

**komet** | *Pivot*

## **Komet Precision Twister (KPT) PC-180**

**Part-Circle Sprinkler for Rigid Drops**

The world's first part-circle distribution device:  
combining dry wheel tracks with uniform water  
application and increased yields around  
the pivot towers



### **The Product**

If the wheel tracks of a pivot or linear system become waterlogged, the system's progress as it moves across the field can be halted or slowed down - resulting in potential local overwatering, and damage to both the equipment and the crop. This can be avoided by installing part-circle sprinklers around the towers, which irrigate the area next to the tracks in a 180-degree pattern.

The Komet Precision Twister (KPT) PC-180 is not an ordinary dry wheel track solution: in contrast to similar products on the market, it is the first part-circle sprinkler to deliver a uniform distribution pattern and consistent droplet size across the entire wetted area. The result: dry wheel tracks and maximum yields on every square-inch of productive soil.

Thanks to the KPT PC's ability to distribute an ideal droplet size, it is suitable for all crop types and can be used along the entire irrigation system. The interplay between sophisticated design, precision manufacturing and the use of high-quality materials ensures an extensive product lifespan.

### **Features and Benefits:**

- ▶ 180-degree distribution pattern for dry wheel track options
- ▶ Excellent distribution pattern and optimized droplet size
- ▶ High energy efficiency
- ▶ Long lasting and durable design
- ▶ Suitable for nozzle sizes from 2,8 - 10,3 mm
- ▶ Pressure range 0,4 to 1,0 bar
- ▶ For installation on rigid drops



**KPT PC-180**  
Gray Deflector  
Part Circle

**Komet Precision Twister**

KPT PC-180



**komet** | *Precision Twister (KPT) PC180*

**PART CIRCLE**

Deflector Specifications		Operating Parameters									Installation		
Trajectory	Grooves	Nozzle range (mm)			Pressure range (bar)			Flow rang (l/hr)			Spacing max. (m)		Drop Type
Standard Angle	10	2,8 - 10,3			0,41 - 1,03			196,3 - 4175,5			3		Rigid Drop
Nozzle Size		Throw Radius R(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)		
mm	1/128"	0,41	0,69	1,03	0,41	0,69	1,03	0,41	0,69	1,03	0,41	0,69	1,03
2,8	14	3,2	4,0	4,8	3,7	4,7	5,6	4,0	5,1	6,0	0,50	0,67	0,74
3,2	16	3,4	4,3	5,1	3,9	4,9	5,9	4,2	5,3	6,4	0,55	0,72	0,77
4,6	23	3,9	4,9	5,9	4,5	5,7	6,8	4,9	6,2	7,4	0,59	0,72	0,85
5,8	29	4,3	5,4	6,4	4,9	6,2	7,4	5,4	6,8	8,1	0,60	0,74	0,94
6,7	34	4,6	5,7	6,9	5,3	6,6	7,9	5,7	7,2	8,6	0,60	0,74	0,99
7,9	40	4,9	6,1	7,3	5,6	7,1	8,4	6,1	7,7	9,2	0,60	0,77	0,99
8,9	45	5,1	6,4	7,7	5,9	7,4	8,8	6,4	8,0	9,6	0,60	0,78	0,99
10,3	52	5,4	6,8	8,1	6,2	7,8	9,4	6,8	8,5	10,2	0,60	0,78	0,99

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.