komet

INNOVATIVE
IRRIGATION

komet | *Twin*

Large Volume Sprinklers

for Travellers, Pivots and Solid-sets

THE KOMET ADVANTAGE:
INNOVATION WITH IMPACT

komet | *Twin*

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 large volume sprinklers represent our capacity to integrate innovative technology, performance and reliability.

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Optimal performance in various applications

Solid-set Systems

Dust Control

Sport Fields

Log Irrigation

Effluent Water

Feed Lots

Travellers

Pivot Systems

Komet Philosophy

We are a family business. We inherited the values that are the foundation of our relationships from the company's founder Roland Drechsel, our father. For us, the order of the day is honesty, respect and trust. We believe that in today's world, rather than inventing new promises, it is far more important to respect, uphold and build on the customer promises that our company was founded on. In addition to providing the highest quality irrigation equipment, we want to make sure our customers have water application products that operate at the highest levels of efficiency and effectiveness, which in turn will help to limit the waste of our natural resources. We believe in building long lasting relationships with our customers. This gives us the opportunity to understand their needs, analyze how our products are meeting those needs, and to continue to improve. We believe in what we do, and are passionate about how we do it.

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Operating Cost *VS* Purchase Cost

A trend has been developing in the past few years in which the purchase cost of a product has become the most important factor when purchasing equipment. This trend has changed the scope of many companies, moving to a short term market approach that focuses on the purchase cost instead of its real operating cost. We at Komet are firmly convinced that our customers generate greater benefit by optimizing the operating cost of the products they use. Our priorities when developing products are to make sure that they are the most reliable, always operate at the optimum efficiency, are easy to use and minimize the waste of precious natural resources.
It is surely less demanding and more economically feasible to concentrate a company's product lines with the short term market approach, but we believe that the credibility of our brand is based on the long term quality and performance of our products, and more importantly the return on investment our customers can realize.

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The Advantages

1. WATER DISTRIBUTION

2. THROW

3. ENERGY EFFICIENCY

4. RELIABILITY

5. ADAPTABILITY

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1 Distribution

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1 Distribution

Efficient irrigation is an important factor to support crop growth. A uniform water distribution helps the soil to evenly absorb the water, consequently avoiding water run-offs. This greatly promotes even plant growth throughout the field and at the same time can increase the yield and its quality. A fine water application also allows to grow sensitive crops.

Komet Automatic Brake

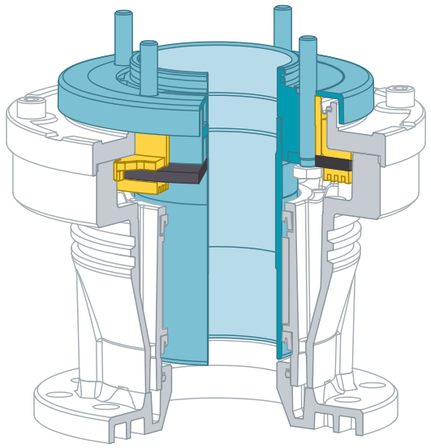
–

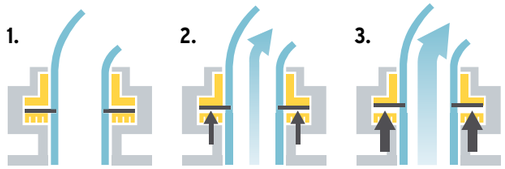
This mechanism is designed to allow the sprinkler to maintain a constant rotation speed in all arising operating conditions independently of the prevailing pressure and flow levels.

Self-adjusted brake force
→ Ideal rotation speed at all pressures

Brake force too high
→ Rotation speed too slow

Brake force too low
→ Rotation speed too fast





Automatic brake system

1.
While waiting to operate the sprinkler's brake disc rests on the lower brake pads.

2.
With increasing operating pressure, the brake disc is pushed upwards against the upper brake pads, generating a braking force.

3.
A higher operating pressure will generate a higher brake force to compensate for the increased rotation force produced by the drive system.

Komet Deflector

–

This innovative device is capable of distributing the water uniformly, starting from the sprinkler over its entire throw range. The technology and fluid dynamic elements designed into this component let the deflector adapt its operation to all pressure levels and upcoming changes.

Deflector in action

Deflector in action

Deflector at start-up

2 Throw

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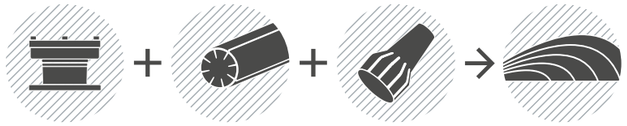
2 Throw

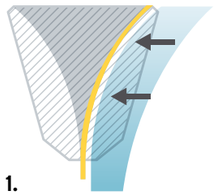


The length of the throw determines the area being irrigated. A longer throw increases the area covered by the irrigation with the effect of making the irrigation more cost effective. At the same time a longer throw determines also a reduction of the instantaneous water application rate thus improving the water take-in of the soil.

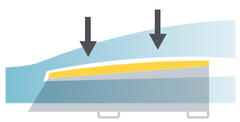
Komet Fluid Dynamics

–

While in operation the deflector is designed to minimize the oscillation originating from the interaction with the water stream. This is fundamental in order to obtain a laminar water stream exiting the nozzle generating unrivaled throw values.



1.



2.

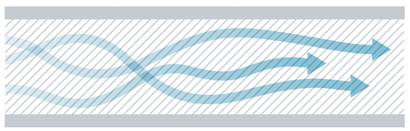
1.
Top view of the deflector

2.
Lateral view of the deflector

Komet Barrel

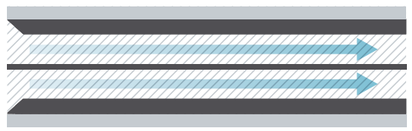
–

The configuration of the barrel and its internal straightening vanes has been optimized with the use of the most advanced hydraulic simulation software allowing the water to reach the nozzle with the least possible turbulences and pressure losses.



Standard barrel

Komet Twin barrel



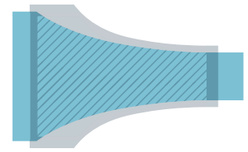
Komet Twin barrel

Komet Nozzle

–

The particular shape of the Komet nozzle, manufactured with technical polymers, allows the transition from the diameter of the barrel to the diameter defined for the irrigation with the water retaining the maximum velocity and exiting the nozzle with a perfectly round water stream to reach unrivaled throw values.

1.



2.

1.
Nozzle

2.
Cross section: transition of the water stream

Perfectly round water stream exiting the nozzle

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3 Energy Efficiency

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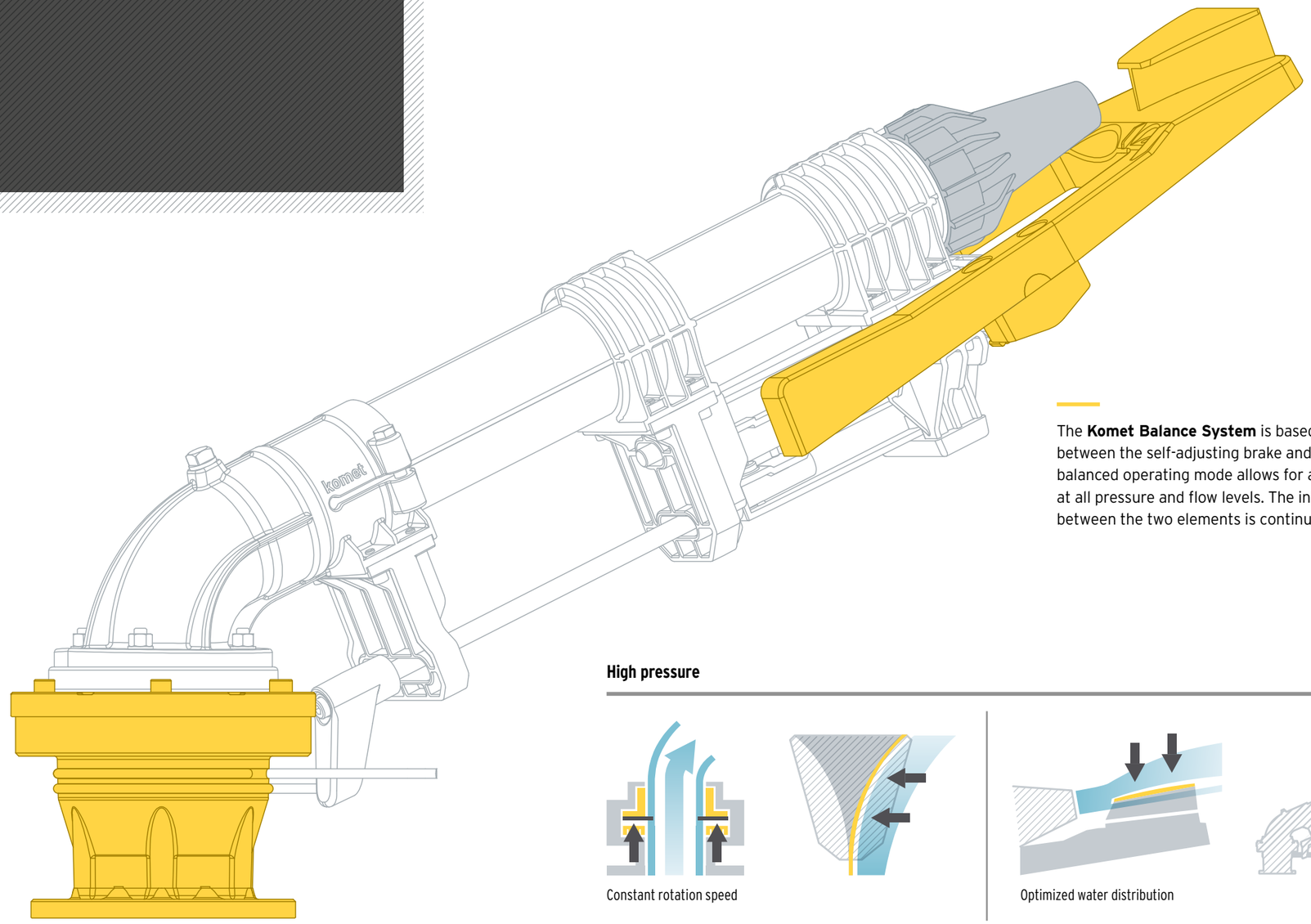
3 Energy efficiency

Pressure greatly determines the operating cost of an irrigation system: the higher the pressure required to operate it, the higher the operating cost will be. What makes the difference is to find a method to limit the operating pressure requirement without sacrificing the quality of the water distribution uniformity.

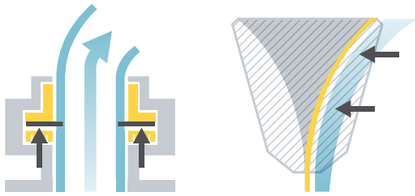
Komet Energy System

–

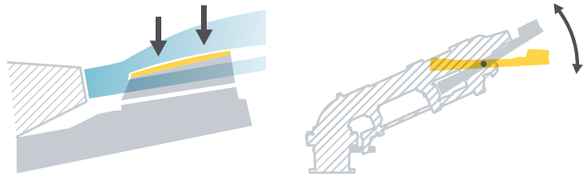
Due to the use of innovative materials with reduced specific weight and advanced tribological properties combined with the reciprocal calibration of the different components and respective systems, we were able to obtain the optimal performance from the automatic brake and the low inertia drive system. This allows for an efficient operation of the sprinkler in all operating conditions including lower and variable pressure levels.



Low pressure



Constant rotation speed



Optimized water distribution

The **Komet Balance System** is based on the interaction between the self-adjusting brake and deflector. The resulting balanced operating mode allows for an excellent performance at all pressure and flow levels. The interactive balancing between the two elements is continuous and automatic.

High pressure

Constant rotation speed

Optimized water distribution

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4 Reliability

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4 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 sprinkler not being continuously monitored, has to operate always at its best without the necessity of adjustments or maintenance.

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 sprinkler are our guarantee of a quality control at its best.

Komet Self Control

–

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

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.

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.

5 Adaptability

5 Adaptability

It is fundamental that a sprinkler adapts to every situation while keeping excellent performance in all types of irrigation systems and environmental conditions, also extreme ones.

Komet Inverter

–

Staying within the confines of the field is important for efficient irrigation. Not only does it save valuable resources otherwise lost to adjacent terrain, but can also avoid unnecessary discussions with the neighbours. When the field is adjacent to streets or neighbouring areas, it is common to start irrigation towards the traveller and manually change the irrigation sector afterwards. This procedure can now be automated with the use of the patented Komet Inverter.

Komet Twin 160 Ultra with Inverter

Komet Motion-triggered Timer Standby Function

–

The time for the first irrigation sector can be set to a max. of 999 minutes. Once the timer is activated it remains in stand-by mode for 36 hours. Within this time frame the operation can be started at any time. The count-down will start as soon as water runs through the large volume sprinkler and the timer is triggered through motion.

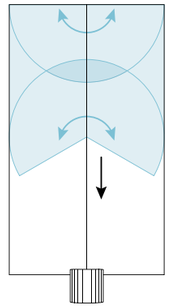
Komet Inverter Timer

Komet Inverter Stop and Go Function

–

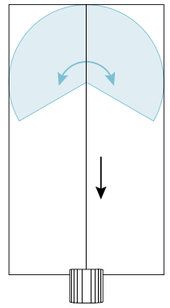
Should the machine stop its operation while the sprinkler still irrigates in the first sector, the timer will stop the countdown and go back to stand-by mode for another 36 hours. Is the machine resuming its work within this time frame, the timer will continue to countdown the remaining time before changing to sector 2.

The Komet Inverter is suitable for the following applications:



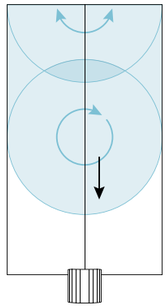
Application "A"

Irrigation with initial inversion of the large volume sprinkler



Application "B"

Irrigation with regular retraction of the large volume sprinkler



Application "C"

Irrigation with initial inversion and transition to full-circle operation until the end of the irrigation cycle

The patented Komet Inverter used on travellers, is a time-controlled device to change irrigation sectors while operating. It allows to irrigate two completely independent irrigation sectors which need to be set before starting operation. Starting in the first irrigation sector, the large volume sprinkler will change automatically into the second irrigation sector after a pre-set time has elapsed. If a subsequent full-circle operation is required, a full-circle adapter is available.

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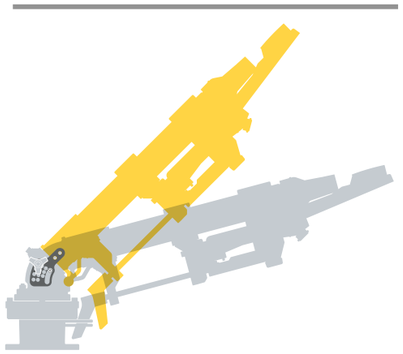
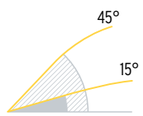
Komet Vari-Angle

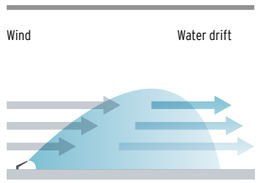
–

The adjustment of the trajectory angle without internal flow restriction allows to adapt the irrigation to different climatic conditions including stronger winds. This capability to adjust is a real advantage also in cases where obstacles such as power lines need to be avoid.



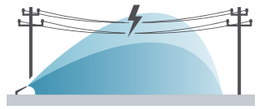
The trajectory angle can be manually adjusted between 15° and 45°.





Strong winds can cause substantial

Lowering the trajectory can reduce water drift.



Adjustment of the trajectory in case of power lines.

Komet Transport Lock

–

If the large volume sprinkler is not adequately secured during transportation of the traveller, the movements can cause serious damage of the large volume sprinkler. A suitable solution is to block the rotation of the large volume sprinkler using the Komet Transport Lock.

Transport Lock
Twin 101 Ultra / Twin 140 Ultra

Transport Lock
Twin 160 Ultra / Twin 202 Ultra

Easily installed on top of the large volume sprinkler base, the two different settings of the Komet Transport Lock either permit or prevent the large volume sprinkler from turning. This way it can remain installed also during operation.

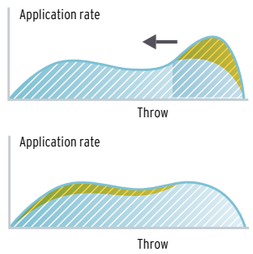
Komet Dynamic Jet-Breaker

–

The patented working principle of the dynamic jet-breaker allows to redistribute some of the excessive water from the end of the throw typical in low pressure conditions towards the sprinkler. Another important advantage of this device is that it allows to adapt the water distribution profile to suit the requirement of solid-set systems.

Action of the dynamic jet-breaker

Effect of the dynamic jet-breaker at low pressures

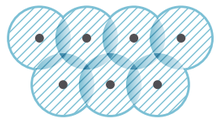


Schematic water distribution profile **without** dynamic jet-breaker

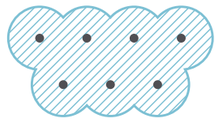
Schematic water distribution profile **with** dynamic jet-breaker

Effect of the dynamic jet-breaker in solid-set systems

Schematic top view



Solid-set system **without** jet-breaker



Solid-set system **with** jet-breaker

Counterweight

–

The availability of model specific counterweights allows for smooth operation of the sprinkler on sloping terrain as well as on steep slopes.

The Result

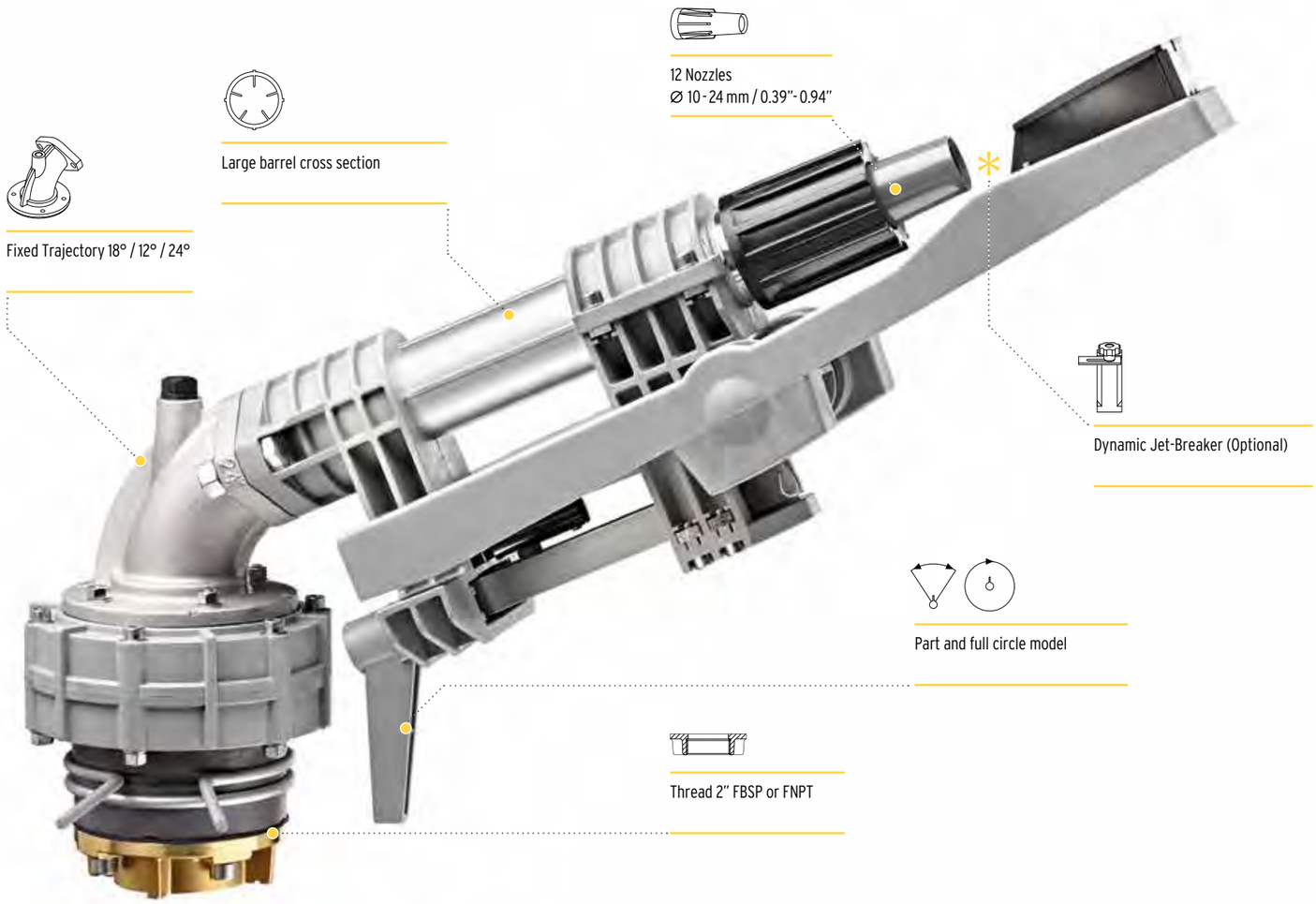
komet | *Twin Max*

Available Models

Twin Max
PIVOT 18°

Twin Max
PIVOT 12°

Twin Max
24°



Fixed Trajectory 18° / 12° / 24°

Large barrel cross section

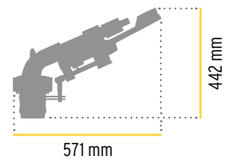
12 Nozzles
Ø 10 - 24 mm / 0.39" - 0.94"

Dynamic Jet-Breaker (Optional)

Part and full circle model

Thread 2" FBSP or FNPT

Dimensions **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 aprrox. 3 to 4%.
To determine the throw data of above model used with an 18° trajectory angle and installed at the end of a pivot, apply a factor 0.82 to the throw data shown in the performance table.

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Pressure	Nozzle **10 mm - 0.39"**		Nozzle **11 mm - 0.43"**		Nozzle **12 mm - 0.47"**		Nozzle **13 mm - 0.51"**	
	Flow	Radius	Flow	Radius	Flow	Radius	Flow	Radius
bar	m^3/h	m	m^3/h	m	m^3/h	m	m^3/h	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	29,5	10,3	30,9	12,1	32,0
4,0	7,7	29,8	9,3	31,3	11,1	32,7	13,0	33,8
4,5	8,1	30,8	9,9	32,3	11,7	33,7	13,8	34,9
5,0	8,6	31,8	10,4	33,2	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

High Performance Nozzles — Trajectory angle ***24°***

Nozzle **14 mm - 0.55"**		Nozzle **15 mm - 0.59"**		Nozzle **16 mm - 0.63"**		Nozzle **17 mm - 0.67"**		Nozzle **18 mm - 0.71"**		Nozzle **20 mm - 0.79"**		Nozzle **22 mm - 0.87"**		Nozzle **24 mm - 0.94"**	
Flow	Radius	Flow	Radius	Flow	Radius	Flow	Radius	Flow	Radius	Flow	Radius	Flow	Radius	Flow	Radius
m^3/h	m	m^3/h	m	m^3/h	m	m^3/h	m	m^3/h	m	m^3/h	m	m^3/h	m	m^3/h	m
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
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
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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
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
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
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
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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komet | *Twin 101 ULTRA*

Available Models

Twin 101

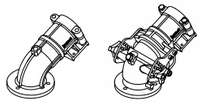
24° / 21°

Twin 101

VARI ANGLE

Twin 101

PIVOT 18°



Fixed Trajectory 24° / 21° / 18°

Variable Trajectory 15° - 45°

Large barrel cross section

17 Nozzles

Ø 12 - 28 mm / 0.47"-1.10"

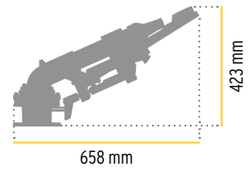
Dynamic Jet-Breaker (Optional)

Part and full circle model

Flange: External Ø 168 mm (6 39/64") , 6 holes Ø10.5 mm (13/32") on pitch circle Ø130 mm (5 1/8") and 6 holes Ø 10.5 mm (13/32") on pitch circle Ø146 mm (5 3/4")

Thread 2" FBSP or FNPT (Optional)

Dimensions **24°**



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To determine the throw data of above model used with an 18° trajectory angle and installed at the end of a pivot, apply a factor 0.82 to the throw data shown in the performance table.

komet | *Twin 101 ULTRA*

High Performance Nozzles — Trajectory angle ***24°***

Pressure	Nozzle **12 mm - 0.47"**		Nozzle **14 mm - 0.55"**		Nozzle **16 mm - 0.63"**	
	Flow	Radius	Flow	Radius	Flow	Radius
bar	m³/h	m	m³/h	m	m³/h	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

Nozzle **18 mm - 0.71"**		Nozzle **20 mm - 0.79"**		Nozzle **22 mm - 0.87"**		Nozzle **24 mm - 0.94"**		Nozzle **26 mm - 1.02"**		Nozzle **28 mm - 1.10"**	
Flow	Radius	Flow	Radius	Flow	Radius	Flow	Radius	Flow	Radius	Flow	Radius
m³/h	m	m³/h	m	m³/h	m	m³/h	m	m³/h	m	m³/h	m
17,5	29,1	21,7	29,4	26,1	29,8	31,1	30,2	36,7	30,6	42,3	30,9
19,5	32,5	24,2	33,8	29,2	34,4	34,7	35,1	41,0	35,8	47,3	36,5
21,4	35,9	26,5	38,2	31,9	39,1	38,0	39,9	44,9	41,0	51,8	42,1
23,1	37,9	28,7	40,4	34,5	41,6	41,1	42,9	48,5	44,4	56,0	45,9
24,7	39,9	30,7	42,5	36,9	44,2	43,9	45,8	51,8	47,8	59,8	49,7
26,2	41,2	32,5	43,9	39,1	45,7	46,6	47,6	55,0	49,8	63,5	52,0
27,6	42,5	34,3	45,2	41,2	47,3	49,1	49,3	58,0	51,8	66,9	54,3
29,0	43,8	35,9	46,5	43,2	48,7	51,5	50,9	60,8	53,5	70,2	56,2
30,3	45,0	37,5	47,7	45,2	50,1	53,8	52,5	63,5	55,3	73,3	58,1
31,5	46,0	39,1	48,7	47,0	51,2	56,0	53,7	66,1	56,5	76,3	59,3
32,7	46,9	40,6	49,7	48,8	52,3	58,1	54,9	68,6	57,7	79,2	60,6

komet

komet | *Twin 140 ULTRA*

Available Models

Twin 140

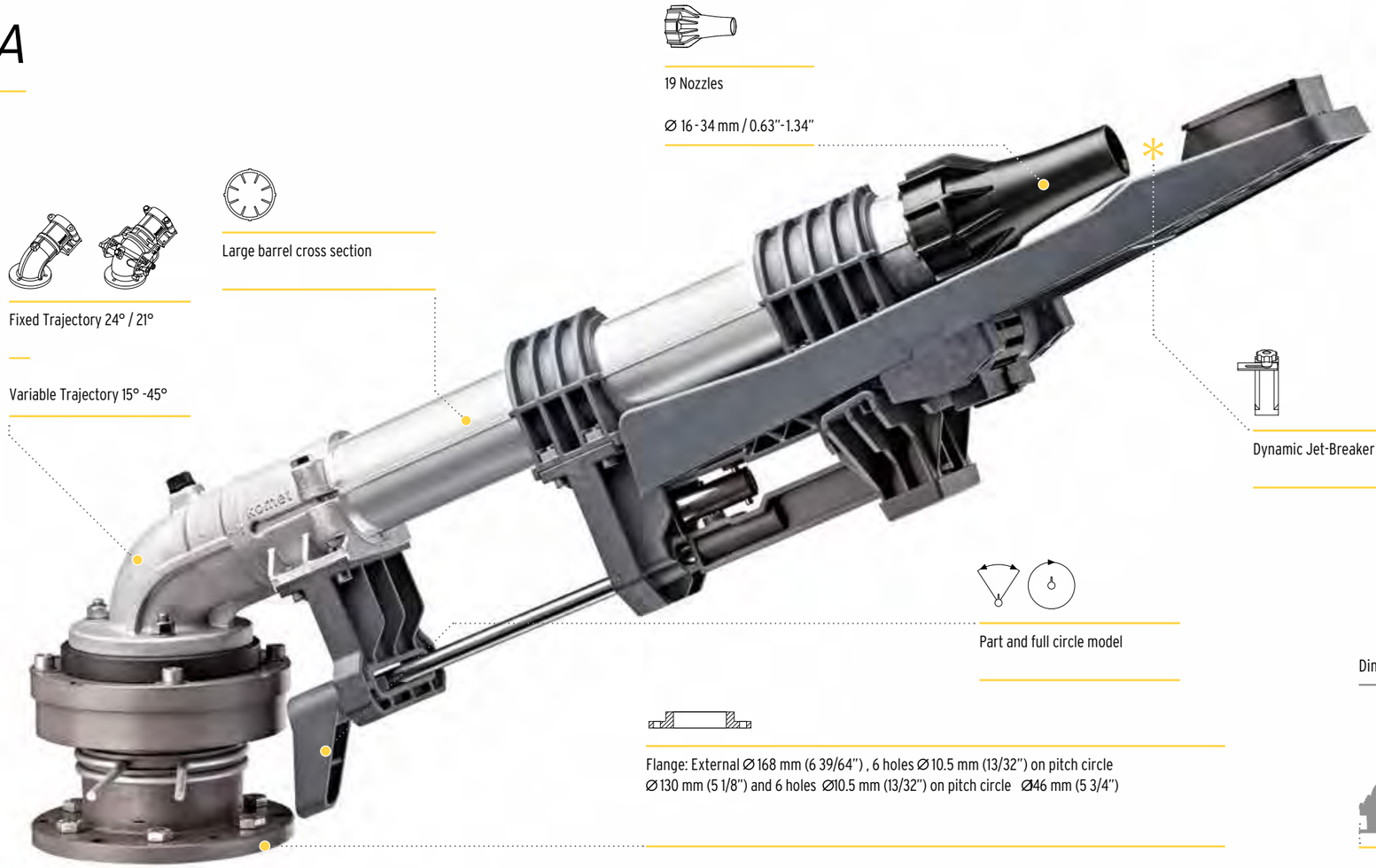
24° / 21°

Twin 140

VARI ANGLE

Twin 140

INVERTER
24° / 21°



Fixed Trajectory 24° / 21°

Variable Trajectory 15° -45°

Large barrel cross section

19 Nozzles

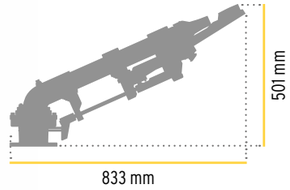
Ø 16 - 34 mm / 0.63"-1.34"

Dynamic Jet-Breaker (Optional)

Part and full circle model

Flange: External Ø 168 mm (6 39/64") , 6 holes Ø 10.5 mm (13/32") on pitch circle
Ø 130 mm (5 1/8") and 6 holes Ø10.5 mm (13/32") on pitch circle Ø46 mm (5 3/4")

Dimensions **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 aprrox. 3 to 4%.

komet | *Twin 140 ULTRA*

High Performance Nozzles — Trajectory angle ***24°***

Pressure	Nozzle 16 mm - 0.63"		Nozzle 18 mm - 0.71"		Nozzle 20 mm - 0.79"		Nozzle 22 mm - 0.87"		Nozzle 24 mm - 0.94"		Nozzle 26 mm - 1.02"		Nozzle 28 mm - 1.10"		Nozzle 30 mm - 1.18"		Nozzle 32 mm - 1.26"		Nozzle 34 mm - 1.34"	
	Flow	Radius	Flow	Radius	Flow	Radius	Flow	Radius	Flow	Radius	Flow	Radius	Flow	Radius	Flow	Radius	Flow	Radius	Flow	Radius
bar	m³/h	m	m³/h	m	m³/h	m	m³/h	m	m³/h	m	m³/h	m	m³/h	m	m³/h	m	m³/h	m	m³/h	m
2,0	13,8	29,0	17,5	29,3	21,7	29,5	26,1	30,0	31,1	30,4	36,7	30,7	42,3	31,0	48,6	31,3	55,7	31,7	62,5	32,0
2,5	15,4	32,3	19,5	33,4	24,2	34,6	29,2	35,4	34,7	36,1	41,0	36,4	47,3	36,7	54,3	37,0	62,3	37,3	69,8	37,6
3,0	16,9	35,5	21,4	37,6	26,5	39,7	31,9	40,8	38,0	41,8	44,9	42,1	51,8	42,3	59,5	42,6	68,2	42,9	76,5	43,3
3,5	18,2	36,5	23,1	38,6	28,7	40,8	34,5	42,3	41,1	43,8	48,5	45,0	56,0	46,1	64,3	47,0	73,7	47,8	82,6	48,9
4,0	19,5	37,5	24,7	39,7	30,7	41,8	36,9	43,8	43,9	45,7	51,8	47,8	59,8	50,0	68,7	51,3	78,8	52,7	88,3	54,6
4,5	20,7	38,7	26,2	41,1	32,5	43,5	39,1	45,6	46,6	47,6	55,0	50,0	63,5	52,3	72,9	54,1	83,6	56,0	93,7	57,9
5,0	21,8	40,0	27,6	42,6	34,3	45,1	41,2	47,3	49,1	49,5	58,0	52,1	66,9	54,6	76,8	56,9	88,1	59,3	98,7	61,3
5,5	22,9	41,3	29,0	43,9	35,9	46,5	43,2	48,8	51,5	51,1	60,8	53,8	70,2	56,5	80,5	58,9	92,4	61,2	103,6	63,5
6,0	23,9	42,6	30,3	45,3	37,5	48,0	45,2	50,3	53,8	52,7	63,5	55,6	73,3	58,4	84,1	60,8	96,5	63,2	108,2	65,7
6,5	24,9	43,5	31,5	46,2	39,1	48,9	47,0	51,4	56,0	53,9	66,1	56,8	76,3	59,6	87,6	62,1	100,4	64,5	112,6	67,2
7,0	25,8	44,4	32,7	47,2	40,6	49,9	48,8	52,5	58,1	55,2	68,6	58,0	79,2	60,9	90,9	63,3	104,2	65,8	116,8	68,7

komet

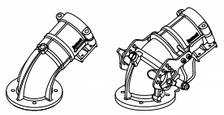
komet | *Twin 160 ULTRA*

Available Models

Twin 160
24° / 21°

Twin 160
VARI ANGLE

Twin 160
INVERTER
24° / 21°



Fixed Trajectory 24° / 21°

Variable Trajectory 15° - 45°

Large barrel cross section

Dynamic Jet-Breaker (Optional)

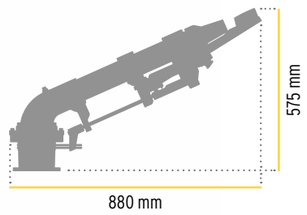
23 Nozzles

Ø 18 - 40 mm / 0.71"-1.57"

Part and full circle model

Flange: External Ø168 mm (6 39/64") , 6 holes Ø10.5 mm (13/32") on pitch circle
Ø 130 mm (5 1/8") and 6 holes Ø10.5 mm (13/32") on pitch circle Ø46 mm (5 3/4")

Dimensions **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 aprrox. 3 to 4%.

komet | *Twin 160 ULTRA*

High Performance Nozzles — Trajectory angle ***24°***

Pressure	Nozzle 18 mm - 0.71"		Nozzle 20 mm - 0.79"		Nozzle 22 mm - 0.87"		Nozzle 24 mm - 0.94"	
	Flow	Radius	Flow	Radius	Flow	Radius	Flow	Radius
bar	m³/h	m	m³/h	m	m³/h	m	m³/h	m
3,0	21,7	37,8	26,9	39,9	32,4	41,0	38,5	42,0
3,5	23,4	39,4	29,0	41,6	34,9	43,1	41,6	44,6
4,0	25,1	41,0	31,0	43,2	37,4	45,3	44,5	47,3
4,5	26,6	42,3	32,9	44,7	39,6	46,9	47,2	49,0
5,0	28,0	43,6	34,7	46,2	41,8	48,5	49,7	50,8
5,5	29,4	44,7	36,4	47,3	43,8	49,7	52,1	52,0
6,0	30,7	45,7	38,0	48,4	45,8	50,9	54,4	53,3
6,5	31,9	46,7	39,5	49,4	47,6	52,0	56,7	54,5
7,0	33,2	47,7	41,0	50,4	49,4	53,1	58,8	55,7
7,5	34,3	48,5	42,5	51,4	51,2	54,1	60,9	56,8
8,0	35,4	49,3	43,9	52,3	52,8	55,1	62,9	57,9
8,5	36,5	50,2	45,2	53,2	54,5	56,0	64,8	58,9
9,0	37,6	51,0	46,5	54,1	56,0	57,0	66,7	59,9

Pressure	Nozzle 26 mm - 1.02"		Nozzle 28 mm - 1.10"		Nozzle 30 mm - 1.18"		Nozzle 32 mm - 1.26"		Nozzle 34 mm - 1.34"		Nozzle 36 mm - 1.42"		Nozzle 38 mm - 1.50"		Nozzle 40 mm - 1.57"	
	Flow	Radius	Flow	Radius	Flow	Radius	Flow	Radius	Flow	Radius	Flow	Radius	Flow	Radius	Flow	Radius
bar	m³/h	m	m³/h	m	m³/h	m	m³/h	m	m³/h	m	m³/h	m	m³/h	m	m³/h	m
3,0	45,6	42,3	52,6	42,5	60,4	42,8	69,1	43,2	77,5	43,5	86,8	43,8	97,0	44,1	106,6	44,5
3,5	49,2	45,9	56,8	47,1	65,2	48,0	74,6	48,8	83,7	50,0	93,7	51,1	104,7	52,1	115,1	53,1
4,0	52,6	49,5	60,7	51,7	69,7	53,1	79,8	54,5	89,4	56,5	100,2	58,3	112,0	60,2	123,1	61,4
4,5	55,8	51,4	64,4	53,8	74,0	55,7	84,6	57,6	94,9	59,6	106,3	61,6	118,8	63,6	130,5	64,7
5,0	58,8	53,4	67,9	55,9	78,0	58,3	89,2	60,8	100,0	62,8	112,0	64,9	125,2	67,0	137,6	68,1
5,5	61,7	54,7	71,2	57,5	81,8	59,9	93,5	62,3	104,9	64,6	117,5	66,9	131,3	69,2	144,3	70,5
6,0	64,4	56,1	74,4	59,0	85,4	61,4	97,7	63,8	109,5	66,3	122,7	68,8	137,1	71,4	150,7	72,9
6,5	67,1	57,4	77,4	60,2	88,9	62,7	101,7	65,1	114,0	67,9	127,7	70,6	142,7	73,2	156,9	75,0
7,0	69,6	58,6	80,3	61,5	92,2	64,0	105,5	66,5	118,3	69,4	132,5	72,3	148,1	75,1	162,8	77,0
7,5	72,0	59,7	83,1	62,5	95,5	65,0	109,2	67,5	122,5	70,6	137,2	73,6	153,3	76,6	168,5	78,7
8,0	74,4	60,7	85,9	63,6	98,6	66,1	112,8	68,6	126,5	71,8	141,7	74,9	158,3	78,0	174,1	80,4
8,5	76,7	61,7	88,5	64,4	101,6	66,9	116,3	69,4	130,4	72,7	146,0	75,8	163,2	78,9	179,4	81,4
9,0	78,9	62,6	91,1	65,3	104,6	67,8	119,6	70,3	134,2	73,5	150,3	76,7	168,0	79,8	184,6	82,4

komet

komet | *Twin 202 ULTRA*

Available Models

Twin 202

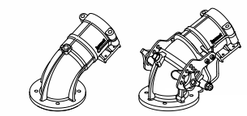
24°

Twin 202

VARI ANGLE

Twin 202

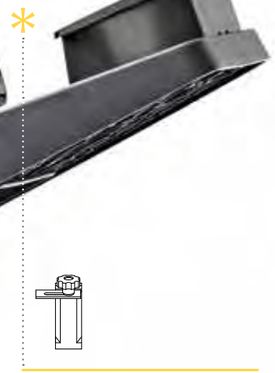
INVERTER 24°



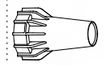
Fixed Trajectory 24°

Variable Trajectory 15° - 45°

Large barrel cross section

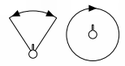


Dynamic Jet-Breaker (Optional)

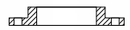


24 Nozzles

Ø 22 - 45 mm / 0.87"-1.77"

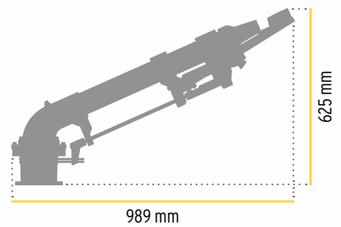


Part and full circle model



Flange: External Ø168 mm (6 39/64") , 6 holes Ø10.5 mm (13/32") on pitch circle
Ø 130 mm (5 1/8") and 6 holes Ø10.5 mm (13/32") on pitch circle Ø46 mm (5 3/4")

Dimensions **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 aprrox. 3 to 4%.

komet | *Twin 202 ULTRA*

High Performance Nozzles — Trajectory angle ***24°***

Pressure	Nozzle 22 mm - 0.87"		Nozzle 24 mm - 0.94"		Nozzle 26 mm - 1.02"		Nozzle 28 mm - 1.10"		Nozzle 30 mm - 1.18"	
	Flow	Radius	Flow	Radius	Flow	Radius	Flow	Radius	Flow	Radius
bar	m³/h	m	m³/h	m	m³/h	m	m³/h	m	m³/h	m
3,0	32,4	41,5	38,5	42,6	45,6	42,9	52,6	43,1	60,4	43,5
3,5	34,9	43,6	41,6	45,2	49,2	46,4	56,8	47,6	65,2	48,5
4,0	37,4	45,7	44,5	47,7	52,6	49,9	60,7	52,1	69,7	53,6
4,5	39,6	47,2	47,2	49,4	55,8	51,8	64,4	54,2	74,0	56,1
5,0	41,8	48,7	49,7	51,0	58,8	53,6	67,9	56,2	78,0	58,6
5,5	43,8	49,9	52,1	52,3	61,7	55,0	71,2	57,7	81,8	60,2
6,0	45,8	51,1	54,4	53,5	64,4	56,4	74,4	59,3	85,4	61,7
6,5	47,6	52,2	56,7	54,8	67,1	57,7	77,4	60,5	88,9	63,0
7,0	49,4	53,4	58,8	56,0	69,6	58,9	80,3	61,8	92,2	64,3
7,5	51,2	54,5	60,9	57,3	72,0	60,1	83,1	63,0	95,5	65,5
8,0	52,8	55,7	62,9	58,5	74,4	61,4	85,9	64,2	98,6	66,8
8,5	54,5	56,6	64,8	59,5	76,7	62,3	88,5	65,1	101,6	67,6
9,0	56,0	57,6	66,7	60,5	78,9	63,3	91,1	66,0	104,6	68,5

Pressure	Nozzle 32 mm - 1.26"		Nozzle 34 mm - 1.34"		Nozzle 36 mm - 1.42"		Nozzle 38 mm - 1.50"		Nozzle 40 mm - 1.57"		Nozzle 42 mm - 1.65"		Nozzle 44 mm - 1.73"		Nozzle 45 mm - 1.77"	
	Flow	Radius	Flow	Radius	Flow	Radius	Flow	Radius	Flow	Radius	Flow	Radius	Flow	Radius	Flow	Radius
bar	m³/h	m	m³/h	m	m³/h	m	m³/h	m	m³/h	m	m³/h	m	m³/h	m	m³/h	m
3,0	69,1	43,8	77,5	44,1	86,8	44,4	97,0	44,7	106,6	45,1	117,5	45,4	129,9	45,8	135,7	46,0
3,5	74,6	49,4	83,7	50,5	93,7	51,6	104,7	52,7	115,1	53,5	126,9	54,3	140,3	55,0	146,5	55,4
4,0	79,8	55,0	89,4	57,0	100,2	58,9	112,0	60,7	123,1	61,8	135,7	63,1	150,0	64,3	156,7	64,9
4,5	84,6	58,1	94,9	60,0	106,3	62,0	118,8	64,0	130,5	65,3	143,9	66,8	159,1	68,2	166,2	68,9
5,0	89,2	61,1	100,0	63,1	112,0	65,2	125,2	67,3	137,6	68,8	151,7	70,5	167,7	72,1	175,1	73,0
5,5	93,5	62,6	104,9	64,9	117,5	67,2	131,3	69,5	144,3	71,3	159,1	73,1	175,8	75,0	183,7	75,9
6,0	97,7	64,1	109,5	66,7	122,7	69,2	137,1	71,7	150,7	73,7	166,2	75,7	183,7	77,8	191,9	78,8
6,5	101,7	65,5	114,0	68,2	127,7	70,9	142,7	73,6	156,9	75,7	173,0	77,9	191,2	80,1	199,7	81,2
7,0	105,5	66,8	118,3	69,8	132,5	72,6	148,1	75,5	162,8	77,8	179,5	80,1	198,4	82,5	207,2	83,7
7,5	109,2	68,1	122,5	71,1	137,2	74,1	153,3	77,2	168,5	79,5	185,8	82,0	205,3	84,5	214,5	85,7
8,0	112,8	69,3	126,5	72,5	141,7	75,7	158,3	78,8	174,1	81,3	191,9	83,8	212,1	86,4	221,5	87,7
8,5	116,3	70,2	130,4	73,4	146,0	76,6	163,2	79,7	179,4	82,2	197,8	84,9	218,6	87,5	228,4	88,8
9,0	119,6	71,0	134,2	74,3	150,3	77,4	168,0	80,6	184,6	83,2	203,5	85,9	224,9	88,6	235,0	90,0

komet

Twin Max

PIVOT 18°

Fixed trajectory 18°

12 Performance taper bore nozzles

⌀ 10 - 24 mm / 0.39" - 0.94"
Part and full circle model

2" Thread

Twin Max

PIVOT 12°

Fixed trajectory 12°

12 Performance taper bore nozzles

⌀ 10 - 24 mm / 0.39" - 0.94"
Part and full circle model

2" Thread

Twin Max

24°

Fixed trajectory 24°

12 Performance taper bore nozzles

⌀ 10 - 24 mm / 0.39" - 0.94"
Part and full circle model

2" Thread

Twin 101 ULTRA

VARI ANGLE

Adjustable trajectory 15° - 45°

17 Performance taper bore nozzles

⌀ 12 - 28 mm / 0.47" - 1.10"

Part and full circle model

Flange
2" Thread

Twin 140 ULTRA

24° / 21°

Fixed trajectory 24° / 21°

19 Performance taper bore nozzles

⌀ 16 - 34 mm / 0.63" - 1.34"

Part and full circle model

Flange

Twin 140 ULTRA

VARI ANGLE

Adjustable trajectory 15° - 45°

19 Performance taper bore nozzles

⌀ 16 - 34 mm / 0.63" - 1.34"
Part and full circle model

Flange

Twin 160 ULTRA

VARI ANGLE

Adjustable trajectory 15° - 45°

23 Performance taper bore nozzles

⌀ 18 - 40 mm / 0.71" - 1.57"

Part and full circle model

Flange

Twin 160 ULTRA

INVERTER

Fixed trajectory 24° / 21°

23 Performance taper bore nozzles

⌀ 18 - 40 mm / 0.71" - 1.57"

Part and full circle model

Flange

Twin 202 ULTRA

24°

Fixed trajectory 24°

24 Performance taper bore nozzles

⌀ 22 - 45 mm / 0.87" - 1.77"
Part and full circle model

Flange

Twin 101 ULTRA

24° / 21°

Fixed trajectory 24° / 21°

17 Performance taper bore nozzles

⌀ 12 - 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

⌀ 12 - 28 mm / 0.47" - 1.10"

Part and full circle model

2" Thread

Twin 101 ULTRA

FULL CIRCLE

Fixed trajectory 24°

17 Performance taper bore nozzles

⌀ 12 - 28 mm / 0.47" - 1.10"

Full circle model

Flange
2" Thread

Twin 140 ULTRA

INVERTER

Fixed trajectory 24° / 21°

19 Performance taper bore nozzles

⌀ 16 - 34 mm / 0.63" - 1.34"
Part and full circle model

Flange

Twin 160 ULTRA

24° / 21°

Fixed trajectory 24° / 21°

23 Performance taper bore nozzles

⌀ 18 - 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

⌀ 18 - 40 mm / 0.71" - 1.57"

Full circle model

Flange

Twin 202 ULTRA

VARI ANGLE

Adjustable trajectory 15° - 45°

24 Performance taper bore nozzles

⌀ 22 - 45 mm / 0.87" - 1.77"
Part and full circle model

Flange

Twin 202 ULTRA

INVERTER

Fixed trajectory 24°

24 Performance taper bore nozzles

⌀ 22 - 45 mm / 0.87" - 1.77"

Part and full circle model

Flange

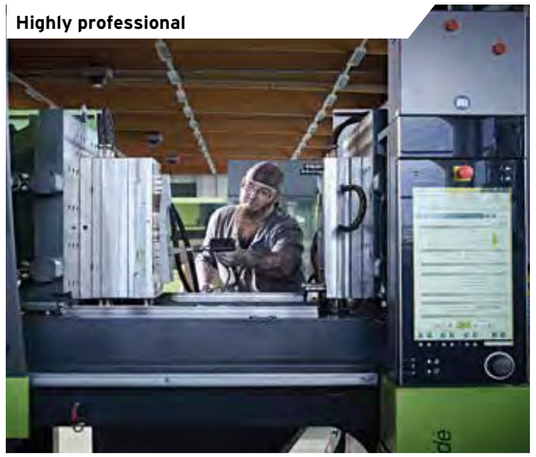
komet | *Quality*

Quality is not invented.
Quality is a mindset.

–

The quality of the product is the essence of our mission. Over the years we have learned that in order to achieve excellence in quality, it is necessary to add the highest levels of technology and innovation to the professionalism of the people involved.
Our manufacturing facility is highly automated. The use of robotic equipment allows us to achieve the highest accuracy and repeatability.
What makes us even more proud is the organizational structure of the company. In many years of development, we have succeeded in creating a perfectly balanced and transparent union between the operating staff and the exploitation of all the potential of our manufacturing equipment. Every detail is cared for. Nothing is left to chance. The result is the capability to offer the market an extraordinarily innovative product with outstanding quality, ensuring unmatched performance and longevity.

Highly professional



Strict quality control

Comprehensive product testing

Automated manufacturing

komet

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