1,38	0,41	0,69	1,03	1,38	0,41	0,69	1,03	1,38
1,6	8	4,4	4,7	5,0	5,2	5,3	5,8	6,1	6,4	6,0	6,5	6,9	7,2	FLAT			
3,2	16	5,3	5,7	6,1	6,3	6,5	7,0	7,4	7,7	7,3	7,9	8,3	8,7				
4,6	23	5,9	6,3	6,7	7,0	7,2	7,7	8,2	8,6	8,1	8,7	9,2	9,6				
5,8	29	6,3	6,8	7,2	7,5	7,7	8,3	8,8	9,1	8,6	9,3	9,9	10,3				
6,7	34	6,6	7,1	7,5	7,8	8,0	8,7	9,2	9,6	9,0	9,7	10,3	10,8				
7,9	40	6,9	7,4	7,8	8,2	8,4	9,1	9,6	10,0	9,5	10,2	10,8	11,3				
8,9	45	7,1	7,7	8,1	8,5	8,7	9,4	9,9	10,4	9,8	10,5	11,2	11,6				
10,3	52	7,4	8,0	8,5	8,8	9,0	9,8	10,3	10,8	10,2	11,0	11,6	12,1				

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## Performance Data Metric Units



BLUE DEFLECTOR CC15-PC180

Performance data



### Precision Spray (KPS) 360

Deflector Specifications				Operating Parameters				Installation
Trajectory	Grooves	Type	Coverage	Nozzle Range (mm)	Pressure Range (bar)	Flow Range (l/hr)	Spacing Max. (m)	Drop Type
Concave	15	Medium	180°	1,6 - 79	0,41-2,1	64,7-3529,1	3,4	Rigid Drops Only

Nozzle Size		Throw Diameter D (m)												Stream Height S (m)			
		Installation Height H=0,9m				Installation Height H=1,8m				Installation Height H=2,7m							
		Pressure (bar)		Pressure (bar)		Pressure (bar)		Pressure (bar)		Pressure (bar)		Pressure (bar)					
mm	1/128"	0,41	0,69	1,03	1,38	0,41	0,69	1,03	1,38	0,41	0,69	1,03	1,38	0,41	0,69	1,03	1,38
1,6	8	2,4	3,0	3,5	4,0	2,9	3,6	4,3	4,9	3,3	4,1	4,8	5,5	0,02	0,04	0,05	0,06
3,2	16	3,0	3,8	4,4	5,0	3,7	4,6	5,4	6,1	4,2	5,2	6,1	6,9	0,03	0,08	0,09	0,09
4,6	23	3,4	4,2	5,0	5,7	4,2	5,2	6,1	6,9	4,7	5,9	6,9	7,8	0,04	0,10	0,12	0,15
5,8	29	3,7	4,6	5,4	6,1	4,5	5,6	6,6	7,5	5,1	6,3	7,5	8,4	0,06	0,12	0,13	0,16
6,7	34	3,9	4,8	5,7	6,4	4,8	5,9	7,0	7,9	5,4	6,7	7,9	8,9	0,07	0,13	0,15	0,19
7,9	40	4,0	5,0	5,9	6,6	4,9	6,1	7,2	8,1	5,5	6,9	8,1	9,1	0,08	0,15	0,17	0,20

For optimal performance of the Komet Precision Spray (KPS) when installed on drop pipes, it is recommended to use the maximum spacing up to the 2nd span only. Keep the Komet Precision Spray (KPS) out of the crop canopy when spacing exceeds 3 m. Install the Komet Precision Spray (KPS) with a ground clearance of at least 1 m. Performance data regarding flow and throw in relation to installation height and deflector type shown in the tables, originate from the mathematical model used in the Komet Pivot Calculator software. Performance data was obtained under ideal testing conditions and is the base for the mathematical model. Pressure refers to pressure at nozzle. Stream height is the height from the deflector to the highest droplets in the trajectory profile. Performance may be adversely affected by wind and other factors.





## Performance Data Metric Units



### Performance data

#### Precision Spray (KPS) Dual



BLUE DEFLECTOR CC33

##### Deflector Specifications

##### Operating Parameters

##### Installation

Trajectory	Grooves	Type	Coverage	Nozzle Range (mm)	Pressure Range (bar)	Flow Range (l/hr)	Spacing Max. (m)	Drop Type
Concave	33	Medium	360°	1,6 - 5,8	0,41-2,1	64,7-1876,8	3,4	All Types

Nozzle Size		Throw Diameter D (m)								Stream Height S (m)			
		Installation Height H=0,9m				Installation Height H=1,8m				Pressure (bar)			
		mm	1/128"	0,41	0,69	1,03	1,38	0,41	0,69	1,03	1,38	0,41	0,69
1,6	8	4,8	6,0	7,0	7,9	5,9	7,3	8,6	9,7	0,02	0,04	0,05	0,06
3,2	16	6,1	7,5	8,9	10,0	7,4	9,2	10,9	12,3	0,03	0,08	0,09	0,09
4,6	23	6,8	8,5	10,0	11,3	8,4	10,4	12,3	13,8	0,04	0,10	0,12	0,15
5,8	29	7,4	9,2	10,8	12,2	9,1	11,2	13,3	15,0	0,06	0,12	0,13	0,16

### Performance data

#### Precision Spray (KPS) Dual



BLUE DEFLECTOR W/HOLE CC33

##### Deflector Specifications

##### Operating Parameters

##### Installation

Trajectory	Grooves	Type	Coverage	Nozzle Range (mm)	Pressure Range (bar)	Flow Range (l/hr)	Spacing Max. (m)	Drop Type
Flat	33	Medium	360°	6,0 - 10,3	0,41-2,1	890,3-5973,5	3,4	All Types

BLACK DEFLECTOR FL



Nozzle Size		Throw Diameter D (m)								Stream Height S (m)			
		Installation Height H=0,9m				Installation Height H=1,8m				Pressure (bar)			
		mm	1/128"	0,41	0,69	1,03	1,38	0,41	0,69	1,03	1,38	0,41	0,69
6,0	30	7,00	8,90	10,00	11,30	8,20	10,20	12,40	13,20	0,06	0,12	0,13	0,16
6,7	34	7,20	9,20	10,20	11,60	8,80	10,60	12,80	13,60	0,07	0,13	0,15	0,19
7,9	40	7,80	9,90	11,40	12,20	9,40	11,80	13,40	14,00	0,08	0,14	0,17	0,20
8,9	45	8,40	10,70	12,10	13,50	10,00	12,20	14,00	15,20	0,08	0,15	0,18	0,23
10,3	52	8,90	11,80	12,50	14,00	11,00	12,80	14,20	15,60	0,09	0,18	0,20	0,25



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## Performance Data Metric Units



### Precision Spray (KPS) Vertical Bubbler

Deflector Specifications		Operating Parameters				Installation	
Trajectory	Coverage	Nozzle Range (mm)	Pressure Range (bar)	Flow Range (l/hr)	Spacing Max. (m)	Installation Height / (m)	Drop Type
Vertical	Localized	1,6 - 8,9	0,41-2,1	64,7-4419,2	0,7 - 1,5	0,2 - 0,45	All Types

### Precision Spray (KPS) Wide Bubbler 60"

Deflector Specifications		Operating Parameters				Installation	
Trajectory	Coverage	Nozzle Range (mm)	Pressure Range (bar)	Flow Range (l/hr)	Spacing Max. (m)	Installation Height / (m)	Drop Type
Vertical	Localized	1,6 - 8,9	0,41-2,1	64,7-4419,2	0,7 - 1,5 Furrow Dependent	0,2 - 0,45	All Types



BROWN DEFLECTOR W860

Nozzle Size		Throw Diameter D (m)											
		Installation Height H=0,45m				Installation Height H=0,6m				Installation Height H=0,75m			
		Pressure (bar)				Pressure (bar)				Pressure (bar)			
mm	1/128"	0,41	0,69	1,03	1,38	0,41	0,69	1,03	1,38	0,41	0,69	1,03	1,38
1,8	9	1,00	1,30	1,80	1,90	1,10	1,45	2,00	2,15	1,20	1,60	2,20	2,40
2,0	10	1,40	1,50	1,90	2,00	1,45	1,75	2,15	2,30	1,50	2,00	2,40	2,60
2,2	11	1,50	1,60	2,00	2,20	1,60	1,85	2,25	2,45	1,70	2,10	2,50	2,70
2,4	12	1,60	1,80	2,20	2,30	1,75	2,00	2,40	2,55	1,90	2,20	2,60	2,80
2,8	14	1,80	1,90	2,30	2,50	1,90	2,20	2,60	2,80	2,00	2,50	2,90	3,10
3,6	18	2,00	2,10	2,40	2,70	2,20	2,45	2,80	3,10	2,40	2,80	3,20	3,50
4,4	22	2,20	2,40	2,50	2,80	2,40	2,75	3,05	3,25	2,60	3,10	3,60	3,70
5,2	26	2,30	2,50	2,70	3,20	2,65	3,05	3,25	3,55	3,00	3,60	3,80	3,90
6,0	30	2,50	2,70	3,00	3,40	2,85	3,25	3,50	3,75	3,20	3,80	4,00	4,10

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## Precision Regulator (KPR)

Available Models / 6 PSI / 10 PSI / 15 PSI / 20 PSI

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### Key features

Unique offset design

All Flow Pivot Regulator  
Suitable for flow of  
nozzle sizes 8 - 52/128"

Precision  
manufacturing

Technical  
polymers  
shock  
absorbing,  
UV protected,  
hard wearing

Laser  
markings  
for long  
lasting  
identification

Very low friction loss

Very low hysteresis

### Dimensions



### Unique Offset Inlet Design

The All-Flow Komet Precision Regulator (KPR) has a unique offset inlet. In conjunction with the stem seat, the offset inlet contributes to a cyclonic flow path, which helps to reduce plugging. Furthermore the steep incline of the regulator's integrated stem seat on the inlet side reduces friction losses to a minimum and helps reduce the hanging up of stringy debris.

### Hysteresis

Very low hysteresis due to the internal configuration of the regulator and the tribological properties of the interacting surfaces in relative motion. Very suitable for corner and VRI systems.

### Materials

The regulator materials and design have been chosen to withstand the harsh operating and climatic conditions this device is used in. The technical polymers used are shock absorbing, UV protected and hard wearing.

### Precision Manufacturing

All components of the Komet Precision Regulator (KPR) are precision made and carefully controlled throughout the fully automated manufacturing process. Each critical component is 100% individually tested for conformity to specification prior to be installed. The very tight manufacturing tolerances allow for excellent irrigation performance.

### Spring

Large spring configuration for reduced variation in regulated pressure over the nozzle range.

### Technical Specifications Komet Precision Regulator (KPR)

Model	Flow Range Covers Complete Nozzle Range		Flow Range				Regulated Outlet Pressure		Max. Inlet Pressure		Connection Inlet/Outlet
	in	mm	min - l/h	min-gpm	max - l/h	max-gpm	psi	psi	psi	psi	
KPR - 6	8 - 52 / 128"	1.6 - 10.3	68	0,3	2720	12,0	6	0,4	110	7,5	3/4" x 3/4" FNPT
KPR - 10	8 - 52 / 128"	1.6 - 10.3	91	0,4	3400	15,0	10	0,7	120	8,3	3/4" x 3/4" FNPT
KPR - 15	8 - 52 / 128"	1.6 - 10.3	115	0,5	4000	17,6	15	1,0	130	9,0	3/4" x 3/4" FNPT
KPR - 20	8 - 52 / 128"	1.6 - 10.3	136	0,6	4400	19,4	20	1,4	130	9,0	3/4" x 3/4" FNPT

The pressure regulators will operate at the preset operating pressure over the whole nozzle range provided that the inlet pressure is at least 5 psi | 0.35 bar higher than the nominal rated pressure for the Komet Precision Regulator (KPR) 6 psi | 0.4 bar and 10 psi | 0.7 bar and at least 7 psi | 0.48 bar higher than the nominal rated pressure for the Komet Precision Regulator (KPR) 15 psi | 1.0 bar and 20 psi | 1.4 bar.

**COUNT ON IT**



CE Certificate



ISO 9001:2008  
Quality Management System



Turkish Standards  
Institution Certificate



Turkish Standards Institution  
Service Compliance Certificate

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